



















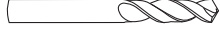


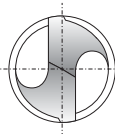


# Drilling, Milling, Tapping and Threading

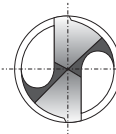
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## General Characteristics

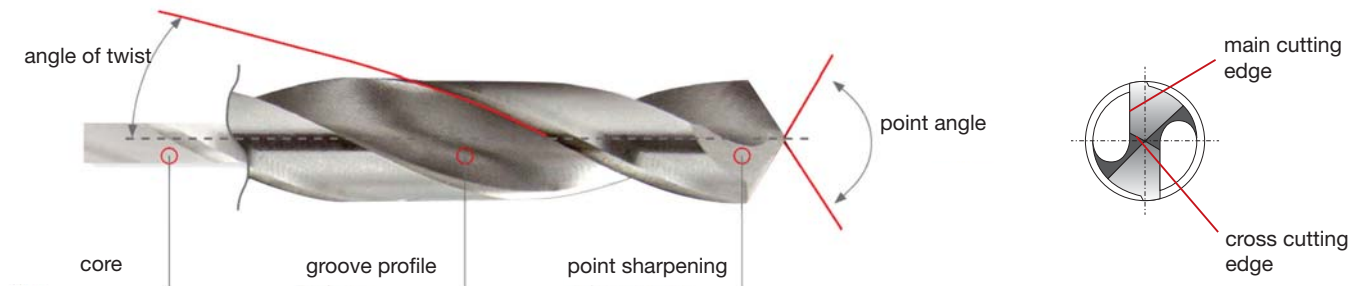
|   |  |
|---|--|
| <p><b>DIN 338</b> Twist drills with cylinder shank</p>               | <p><b>HSS</b> High speed steel for drilling in highly preprocessable materials with a strength of up to 900 N/mm<sup>2</sup></p>   |
| <p><b>DIN 338</b> Spiral drills with thickened cylinder shank</p>    | <p><b>HSSE Co 5</b> High-speed steel with 5% carbon content. High toughness and heat resistance for drilling in difficult to machine materials with a strength of up to 1,100 N/mm<sup>2</sup>.</p>  |
| <p><b>DIN 340</b> Long twist drills with cylinder shank</p>          | <p><b>HSSE Co 8</b> High-speed steel with 8% carbon content. Very high strength and excellent heat resistance for drilling in high strength materials, austenitic steel, for hot forging, etc., with a strength of up to 1,300 N/mm<sup>2</sup>.</p> |
| <p><b>DIN 345</b> Twist drill with morse taper shank</p>             |  |
| <p><b>DIN 1897</b> Extra short twist drill with cylinder shank</p>   | <p><b>TiN</b> Titanium nitride coating increases the service life compared to uncoated tools.</p>  |
| <p><b>DIN 333</b> Centering drill 60° - Form A</p>                   | <p><b>TiAlN</b> Titanium-aluminum-nitride coating increases the resistance to oxidation and hot-setting.</p>   |
| <p><b>DIN 1869</b> Extra long twist drills with cylinder shank</p>  |  |



**Conical section (normal section)**  
Strong main cutting edges, resistant against shock and possible lateral forces, easy to sand by hand







**Split point**  
Prolonged main cutting edges, resistant against shock, good heat dissipation for greater durability



### Guide values - recommended speed in 1/rpm



| Drill Ø | Steel | Stainless steel | Aluminium | Brass | Plastic | High strength steel |
|---------|-------|-----------------|-----------|-------|---------|---------------------|
| 1 mm    | 2.800 | 2.200           | 5.500     | 4.500 | 2.500   | 1.800               |
| 2 mm    | 2.600 | 2.000           | 5.000     | 4.000 | 2.300   | 1.200               |
| 3 mm    | 2.200 | 1.600           | 4.500     | 3.500 | 1.900   | 800                 |
| 4 mm    | 1.800 | 1.250           | 4.000     | 3.100 | 1.500   | 630                 |
| 5 mm    | 1.500 | 1.000           | 3.500     | 2.750 | 1.250   | 510                 |
| 6 mm    | 1.250 | 800             | 3.050     | 2.400 | 1.050   | 420                 |
| 7 mm    | 1.060 | 660             | 2.650     | 2.100 | 900     | 360                 |
| 8 mm    | 900   | 560             | 2.330     | 1.800 | 775     | 310                 |
| 9 mm    | 770   | 490             | 2.000     | 1.540 | 660     | 280                 |
| 10 mm   | 660   | 430             | 1.730     | 1.300 | 580     | 250                 |
| 11 mm   | 580   | 375             | 1.480     | 1.080 | 510     | 230                 |
| 12 mm   | 510   | 330             | 1.250     | 860   | 450     | 210                 |
| 13 mm   | 450   | 300             | 1.050     | 700   | 400     | 190                 |
| 14 mm   | 400   | 270             | 870       | 550   | 360     | 170                 |

Twist Drill Application Overview

| Metal Drilling, Application and Allocation  |                       |                       |                         |                       |                       |                            |                           |                         |                         |                               |
|---|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|----------------------------|---------------------------|-------------------------|-------------------------|-------------------------------|
| DIN/Type  | 338 N                 | 338 N                 | 338 N                   | 338 N                 | 338 N                 | 338 W                      | 338 W                     | 338 N                   | 338 N                   | 338 N                         |
| Cutting material  | roll forged HSS       | polished HSS          | polished HSS-E          | polished HSS-TIN      | Bullet HSS-E          | polished HSS-TIAN          | polished HSS-E Multi-Inox | polished HSS-E Steam    | polished HSS-E Multi-TT | polished HSS-E Co 8 %         |
| AGR   | 5500                  | 5501                  | 5502                    | 5503                  | 5504                  | 5516                       | 5506 5                    | 5566 5                  | 5567 5                  | 5564                          |
| Fields of Application   |                       |                       |                         |                       |                       |                            |                           |                         |                         |                               |
| Steel   | →                     | ↑                     | ↑                       | ↑                     | ↑                     | ↑                          | ↑                         | ↑                       | ↑                       | →                             |
| Special steels > 800N/mm <sup>2</sup>   | ↓                     | →                     | →                       | →                     | →                     | ↑                          | ↑                         | ↑                       | ↑                       | ↑                             |
| Stainless steel   | ↓                     | ↓                     | ↑                       | →                     | →                     | ↑                          | ↑                         | ↑                       | ↑                       | →                             |
| Non-ferrous metals  | ↑                     | ↑                     | ↑                       | ↑                     | ↑                     | ↑                          | →                         | →                       | ↑                       | →                             |
| Cast  | →                     | ↑                     | ↑                       | ↑                     | →                     | →                          | ↑                         | ↑                       | ↑                       | ↑                             |
| Titanium  | ↓                     | ↓                     | →                       | →                     | →                     | →                          | →                         | →                       | ↑                       | ↑                             |
| Hard plastics (Duroset)   | ↑                     | ↑                     | →                       | →                     | →                     | ↑                          | →                         | ↑                       | ↑                       | →                             |
| Soft plastics (Thermoset)   | ↑                     | ↑                     | →                       | →                     | →                     | ↑                          | →                         | →                       | →                       | ↓                             |
| Elastomer   | →                     | →                     | ↓                       | ↓                     | ↓                     | ↑                          | ↓                         | ↓                       | ↓                       | ↓                             |
| Wood  | →                     | →                     | →                       | →                     | ↓                     | →                          | →                         | →                       | →                       | →                             |
|  | →                     | ↑                     | ↑                       | ↑                     | ↑                     | ↓                          | ↑                         | →                       | ↓                       | →                             |
|  | ↑                     | ↑                     | ↑                       | ↑                     | ↑                     | →                          | ↑                         | ↑                       | →                       | ↑                             |
|  | →                     | →                     | ↑                       | ↑                     | ↓                     | ↑                          | ↓                         | ↑                       | ↑                       | ↑                             |
|  | ↓                     | →                     | →                       | →                     | ↓                     | ↑                          | ↓                         | ↑                       | ↑                       | ↑                             |
| Technical Data  |                       |                       |                         |                       |                       |                            |                           |                         |                         |                               |
| Drilling depth  | 5 × Ø                 | 5 × Ø                 | 5 × Ø                   | 5 × Ø                 | 3 × Ø                 | 6 × Ø                      | 4 × Ø                     | 3 × Ø                   | 3 × Ø                   | 5 × Ø                         |
| Tip angle   | 118°                  | 135°                  | 130°                    | 135°                  | 118°                  | 130°                       | 135°                      | 118°                    | 118°                    | 130°                          |
| Split point   | no                    | from 3 mm             | from 3 mm               | from 3 mm             | yes                   | from 2 mm                  | from 3 mm                 | from 1 mm               | from 1 mm               | ab 2 mm                       |
| Surface   | burnished             | burnished             | bare                    | Titanium-nitride      | bare                  | Titanium aluminium nitride | steam tempred             | steam tempred           | TIALN-TIN multi coating | bare                          |
| Geometry  | roll forget           | polished              | polished                | polished              | polished              | polished                   | polished                  | polished                | polished                | polished                      |
| Suitable for strength N/mm <sup>2</sup>   | 800 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> | 1,000 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> | 1,200 N/mm <sup>2</sup>    | 900 N/mm <sup>2</sup>     | 1,000 N/mm <sup>2</sup> | 1,200 N/mm <sup>2</sup> | 800 – 1,300 N/mm <sup>2</sup> |

↑ ideally suitable   
 → conditionally suitable   
 ↓ not suitable

Twist Drill Application Overview

| Metal Drilling, Application and Allocation  |                       |                         |                       |                       |                       |                       |
|---|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| DIN/Type  | 338 N                 | 340 W                   | 340 N                 | 1869 R2 N             | 345 N                 | 1897 N                |
| Cutting material  | roll forged HSS       | polished HSS-E          | polished HSS          | polished HSS          | polished HSS          | polished HSS          |
| AGR   | 5505                  | 5510 5                  | 5510                  | 5508                  | 5511                  | 5507                  |
| Fields of Application   |                       |                         |                       |                       |                       |                       |
| Steel   | →                     | ↑                       | ↑                     | ↑                     | ↑                     | ↑                     |
| Special steels > 800 N/mm <sup>2</sup>  | ↓                     | →                       | →                     | →                     | →                     | →                     |
| Stainless steel   | ↓                     | ↑                       | ↓                     | ↓                     | ↓                     | ↓                     |
| Non-ferrous metals  | ↑                     | ↑                       | ↑                     | ↑                     | ↑                     | ↑                     |
| Cast  | →                     | ↑                       | ↑                     | ↑                     | ↑                     | ↑                     |
| Titanium  | ↓                     | →                       | ↓                     | ↓                     | ↓                     | ↓                     |
| Hard plastics (Duroset)   | ↑                     | ↑                       | ↑                     | ↑                     | →                     | ↑                     |
| Soft plastics (Thermoset)   | ↑                     | ↑                       | ↑                     | ↑                     | →                     | ↑                     |
| Elastomer   | →                     | ↑                       | ↑                     | ↑                     | →                     | ↑                     |
| Wood  | →                     | →                       | →                     | →                     | →                     | →                     |
|  | →                     | →                       | →                     | →                     | ↓                     | ↑                     |
|  | ↑                     | ↑                       | ↑                     | ↑                     | ↓                     | ↑                     |
|  | →                     | ↑                       | →                     | ↓                     | ↑                     | ↑                     |
|  | ↓                     | ↑                       | ↓                     | ↓                     | ↑                     | ↑                     |
| Technical Data  |                       |                         |                       |                       |                       |                       |
| Drilling depth  | 3 × Ø                 | 10 × Ø                  | 5 × Ø                 | 25 × Ø                | 5 × Ø                 | 3 × Ø                 |
| Tip angle   | 118°                  | 130°                    | 135°                  | 130°                  | 118°                  | 118°                  |
| Split point   | no                    | yes                     | yes                   | yes                   | no                    | yes                   |
| Surface   | burnished             | bare                    | bare                  | bare                  | burnished             | bare                  |
| Geometry  | roll forged           | polished                | polished              | polished              | roll forged           | polished              |
| Suitable for strength   | 800 N/mm <sup>2</sup> | 1,000 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> | 900 N/mm <sup>2</sup> |

↑ ideally suitable   
 → conditionally suitable   
 ↓ not suitable



# Twist Drill HSS, Polished, MULTI-TT **FÖRCH**\*\*\*\*\*

- The specialist for professional machining when it comes to cars, workshops and industry, with a wide range of applications in a variety of materials
  - Multilayer MULTI-TT coating ensures maximum thermal stability and optimised wear behaviour
  - Up to 7 times longer service life compared with conventional HSS drilling tools
  - Ideal for use in stationary machinery and CNC controlled machining centres
  - Increased cutting stability, ensuring very high drilling stability
  - Precise drilling behaviour, highest dimensional accuracy and maximum precision
  - Outstanding fracture resistance due to optimum elasticity
  - Reduced chuck wear due to hardened shaft
  - Split point from Ø 1 mm, for precise drilling
  - **Standard / Type:** DIN 338 / Type N
  - **Cutting material:** HSS-E 5 % cobalt alloy
  - **Surface:** multi-layered TiAlN / TiN coating
  - **Optimum drilling depth:** 3x drill Ø
  - **Point angle:** 118°
  - **Angle of twist:** 130°
  - **Shaft:** short cylindrical
  - **Coating hardness:** 3,300 HV
  - **Cutting direction:** clockwise
- Areas of application:**
- Alloyed and unalloyed steels (up to 1,200 N/mm<sup>2</sup>) tensile strength, corrosion, acid and heat resistant austenitic steel V2A and V4A, titanium and titanium alloys, cast iron, aluminium, aluminium alloys, copper, brass, bronze, etc.



**Technical Data / Approximate speed recommendation in 1/rpm**

| Drill Ø | Steel<br>HSS twist drill | Stainless steel<br>HSS-E twist drill | Aluminium<br>HSS twist drill | Brass<br>HSS twist drill | Plastics<br>HSS twist drill |
|---------|--------------------------|--------------------------------------|------------------------------|--------------------------|-----------------------------|
| 1 mm    | 2,800                    | 2,200                                | 5,500                        | 4,500                    | 2,500                       |
| 2 mm    | 2,600                    | 2,000                                | 5,000                        | 4,000                    | 2,300                       |
| 3 mm    | 2,200                    | 1,600                                | 4,500                        | 3,500                    | 1,900                       |
| 4 mm    | 1,800                    | 1,250                                | 4,000                        | 3,100                    | 1,500                       |
| 5 mm    | 1,500                    | 1,000                                | 3,500                        | 2,750                    | 1,250                       |
| 6 mm    | 1,250                    | 800                                  | 3,050                        | 2,400                    | 1,050                       |
| 7 mm    | 1,060                    | 660                                  | 2,650                        | 2,100                    | 900                         |
| 8 mm    | 900                      | 560                                  | 2,330                        | 1,800                    | 775                         |
| 9 mm    | 770                      | 490                                  | 2,000                        | 1,540                    | 660                         |
| 10 mm   | 660                      | 430                                  | 1,730                        | 1,300                    | 580                         |
| 11 mm   | 580                      | 375                                  | 1,480                        | 1,080                    | 510                         |
| 12 mm   | 510                      | 330                                  | 1,250                        | 860                      | 450                         |
| 13 mm   | 450                      | 300                                  | 1,050                        | 700                      | 400                         |
| 14 mm   | 400                      | 270                                  | 870                          | 550                      | 360                         |

| Article No. | Article Description            | QTY |
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| 5567 5 11   | TW.DR.338HSS-E,MULTI-TT 1.1 5* | 10  |
| 5567 5 12   | TW.DR.338HSS-E,MULTI-TT 1.2 5* | 10  |
| 5567 5 13   | TW.DR.338HSS-E,MULTI-TT 1.3 5* | 10  |
| 5567 5 14   | TW.DR.338HSS-E,MULTI-TT 1.4 5* | 10  |
| 5567 5 15   | TW.DR.338HSS-E,MULTI-TT 1.5 5* | 10  |
| 5567 5 16   | TW.DR.338HSS-E,MULTI-TT 1.6 5* | 10  |
| 5567 5 17   | TW.DR.338HSS-E,MULTI-TT 1.7 5* | 10  |
| 5567 5 18   | TW.DR.338HSS-E,MULTI-TT 1.8 5* | 10  |
| 5567 5 19   | TW.DR.338HSS-E,MULTI-TT 1.9 5* | 10  |
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| 5567 5 23   | TW.DR.338HSS-E,MULTI-TT 2.3 5* | 10  |
| 5567 5 24   | TW.DR.338HSS-E,MULTI-TT 2.4 5* | 10  |
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| 5567 5 26   | TW.DR.338HSS-E,MULTI-TT 2.6 5* | 10  |
| 5567 5 27   | TW.DR.338HSS-E,MULTI-TT 2.7 5* | 10  |

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| 5567 5 32   | TW.DR.338HSS-E,MULTI-TT 3.2 5* | 10   |
| 5567 5 33   | TW.DR.338HSS-E,MULTI-TT 3.3 5* | 10   |
| 5567 5 34   | TW.DR.338HSS-E,MULTI-TT 3.4 5* | 10   |
| 5567 5 35   | TW.DR.338HSS-E,MULTI-TT 3.5 5* | 10   |
| 5567 5 36   | TW.DR.338HSS-E,MULTI-TT 3.6 5* | 10   |
| 5567 5 37   | TW.DR.338HSS-E,MULTI-TT 3.7 5* | 10   |
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| 5567 5 39   | TW.DR.338HSS-E,MULTI-TT 3.9 5* | 10   |
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| 5567 5 44   | TW.DR.338HSS-E,MULTI-TT 4.4 5* | 10   |
| 5567 5 45   | TW.DR.338HSS-E,MULTI-TT 4.5 5* | 10   |

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# Twist Drill HSS, Polished, MULTI-TT **FÖRCH**\*\*\*\*\*

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| 5567 5 49   | TW.DR.338HSS-E,MULTI-TT 4.9 5* | 10  |
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| 5567 5 74   | TW.DR.338HSS-E,MULTI-TT 7.4 5* | e 5 |
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| 5567 5 96   | TW.DR.338HSS-E,MULTI-TT 9.6 5* | 1   |
| 5567 5 97   | TW.DR.338HSS-E,MULTI-TT 9.7 5* | 1   |
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| 5567 5 101  | TW.DR.338HSSE,MULTI-TT 10,1 5* | 1   |
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| 5567 5 120  | TW.DR.338HSSE,MULTI-TT 12.0 5* | 1   |
| 5567 5 125  | TW.DR.338HSSE,MULTI-TT 12.5 5* | 1   |
| 5567 5 130  | TW.DR.338HSSE,MULTI-TT 13.0 5* | 1   |
| 5567 5 135  | TW.DR.338HSSE,MULTI-TT 13.5 5* | 1   |
| 5567 5 140  | TW.DR.338HSSE,MULTI-TT 14.0 5* | 1   |

# Twist Drill Cartridge HSS-E, MULTI-TT **FÖRCH**\*\*\*\*\*

**Art. No. 5509 5 5567 19**

- 19 pcs. in drill box

**Art. No. 5509 5 5567 25**

- 25 pcs. in drill box

| Article No.    | Article Description            | QTY |
|----------------|--------------------------------|-----|
| 5509 5 5567 19 | TW.DR.CARTR.MULTI-TT 1-10 19P. | 1   |
| 5509 5 5567 25 | TW.DR.CARTR.MULTI-TT 1-13 25P. | 1   |

**Contents Art. No. 5509 5 5567 19:**

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 - 10.0 mm (0.5 mm increase)

**Contents Art. No. 5509 5 5567 25:**

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 - 13.0 mm (0.5 mm increase)



5509 5 5567 25

5509 5 5567 19

# Twist Drill HSS-E, Multi-TT, Range **FÖRCH**\*\*\*\*\*

- Contents: 62 pieces
- Placement: Ø 1.0 - 6 mm = 4 pieces
- Placement: Ø 6.5 - 10.5 mm = 2 pieces
- 0.5 mm increase

**Contents**

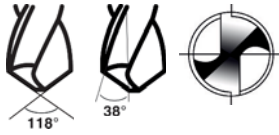
| Article No. | Article Description             | Quantity |
|-------------|---------------------------------|----------|
| 5567 5 10   | TW.DR.338HSS-E,MULTI-TT 1.0 5*  | 4        |
| 5567 5 15   | TW.DR.338HSS-E,MULTI-TT 1.5 5*  | 4        |
| 5567 5 20   | TW.DR.338HSS-E,MULTI-TT 2.0 5*  | 4        |
| 5567 5 25   | TW.DR.338HSS-E,MULTI-TT 2.5 5*  | 4        |
| 5567 5 30   | TW.DR.338HSS-E,MULTI-TT 3.0 5*  | 4        |
| 5567 5 35   | TW.DR.338HSS-E,MULTI-TT 3.5 5*  | 4        |
| 5567 5 40   | TW.DR.338HSS-E,MULTI-TT 4.0 5*  | 4        |
| 5567 5 45   | TW.DR.338HSS-E,MULTI-TT 4.5 5*  | 4        |
| 5567 5 50   | TW.DR.338HSS-E,MULTI-TT 5.0 5*  | 4        |
| 5567 5 55   | TW.DR.338HSS-E,MULTI-TT 5.5 5*  | 4        |
| 5567 5 60   | TW.DR.338HSS-E,MULTI-TT 6.0 5*  | 4        |
| 5567 5 65   | TW.DR.338HSS-E,MULTI-TT 6.5 5*  | 2        |
| 5567 5 70   | TW.DR.338HSS-E,MULTI-TT 7.0 5*  | 2        |
| 5567 5 75   | TW.DR.338HSS-E,MULTI-TT 7.5 5*  | 2        |
| 5567 5 80   | TW.DR.338HSS-E,MULTI-TT 8.0 5*  | 2        |
| 5567 5 85   | TW.DR.338HSS-E,MULTI-TT 8.5 5*  | 2        |
| 5567 5 90   | TW.DR.338HSS-E,MULTI-TT 9.0 5*  | 2        |
| 5567 5 95   | TW.DR.338HSS-E,MULTI-TT 9.5 5*  | 2        |
| 5567 5 100  | TW.DR.338HSS-E,MULTI-TT 10.0 5* | 2        |
| 5567 5 105  | TW.DR.338HSS-E,MULTI-TT 10.5 5* | 2        |



| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 9000 5567 5  | ASSORT.TW.DR.338 MULTI TT 5*   | 1   |
| 9000R 5567 5 | TRAY.TW.DRILL HSSE MULTI TT 5* | 1   |

# Twist Drill HSS-E, Ground, STEAM **FÖRCH**\*\*\*\*\*

- DIN 338, cylindrical, short
- 38° helix angle
- 118° point angle
- 5 % cobalt alloy
- Split point from 1mm Ø
- Optimum drilling depth 3x drill Ø
- Right-hand cutting



## Your Advantage / Benefit

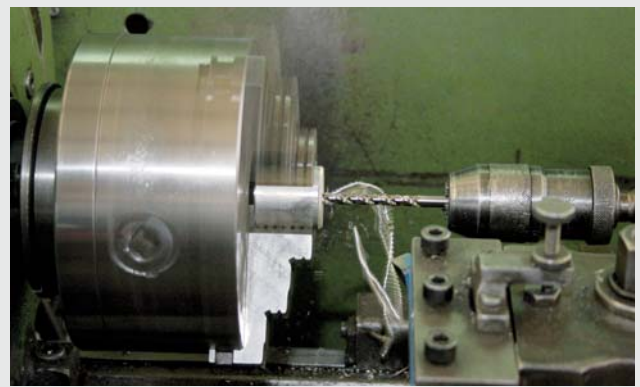
- **Self centring** due to split point, precise drilling control, no centre punch necessary
- **Increased service life** due to improved geometry and cutting stability with precise drilling performance and increased dimensional stability
- **High resistance to breakage** due to optimised elasticity
- **Excellent chip removal**
- **Reduced chuck wear** due to hardened shaft

## Application

- Suitable for use in controlled, stationary CNC-controlled and hand-guided machines
- Alloyed and unalloyed steels (up to to 1,000 N/mm<sup>2</sup> tensile strength), stainless, acid and heat resistant austenitic steels V2A and V4A, titanium and titanium alloy, cast iron, aluminium alloys, copper, brass, bronze etc.



5566 5 10 – 140



(Continued on next page)

## Related Products

- **Impact-Hammer Drill 630 Watt**  
Art.-No. 5325 570



- **Drilling and Cutting Paste**  
Art.-No. 6580 5820



- **"Epsilon" Safety Glasses**  
Art.-No. 5400 905 1





# Twist Drill HSS-E, Ground, STEAM **FÖRCH**\*\*\*\*\*

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5566 5 10   | TW.DR.338 HSS-E STEAM 1.0 5* | 10  |
| 5566 5 11   | TW.DR.338 HSS-E STEAM 1.1 5* | 10  |
| 5566 5 12   | TW.DR.338 HSS-E STEAM 1.2 5* | 10  |
| 5566 5 13   | TW.DR.338 HSS-E STEAM 1.3 5* | 10  |
| 5566 5 14   | TW.DR.338 HSS-E STEAM 1.4 5* | 10  |
| 5566 5 15   | TW.DR.338 HSS-E STEAM 1.5 5* | 10  |
| 5566 5 16   | TW.DR.338 HSS-E STEAM 1.6 5* | 10  |
| 5566 5 17   | TW.DR.338 HSS-E STEAM 1.7 5* | 10  |
| 5566 5 18   | TW.DR.338 HSS-E STEAM 1.8 5* | 10  |
| 5566 5 19   | TW.DR.338 HSS-E STEAM 1.9 5* | 10  |
| 5566 5 20   | TW.DR.338 HSS-E STEAM 2.0 5* | 10  |
| 5566 5 21   | TW.DR.338 HSS-E STEAM 2.1 5* | 10  |
| 5566 5 22   | TW.DR.338 HSS-E STEAM 2.2 5* | 10  |
| 5566 5 23   | TW.DR.338 HSS-E STEAM 2.3 5* | 10  |
| 5566 5 24   | TW.DR.338 HSS-E STEAM 2.4 5* | 10  |
| 5566 5 25   | TW.DR.338 HSS-E STEAM 2.5 5* | 10  |
| 5566 5 26   | TW.DR.338 HSS-E STEAM 2.6 5* | 10  |
| 5566 5 27   | TW.DR.338 HSS-E STEAM 2.7 5* | 10  |
| 5566 5 28   | TW.DR.338 HSS-E STEAM 2.8 5* | 10  |
| 5566 5 29   | TW.DR.338 HSS-E STEAM 2.9 5* | 10  |
| 5566 5 30   | TW.DR.338 HSS-E STEAM 3.0 5* | 10  |
| 5566 5 31   | TW.DR.338 HSS-E STEAM 3.1 5* | 10  |
| 5566 5 32   | TW.DR.338 HSS-E STEAM 3.2 5* | 10  |
| 5566 5 33   | TW.DR.338 HSS-E STEAM 3.3 5* | 10  |
| 5566 5 34   | TW.DR.338 HSS-E STEAM 3.4 5* | 10  |
| 5566 5 35   | TW.DR.338 HSS-E STEAM 3.5 5* | 10  |
| 5566 5 36   | TW.DR.338 HSS-E STEAM 3.6 5* | 10  |
| 5566 5 37   | TW.DR.338 HSS-E STEAM 3.7 5* | 10  |
| 5566 5 38   | TW.DR.338 HSS-E STEAM 3.8 5* | 10  |
| 5566 5 39   | TW.DR.338 HSS-E STEAM 3.9 5* | 10  |
| 5566 5 40   | TW.DR.338 HSS-E STEAM 4.0 5* | 10  |
| 5566 5 41   | TW.DR.338 HSS-E STEAM 4.1 5* | 10  |
| 5566 5 42   | TW.DR.338 HSS-E STEAM 4.2 5* | 10  |
| 5566 5 43   | TW.DR.338 HSS-E STEAM 4.3 5* | 10  |
| 5566 5 44   | TW.DR.338 HSS-E STEAM 4.4 5* | 10  |
| 5566 5 45   | TW.DR.338 HSS-E STEAM 4.5 5* | 10  |
| 5566 5 46   | TW.DR.338 HSS-E STEAM 4.6 5* | 10  |
| 5566 5 47   | TW.DR.338 HSS-E STEAM 4.7 5* | 10  |
| 5566 5 48   | TW.DR.338 HSS-E STEAM 4.8 5* | 10  |
| 5566 5 49   | TW.DR.338 HSS-E STEAM 4.9 5* | 10  |
| 5566 5 50   | TW.DR.338 HSS-E STEAM 5.0 5* | 10  |
| 5566 5 51   | TW.DR.338 HSS-E STEAM 5.1 5* | 5   |
| 5566 5 52   | TW.DR.338 HSS-E STEAM 5.2 5* | 5   |
| 5566 5 53   | TW.DR.338 HSS-E STEAM 5.3 5* | 5   |
| 5566 5 54   | TW.DR.338 HSS-E STEAM 5.4 5* | 5   |
| 5566 5 55   | TW.DR.338 HSS-E STEAM 5.5 5* | 5   |
| 5566 5 56   | TW.DR.338 HSS-E STEAM 5.6 5* | 5   |
| 5566 5 57   | TW.DR.338 HSS-E STEAM 5.7 5* | 5   |
| 5566 5 58   | TW.DR.338 HSS-E STEAM 5.8 5* | 5   |
| 5566 5 59   | TW.DR.338 HSS-E STEAM 5.9 5* | 5   |
| 5566 5 60   | TW.DR.338 HSS-E STEAM 6.0 5* | e 5 |
| 5566 5 61   | TW.DR.338 HSS-E STEAM 6.1 5* | e 5 |
| 5566 5 62   | TW.DR.338 HSS-E STEAM 6.2 5* | e 5 |
| 5566 5 63   | TW.DR.338 HSS-E STEAM 6.3 5* | e 5 |
| 5566 5 64   | TW.DR.338 HSS-E STEAM 6.4 5* | e 5 |
| 5566 5 65   | TW.DR.338 HSS-E STEAM 6.5 5* | e 5 |
| 5566 5 66   | TW.DR.338 HSS-E STEAM 6.6 5* | e 5 |
| 5566 5 67   | TW.DR.338 HSS-E STEAM 6.7 5* | e 5 |
| 5566 5 68   | TW.DR.338 HSS-E STEAM 6.8 5* | e 5 |
| 5566 5 69   | TW.DR.338 HSS-E STEAM 6.9 5* | e 5 |
| 5566 5 70   | TW.DR.338 HSS-E STEAM 7.0 5* | e 5 |
| 5566 5 71   | TW.DR.338 HSS-E STEAM 7.1 5* | e 5 |
| 5566 5 72   | TW.DR.338 HSS-E STEAM 7.2 5* | e 5 |
| 5566 5 73   | TW.DR.338 HSS-E STEAM 7.3 5* | e 5 |
| 5566 5 74   | TW.DR.338 HSS-E STEAM 7.4 5* | e 5 |
| 5566 5 75   | TW.DR.338 HSS-E STEAM 7.5 5* | e 5 |
| 5566 5 76   | TW.DR.338 HSS-E STEAM 7.6 5* | 1   |
| 5566 5 77   | TW.DR.338 HSS-E STEAM 7.7 5* | 1   |

**Technical Data:**

| Drill Ø<br>mm | Total length<br>mm | Flute length<br>mm |
|---------------|--------------------|--------------------|
| 1.0           | 34                 | 12                 |
| 1.1           | 36                 | 14                 |
| 1.2           | 38                 | 16                 |
| 1.3           | 38                 | 16                 |
| 1.4           | 40                 | 18                 |
| 1.5           | 40                 | 18                 |
| 1.6           | 43                 | 20                 |
| 1.7           | 43                 | 20                 |
| 1.8           | 46                 | 22                 |
| 1.9           | 46                 | 22                 |
| 2.0           | 49                 | 24                 |
| 2.1           | 49                 | 24                 |
| 2.2           | 53                 | 27                 |
| 2.3           | 53                 | 27                 |
| 2.4           | 57                 | 30                 |
| 2.5           | 57                 | 30                 |
| 2.6           | 57                 | 30                 |
| 2.7           | 61                 | 33                 |
| 2.8           | 61                 | 33                 |
| 2.9           | 61                 | 33                 |
| 3.0           | 61                 | 33                 |
| 3.1           | 65                 | 36                 |
| 3.2           | 65                 | 36                 |
| 3.3           | 65                 | 36                 |
| 3.4           | 70                 | 39                 |
| 3.5           | 70                 | 39                 |
| 3.6           | 70                 | 39                 |
| 3.7           | 70                 | 39                 |
| 3.8           | 75                 | 43                 |
| 3.9           | 75                 | 43                 |
| 4.0           | 75                 | 43                 |
| 4.1           | 75                 | 43                 |
| 4.2           | 75                 | 43                 |
| 4.3           | 80                 | 47                 |
| 4.4           | 80                 | 47                 |
| 4.5           | 80                 | 47                 |
| 4.6           | 80                 | 47                 |
| 4.7           | 80                 | 47                 |
| 4.8           | 86                 | 52                 |
| 4.9           | 86                 | 52                 |
| 5.0           | 86                 | 52                 |
| 5.1           | 86                 | 52                 |
| 5.2           | 86                 | 52                 |
| 5.3           | 86                 | 52                 |
| 5.4           | 93                 | 57                 |
| 5.5           | 93                 | 57                 |
| 5.6           | 93                 | 57                 |
| 5.7           | 93                 | 57                 |
| 5.8           | 93                 | 57                 |
| 5.9           | 93                 | 57                 |
| 6.0           | 93                 | 57                 |
| 6.1           | 101                | 63                 |
| 6.2           | 101                | 63                 |
| 6.3           | 101                | 63                 |
| 6.4           | 101                | 63                 |
| 6.5           | 101                | 63                 |
| 6.6           | 101                | 63                 |
| 6.7           | 101                | 63                 |
| 6.8           | 109                | 69                 |
| 6.9           | 109                | 69                 |
| 7.0           | 109                | 69                 |
| 7.1           | 109                | 69                 |
| 7.2           | 109                | 69                 |
| 7.3           | 109                | 69                 |
| 7.4           | 109                | 69                 |
| 7.5           | 109                | 69                 |
| 7.6           | 117                | 75                 |
| 7.7           | 117                | 75                 |

(Continued on next page)

# Twist Drill HSS-E, Ground, STEAM **FÖRCH**\*\*\*\*\*

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5566 5 78   | TW.DR.338 HSS-E STEAM 7.8 5*  | 1   |
| 5566 5 79   | TW.DR.338 HSS-E STEAM 7.9 5*  | 1   |
| 5566 5 80   | TW.DR.338 HSS-E STEAM 8.0 5*  | 1   |
| 5566 5 81   | TW.DR.338 HSS-E STEAM 8.1 5*  | 1   |
| 5566 5 82   | TW.DR.338 HSS-E STEAM 8.2 5*  | 1   |
| 5566 5 83   | TW.DR.338 HSS-E STEAM 8.3 5*  | 1   |
| 5566 5 84   | TW.DR.338 HSS-E STEAM 8.4 5*  | 1   |
| 5566 5 85   | TW.DR.338 HSS-E STEAM 8.5 5*  | 1   |
| 5566 5 86   | TW.DR.338 HSS-E STEAM 8.6 5*  | 1   |
| 5566 5 87   | TW.DR.338 HSS-E STEAM 8.7 5*  | 1   |
| 5566 5 88   | TW.DR.338 HSS-E STEAM 8.8 5*  | 1   |
| 5566 5 89   | TW.DR.338 HSS-E STEAM 8.9 5*  | 1   |
| 5566 5 90   | TW.DR.338 HSS-E STEAM 9.0 5*  | 1   |
| 5566 5 91   | TW.DR.338 HSS-E STEAM 9.1 5*  | 1   |
| 5566 5 92   | TW.DR.338 HSS-E STEAM 9.2 5*  | 1   |
| 5566 5 93   | TW.DR.338 HSS-E STEAM 9.3 5*  | 1   |
| 5566 5 94   | TW.DR.338 HSS-E STEAM 9.4 5*  | 1   |
| 5566 5 95   | TW.DR.338 HSS-E STEAM 9.5 5*  | 1   |
| 5566 5 96   | TW.DR.338 HSS-E STEAM 9.6 5*  | 1   |
| 5566 5 97   | TW.DR.338 HSS-E STEAM 9.7 5*  | 1   |
| 5566 5 98   | TW.DR.338 HSS-E STEAM 9.8 5*  | 1   |
| 5566 5 99   | TW.DR.338 HSS-E STEAM 9.9 5*  | 1   |
| 5566 5 100  | TW.DR.338 HSS-E STEAM 10.0 5* | 1   |
| 5566 5 101  | TW.DR.338 HSS-E STEAM 10.1 5* | 1   |
| 5566 5 102  | TW.DR.338 HSS-E STEAM 10.2 5* | 1   |
| 5566 5 103  | TW.DR.338 HSS-E STEAM 10.3 5* | 1   |
| 5566 5 104  | TW.DR.338 HSS-E STEAM 10.4 5* | 1   |
| 5566 5 105  | TW.DR.338 HSS-E STEAM 10.5 5* | 1   |
| 5566 5 110  | TW.DR.338 HSS-E STEAM 11.0 5* | 1   |
| 5566 5 115  | TW.DR.338 HSS-E STEAM 11.5 5* | 1   |
| 5566 5 120  | TW.DR.338 HSS-E STEAM 12.0 5* | 1   |
| 5566 5 125  | TW.DR.338 HSS-E STEAM 12.5 5* | 1   |
| 5566 5 130  | TW.DR.338 HSS-E STEAM 13.0 5* | 1   |
| 5566 5 135  | TW.DR.338 HSS-E STEAM 13.5 5* | 1   |
| 5566 5 140  | TW.DR.338 HSS-E STEAM 14.0 5* | 1   |

| Technical Data: |     |     |
|-----------------|-----|-----|
| 7.8             | 117 | 75  |
| 7.9             | 117 | 75  |
| 8.0             | 117 | 75  |
| 8.1             | 117 | 75  |
| 8.2             | 117 | 75  |
| 8.3             | 117 | 75  |
| 8.4             | 117 | 75  |
| 8.5             | 117 | 75  |
| 8.6             | 125 | 81  |
| 8.7             | 125 | 81  |
| 8.8             | 125 | 81  |
| 8.9             | 125 | 81  |
| 9.0             | 125 | 81  |
| 9.1             | 125 | 81  |
| 9.2             | 125 | 81  |
| 9.3             | 125 | 81  |
| 9.4             | 125 | 81  |
| 9.5             | 125 | 81  |
| 9.6             | 133 | 87  |
| 9.7             | 133 | 87  |
| 9.8             | 133 | 87  |
| 9.9             | 133 | 87  |
| 10.0            | 133 | 87  |
| 10.1            | 133 | 87  |
| 10.2            | 133 | 87  |
| 10.3            | 133 | 87  |
| 10.4            | 133 | 87  |
| 10.5            | 133 | 87  |
| 11.0            | 142 | 94  |
| 11.5            | 142 | 94  |
| 12.0            | 142 | 94  |
| 12.5            | 142 | 94  |
| 13.0            | 142 | 94  |
| 13.5            | 151 | 101 |
| 14.0            | 160 | 108 |

# Twist Drill HSS-E, Box / Assortment **FÖRCH**\*\*\*\*\*



**Contents:**

**Art. No. 5509 5 5566 19:**

- 19 pcs.
- each 1x Ø 1.0 – 10.0 mm (0.5 mm increase)

**Art. No. 5509 5 5566 25:**

- 25 pcs.
- each 1x Ø 1.0 – 13.0 mm (0.5 mm increase)

**Art. No. 9000 55 66 5:**

- 62 pcs.
- each 4x Ø 1.0 – 6.0 mm (0.5 mm increase)
- each 2x Ø 6.5 – 10.5 mm (0.5 mm increase)

| Article No.    | Article Description            | QTY |
|----------------|--------------------------------|-----|
| 5509 5 5566 19 | DRILL BOX STEAM 1-10 19PCS.5*  | 1   |
| 5509 5 5566 25 | DRILL BOX STEAM 1-13 25PCE 5*  | 1   |
| 9000 5566 5    | ASSORT.TW.DR.338 HSSE STEAM 5* | 1   |
| 9000R 5566 5   | TRAY.TW.DRILL338 HSSE STEAM 5* | 1   |

# Twist Drill HSS-E, Polished, MULTI-INOX **FÖRCH**\*\*\*\*\*

- The specialist for trade, vehicles, industry
- 5 % cobalt alloy
- Ideal for use in hand-guided machines
- Minimised effort due to improved geometry of the cut
- Improved drilling speed
- Pinpoint accuracy when drilling, no punches needed
- Precise drilling rate and improved accuracy
- Great break resistance due to optimum elasticity
- 3-edged shaft prevents skidding in the drill chuck due to frictional connection
- Reduced wear and tear of the drill chuck
- Optimum power transmission from the shaft to the tip
- 40° angle of twist 38° angle of twist
- Right-hand cutting
- DIN 338 short cylindrical
- Split point from Ø 3 mm
- Tip angle 135°
- 3-edged shaft from Ø 4 mm



shaft polished 120°



**Application:**

- Alloy and non-alloy steel (up to 900 N/mm<sup>2</sup> tensile strength).
- Rust, acid and heat resistant austenitic steel V2A and V4A, titanium and titanium alloys, cast iron, aluminium, aluminium alloys, cooper, brass, bronze etc.

**Technical Data /Approximate speed recommendation in 1/rpm**

| Drill Ø | Steel<br>HSS twist drill | Stainless steel<br>HSS-E twist drill | Aluminium<br>HSS twist drill | Brass<br>HSS twist drill | Plastics<br>HSS twist drill |
|---------|--------------------------|--------------------------------------|------------------------------|--------------------------|-----------------------------|
| 1 mm    | 2,800                    | 2,200                                | 5,500                        | 4,500                    | 2,500                       |
| 2 mm    | 2,600                    | 2,000                                | 5,000                        | 4,000                    | 2,300                       |
| 3 mm    | 2,200                    | 1,600                                | 4,500                        | 3,500                    | 1,900                       |
| 4 mm    | 1,800                    | 1,250                                | 4,000                        | 3,100                    | 1,500                       |
| 5 mm    | 1,500                    | 1,000                                | 3,500                        | 2,750                    | 1,250                       |
| 6 mm    | 1,250                    | 800                                  | 3,050                        | 2,400                    | 1,050                       |
| 7 mm    | 1,060                    | 660                                  | 2,650                        | 2,100                    | 900                         |
| 8 mm    | 900                      | 560                                  | 2,330                        | 1,800                    | 775                         |
| 9 mm    | 770                      | 490                                  | 2,000                        | 1,540                    | 660                         |
| 10 mm   | 660                      | 430                                  | 1,730                        | 1,300                    | 580                         |
| 11 mm   | 580                      | 375                                  | 1,480                        | 1,080                    | 510                         |
| 12 mm   | 510                      | 330                                  | 1,250                        | 860                      | 450                         |
| 13 mm   | 450                      | 300                                  | 1,050                        | 700                      | 400                         |

| Article No. | Article Description            | QTY  |
|-------------|--------------------------------|------|
| 5506 5 10   | TWIST DRILL 338 MULTI-INOX 1.0 | 10   |
| 5506 5 15   | TWIST DRILL 338 MULTI-INOX 1.5 | 10   |
| 5506 5 20   | TWIST DRILL 338 MULTI-INOX 2.0 | 10   |
| 5506 5 25   | TWIST DRILL 338 MULTI-INOX 2.5 | 10   |
| 5506 5 30   | TWIST DRILL 338 MULTI-INOX 3.0 | 10   |
| 5506 5 32   | TWIST DRILL 338 MULTI-INOX 3.2 | 10   |
| 5506 5 33   | TWIST DRILL 338 MULTI-INOX 3.3 | 10   |
| 5506 5 35   | TWIST DRILL 338 MULTI-INOX 3.5 | 10   |
| 5506 5 40   | TWIST DRILL 338 MULTI-INOX 4.0 | 10   |
| 5506 5 41   | TWIST DRILL 338 MULTI-INOX 4.1 | 10   |
| 5506 5 42   | TWIST DRILL 338 MULTI-INOX 4.2 | 10   |
| 5506 5 45   | TWIST DRILL 338 MULTI-INOX 4.5 | 10   |
| 5506 5 50   | TWIST DRILL 338 MULTI-INOX 5.0 | 10   |
| 5506 5 51   | TWIST DRILL 338 MULTI-INOX 5.1 | 10   |
| 5506 5 52   | TWIST DRILL 338 MULTI-INOX 5.2 | 10   |
| 5506 5 55   | TWIST DRILL 338 MULTI-INOX 5.5 | 10   |
| 5506 5 60   | TWIST DRILL 338 MULTI-INOX 6.0 | e 10 |

| Article No. | Article Description             | QTY |
|-------------|---------------------------------|-----|
| 5506 5 65   | TWIST DRILL 338 MULTI-INOX 6.5  | e 5 |
| 5506 5 68   | TWIST DRILL 338 MULTI-INOX 6.8  | e 5 |
| 5506 5 70   | TWIST DRILL 338 MULTI-INOX 7.0  | e 5 |
| 5506 5 75   | TWIST DRILL 338 MULTI-INOX 7.5  | e 5 |
| 5506 5 80   | TWIST DRILL 338 MULTI-INOX 8.0  | e 5 |
| 5506 5 85   | TWIST DRILL 338 MULTI-INOX 8.5  | e 5 |
| 5506 5 90   | TWIST DRILL 338 MULTI-INOX 9.0  | e 5 |
| 5506 5 95   | TWIST DRILL 338 MULTI-INOX 9.5  | e 5 |
| 5506 5 100  | TWIST DRILL 338 MULTI-INOX 10.0 | e 5 |
| 5506 5 102  | TWIST DRILL 338 MULTI-INOX 10.2 | e 5 |
| 5506 5 105  | TWIST DR. 338 MULTI-INOX 10.5   | 1   |
| 5506 5 110  | TWIST DR. 338 MULTI-INOX 11.0   | 1   |
| 5506 5 115  | TWIST DR. 338 MULTI-INOX 11.5   | 1   |
| 5506 5 120  | TWIST DR. 338 MULTI-INOX 12.0   | 1   |
| 5506 5 125  | TWIST DR. 338 MULTI-INOX 12.5   | 1   |
| 5506 5 130  | TWIST DR. 338 MULTI-INOX 13.0   | 1   |

# Twist Drill Cartridge HSS-E, MULTI-INOX FORCH\*\*\*\*\*

Art. No. 5509 5 5506 19

- 19 pcs. in drill box

Art. No. 5509 5 5506 25

- 25 pcs. in drill box

| Article No.    | Article Description            | QTY |
|----------------|--------------------------------|-----|
| 5509 5 5506 19 | TW.DR.CARTR.MULTI-INOX 1-10 5* | 1   |
| 5509 5 5506 25 | TW.DR.CARTR.MULTI-INOX 1-13 5* | 1   |

Contents Art. No. 5509 5 5506 19:

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 – 10.0 mm (0.5 mm increase)

Contents Art. No. 5509 5 5506 25:

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 – 13.0 mm (0.5 mm increase)



5509 5 5506 25

# Twist Drill HSS-E, MULTI-INOX, Assortment FORCH\*\*\*\*\*

- Contents: 62 pieces
- Placement: Ø 1.0 – 6 mm = 4 pieces
- Placement: Ø 6.5 – 10.5 mm = 2 pieces
- 0.5 mm increase

**Contents**

| Article No. | Article Description             | Quantity |
|-------------|---------------------------------|----------|
| 5506 5 10   | TWIST DRILL 338 MULTI-INOX 1.0  | 4        |
| 5506 5 15   | TWIST DRILL 338 MULTI-INOX 1.5  | 4        |
| 5506 5 20   | TWIST DRILL 338 MULTI-INOX 2.0  | 4        |
| 5506 5 25   | TWIST DRILL 338 MULTI-INOX 2.5  | 4        |
| 5506 5 30   | TWIST DRILL 338 MULTI-INOX 3.0  | 4        |
| 5506 5 35   | TWIST DRILL 338 MULTI-INOX 3.5  | 4        |
| 5506 5 40   | TWIST DRILL 338 MULTI-INOX 4.0  | 4        |
| 5506 5 45   | TWIST DRILL 338 MULTI-INOX 4.5  | 4        |
| 5506 5 50   | TWIST DRILL 338 MULTI-INOX 5.0  | 4        |
| 5506 5 55   | TWIST DRILL 338 MULTI-INOX 5.5  | 4        |
| 5506 5 60   | TWIST DRILL 338 MULTI-INOX 6.0  | 4        |
| 5506 5 65   | TWIST DRILL 338 MULTI-INOX 6.5  | 2        |
| 5506 5 70   | TWIST DRILL 338 MULTI-INOX 7.0  | 2        |
| 5506 5 75   | TWIST DRILL 338 MULTI-INOX 7.5  | 2        |
| 5506 5 80   | TWIST DRILL 338 MULTI-INOX 8.0  | 2        |
| 5506 5 85   | TWIST DRILL 338 MULTI-INOX 8.5  | 2        |
| 5506 5 90   | TWIST DRILL 338 MULTI-INOX 9.0  | 2        |
| 5506 5 95   | TWIST DRILL 338 MULTI-INOX 9.5  | 2        |
| 5506 5 100  | TWIST DRILL 338 MULTI-INOX 10.0 | 2        |
| 5506 5 105  | TWIST DR. 338 MULTI-INOX 10.5   | 2        |



| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 9000 5506 5  | ASSORT.TW.DR.338 MULTI INOX 5* | 1   |
| 9000R 5506 5 | TRAY.TW.DRILL338 MULTI-INOX 5* | 1   |



# Twist Drill DIN 338 HSS-TIAN, Ground Type W

- Titan-aluminium-nitride coating
- Right-hand cutting
- Split point (from Ø 2.0 mm)
- Point angle 130°
- Helix angle 40°
- Ø-tolerance h8
- This drill has a high surface hardness due to a titanium-aluminium-nitride coating, thus it has a considerably higher service life and is more resistant to abrasion.
- Higher cutting speeds and less chipping forces necessary
- Ideally suitable for drilling materials that are medium and long chipping and hard to machine
- Especially suitable for drilling deep holes



**Applications:**

- For alloyed and unalloyed steels (up to approx. 1,200 N/mm<sup>2</sup> strength), high-alloyed chromium steel such as stainless and acid resistant steel, titanium, titanium alloy, cast iron, aluminium, aluminium alloy, copper, brass, bronze etc.

| Article No. | Article Description         | QTY  |
|-------------|-----------------------------|------|
| 5516 10     | TWIST DRILL TL 338 TIAN 1.0 | 10   |
| 5516 11     | TWIST DRILL TL 338 TIAN 1.1 | 10   |
| 5516 12     | TWIST DRILL TL 338 TIAN 1.2 | 10   |
| 5516 13     | TWIST DRILL TL 338 TIAN 1.3 | 10   |
| 5516 14     | TWIST DRILL TL 338 TIAN 1.4 | 10   |
| 5516 15     | TWIST DRILL TL 338 TIAN 1.5 | 10   |
| 5516 16     | TWIST DRILL TL 338 TIAN 1.6 | 10   |
| 5516 17     | TWIST DRILL TL 338 TIAN 1.7 | 10   |
| 5516 18     | TWIST DRILL TL 338 TIAN 1.8 | 10   |
| 5516 19     | TWIST DRILL TL 338 TIAN 1.9 | 10   |
| 5516 20     | TWIST DRILL TL 338 TIAN 2.0 | 10   |
| 5516 21     | TWIST DRILL TL 338 TIAN 2.1 | 10   |
| 5516 22     | TWIST DRILL TL 338 TIAN 2.2 | 10   |
| 5516 23     | TWIST DRILL TL 338 TIAN 2.3 | 10   |
| 5516 24     | TWIST DRILL TL 338 TIAN 2.4 | 10   |
| 5516 25     | TWIST DRILL TL 338 TIAN 2.5 | 10   |
| 5516 26     | TWIST DRILL TL 338 TIAN 2.6 | 10   |
| 5516 27     | TWIST DRILL TL 338 TIAN 2.7 | 10   |
| 5516 28     | TWIST DRILL TL 338 TIAN 2.8 | 10   |
| 5516 29     | TWIST DRILL TL 338 TIAN 2.9 | 10   |
| 5516 30     | TWIST DRILL TL 338 TIAN 3.0 | 10   |
| 5516 31     | TWIST DRILL TL 338 TIAN 3.1 | 10   |
| 5516 32     | TWIST DRILL TL 338 TIAN 3.2 | 10   |
| 5516 33     | TWIST DRILL TL 338 TIAN 3.3 | 10   |
| 5516 34     | TWIST DRILL TL 338 TIAN 3.4 | 10   |
| 5516 35     | TWIST DRILL TL 338 TIAN 3.5 | 10   |
| 5516 36     | TWIST DRILL TL 338 TIAN 3.6 | 10   |
| 5516 37     | TWIST DRILL TL 338 TIAN 3.7 | 10   |
| 5516 38     | TWIST DRILL TL 338 TIAN 3.8 | 10   |
| 5516 39     | TWIST DRILL TL 338 TIAN 3.9 | 10   |
| 5516 40     | TWIST DRILL TL 338 TIAN 4.0 | 10   |
| 5516 41     | TWIST DRILL TL 338 TIAN 4.1 | 10   |
| 5516 42     | TWIST DRILL TL 338 TIAN 4.2 | 10   |
| 5516 43     | TWIST DRILL TL 338 TIAN 4.3 | 10   |
| 5516 44     | TWIST DRILL TL 338 TIAN 4.4 | 10   |
| 5516 45     | TWIST DRILL TL 338 TIAN 4.5 | 10   |
| 5516 46     | TWIST DRILL TL 338 TIAN 4.6 | 10   |
| 5516 47     | TWIST DRILL TL 338 TIAN 4.7 | 10   |
| 5516 48     | TWIST DRILL TL 338 TIAN 4.8 | 10   |
| 5516 49     | TWIST DRILL TL 338 TIAN 4.9 | 10   |
| 5516 50     | TWIST DRILL TL 338 TIAN 5.0 | 10   |
| 5516 51     | TWIST DRILL TL 338 TIAN 5.1 | 10   |
| 5516 52     | TWIST DRILL TL 338 TIAN 5.2 | 10   |
| 5516 53     | TWIST DRILL TL 338 TIAN 5.3 | 10   |
| 5516 54     | TWIST DRILL TL 338 TIAN 5.4 | 10   |
| 5516 55     | TWIST DRILL TL 338 TIAN 5.5 | 10   |
| 5516 56     | TWIST DRILL TL 338 TIAN 5.6 | 10   |
| 5516 57     | TWIST DRILL TL 338 TIAN 5.7 | 10   |
| 5516 58     | TWIST DRILL TL 338 TIAN 5.8 | 10   |
| 5516 59     | TWIST DRILL TL 338 TIAN 5.9 | 10   |
| 5516 60     | TWIST DRILL TL 338 TIAN 6.0 | e 10 |
| 5516 61     | TWIST DRILL TL 338 TIAN 6.1 | e 10 |

| Article No. | Article Description          | QTY  |
|-------------|------------------------------|------|
| 5516 62     | TWIST DRILL TL 338 TIAN 6.2  | e 10 |
| 5516 63     | TWIST DRILL TL 338 TIAN 6.3  | e 10 |
| 5516 64     | TWIST DRILL TL 338 TIAN 6.4  | e 10 |
| 5516 65     | TWIST DRILL TL 338 TIAN 6.5  | e 10 |
| 5516 66     | TWIST DRILL TL 338 TIAN 6.6  | e 10 |
| 5516 67     | TWIST DRILL TL 338 TIAN 6.7  | e 10 |
| 5516 68     | TWIST DRILL TL 338 TIAN 6.8  | e 10 |
| 5516 69     | TWIST DRILL TL 338 TIAN 6.9  | e 10 |
| 5516 70     | TWIST DRILL TL 338 TIAN 7.0  | e 10 |
| 5516 71     | TWIST DRILL TL 338 TIAN 7.1  | e 10 |
| 5516 72     | TWIST DRILL TL 338 TIAN 7.2  | e 10 |
| 5516 73     | TWIST DRILL TL 338 TIAN 7.3  | e 10 |
| 5516 74     | TWIST DRILL TL 338 TIAN 7.4  | e 10 |
| 5516 75     | TWIST DRILL TL 338 TIAN 7.5  | e 10 |
| 5516 76     | TWIST DRILL TL 338 TIAN 7.6  | e 10 |
| 5516 77     | TWIST DRILL TL 338 TIAN 7.7  | e 10 |
| 5516 78     | TWIST DRILL TL 338 TIAN 7.8  | e 10 |
| 5516 79     | TWIST DRILL TL 338 TIAN 7.9  | e 10 |
| 5516 80     | TWIST DRILL TL 338 TIAN 8.0  | e 10 |
| 5516 81     | TWIST DRILL TL 338 TIAN 8.1  | e 10 |
| 5516 82     | TWIST DRILL TL 338 TIAN 8.2  | e 10 |
| 5516 83     | TWIST DRILL TL 338 TIAN 8.3  | e 10 |
| 5516 84     | TWIST DRILL TL 338 TIAN 8.4  | e 10 |
| 5516 85     | TWIST DRILL TL 338 TIAN 8.5  | e 10 |
| 5516 86     | TWIST DRILL TL 338 TIAN 8.6  | e 10 |
| 5516 87     | TWIST DRILL TL 338 TIAN 8.7  | e 10 |
| 5516 88     | TWIST DRILL TL 338 TIAN 8.8  | e 10 |
| 5516 89     | TWIST DRILL TL 338 TIAN 8.9  | e 10 |
| 5516 90     | TWIST DRILL TL 338 TIAN 9.0  | e 10 |
| 5516 91     | TWIST DRILL TL 338 TIAN 9.1  | e 10 |
| 5516 92     | TWIST DRILL TL 338 TIAN 9.2  | e 10 |
| 5516 93     | TWIST DRILL TL 338 TIAN 9.3  | e 10 |
| 5516 94     | TWIST DRILL TL 338 TIAN 9.4  | e 10 |
| 5516 95     | TWIST DRILL TL 338 TIAN 9.5  | e 10 |
| 5516 96     | TWIST DRILL TL 338 TIAN 9.6  | e 10 |
| 5516 97     | TWIST DRILL TL 338 TIAN 9.7  | e 10 |
| 5516 98     | TWIST DRILL TL 338 TIAN 9.8  | e 10 |
| 5516 99     | TWIST DRILL TL 338 TIAN 9.9  | e 10 |
| 5516 100    | TWIST DRILL TL 338 TIAN 10.0 | e 10 |
| 5516 102    | TWIST DRILL TL 338 TIAN 10.2 | e 10 |
| 5516 105    | TWIST DRILL TL 338 TIAN 10.5 | e 5  |
| 5516 110    | TWIST DRILL TL 338 TIAN 11.0 | e 5  |
| 5516 115    | TWIST DRILL TL 338 TIAN 11.5 | e 5  |
| 5516 120    | TWIST DRILL TL 338 TIAN 12.0 | e 5  |
| 5516 125    | TWIST DRILL TL 338 TIAN 12.5 | e 5  |
| 5516 130    | TWIST DRILL TL 338 TIAN 13.0 | e 5  |
| 5516 135    | TWIST DRILL TL 338 TIAN 13.5 | e 5  |
| 5516 140    | TWIST DRILL TL 338 TIAN 14.0 | e 5  |
| 5516 145    | TWIST DRILL TL 338 TIAN 14.5 | e 5  |
| 5516 150    | TWIST DRILL TL 338 TIAN 15.0 | e 5  |
| 5516 155    | TWIST DRILL TL 338 TIAN 15.5 | e 5  |
| 5516 160    | TWIST DRILL TL 338 TIAN 16.0 | e 5  |

# Twist Drill Set DIN 338 HSS-TiAN, Ground Type W

**Art.-No. 5509 5516:**

- 19-pcs in drill box

**Art.-No. 5509 5516 2:**

- 25-pcs in drill box

**Art.-No. 5509 5516 1:**

- 38-pcs in plastic case in VAROsoft contured lining Art.-No. 9026 610



5509 5516

5509 5516 2

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5509 5516   | TW.DRILL BOX TIAN 1.0-10.0 19P | 1   |
| 5509 5516 2 | TW.DRILL BOX TIAN 1.0-13.0 25P | 1   |
| 5509 5516 1 | VS-DRILL BOX TIAN 1-10MM 38PCS | 1   |

**Contents Art.-No. 5509 5516:**

- Each 1x twist drill DIN 338 HSS-TiAIN, ground type W  
Ø 1.0 – 10.0 mm, (increments of 0.5 mm)

**Contents Art.-No. 5509 5516 2:**

- Each 1x twist drill DIN 338 HSS-TiAIN, ground type W  
Ø 1.0 – 13.0 mm, (increments of 0.5 mm)

**Contents Art.-No. 5509 5516 1:**

- Each 1x twist drill DIN 338 HSS-TiAIN, ground type W  
Ø 1.0 – 10.0 mm, (increments of 0.5 mm)




5509 5516 1

# Twist Drill DIN 338 HSS-E Co 8%, Polished Type

- The universal drilling tool for working with steel that is very difficult to cut
- 8% cobalt alloy
- DIN 338 short cylindrical
- Right-handed cutting
- Split point from Ø 2.0 mm
- Tip angle 130°
- Angle of twist 36°
- Ø tolerance h8
- Optimum drilling depth 5x drills Ø



| Technical Data / Guide values - recommended speed in 1/rpm                         |                     |
|--|---------------------|
|  |                     |
| Drill Ø  | High strength steel |
| 1  | 1,800               |
| 2  | 1,200               |
| 3  | 800                 |
| 4  | 630                 |
| 5  | 510                 |
| 6  | 420                 |
| 7  | 360                 |
| 8  | 310                 |
| 9  | 280                 |
| 10   | 250                 |
| 11   | 230                 |
| 12   | 210                 |
| 13   | 190                 |

**Applications:**

- Alloy and non-alloyed steel (between 900 N/mm<sup>2</sup> and 1,300 N/mm<sup>2</sup> tensile strength), titanium alloys, high strength steel such as Hardox, Hastelloy, Inconel, Nimonic etc.

| Article No. | Article Description         | QTY  |
|-------------|-----------------------------|------|
| 5564 10     | TW.DRILL 338 HSS-E CO8% 1.0 | e 10 |
| 5564 15     | TW.DRILL 338 HSS-E CO8% 1.5 | 10   |
| 5564 20     | TW.DRILL 338 HSS-E CO8% 2.0 | 10   |
| 5564 25     | TW.DRILL 338 HSS-E CO8% 2.5 | 10   |
| 5564 30     | TW.DRILL 338 HSS-E CO8% 3.0 | 10   |
| 5564 32     | TW.DRILL 338 HSS-E CO8% 3.2 | 10   |
| 5564 33     | TW.DRILL 338 HSS-E CO8% 3.3 | 10   |
| 5564 35     | TW.DRILL 338 HSS-E CO8% 3.5 | 10   |
| 5564 40     | TW.DRILL 338 HSS-E CO8% 4.0 | 10   |
| 5564 41     | TW.DRILL 338 HSS-E CO8% 4.1 | 10   |
| 5564 42     | TW.DRILL 338 HSS-E CO8% 4.2 | 10   |
| 5564 45     | TW.DRILL 338 HSS-E CO8% 4.5 | 10   |
| 5564 50     | TW.DRILL 338 HSS-E CO8% 5.0 | 10   |
| 5564 51     | TW.DRILL 338 HSS-E CO8% 5.1 | 10   |
| 5564 55     | TW.DRILL 338 HSS-E CO8% 5.5 | 10   |
| 5564 60     | TW.DRILL 338 HSS-E CO8% 6.0 | e 10 |

| Article No. | Article Description          | QTY  |
|-------------|------------------------------|------|
| 5564 65     | TW.DRILL 338 HSS-E CO8% 6.5  | e 10 |
| 5564 68     | TW.DRILL 338 HSS-E CO8% 6.8  | e 10 |
| 5564 70     | TW.DRILL 338 HSS-E CO8% 7.0  | e 10 |
| 5564 75     | TW.DRILL 338 HSS-E CO8% 7.5  | e 10 |
| 5564 80     | TW.DRILL 338 HSS-E CO8% 8.0  | e 10 |
| 5564 85     | TW.DRILL 338 HSS-E CO8% 8.5  | e 10 |
| 5564 90     | TW.DRILL 338 HSS-E CO8% 9.0  | e 10 |
| 5564 95     | TW.DRILL 338 HSS-E CO8% 9.5  | e 10 |
| 5564 100    | TW.DRILL 338 HSS-E CO8% 10.0 | e 10 |
| 5564 102    | TW.DRILL 338 HSS-E CO8% 10.2 | e 10 |
| 5564 105    | TW.DRILL 338 HSS-E CO8% 10.5 | e 5  |
| 5564 110    | TW.DRILL 338 HSS-E CO8% 11.0 | e 5  |
| 5564 115    | TW.DRILL 338 HSS-E CO8% 11.5 | e 5  |
| 5564 120    | TW.DRILL 338 HSS-E CO8% 12.0 | e 5  |
| 5564 125    | TW.DRILL 338 HSS-E CO8% 12.5 | e 5  |
| 5564 130    | TW.DRILL 338 HSS-E CO8% 13.0 | e 5  |

# Twist Drill Set DIN 338 HSS-E Co8%, Polished

- 19 pieces in plastic cassette

| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5509 5564 19 | TW.DR.BOX HSS-E CO8%1-10 19PCS | 1   |

**Contents:**

- Each 1x twist drill DIN 338 HSS-E Co8%, polished type  
N Ø 1.0 – 10.0 mm (0.5 mm increase)



# Twist Drill Cobalt DIN 338 HSS-E-Co, Ground Type N

- Alloyed with cobalt (5%)
- Cylindrical, short
- Right-hand cutting
- With split point
- Point angle 118°



**Applications:**

- Stainless steel, steels and cast iron up to approx. 1,000 N/mm<sup>2</sup>, especially warm and cold working steels, antifriction bearing steel, high-alloyed and heat-treated and case-hardened steel as well as spring steel within limits

| Article No. | Article Description          | QTY  |
|-------------|------------------------------|------|
| 5502 10     | TWIST DRILL 338 HSS-E-CO 1.0 | 10   |
| 5502 11     | TWIST DRILL 338 HSS-E-CO 1.1 | 10   |
| 5502 12     | TWIST DRILL 338 HSS-E-CO 1.2 | 10   |
| 5502 13     | TWIST DRILL 338 HSS-E-CO 1.3 | 10   |
| 5502 14     | TWIST DRILL 338 HSS-E-CO 1.4 | 10   |
| 5502 15     | TWIST DRILL 338 HSS-E-CO 1.5 | 10   |
| 5502 16     | TWIST DRILL 338 HSS-E-CO 1.6 | 10   |
| 5502 17     | TWIST DRILL 338 HSS-E-CO 1.7 | 10   |
| 5502 18     | TWIST DRILL 338 HSS-E-CO 1.8 | 10   |
| 5502 19     | TWIST DRILL 338 HSS-E-CO 1.9 | 10   |
| 5502 20     | TWIST DRILL 338 HSS-E-CO 2.0 | 10   |
| 5502 21     | TWIST DRILL 338 HSS-E-CO 2.1 | 10   |
| 5502 22     | TWIST DRILL 338 HSS-E-CO 2.2 | 10   |
| 5502 23     | TWIST DRILL 338 HSS-E-CO 2.3 | 10   |
| 5502 24     | TWIST DRILL 338 HSS-E-CO 2.4 | 10   |
| 5502 25     | TWIST DRILL 338 HSS-E-CO 2.5 | 10   |
| 5502 26     | TWIST DRILL 338 HSS-E-CO 2.6 | 10   |
| 5502 27     | TWIST DRILL 338 HSS-E-CO 2.7 | 10   |
| 5502 28     | TWIST DRILL 338 HSS-E-CO 2.8 | 10   |
| 5502 29     | TWIST DRILL 338 HSS-E-CO 2.9 | 10   |
| 5502 30     | TWIST DRILL 338 HSS-E-CO 3.0 | 10   |
| 5502 31     | TWIST DRILL 338 HSS-E-CO 3.1 | 10   |
| 5502 32     | TWIST DRILL 338 HSS-E-CO 3.2 | 10   |
| 5502 33     | TWIST DRILL 338 HSS-E-CO 3.3 | 10   |
| 5502 34     | TWIST DRILL 338 HSS-E-CO 3.4 | 10   |
| 5502 35     | TWIST DRILL 338 HSS-E-CO 3.5 | 10   |
| 5502 36     | TWIST DRILL 338 HSS-E-CO 3.6 | 10   |
| 5502 37     | TWIST DRILL 338 HSS-E-CO 3.7 | 10   |
| 5502 38     | TWIST DRILL 338 HSS-E-CO 3.8 | 10   |
| 5502 39     | TWIST DRILL 338 HSS-E-CO 3.9 | 10   |
| 5502 40     | TWIST DRILL 338 HSS-E-CO 4.0 | 10   |
| 5502 41     | TWIST DRILL 338 HSS-E-CO 4.1 | 10   |
| 5502 42     | TWIST DRILL 338 HSS-E-CO 4.2 | 10   |
| 5502 43     | TWIST DRILL 338 HSS-E-CO 4.3 | 10   |
| 5502 44     | TWIST DRILL 338 HSS-E-CO 4.4 | 10   |
| 5502 45     | TWIST DRILL 338 HSS-E-CO 4.5 | 10   |
| 5502 46     | TWIST DRILL 338 HSS-E-CO 4.6 | 10   |
| 5502 47     | TWIST DRILL 338 HSS-E-CO 4.7 | 10   |
| 5502 48     | TWIST DRILL 338 HSS-E-CO 4.8 | 10   |
| 5502 49     | TWIST DRILL 338 HSS-E-CO 4.9 | 10   |
| 5502 50     | TWIST DRILL 338 HSS-E-CO 5.0 | 10   |
| 5502 51     | TWIST DRILL 338 HSS-E-CO 5.1 | 10   |
| 5502 52     | TWIST DRILL 338 HSS-E-CO 5.2 | 10   |
| 5502 53     | TWIST DRILL 338 HSS-E-CO 5.3 | 10   |
| 5502 54     | TWIST DRILL 338 HSS-E-CO 5.4 | 10   |
| 5502 55     | TWIST DRILL 338 HSS-E-CO 5.5 | 10   |
| 5502 56     | TWIST DRILL 338 HSS-E-CO 5.6 | 10   |
| 5502 57     | TWIST DRILL 338 HSS-E-CO 5.7 | 10   |
| 5502 58     | TWIST DRILL 338 HSS-E-CO 5.8 | 10   |
| 5502 59     | TWIST DRILL 338 HSS-E-CO 5.9 | 10   |
| 5502 60     | TWIST DRILL 338 HSS-E-CO 6.0 | e 10 |
| 5502 61     | TWIST DRILL 338 HSS-E-CO 6.1 | e 10 |

| Article No. | Article Description           | QTY  |
|-------------|-------------------------------|------|
| 5502 62     | TWIST DRILL 338 HSS-E-CO 6.2  | e 10 |
| 5502 63     | TWIST DRILL 338 HSS-E-CO 6.3  | e 10 |
| 5502 64     | TWIST DRILL 338 HSS-E-CO 6.4  | e 10 |
| 5502 65     | TWIST DRILL 338 HSS-E-CO 6.5  | e 10 |
| 5502 66     | TWIST DRILL 338 HSS-E-CO 6.6  | e 10 |
| 5502 67     | TWIST DRILL 338 HSS-E-CO 6.7  | e 10 |
| 5502 68     | TWIST DRILL 338 HSS-E-CO 6.8  | e 10 |
| 5502 69     | TWIST DRILL 338 HSS-E-CO 6.9  | e 10 |
| 5502 70     | TWIST DRILL 338 HSS-E-CO 7.0  | e 10 |
| 5502 71     | TWIST DRILL 338 HSS-E-CO 7.1  | e 10 |
| 5502 72     | TWIST DRILL 338 HSS-E-CO 7.2  | e 10 |
| 5502 73     | TWIST DRILL 338 HSS-E-CO 7.3  | e 10 |
| 5502 74     | TWIST DRILL 338 HSS-E-CO 7.4  | e 10 |
| 5502 75     | TWIST DRILL 338 HSS-E-CO 7.5  | e 10 |
| 5502 76     | TWIST DRILL 338 HSS-E-CO 7.6  | e 10 |
| 5502 77     | TWIST DRILL 338 HSS-E-CO 7.7  | e 10 |
| 5502 78     | TWIST DRILL 338 HSS-E-CO 7.8  | e 10 |
| 5502 80     | TWIST DRILL 338 HSS-E-CO 8.0  | e 10 |
| 5502 81     | TWIST DRILL 338 HSS-E-CO 8.1  | e 10 |
| 5502 82     | TWIST DRILL 338 HSS-E-CO 8.2  | e 10 |
| 5502 83     | TWIST DRILL 338 HSS-E-CO 8.3  | e 10 |
| 5502 84     | TWIST DRILL 338 HSS-E-CO 8.4  | e 10 |
| 5502 85     | TWIST DRILL 338 HSS-E-CO 8.5  | e 10 |
| 5502 86     | TWIST DRILL 338 HSS-E-CO 8.6  | e 10 |
| 5502 87     | TWIST DRILL 338 HSS-E-CO 8.7  | e 10 |
| 5502 88     | TWIST DRILL 338 HSS-E-CO 8.8  | e 10 |
| 5502 89     | TWIST DRILL 338 HSS-E-CO 8.9  | e 10 |
| 5502 90     | TWIST DRILL 338 HSS-E-CO 9.0  | e 10 |
| 5502 91     | TWIST DRILL 338 HSS-E-CO 9.1  | e 10 |
| 5502 92     | TWIST DRILL 338 HSS-E-CO 9.2  | e 10 |
| 5502 94     | TWIST DRILL 338 HSS-E-CO 9.4  | e 10 |
| 5502 95     | TWIST DRILL 338 HSS-E-CO 9.5  | e 10 |
| 5502 97     | TWIST DRILL 338 HSS-E-CO 9.7  | e 10 |
| 5502 98     | TWIST DRILL 338 HSS-E-CO 9.8  | e 10 |
| 5502 100    | TWIST DRILL 338 HSS-E-CO 10.0 | e 10 |
| 5502 101    | TWIST DRILL 338 HSS-E-CO 10.1 | e 5  |
| 5502 102    | TWIST DRILL 338 HSS-E-CO 10.2 | e 5  |
| 5502 103    | TWIST DRILL 338 HSS-E-CO 10.3 | e 5  |
| 5502 104    | TWIST DRILL 338 HSS-E-CO 10.4 | e 5  |
| 5502 105    | TWIST DRILL 338 HSS-E-CO 10.5 | e 5  |
| 5502 110    | TWIST DRILL 338 HSS-E-CO 11.0 | e 5  |
| 5502 115    | TWIST DRILL 338 HSS-E-CO 11.5 | e 5  |
| 5502 120    | TWIST DRILL 338 HSS-E-CO 12.0 | e 5  |
| 5502 125    | TWIST DRILL 338 HSS-E-CO 12.5 | e 5  |
| 5502 130    | TWIST DRILL 338 HSS-E-CO 13.0 | e 5  |
| 5502 135    | TWIST DRILL 338 HSS-E-CO 13.5 | e 5  |
| 5502 140    | TWIST DRILL 338 HSS-E-CO 14.0 | e 5  |
| 5502 145    | TWIST DRILL 338 HSS-E-CO 14.5 | e 5  |
| 5502 150    | TWIST DRILL 338 HSS-E-CO 15.0 | e 5  |
| 5502 155    | TWIST DRILL 338 HSS-E-CO 15.5 | e 5  |
| 5502 160    | TWIST DRILL 338 HSS-E-CO 16.0 | e 5  |



# Twist Drill Set DIN 338 HSS-E-Cobalt, Ground Type N

**Art.-No. 5509 5502:**

- 19-pcs in drill box

**Art.-No. 5509 5502 25:**

- 25-pcs in drill box

| Article No.  | Article Description          | QTY |
|--------------|------------------------------|-----|
| 5509 5502    | DRILL BOX HSS-CO 1-10 19-PCS | 1   |
| 5509 5502 25 | DRILL BOX HSS-CO 1-13 25-PCS | 1   |

**Contents Art.-No. 5509 5502:**

- Each 1× twist drill DIN 338 HSS-E, ground type N  
Ø 1.0 – 10.0 mm (increments 0.5 mm)

**Contents Art.-No. 5509 5502 25:**

- Each 1× twist drill DIN 338 HSS-E, ground type N  
Ø 1.0 – 13.0 mm (increments 0.5 mm)



5509 5502

5509 5502 25

# Twist Drill Titanium DIN 338 HSS-TiN, Ground Type N

- Alloyed with titanium-nitride
- Cylindrical, short
- Right-hand cutting
- Split point from Ø 3 mm
- Point angle 135°



**Applications:**

- For steel alloyed and unalloyed up to approx. 900 N/mm<sup>2</sup> strength, steel, Cr-Ni- steel, stainless steel, cast steel, grey and malleable cast iron, copper, bronze, brass, thermostatic plastic (e.g. polyamide), bakelite

| Article No. | Article Description           | QTY  |
|-------------|-------------------------------|------|
| 5503 10     | TWIST DRILL 338 TITANIUM 1.0  | 10   |
| 5503 15     | TWIST DRILL 338 TITANIUM 1.5  | 10   |
| 5503 20     | TWIST DRILL 338 TITANIUM 2.0  | 10   |
| 5503 25     | TWIST DRILL 338 TITANIUM 2.5  | 10   |
| 5503 30     | TWIST DRILL 338 TITANIUM 3.0  | 10   |
| 5503 32     | TWIST DRILL 338 TITANIUM 3.2  | 10   |
| 5503 33     | TWIST DRILL 338 TITANIUM 3.3  | 10   |
| 5503 35     | TWIST DRILL 338 TITANIUM 3.5  | 10   |
| 5503 40     | TWIST DRILL 338 TITANIUM 4.0  | 10   |
| 5503 42     | TWIST DRILL 338 TITANIUM 4.2  | 10   |
| 5503 45     | TWIST DRILL 338 TITANIUM 4.5  | 10   |
| 5503 50     | TWIST DRILL 338 TITANIUM 5.0  | 10   |
| 5503 55     | TWIST DRILL 338 TITANIUM 5.5  | 10   |
| 5503 60     | TWIST DRILL 338 TITANIUM 6.0  | e 10 |
| 5503 65     | TWIST DRILL 338 TITANIUM 6.5  | e 10 |
| 5503 68     | TWIST DRILL 338 TITANIUM 6.8  | e 10 |
| 5503 70     | TWIST DRILL 338 TITANIUM 7.0  | e 10 |
| 5503 75     | TWIST DRILL 338 TITANIUM 7.5  | e 10 |
| 5503 80     | TWIST DRILL 338 TITANIUM 8.0  | e 10 |
| 5503 85     | TWIST DRILL 338 TITANIUM 8.5  | e 10 |
| 5503 90     | TWIST DRILL 338 TITANIUM 9.0  | e 10 |
| 5503 95     | TWIST DRILL 338 TITANIUM 9.5  | e 10 |
| 5503 100    | TWIST DRILL 338 TITANIUM 10.0 | e 10 |
| 5503 102    | TWIST DRILL 338 TITANIUM 10.2 | e 5  |
| 5503 105    | TWIST DRILL 338 TITANIUM 10.5 | e 5  |
| 5503 110    | TWIST DRILL 338 TITANIUM 11.0 | e 5  |
| 5503 115    | TWIST DRILL 338 TITANIUM 11.5 | e 5  |
| 5503 120    | TWIST DRILL 338 TITANIUM 12.0 | e 5  |
| 5503 125    | TWIST DRILL 338 TITANIUM 12.5 | e 5  |
| 5503 130    | TWIST DRILL 338 TITANIUM 13.0 | e 5  |

**Technical Data**

| Ø mm | Length mm | Groove length mm |
|------|-----------|------------------|
| 1    | 34        | 12               |
| 1.5  | 40        | 18               |
| 2.0  | 49        | 24               |
| 2.5  | 57        | 30               |
| 3.0  | 61        | 33               |
| 3.2  | 65        | 36               |
| 3.3  | 65        | 36               |
| 3.5  | 70        | 39               |
| 4.0  | 75        | 43               |
| 4.2  | 75        | 43               |
| 4.5  | 80        | 47               |
| 5.0  | 86        | 52               |
| 5.5  | 93        | 57               |
| 6.0  | 93        | 57               |
| 6.5  | 101       | 63               |
| 6.8  | 109       | 69               |
| 7.0  | 109       | 69               |
| 7.5  | 109       | 69               |
| 8.0  | 117       | 75               |
| 8.5  | 117       | 75               |
| 9.0  | 125       | 81               |
| 9.5  | 125       | 81               |
| 10.0 | 133       | 87               |
| 10.2 | 133       | 87               |
| 10.5 | 133       | 87               |
| 11.0 | 142       | 94               |
| 11.5 | 142       | 94               |
| 12.0 | 151       | 101              |
| 12.5 | 151       | 101              |
| 13.0 | 151       | 101              |

# Twist Drill Set DIN 338 HSS-TiN, Ground Type N

**Art.-No. 5509 5503:**

- 19-pcs in drill box

**Art.-No. 5509 5503 1:**

- 57-pcs in plastic drill box Art.-No. 4415 14 47 1 in VAROsoft contoured lining Art. No. 9026 610

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5509 5503   | DRILL SET TIN 1.0-10.0 19-PCS | 1   |
| 5509 5503 1 | VS-DRILL BOX TIN 1-10 57-PCS  | 1   |

**Contents Art.-No. 5509 5503:**

- Each 1x twist drill DIN 338 HSS-TiN, ground type N Ø 1.0 – 10.0 mm, (increments of 0.5 mm)

**Contents Art.-No. 5509 5503 1:**

- Each 3x twist drill DIN 338 HSS-TiN, ground type N Ø 1.0 – 10.0 mm, (increments of 0.5 mm)



5509 5503



5509 5503 1

# Twist Drill DIN 338 HSS, Ground Type N

- Cylindrical, short
- Right-hand cutting
- Split point from Ø 3 mm
- Point angle 135°
- For highest precision



**Applications:**

- For drillings in steel and cast steel up to approx. 900 N/mm<sup>2</sup> strength, alloyed and non-alloyed steels, steel, cast iron, sintered metals, wood-plastics, graphite, bronze, brass

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5501 04     | TWIST DRILL 338 GROUND 0.4 | 10  |
| 5501 05     | TWIST DRILL 338 GROUND 0.5 | 10  |
| 5501 06     | TWIST DRILL 338 GROUND 0.6 | 10  |
| 5501 07     | TWIST DRILL 338 GROUND 0.7 | 10  |
| 5501 08     | TWIST DRILL 338 GROUND 0.8 | 10  |
| 5501 09     | TWIST DRILL 338 GROUND 0.9 | 10  |
| 5501 10     | TWIST DRILL 338 GROUND 1.0 | 10  |
| 5501 11     | TWIST DRILL 338 GROUND 1.1 | 10  |
| 5501 12     | TWIST DRILL 338 GROUND 1.2 | 10  |
| 5501 13     | TWIST DRILL 338 GROUND 1.3 | 10  |
| 5501 14     | TWIST DRILL 338 GROUND 1.4 | 10  |
| 5501 15     | TWIST DRILL 338 GROUND 1.5 | 10  |
| 5501 16     | TWIST DRILL 338 GROUND 1.6 | 10  |
| 5501 17     | TWIST DRILL 338 GROUND 1.7 | 10  |
| 5501 18     | TWIST DRILL 338 GROUND 1.8 | 10  |
| 5501 19     | TWIST DRILL 338 GROUND 1.9 | 10  |
| 5501 20     | TWIST DRILL 338 GROUND 2.0 | 10  |
| 5501 21     | TWIST DRILL 338 GROUND 2.1 | 10  |
| 5501 22     | TWIST DRILL 338 GROUND 2.2 | 10  |
| 5501 23     | TWIST DRILL 338 GROUND 2.3 | 10  |
| 5501 24     | TWIST DRILL 338 GROUND 2.4 | 10  |
| 5501 25     | TWIST DRILL 338 GROUND 2.5 | 10  |
| 5501 26     | TWIST DRILL 338 GROUND 2.6 | 10  |
| 5501 27     | TWIST DRILL 338 GROUND 2.7 | 10  |
| 5501 28     | TWIST DRILL 338 GROUND 2.8 | 10  |
| 5501 29     | TWIST DRILL 338 GROUND 2.9 | 10  |
| 5501 30     | TWIST DRILL 338 GROUND 3.0 | 10  |
| 5501 31     | TWIST DRILL 338 GROUND 3.1 | 10  |
| 5501 32     | TWIST DRILL 338 GROUND 3.2 | 10  |
| 5501 33     | TWIST DRILL 338 GROUND 3.3 | 10  |
| 5501 34     | TWIST DRILL 338 GROUND 3.4 | 10  |
| 5501 35     | TWIST DRILL 338 GROUND 3.5 | 10  |
| 5501 36     | TWIST DRILL 338 GROUND 3.6 | 10  |
| 5501 37     | TWIST DRILL 338 GROUND 3.7 | 10  |
| 5501 38     | TWIST DRILL 338 GROUND 3.8 | 10  |
| 5501 39     | TWIST DRILL 338 GROUND 3.9 | 10  |
| 5501 40     | TWIST DRILL 338 GROUND 4.0 | 10  |
| 5501 41     | TWIST DRILL 338 GROUND 4.1 | 10  |
| 5501 42     | TWIST DRILL 338 GROUND 4.2 | 10  |
| 5501 43     | TWIST DRILL 338 GROUND 4.3 | 10  |
| 5501 44     | TWIST DRILL 338 GROUND 4.4 | 10  |
| 5501 45     | TWIST DRILL 338 GROUND 4.5 | 10  |
| 5501 46     | TWIST DRILL 338 GROUND 4.6 | 10  |
| 5501 47     | TWIST DRILL 338 GROUND 4.7 | 10  |
| 5501 48     | TWIST DRILL 338 GROUND 4.8 | 10  |
| 5501 49     | TWIST DRILL 338 GROUND 4.9 | 10  |
| 5501 50     | TWIST DRILL 338 GROUND 5.0 | 10  |
| 5501 51     | TWIST DRILL 338 GROUND 5.1 | 10  |
| 5501 52     | TWIST DRILL 338 GROUND 5.2 | 10  |
| 5501 53     | TWIST DRILL 338 GROUND 5.3 | 10  |
| 5501 54     | TWIST DRILL 338 GROUND 5.4 | 10  |
| 5501 55     | TWIST DRILL 338 GROUND 5.5 | 10  |
| 5501 56     | TWIST DRILL 338 GROUND 5.6 | 10  |
| 5501 57     | TWIST DRILL 338 GROUND 5.7 | 10  |
| 5501 58     | TWIST DRILL 338 GROUND 5.8 | 10  |
| 5501 59     | TWIST DRILL 338 GROUND 5.9 | 10  |
| 5501 60     | TWIST DRILL 338 GROUND 6.0 | 10  |
| 5501 61     | TWIST DRILL 338 GROUND 6.1 | 10  |
| 5501 62     | TWIST DRILL 338 GROUND 6.2 | 10  |

| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5501 63     | TWIST DRILL 338 GROUND 6.3  | 10  |
| 5501 64     | TWIST DRILL 338 GROUND 6.4  | 10  |
| 5501 65     | TWIST DRILL 338 GROUND 6.5  | 10  |
| 5501 66     | TWIST DRILL 338 GROUND 6.6  | 10  |
| 5501 67     | TWIST DRILL 338 GROUND 6.7  | 10  |
| 5501 68     | TWIST DRILL 338 GROUND 6.8  | 10  |
| 5501 69     | TWIST DRILL 338 GROUND 6.9  | 10  |
| 5501 70     | TWIST DRILL 338 GROUND 7.0  | 10  |
| 5501 71     | TWIST DRILL 338 GROUND 7.1  | 10  |
| 5501 72     | TWIST DRILL 338 GROUND 7.2  | 10  |
| 5501 73     | TWIST DRILL 338 GROUND 7.3  | 10  |
| 5501 74     | TWIST DRILL 338 GROUND 7.4  | 10  |
| 5501 75     | TWIST DRILL 338 GROUND 7.5  | 10  |
| 5501 76     | TWIST DRILL 338 GROUND 7.6  | 10  |
| 5501 77     | TWIST DRILL 338 GROUND 7.7  | 10  |
| 5501 78     | TWIST DRILL 338 GROUND 7.8  | 10  |
| 5501 80     | TWIST DRILL 338 GROUND 8.0  | 10  |
| 5501 81     | TWIST DRILL 338 GROUND 8.1  | 10  |
| 5501 82     | TWIST DRILL 338 GROUND 8.2  | 10  |
| 5501 83     | TWIST DRILL 338 GROUND 8.3  | 10  |
| 5501 84     | TWIST DRILL 338 GROUND 8.4  | 10  |
| 5501 85     | TWIST DRILL 338 GROUND 8.5  | 10  |
| 5501 86     | TWIST DRILL 338 GROUND 8.6  | 10  |
| 5501 87     | TWIST DRILL 338 GROUND 8.7  | 10  |
| 5501 88     | TWIST DRILL 338 GROUND 8.8  | 10  |
| 5501 89     | TWIST DRILL 338 GROUND 8.9  | 10  |
| 5501 90     | TWIST DRILL 338 GROUND 9.0  | 10  |
| 5501 91     | TWIST DRILL 338 GROUND 9.1  | 10  |
| 5501 92     | TWIST DRILL 338 GROUND 9.2  | 10  |
| 5501 93     | TWIST DRILL 338 GROUND 9.3  | 10  |
| 5501 94     | TWIST DRILL 338 GROUND 9.4  | 10  |
| 5501 95     | TWIST DRILL 338 GROUND 9.5  | 10  |
| 5501 96     | TWIST DRILL 338 GROUND 9.6  | 10  |
| 5501 97     | TWIST DRILL 338 GROUND 9.7  | 10  |
| 5501 98     | TWIST DRILL 338 GROUND 9.8  | 10  |
| 5501 99     | TWIST DRILL 338 GROUND 9.9  | 10  |
| 5501 100    | TWIST DRILL 338 GROUND 10.0 | 10  |
| 5501 101    | TWIST DRILL 338 GROUND 10.1 | e 5 |
| 5501 102    | TWIST DRILL 338 GROUND 10.2 | e 5 |
| 5501 103    | TWIST DRILL 338 GROUND 10.3 | e 5 |
| 5501 104    | TWIST DRILL 338 GROUND 10.4 | e 5 |
| 5501 105    | TWIST DRILL 338 GROUND 10.5 | e 5 |
| 5501 106    | TWIST DRILL 338 GROUND 10.6 | e 5 |
| 5501 107    | TWIST DRILL 338 GROUND 10.7 | e 5 |
| 5501 108    | TWIST DRILL 338 GROUND 10.8 | e 5 |
| 5501 109    | TWIST DRILL 338 GROUND 10.9 | e 5 |
| 5501 110    | TWIST DRILL 338 GROUND 11.0 | e 5 |
| 5501 112    | TWIST DRILL 338 GROUND 11.2 | e 5 |
| 5501 115    | TWIST DRILL 338 GROUND 11.5 | e 5 |
| 5501 118    | TWIST DRILL 338 GROUND 11.8 | e 5 |
| 5501 120    | TWIST DRILL 338 GROUND 12.0 | e 5 |
| 5501 125    | TWIST DRILL 338 GROUND 12.5 | e 5 |
| 5501 130    | TWIST DRILL 338 GROUND 13.0 | e 5 |
| 5501 135    | TWIST DRILL 338 GROUND 13.5 | e 5 |
| 5501 140    | TWIST DRILL 338 GROUND 14.0 | e 5 |
| 5501 145    | TWIST DRILL 338 GROUND 14.5 | e 5 |
| 5501 150    | TWIST DRILL 338 GROUND 15.0 | e 5 |
| 5501 155    | TWIST DRILL 338 GROUND 15.5 | e 5 |
| 5501 160    | TWIST DRILL 338 GROUND 16.0 | e 5 |



# Twist Drill Sets DIN 338 HSS, Ground Type N

**Art. No. 5509 5501:**

- 19-part in drill box

**Art. No. 5509 5501 1:**

- 25-part in drill box

**Art. No. 5509 5501 5:**

- 51-part in drill box

**Art. No. 5509 5501 6:**

- 41-part in drill box



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5509 5501   | DRILL BOX GROUND 1.0-10.0 19PC | 1   |
| 5509 5501 1 | DRILL BOX GROUND 1.0-13.0 25PC | 1   |
| 5509 5501 5 | DRILL BOX GROUND 1.0- 6.0 51PC | 1   |
| 5509 5501 6 | DRILL BOX GROUND 6.0-10.0 41PC | 1   |

**Art.-No. 5509 5501:**

- Each 1x twist drill DIN 338 HSS, ground type N  
Ø 1.0 – 10.0 mm (increments of 0.5 mm)

**Art. No. 5509 5501 1:**

- Each 1x twist drill DIN 338 HSS, ground type N  
Ø 1.0 – 13.0 mm (increments of 0.5 mm)

**Art. No. 5509 5501 5:**

- Each 1x twist drill DIN 338 HSS, ground type N  
Ø 1.0 – 6.0 mm (increments of 0.1 mm)

**Art. No. 5509 5501 6:**

- Each 1x twist drill DIN 338 HSS, ground type N  
Ø 6.0 – 10.0 mm (increments of 0.1 mm)

# Twist Drill DIN 338 HSS, Polished Type N, Range

- Content: 155 pieces
- Ø 1.0 - 10.5 mm
- 0.5 mm increase

**Contents**

| Article No. | Article Description         | Quantity |
|-------------|-----------------------------|----------|
| 5501 10     | TWIST DRILL 338 GROUND 1.0  | 10       |
| 5501 15     | TWIST DRILL 338 GROUND 1.5  | 10       |
| 5501 20     | TWIST DRILL 338 GROUND 2.0  | 10       |
| 5501 25     | TWIST DRILL 338 GROUND 2.5  | 10       |
| 5501 30     | TWIST DRILL 338 GROUND 3.0  | 10       |
| 5501 35     | TWIST DRILL 338 GROUND 3.5  | 10       |
| 5501 40     | TWIST DRILL 338 GROUND 4.0  | 10       |
| 5501 45     | TWIST DRILL 338 GROUND 4.5  | 10       |
| 5501 50     | TWIST DRILL 338 GROUND 5.0  | 10       |
| 5501 55     | TWIST DRILL 338 GROUND 5.5  | 10       |
| 5501 60     | TWIST DRILL 338 GROUND 6.0  | 10       |
| 5501 65     | TWIST DRILL 338 GROUND 6.5  | 5        |
| 5501 70     | TWIST DRILL 338 GROUND 7.0  | 5        |
| 5501 75     | TWIST DRILL 338 GROUND 7.5  | 5        |
| 5501 80     | TWIST DRILL 338 GROUND 8.0  | 5        |
| 5501 85     | TWIST DRILL 338 GROUND 8.5  | 5        |
| 5501 90     | TWIST DRILL 338 GROUND 9.0  | 5        |
| 5501 95     | TWIST DRILL 338 GROUND 9.5  | 5        |
| 5501 100    | TWIST DRILL 338 GROUND 10.0 | 5        |
| 5501 105    | TWIST DRILL 338 GROUND 10.5 | 5        |



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 9000 5501   | ASSORT.TWIST DRILLS 338 POLISH | 1   |
| 9000R 5501  | TRAY.TWIST DRILL338 POLISHED   | 1   |

# Twist Drill Packet 80 DIN 338 HSS, Ground Type N

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5501P 80    | P(80)TWIST DRILL FU.GR.2.0-6.0 | 1   |
| 5501P 110   | P(110)TWIST DR.FU.GR.2.0-8.0   | 1   |

**Contents Art.-No. 5501P 80:**

- Each 10x twist drill DIN 338 HSS right, ground  
 $\varnothing$  2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

**Contents Art.-No. 5501P 110:**

- Each 10x twist drill DIN 338 HSS right, ground  
 $\varnothing$  2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 8.0 mm



# Twist Drill DIN 338 HSS, Left-hand Cutting Type N

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5501 1      | DRILL-SET 338 GROUND 4-10 LEFT | 1   |
| 5501 2 40   | TW.DRILL 338 GROUND LEFT 4.0   | 1 z |
| 5501 2 60   | TW.DRILL 338 GROUND LEFT 6.0   | 1 z |
| 5501 2 80   | TW.DRILL 338 GROUND LEFT 8.0   | 1 z |
| 5501 2 100  | TW.DRILL 338 GROUND LEFT 10.0  | 1 z |

**Contents Art.-No. 5501 1:**

- Each 1x twist drill DIN 338 HSS left, ground type N  
 $\varnothing$  4.0 / 6.0 / 8.0 / 10.0 mm



# Twist Drill DIN 338 HSS, Roll Forged Type N

- Cylindrical, short
- Right-hand cutting
- Helical point
- Point angle 118°



**Applications:**

- For alloyed and unalloyed steel up to approx. 800 N/mm<sup>2</sup> strength, alloyed and non-alloyed steel, steel, cast steel, grey and malleable cast iron, spheroidal cast iron, sintered metal

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5500 05     | TWIST DRILL 338 ROLL F. 0.5  | 10  |
| 5500 10     | TWIST DRILL 338 ROLL F. 1.0  | 10  |
| 5500 15     | TWIST DRILL 338 ROLL F. 1.5  | 10  |
| 5500 20     | TWIST DRILL 338 ROLL F. 2.0  | 10  |
| 5500 22     | TWIST DRILL 338 ROLL F. 2.2  | 10  |
| 5500 25     | TWIST DRILL 338 ROLL F. 2.5  | 10  |
| 5500 30     | TWIST DRILL 338 ROLL F. 3.0  | 10  |
| 5500 31     | TWIST DRILL 338 ROLL F. 3.1  | 10  |
| 5500 32     | TWIST DRILL 338 ROLL F. 3.2  | 10  |
| 5500 33     | TWIST DRILL 338 ROLL F. 3.3  | 10  |
| 5500 35     | TWIST DRILL 338 ROLL F. 3.5  | 10  |
| 5500 37     | TWIST DRILL 338 ROLL F. 3.7  | 10  |
| 5500 40     | TWIST DRILL 338 ROLL F. 4.0  | 10  |
| 5500 41     | TWIST DRILL 338 ROLL F. 4.1  | 10  |
| 5500 42     | TWIST DRILL 338 ROLL F. 4.2  | 10  |
| 5500 45     | TWIST DRILL 338 ROLL F. 4.5  | 10  |
| 5500 47     | TWIST DRILL 338 ROLL F. 4.7  | 10  |
| 5500 48     | TWIST DRILL 338 ROLL F. 4.8  | 10  |
| 5500 49     | TWIST DRILL 338 ROLL F. 4.9  | 10  |
| 5500 50     | TWIST DRILL 338 ROLL F. 5.0  | 10  |
| 5500 51     | TWIST DRILL 338 ROLL F. 5.1  | 10  |
| 5500 52     | TWIST DRILL 338 ROLL F. 5.2  | 10  |
| 5500 53     | TWIST DRILL 338 ROLL F. 5.3  | 10  |
| 5500 55     | TWIST DRILL 338 ROLL F. 5.5  | 10  |
| 5500 56     | TWIST DRILL 338 ROLL F. 5.6  | 10  |
| 5500 57     | TWIST DRILL 338 ROLL F. 5.7  | 10  |
| 5500 60     | TWIST DRILL 338 ROLL F. 6.0  | 10  |
| 5500 61     | TWIST DRILL 338 ROLL F. 6.1  | 10  |
| 5500 62     | TWIST DRILL 338 ROLL F. 6.2  | 10  |
| 5500 65     | TWIST DRILL 338 ROLL F. 6.5  | 10  |
| 5500 66     | TWIST DRILL 338 ROLL F. 6.6  | 10  |
| 5500 68     | TWIST DRILL 338 ROLL F. 6.8  | 10  |
| 5500 70     | TWIST DRILL 338 ROLL F. 7.0  | 10  |
| 5500 75     | TWIST DRILL 338 ROLL F. 7.5  | 10  |
| 5500 80     | TWIST DRILL 338 ROLL F. 8.0  | 10  |
| 5500 85     | TWIST DRILL 338 ROLL F. 8.5  | 10  |
| 5500 90     | TWIST DRILL 338 ROLL F. 9.0  | 10  |
| 5500 95     | TWIST DRILL 338 ROLL F. 9.5  | 10  |
| 5500 100    | TWIST DRILL 338 ROLL F. 10.0 | 10  |
| 5500 102    | TWIST DRILL 338 ROLL F. 10.2 | e 5 |
| 5500 105    | TWIST DRILL 338 ROLL F. 10.5 | e 5 |
| 5500 110    | TWIST DRILL 338 ROLL F. 11.0 | e 5 |
| 5500 115    | TWIST DRILL 338 ROLL F. 11.5 | e 5 |
| 5500 120    | TWIST DRILL 338 ROLL F. 12.0 | e 5 |
| 5500 125    | TWIST DRILL 338 ROLL F. 12.5 | e 5 |
| 5500 130    | TWIST DRILL 338 ROLL F. 13.0 | e 5 |
| 5500 135    | TWIST DRILL 338 ROLL F. 13.5 | e 5 |
| 5500 140    | TWIST DRILL 338 ROLL F. 14.0 | e 5 |
| 5500 145    | TWIST DRILL 338 ROLL F. 14.5 | e 5 |
| 5500 150    | TWIST DRILL 338 ROLL F. 15.0 | e 5 |
| 5500 155    | TWIST DRILL 338 ROLL F. 15.5 | e 5 |
| 5500 160    | TWIST DRILL 338 ROLL F. 16.0 | e 5 |
| 5500 165    | TWIST DRILL 338 ROLL F. 16.5 | e 5 |
| 5500 170    | TWIST DRILL 338 ROLL F. 17.0 | e 5 |
| 5500 175    | TWIST DRILL 338 ROLL F. 17.5 | e 5 |
| 5500 180    | TWIST DRILL 338 ROLL F. 18.0 | e 5 |
| 5500 185    | TWIST DRILL 338 ROLL F. 18.5 | e 5 |
| 5500 190    | TWIST DRILL 338 ROLL F. 19.0 | e 5 |
| 5500 195    | TWIST DRILL 338 ROLL F. 19.5 | e 5 |
| 5500 200    | TWIST DRILL 338 ROLL F. 20.0 | e 5 |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 0.5            | 22        | 5                |
| 1.0            | 34        | 12               |
| 1.5            | 40        | 18               |
| 2.0            | 49        | 24               |
| 2.2            | 53        | 27               |
| 2.5            | 57        | 30               |
| 3.0            | 61        | 33               |
| 3.1            | 65        | 36               |
| 3.2            | 65        | 36               |
| 3.3            | 65        | 36               |
| 3.5            | 70        | 39               |
| 3.7            | 70        | 39               |
| 4.0            | 75        | 43               |
| 4.1            | 75        | 43               |
| 4.2            | 75        | 43               |
| 4.5            | 80        | 47               |
| 4.7            | 86        | 52               |
| 4.8            | 86        | 52               |
| 4.9            | 86        | 52               |
| 5.0            | 86        | 52               |
| 5.1            | 86        | 52               |
| 5.2            | 86        | 52               |
| 5.3            | 86        | 52               |
| 5.5            | 93        | 57               |
| 5.6            | 93        | 57               |
| 5.7            | 93        | 57               |
| 6.0            | 93        | 57               |
| 6.1            | 101       | 63               |
| 6.2            | 101       | 63               |
| 6.5            | 101       | 63               |
| 6.6            | 101       | 63               |
| 6.8            | 109       | 69               |
| 7.0            | 109       | 69               |
| 7.5            | 109       | 69               |
| 8.0            | 117       | 75               |
| 8.5            | 117       | 75               |
| 9.0            | 125       | 81               |
| 9.5            | 125       | 81               |
| 10.0           | 133       | 87               |
| 10.2           | 133       | 87               |
| 10.5           | 133       | 87               |
| 11.0           | 142       | 94               |
| 11.5           | 142       | 94               |
| 12.0           | 151       | 101              |
| 12.5           | 151       | 101              |
| 13.0           | 151       | 101              |
| 13.5           | 160       | 108              |
| 14.0           | 160       | 108              |
| 14.5           | 169       | 114              |
| 15.0           | 169       | 114              |
| 15.5           | 178       | 120              |
| 16.0           | 178       | 120              |
| 16.5           | 184       | 125              |
| 17.0           | 184       | 125              |
| 17.5           | 191       | 130              |
| 18.0           | 191       | 130              |
| 18.5           | 198       | 135              |
| 19.0           | 198       | 135              |
| 19.5           | 205       | 140              |
| 20.0           | 205       | 140              |

# Twist Drill Set DIN 338, Roll Forged Type N

**Contents Art.-No. 5509 5500:**

- 19-pcs drill box

**Contents Art.-No. 5509 5500 1:**

- 25-pcs in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5509 5500   | TWIST DR. BOX RF1.0-10.0 19PCS | 1   |
| 5509 5500 1 | TWIST DR. BOX RF1.0-13.0 25PCS | 1   |

**Contents Art.-No. 5509 5500:**

- 19x twist drill DIN 338 HSS, roll forged type N  
 Ø 1.0 – 10.0 mm (increments of 0.5 mm)

**Contents Art.-No. 5509 5500 1:**

- 25x twist drill DIN 338 HSS, roll forged type N  
 Ø 1.0 – 13.0 mm (increments of 0.5 mm)



## Twist Drills DIN338, Type N, Roll Forged Assortm.

- Ø 1.0 – 10.5 mm (increments of 0.5 mm) = 135 pieces

**Contents**

| Article No. | Article Description          | Quantity |
|-------------|------------------------------|----------|
| 5500 10     | TWIST DRILL 338 ROLL F. 1.0  | 10       |
| 5500 15     | TWIST DRILL 338 ROLL F. 1.5  | 10       |
| 5500 20     | TWIST DRILL 338 ROLL F. 2.0  | 10       |
| 5500 25     | TWIST DRILL 338 ROLL F. 2.5  | 10       |
| 5500 30     | TWIST DRILL 338 ROLL F. 3.0  | 10       |
| 5500 35     | TWIST DRILL 338 ROLL F. 3.5  | 10       |
| 5500 40     | TWIST DRILL 338 ROLL F. 4.0  | 10       |
| 5500 45     | TWIST DRILL 338 ROLL F. 4.5  | 10       |
| 5500 50     | TWIST DRILL 338 ROLL F. 5.0  | 10       |
| 5500 55     | TWIST DRILL 338 ROLL F. 5.5  | 5        |
| 5500 60     | TWIST DRILL 338 ROLL F. 6.0  | 10       |
| 5500 65     | TWIST DRILL 338 ROLL F. 6.5  | 5        |
| 5500 70     | TWIST DRILL 338 ROLL F. 7.0  | 5        |
| 5500 75     | TWIST DRILL 338 ROLL F. 7.5  | 5        |
| 5500 80     | TWIST DRILL 338 ROLL F. 8.0  | 5        |
| 5500 85     | TWIST DRILL 338 ROLL F. 8.5  | 2        |
| 5500 90     | TWIST DRILL 338 ROLL F. 9.0  | 2        |
| 5500 95     | TWIST DRILL 338 ROLL F. 9.5  | 2        |
| 5500 100    | TWIST DRILL 338 ROLL F. 10.0 | 2        |
| 5500 105    | TWIST DRILL 338 ROLL F. 10.5 | 2        |



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 9000 5500   | ASS.TWIST DRILLS338 ROLL FORG. | 1   |
| 9000R 5500  | TRAY.TWIST DRILL338 ROLL FORG. | 1   |

# Twist Drill Set DIN 338 HSS, Type N Roll Forged

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5500P 120   | PK(120)TWIST DRILL RF 2.0-10.0 | 1   |
| 5500P 170   | PK(170)TWIST DRILL RF 1.0-10.0 | 1   |

**Contents Art.-No. 5500P 120:**

- Each 10x twist drill DIN 338 HSS, type N roll forged  
2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 8.0 / 10.0 mm

**Contents Art.-No. 5500P 170:**

- Each 10x twist drill DIN 338 HSS, type N roll forged  
1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 7.0 / 7.5 / 8.0 / 9.0 / 10.0 mm



## Twist Drill DIN338 HSS Type N, Roll Forged, Shank

- Reduced shank
- Right-hand cutting
- Relieved cone
- Point angle 118°
- Shank-Ø up to 13.0 mm: 8 mm
- Shank-Ø from 13.5 mm: 10 mm
- Shank-Ø from 16.5 mm: 13 mm



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5505 105    | TWIST DRILL 338 10MM-SHANK10.5 | 1   |
| 5505 110    | TWIST DRILL 338 10MM-SHANK11.0 | 1   |
| 5505 115    | TWIST DRILL 338 10MM-SHANK11.5 | 1   |
| 5505 120    | TWIST DRILL 338 10MM-SHANK12.0 | 1   |
| 5505 125    | TWIST DRILL 338 10MM-SHANK12.5 | 1   |
| 5505 130    | TWIST DRILL 338 10MM-SHANK13.0 | 1   |
| 5505 135    | TWIST DRILL 338 10MM-SHANK13.5 | 1   |
| 5505 140    | TWIST DRILL 338 10MM-SHANK14.0 | 1   |
| 5505 145    | TWIST DRILL 338 10MM-SHANK14.5 | 1   |
| 5505 150    | TWIST DRILL 338 10MM-SHANK15.0 | 1   |
| 5505 155    | TWIST DRILL 338 10MM-SHANK15.5 | 1   |
| 5505 160    | TWIST DRILL 338 10MM-SHANK16.0 | 1   |
| 5505 165    | TWIST DRILL 338 13MM-SHANK16.5 | 1   |
| 5505 170    | TWIST DRILL 338 13MM-SHANK17.0 | 1   |
| 5505 175    | TWIST DRILL 338 13MM-SHANK17.5 | 1   |
| 5505 180    | TWIST DRILL 338 13MM-SHANK18.0 | 1   |
| 5505 185    | TWIST DRILL 338 13MM-SHANK18.5 | 1   |
| 5505 190    | TWIST DRILL 338 13MM-SHANK19.0 | 1   |
| 5505 195    | TWIST DRILL 338 13MM-SHANK19.5 | 1   |
| 5505 200    | TWIST DRILL 338 13MM-SHANK20.0 | 1   |

| Technical Data |          |           |                  |
|----------------|----------|-----------|------------------|
| Ø mm           | Shank mm | Length mm | Groove length mm |
| 10.5           | 8        | 133       | 87               |
| 11.0           | 8        | 142       | 94               |
| 11.5           | 8        | 142       | 94               |
| 12.0           | 8        | 151       | 101              |
| 12.5           | 8        | 151       | 101              |
| 13.0           | 8        | 151       | 101              |
| 13.5           | 10       | 160       | 108              |
| 14.0           | 10       | 160       | 108              |
| 14.5           | 10       | 169       | 114              |
| 15.0           | 10       | 169       | 114              |
| 15.5           | 10       | 178       | 120              |
| 16.0           | 10       | 178       | 120              |
| 16.5           | 13       | 184       | 125              |
| 17.0           | 13       | 184       | 125              |
| 17.5           | 13       | 191       | 130              |
| 18.0           | 13       | 191       | 130              |
| 19.0           | 13       | 198       | 135              |
| 19.5           | 13       | 205       | 140              |
| 20.0           | 13       | 205       | 140              |



# Twist Drill 'Bullet' DIN 338 HSS, Ground

- Right-hand cutting
- Split point
- Point angle 118°
- No need to punch-mark
- For freehand drilling in thin-walled materials
- Center point guarantees precise drilling. Exact and non-splintering drilling with the shoulder cutting edges, with round hole edges (from Ø 4.8 mm)
- Skid resistant shank with 3 milled bearing areas prevents twisting of the drill in chuck (from Ø 5.0 mm)



shaft polished 120 °

**Applications:**

- For alloyed and unalloyed steels up to approx. 900 N/mm<sup>2</sup> strength, alloyed and non-alloyed steels, cast steel, grey cast iron, sintered iron, sheet and thin-walled profile material (pipes), copper, bronze, brass, wood and plastics

| Article No. | Article Description     | QTY  |
|-------------|-------------------------|------|
| 5504 10     | TWIST DRILL BULLET 1.0  | 10   |
| 5504 15     | TWIST DRILL BULLET 1.5  | 10   |
| 5504 20     | TWIST DRILL BULLET 2.0  | 10   |
| 5504 25     | TWIST DRILL BULLET 2.5  | 10   |
| 5504 30     | TWIST DRILL BULLET 3.0  | e 10 |
| 5504 35     | TWIST DRILL BULLET 3.5  | e 10 |
| 5504 40     | TWIST DRILL BULLET 4.0  | e 10 |
| 5504 45     | TWIST DRILL BULLET 4.5  | e 10 |
| 5504 50     | TWIST DRILL BULLET 5.0  | e 10 |
| 5504 55     | TWIST DRILL BULLET 5.5  | e 10 |
| 5504 60     | TWIST DRILL BULLET 6.0  | e 10 |
| 5504 65     | TWIST DRILL BULLET 6.5  | e 10 |
| 5504 70     | TWIST DRILL BULLET 7.0  | e 10 |
| 5504 75     | TWIST DRILL BULLET 7.5  | e 10 |
| 5504 80     | TWIST DRILL BULLET 8.0  | e 10 |
| 5504 85     | TWIST DRILL BULLET 8.5  | e 10 |
| 5504 90     | TWIST DRILL BULLET 9.0  | e 10 |
| 5504 95     | TWIST DRILL BULLET 9.5  | e 10 |
| 5504 100    | TWIST DRILL BULLET 10.0 | e 10 |
| 5504 110    | TWIST DRILL BULLET 11.0 | e 5  |
| 5504 120    | TWIST DRILL BULLET 12.0 | e 5  |
| 5504 130    | TWIST DRILL BULLET 13.0 | e 5  |

| Technical Data |           |                  |             |
|----------------|-----------|------------------|-------------|
| Ø mm           | Length mm | Groove length mm | Recomm. rpm |
| 1.0            | 34        | 12               | 2,200       |
| 1.5            | 40        | 18               | 2,200       |
| 2.0            | 49        | 24               | 2,200       |
| 2.5            | 57        | 30               | 2,200       |
| 3.0            | 61        | 33               | 2,200       |
| 3.5            | 70        | 39               | 2,200       |
| 4.0            | 75        | 43               | 1,800       |
| 4.5            | 80        | 47               | 1,800       |
| 5.0            | 86        | 52               | 1,500       |
| 5.5            | 93        | 57               | 1,500       |
| 6.0            | 93        | 57               | 1,200       |
| 6.5            | 101       | 63               | 1,200       |
| 7.0            | 109       | 69               | 1,200       |
| 7.5            | 109       | 69               | 1,200       |
| 8.0            | 117       | 75               | 1,000       |
| 8.5            | 117       | 75               | 1,000       |
| 9.0            | 125       | 81               | 1,000       |
| 9.5            | 125       | 81               | 1,000       |
| 10.0           | 133       | 87               | 800         |
| 11.0           | 142       | 94               | 800         |
| 12.0           | 151       | 101              | 800         |
| 13.0           | 151       | 101              | 650         |

# Twist Drill Set 'Bullet' DIN 338 HSS, Ground

- 19-pcs in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5509 5504   | BULLET DRILL SET 1-10 19PIECES | 1   |

**Contents:**

- Each 1x twist drill Bullet DIN 338 HSS, ground Ø 1.0 - 10.0 mm (increments of 0.5 mm)



# Twist Drill DIN 340 HSS-E Type W. FORCH\*\*\*\*

- Cylindrical long
- Right-handed cutting
- Split point from Ø 1 mm
- Tip angle 130°
- 40° helix angle
- Tolerance range h8
- 5 % cobalt alloy



## Your Advantage / Benefit

- Minimal effort and improved removal of drill cuttings through optimum geometry
- Increased drilling speed
- Precise drilling performance and increased dimensional accuracy
- High resistance to breakage due to optimised elasticity
- Optimum drilling depth up to 10x drill Ø

## Application

- Alloyed and non-alloyed tool steels (up to 1,000 N/mm<sup>2</sup> tensile strength), stainless, acid and heat-resistant steels V2A and V4A, cast iron, aluminium, aluminium alloys, copper, brass, bronze etc.
- Suitable for use in controlled, stationary CNC-controlled and hand-guided machines

| Article No. | Article Description            | QTY  |
|-------------|--------------------------------|------|
| 5510 5 10   | TW.DR.LONG340 HSSE W10 1.0 5*  | 10   |
| 5510 5 20   | TW.DR.LONG340 HSSE W10 2.0 5*  | 10   |
| 5510 5 25   | TW.DR.LONG340 HSSE W10 2,5 5*  | 10   |
| 5510 5 30   | TW.DR.LONG340 HSSE W10 3.0 5*  | 10   |
| 5510 5 32   | TW.DR.LONG340 HSSE W10 3.2 5*  | 10   |
| 5510 5 35   | TW.DR.LONG340 HSSE W10 3.5 5*  | 10   |
| 5510 5 38   | TW.DR.LONG340 HSSE W10 3.8 5*  | 10   |
| 5510 5 40   | TW.DR.LONG340 HSSE W10 4.0 5*  | 10   |
| 5510 5 42   | TW.DR.LONG340 HSSE W10 4.2 5*  | 10   |
| 5510 5 45   | TW.DR.LONG340 HSSE W10 4.5 5*  | 10   |
| 5510 5 50   | TW.DR.LONG340 HSSE W10 5.0 5*  | e 10 |
| 5510 5 52   | TW.DR.LONG340 HSSE W10 5.2 5*  | e 10 |
| 5510 5 55   | TW.DR.LONG340 HSSE W10 5.5 5*  | e 10 |
| 5510 5 60   | TW.DR.LONG340 HSSE W10 6.0 5*  | e 10 |
| 5510 5 62   | TW.DR.LONG340 HSSE W10 6.2 5*  | e 10 |
| 5510 5 65   | TW.DR.LONG340 HSSE W10 6.5 5*  | e 10 |
| 5510 5 68   | TW.DR.LONG340 HSSE W10 6.8 5*  | e 5  |
| 5510 5 70   | TW.DR.LONG340 HSSE W10 7.0 5*  | e 5  |
| 5510 5 75   | TW.DR.LONG340 HSSE W10 7.5 5*  | e 5  |
| 5510 5 80   | TW.DR.LONG340 HSSE W10 8.0 5*  | e 5  |
| 5510 5 85   | TW.DR.LONG340 HSSE W10 8.5 5*  | e 5  |
| 5510 5 90   | TW.DR.LONG340 HSSE W10 9.0 5*  | e 5  |
| 5510 5 95   | TW.DR.LONG340 HSSE W10 9.5 5*  | e 5  |
| 5510 5 100  | TW.DR.LONG340 HSSE W10 10.0 5* | e 5  |
| 5510 5 105  | TW.DR.LONG340 HSSE W10 10.5 5* | e 5  |
| 5510 5 110  | TW.DR.LONG340 HSSE W10 11.0 5* | 1    |
| 5510 5 115  | TW.DR.LONG340 HSSE W10 11.5 5* | 1    |
| 5510 5 120  | TW.DR.LONG340 HSSE W10 12.0 5* | 1    |
| 5510 5 125  | TW.DR.LONG340 HSSE W10 12.5 5* | 1    |
| 5510 5 130  | TW.DR.LONG340 HSSE W10 13.0 5* | 1    |

### Technical Data

| Ø mm | Length mm | Tension length mm |
|------|-----------|-------------------|
| 1.0  | 56        | 33                |
| 2.0  | 85        | 56                |
| 2.5  | 95        | 62                |
| 3.0  | 100       | 66                |
| 3.2  | 106       | 69                |
| 3.5  | 112       | 73                |
| 3.8  | 119       | 78                |
| 4.0  | 119       | 78                |
| 4.2  | 119       | 78                |
| 4.5  | 126       | 82                |
| 5.0  | 132       | 87                |
| 5.2  | 132       | 87                |
| 5.5  | 139       | 91                |
| 6.0  | 139       | 91                |
| 6.2  | 149       | 97                |
| 6.5  | 149       | 97                |
| 6.8  | 156       | 102               |
| 7.0  | 156       | 102               |
| 7.5  | 156       | 102               |
| 8.0  | 165       | 109               |
| 8.5  | 165       | 109               |
| 9.0  | 175       | 115               |
| 9.5  | 175       | 115               |
| 10.0 | 184       | 121               |
| 10.5 | 184       | 121               |
| 11.0 | 195       | 128               |
| 11.5 | 195       | 128               |
| 12.0 | 205       | 134               |
| 12.5 | 205       | 134               |
| 13.0 | 205       | 134               |

# Twist Drill Set DIN 340 HSS-E Type W. **FÖRCH**\*\*\*\*\*

- 17 pieces in plastic case Art.-No. 4415 14 47 1 with VAROsoft system insert Art.-No. 9026 638

**Contents**

| Article No.  | Article Description            | Quantity |
|--------------|--------------------------------|----------|
| 4415 14 47 1 | EMPTY CASE SIZE A              | 1        |
| 5510 5 10    | TW.DR.LONG340 HSSE W10 1.0 5*  | 1        |
| 5510 5 20    | TW.DR.LONG340 HSSE W10 2.0 5*  | 1        |
| 5510 5 30    | TW.DR.LONG340 HSSE W10 3.0 5*  | 1        |
| 5510 5 35    | TW.DR.LONG340 HSSE W10 3.5 5*  | 1        |
| 5510 5 40    | TW.DR.LONG340 HSSE W10 4.0 5*  | 1        |
| 5510 5 45    | TW.DR.LONG340 HSSE W10 4.5 5*  | 1        |
| 5510 5 50    | TW.DR.LONG340 HSSE W10 5.0 5*  | 1        |
| 5510 5 55    | TW.DR.LONG340 HSSE W10 5.5 5*  | 1        |
| 5510 5 60    | TW.DR.LONG340 HSSE W10 6.0 5*  | 1        |
| 5510 5 65    | TW.DR.LONG340 HSSE W10 6.5 5*  | 1        |
| 5510 5 70    | TW.DR.LONG340 HSSE W10 7.0 5*  | 1        |
| 5510 5 75    | TW.DR.LONG340 HSSE W10 7.5 5*  | 1        |
| 5510 5 80    | TW.DR.LONG340 HSSE W10 8.0 5*  | 1        |
| 5510 5 85    | TW.DR.LONG340 HSSE W10 8.5 5*  | 1        |
| 5510 5 90    | TW.DR.LONG340 HSSE W10 9.0 5*  | 1        |
| 5510 5 95    | TW.DR.LONG340 HSSE W10 9.5 5*  | 1        |
| 5510 5 100   | TW.DR.LONG340 HSSE W10 10.0 5* | 1        |



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5509 5 5510 | TW.DR.SET 340 1-10MM 17PCS 5* | 1   |



## Related Products

- **Impact-Hammer Drill**  
Art.-No. 5325 570



- **Drilling and Cutting Paste**  
Art.-No. 6580 5820



- **„Epsilon“ Safety Glasses**  
Art.-No. 5400 905 1





# Twist Drill DIN 340 HSS, Ground Type N

- Cylindrical, long
- Right-hand cutting
- Split point
- Point angle 135°
- Ø-tolerance h8
- Highly efficient standard drill, for deep hole drillings and drill bushings



**Applications:**

- For alloyed and unalloyed steel and cast steel up to approx. 900 N/mm<sup>2</sup> strength, grey cast iron, malleable cast iron, sintered iron, spheroidal cast iron, bronze, brass, alloyed aluminium, short-chipping
- Ø 4.0 / 4.2 / 5.0 / 5.3 / 5.5 / 5.8 ideally suitable for drilling at facades, on facades for mounting screws
- Ø 6.2 for drilling window frames in connection with frame screws

| Article No. | Article Description       | QTY |
|-------------|---------------------------|-----|
| 5510 10     | TWIST DRILL LONG 340 1.0  | 10  |
| 5510 20     | TWIST DRILL LONG 340 2.0  | 10  |
| 5510 25     | TWIST DRILL LONG 340 2.5  | 10  |
| 5510 30     | TWIST DRILL LONG 340 3.0  | 10  |
| 5510 31     | TWIST DRILL LONG 340 3.1  | 10  |
| 5510 32     | TWIST DRILL LONG 340 3.2  | 10  |
| 5510 35     | TWIST DRILL LONG 340 3.5  | 10  |
| 5510 38     | TWIST DRILL LONG 340 3.8  | 10  |
| 5510 40     | TWIST DRILL LONG 340 4.0  | 10  |
| 5510 41     | TWIST DRILL LONG 340 4.1  | 10  |
| 5510 42     | TWIST DRILL LONG 340 4.2  | 10  |
| 5510 45     | TWIST DRILL LONG 340 4.5  | 10  |
| 5510 48     | TWIST DRILL LONG 340 4.8  | 10  |
| 5510 50     | TWIST DRILL LONG 340 5.0  | 10  |
| 5510 51     | TWIST DRILL LONG 340 5.1  | 10  |
| 5510 52     | TWIST DRILL LONG 340 5.2  | 10  |
| 5510 53     | TWIST DRILL LONG 340 5.3  | 10  |
| 5510 55     | TWIST DRILL LONG 340 5.5  | 10  |
| 5510 57     | TWIST DRILL LONG 340 5.7  | 10  |
| 5510 58     | TWIST DRILL LONG 340 5.8  | 10  |
| 5510 60     | TWIST DRILL LONG 340 6.0  | 10  |
| 5510 62     | TWIST DRILL LONG 340 6.2  | 10  |
| 5510 65     | TWIST DRILL LONG 340 6.5  | 10  |
| 5510 68     | TWIST DRILL LONG 340 6.8  | 10  |
| 5510 70     | TWIST DRILL LONG 340 7.0  | 10  |
| 5510 75     | TWIST DRILL LONG 340 7.5  | 10  |
| 5510 80     | TWIST DRILL LONG 340 8.0  | e 5 |
| 5510 85     | TWIST DRILL LONG 340 8.5  | e 5 |
| 5510 90     | TWIST DRILL LONG 340 9.0  | e 5 |
| 5510 95     | TWIST DRILL LONG 340 9.5  | e 5 |
| 5510 100    | TWIST DRILL LONG 340 10.0 | e 5 |
| 5510 105    | TWIST DRILL LONG 340 10.5 | e 5 |
| 5510 110    | TWIST DRILL LONG 340 11.0 | e 5 |
| 5510 115    | TWIST DRILL LONG 340 11.5 | e 5 |
| 5510 120    | TWIST DRILL LONG 340 12.0 | e 5 |
| 5510 125    | TWIST DRILL LONG 340 12.5 | e 5 |
| 5510 130    | TWIST DRILL LONG 340 13.0 | e 5 |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 1.0            | 56        | 33               |
| 2.0            | 85        | 56               |
| 2.5            | 95        | 62               |
| 3.0            | 100       | 66               |
| 3.1            | 106       | 69               |
| 3.2            | 106       | 69               |
| 3.5            | 112       | 73               |
| 3.8            | 119       | 78               |
| 4.0            | 119       | 78               |
| 4.1            | 119       | 78               |
| 4.2            | 119       | 78               |
| 4.5            | 126       | 82               |
| 4.8            | 132       | 87               |
| 5.0            | 132       | 87               |
| 5.1            | 132       | 87               |
| 5.2            | 132       | 87               |
| 5.3            | 132       | 87               |
| 5.5            | 139       | 91               |
| 5.7            | 139       | 91               |
| 5.8            | 139       | 91               |
| 6.0            | 139       | 91               |
| 6.2            | 139       | 91               |
| 6.5            | 148       | 97               |
| 6.8            | 156       | 102              |
| 7.0            | 156       | 102              |
| 7.5            | 156       | 102              |
| 8.0            | 165       | 109              |
| 8.5            | 165       | 109              |
| 9.0            | 175       | 115              |
| 9.5            | 175       | 115              |
| 10.0           | 184       | 121              |
| 10.5           | 184       | 121              |
| 11.0           | 195       | 128              |
| 11.5           | 195       | 128              |
| 12.0           | 205       | 134              |
| 12.5           | 205       | 134              |
| 13.0           | 205       | 134              |

# Twist Drill DIN 1869 HSS, Ground, Type N, Series 2



- Cylindrical, extra long
- Ground
- Right-hand cutting
- Crosswise grinding
- Point angle 130°
- Highly efficient standard drill in long version for deep hole drillings

**Applications:**

- For alloyed and unalloyed steel and cast steel up to approx. 900 N/mm<sup>2</sup> strength, grey cast iron, malleable cast iron, sintered iron, spheroidal cast iron, bronze, brass, aluminium, short-chipping

| Article No. | Article Description             | QTY  |
|-------------|---------------------------------|------|
| 5508 30     | TW.DR.EXTRA LONG 1869GS RS 3.0  | e 10 |
| 5508 32     | TW.DR.EXTRA LONG 1869GS RS 3.2  | e 10 |
| 5508 35     | TW.DR.EXTRA LONG 1869GS RS 3.5  | e 10 |
| 5508 40     | TW.DR.EXTRA LONG 1869GS RS 4.0  | e 10 |
| 5508 42     | TW.DR.EXTRA LONG 1869GS RS 4.2  | e 10 |
| 5508 45     | TW.DR.EXTRA LONG 1869GS RS 4.5  | e 10 |
| 5508 50     | TW.DR.EXTRA LONG 1869GS R2 5.0  | e 10 |
| 5508 52     | TW.DR.EXTRA LONG 1869GS R2 5.2  | e 5  |
| 5508 55     | TW.DR.EXTRA LONG 1869GS R2 5.5  | e 10 |
| 5508 60     | TW.DR.EXTRA LONG 1869GS R2 6.0  | e 10 |
| 5508 65     | TW.DR.EXTRA LONG 1869GS R2 6.5  | e 10 |
| 5508 70     | TW.DR.EXTRA LONG 1869GS R2 7.0  | e 5  |
| 5508 80     | TW.DR.EXTRA LONG 1869GS R2 8.0  | e 5  |
| 5508 90     | TW.DR.EXTRA LONG 1869GS R2 9.0  | e 5  |
| 5508 100    | TW.DR.EXTRA LONG 1869GS R2 10.0 | e 5  |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 3.0            | 190       | 130              |
| 3.2            | 200       | 135              |
| 3.5            | 210       | 145              |
| 4.0            | 220       | 150              |
| 4.2            | 220       | 150              |
| 4.5            | 235       | 160              |
| 5.0            | 245       | 170              |
| 5.2            | 245       | 170              |
| 5.5            | 260       | 180              |
| 6.0            | 260       | 180              |
| 6.5            | 275       | 190              |
| 7.0            | 290       | 200              |
| 8.0            | 305       | 210              |
| 9.0            | 320       | 220              |
| 10.0           | 340       | 235              |

# Drill for Hollow Profiles HSS, Ground Type N



- Cylindrical, long
- Right-hand cutting
- Split point
- Point angle 118°
- Ø-tolerance h8
- Break-resistant due to short groove length (30 mm)

**Applications:**

- Ideal for drilling profiled sheet metal-constructions in connection with facade screws and window installation

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5519 30 135 | HOLL.PROF.DRILL GROUND 3.0X135 | 10  |
| 5519 31 135 | HOLL.PROF.DRILL GROUND 3.1X135 | 10  |
| 5519 33 135 | HOLL.PROF.DRILL GROUND 3.3X135 | 10  |
| 5519 35 135 | HOLL.PROF.DRILL GROUND 3.5X135 | 10  |
| 5519 40 135 | HOLL.PROF.DRILL GROUND 4.0X135 | 10  |
| 5519 41 135 | HOLL.PROF.DRILL GROUND 4.1X135 | 10  |
| 5519 42 135 | HOLL.PROF.DRILL GROUND 4.2X135 | 10  |
| 5519 45 135 | HOLL.PROF.DRILL GROUND 4.5X135 | 10  |
| 5519 50 135 | HOLL.PROF.DRILL GROUND 5.0X135 | 10  |
| 5519 50 210 | HOLL.PROF.DRILL GROUND 5.0X210 | 10  |
| 5519 51 210 | HOLL.PROF.DRILL GROUND 5.1X210 | 10  |
| 5519 53 210 | HOLL.PROF.DRILL GROUND 5.3X210 | 10  |
| 5519 55 210 | HOLL.PROF.DRILL GROUND 5.5X210 | 10  |
| 5519 57 210 | HOLL.PROF.DRILL GROUND 5.7X210 | 10  |
| 5519 58 210 | HOLL.PROF.DRILL GROUND 5.8X210 | 10  |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 3.0            | 135       | 30               |
| 3.1            | 135       | 30               |
| 3.3            | 135       | 30               |
| 3.5            | 135       | 30               |
| 4.0            | 135       | 30               |
| 4.1            | 135       | 30               |
| 4.2            | 135       | 30               |
| 4.5            | 135       | 30               |
| 5.0            | 135       | 30               |
| 5.0            | 210       | 30               |
| 5.1            | 210       | 30               |
| 5.3            | 210       | 30               |
| 5.5            | 210       | 30               |
| 5.7            | 210       | 30               |
| 5.8            | 210       | 30               |

# Twist Drill Morse Taper Shank DIN 345 HSS, Type N

- Right-hand cutting
- Roll forged
- Helical point
- Point angle 118°
- Highly efficient standard drill, for deep hole drillings



**Applications:**

- For steel and cast steel up to approx. 900 N/mm<sup>2</sup> strength, grey cast iron, malleable cast iron, sintered iron, spheroidal cast iron, bronze, brass, alloyed aluminium, short-chipping

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5511 100    | TW. DRILL T. SHANK 345MT1 10.0 | 1   |
| 5511 102    | TW. DRILL T. SHANK 345MT1 10.2 | 1   |
| 5511 105    | TW. DRILL T. SHANK 345MT1 10.5 | 1   |
| 5511 110    | TW. DRILL T. SHANK 345MT1 11.0 | 1   |
| 5511 115    | TW. DRILL T. SHANK 345MT1 11.5 | 1   |
| 5511 120    | TW. DRILL T. SHANK 345MT1 12.0 | 1   |
| 5511 125    | TW. DRILL T. SHANK 345MT1 12.5 | 1   |
| 5511 130    | TW. DRILL T. SHANK 345MT1 13.0 | 1   |
| 5511 135    | TW. DRILL T. SHANK 345MT1 13.5 | 1   |
| 5511 140    | TW. DRILL T. SHANK 345MT1 14.0 | 1   |
| 5511 145    | TW. DRILL T. SHANK 345MT2 14.5 | 1   |
| 5511 150    | TW. DRILL T. SHANK345 MT2 15.0 | 1   |
| 5511 155    | TW. DRILL T. SHANK345 MT2 15.5 | 1   |
| 5511 160    | TW. DRILL T. SHANK345 MT2 16.0 | 1   |
| 5511 165    | TW. DRILL T. SHANK345 MT2 16.5 | 1   |
| 5511 170    | TW. DRILL T. SHANK345 MT2 17.0 | 1   |
| 5511 175    | TW. DRILL T. SHANK345 MT2 17.5 | 1   |
| 5511 180    | TW. DRILL T. SHANK345 MT2 18.0 | 1   |
| 5511 185    | TW. DRILL T. SHANK345 MT2 18.5 | 1   |
| 5511 190    | TW. DRILL T. SHANK345 MT2 19.0 | 1   |
| 5511 195    | TW. DRILL T. SHANK345 MT2 19.5 | 1   |
| 5511 200    | TW. DRILL T. SHANK345 MT2 20.0 | 1   |
| 5511 205    | TW. DRILL T. SHANK345 MT2 20.5 | 1   |
| 5511 210    | TW. DRILL T. SHANK345 MT2 21.0 | 1   |
| 5511 215    | TW. DRILL T. SHANK345 MT2 21.5 | 1   |
| 5511 220    | TW. DRILL T. SHANK345 MT2 22.0 | 1   |
| 5511 225    | TW. DRILL T. SHANK345 MT2 22.5 | 1   |
| 5511 230    | TW. DRILL T. SHANK345 MT2 23.0 | 1   |
| 5511 235    | TW. DRILL T. SHANK345 MT3 23.5 | 1   |
| 5511 240    | TW. DRILL T. SHANK345 MT3 24.0 | 1   |
| 5511 245    | TW. DRILL T. SHANK345 MT3 24.5 | 1   |
| 5511 250    | TW. DRILL T. SHANK345 MT3 25.0 | 1   |
| 5511 255    | TW. DRILL T. SHANK345 MT3 25.5 | 1   |
| 5511 260    | TW. DRILL T. SHANK345 MT3 26.0 | 1   |
| 5511 265    | TW. DRILL T. SHANK345 MT3 26.5 | 1   |
| 5511 270    | TW. DRILL T. SHANK345 MT3 27.0 | 1   |
| 5511 275    | TW. DRILL T. SHANK345 MT3 27.5 | 1   |
| 5511 280    | TW. DRILL T. SHANK345 MT3 28.0 | 1   |
| 5511 285    | TW. DRILL T. SHANK345 MT3 28.5 | 1   |
| 5511 290    | TW. DRILL T. SHANK345 MT3 29.0 | 1   |
| 5511 295    | TW. DRILL T. SHANK345 MT3 29.5 | 1   |
| 5511 300    | TW. DRILL T. SHANK345 MT3 30.0 | 1   |
| 5511 305    | TW. DRILL T. SHANK345 MT3 30.5 | 1   |
| 5511 310    | TW. DRILL T. SHANK345 MT3 31.0 | 1   |
| 5511 315    | TW. DRILL T. SHANK345 MT3 31.5 | 1   |
| 5511 320    | TW. DRILL T. SHANK345 MT4 32.0 | 1   |
| 5511 325    | TW. DRILL T. SHANK345 MT4 32.5 | 1   |
| 5511 330    | TW. DRILL T. SHANK345 MT4 33.0 | 1   |
| 5511 335    | TW. DRILL T. SHANK345 MT4 33.5 | 1   |
| 5511 340    | TW. DRILL T. SHANK345 MT4 34.0 | 1   |
| 5511 345    | TW. DRILL T. SHANK345 MT4 34.5 | 1   |
| 5511 350    | TW. DRILL T. SHANK345 MT4 35.0 | 1   |
| 5511 355    | TW. DRILL T. SHANK345 MT4 35.5 | 1   |
| 5511 360    | TW. DRILL T. SHANK345 MT4 36.0 | 1   |
| 5511 365    | TW. DRILL T. SHANK345 MT4 36.5 | 1   |
| 5511 370    | TW. DRILL T. SHANK345 MT4 37.0 | 1   |
| 5511 375    | TW. DRILL T. SHANK345 MT4 37.5 | 1   |
| 5511 380    | TW. DRILL T. SHANK345 MT4 38.0 | 1   |
| 5511 385    | TW. DRILL T. SHANK345 MT4 38.5 | 1   |
| 5511 390    | TW. DRILL T. SHANK345 MT4 39.0 | 1   |
| 5511 395    | TW. DRILL T. SHANK345 MT4 39.5 | 1   |
| 5511 400    | TW. DRILL T. SHANK345 MT4 40.0 | 1   |

**Technical Data**

| Ø mm | Length mm | Groove length mm |
|------|-----------|------------------|
| 10.0 | 168       | 87               |
| 10.2 | 168       | 87               |
| 10.5 | 168       | 87               |
| 11.0 | 175       | 94               |
| 11.5 | 175       | 94               |
| 12.0 | 182       | 101              |
| 12.5 | 182       | 101              |
| 13.0 | 182       | 101              |
| 13.5 | 189       | 108              |
| 14.0 | 189       | 108              |
| 14.5 | 212       | 114              |
| 15.0 | 212       | 114              |
| 15.5 | 218       | 120              |
| 16.0 | 218       | 120              |
| 16.5 | 223       | 125              |
| 17.0 | 223       | 125              |
| 17.5 | 228       | 130              |
| 18.0 | 228       | 130              |
| 18.5 | 233       | 135              |
| 19.0 | 233       | 135              |
| 19.5 | 238       | 140              |
| 20.0 | 238       | 140              |
| 20.5 | 248       | 150              |
| 21.0 | 248       | 150              |
| 21.5 | 248       | 150              |
| 22.0 | 248       | 150              |
| 22.5 | 253       | 155              |
| 23.0 | 253       | 155              |
| 23.5 | 276       | 155              |
| 24.0 | 281       | 160              |
| 24.5 | 281       | 160              |
| 25.0 | 281       | 160              |
| 25.5 | 286       | 165              |
| 26.0 | 286       | 165              |
| 26.5 | 286       | 165              |
| 27.0 | 291       | 170              |
| 27.5 | 291       | 170              |
| 28.0 | 291       | 170              |
| 28.5 | 296       | 175              |
| 29.0 | 296       | 175              |
| 29.5 | 296       | 175              |
| 30.0 | 296       | 175              |
| 30.5 | 301       | 180              |
| 31.0 | 301       | 180              |
| 31.5 | 306       | 185              |
| 32.0 | 334       | 185              |
| 32.5 | 334       | 185              |
| 33.0 | 334       | 185              |
| 33.5 | 334       | 185              |
| 34.0 | 339       | 190              |
| 34.5 | 339       | 190              |
| 35.0 | 339       | 190              |
| 35.5 | 339       | 190              |
| 36.0 | 344       | 195              |
| 36.5 | 344       | 195              |
| 37.0 | 344       | 195              |
| 37.5 | 344       | 195              |
| 38.0 | 349       | 200              |
| 38.5 | 349       | 200              |
| 39.0 | 349       | 200              |
| 39.5 | 349       | 200              |
| 40.0 | 349       | 200              |

# Twist Drill Short DIN 1897 HSS, Type N Roll Forged

- Cylindric extra short
- Right-hand cutting
- Split point
- Point angle 118°
- Powerful drill, suitable for hand drilling machines
- Suitable for thin material, e.g. sheet metal, flat and profile iron



| Article No. | Article Description            | QTY  |
|-------------|--------------------------------|------|
| 5507 25     | TWIST DRILL SHORT 1897 2.5     | e 10 |
| 5507 30     | TWIST DRILL SHORT 1897 3.0     | 10   |
| 5507 31     | TWIST DRILL SHORT 1897 3.1     | 10   |
| 5507 32     | TWIST DRILL SHORT 1897 3.2     | 10   |
| 5507 33     | TWIST DRILL SHORT 1897 3.3     | 10   |
| 5507 35     | TWIST DRILL SHORT 1897 3.5     | 10   |
| 5507 40     | TWIST DRILL SHORT 1897 4.0     | 10   |
| 5507 41     | TWIST DRILL SHORT 1897 4.1     | 10   |
| 5507 42     | TWIST DRILL SHORT 1897 4.2     | 10   |
| 5507 45     | TWIST DRILL SHORT 1897 4.5     | 10   |
| 5507 50     | TWIST DRILL SHORT 1897 5.0     | 10   |
| 5507 51     | TWIST DRILL SHORT 1897 5.1     | 10   |
| 5507 52     | TWIST DRILL SHORT 1897 5.2     | 10   |
| 5507 55     | TWIST DRILL SHORT 1897 5.5     | 10   |
| 5507 60     | TWIST DRILL SHORT 1897 6.0     | 10   |
| 5507 65     | TWIST DRILL SHORT 1897 6.5     | 10   |
| 5507 70     | TWIST DRILL SHORT 1897 7.0     | 10   |
| 5507 75     | TWIST DRILL SHORT 1897 7.5     | 10   |
| 5507 80     | TWIST DRILL SHORT 1897 8.0     | 10   |
| 5507 92     | TWIST DRILL SHORT 1897 DA 9.2  | 1 ü  |
| 5507 112    | TWIST DRILL SHORT 1897 DA 11.2 | 1    |
| 5507 132    | TWIST DRILL SHORT 1897 DA 13.2 | 1    |
| 5507 152    | TWIST DRILL SHORT 1897 DA 15.2 | 1    |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 2.5            | 43        | 14               |
| 3.0            | 46        | 16               |
| 3.1            | 49        | 18               |
| 3.2            | 49        | 18               |
| 3.3            | 49        | 18               |
| 3.5            | 52        | 20               |
| 4.0            | 55        | 22               |
| 4.1            | 55        | 22               |
| 4.2            | 55        | 22               |
| 4.5            | 58        | 24               |
| 5.0            | 62        | 26               |
| 5.1            | 62        | 26               |
| 5.2            | 62        | 26               |
| 5.5            | 66        | 28               |
| 6.0            | 66        | 28               |
| 6.5            | 70        | 31               |
| 7.0            | 74        | 34               |
| 7.5            | 74        | 34               |
| 8.0            | 79        | 37               |
| 9.2            | 84        | 40               |
| 11.2           | 95        | 47               |
| 13.2           | 102       | 51               |
| 15.2           | 115       | 58               |

# Centre Drill DIN 333 HSS, Ground

- Right-hand cutting
- Centre angle 60°
- Point angle 120°
- Ø-tolerance h9
- Ideally suitable for the production of centre drills according to DIN 332 Form A



| Article No. | Article Description         | QTY  |
|-------------|-----------------------------|------|
| 5513 10     | CENTRE DRILL HSS 333 A 1.0  | e 10 |
| 5513 16     | CENTRE DRILL HSS 333 A 1.6  | e 10 |
| 5513 20     | CENTRE DRILL HSS 333 A 2.0  | e 10 |
| 5513 25     | CENTRE DRILL HSS 333 A 2.5  | e 10 |
| 5513 315    | CENTRE DRILL HSS 333 A 3.15 | e 10 |
| 5513 40     | CENTRE DRILL HSS 333 A 4.0  | e 10 |
| 5513 50     | CENTRE DRILL HSS 333 A 5.0  | e 10 |
| 5513 63     | CENTRE DRILL HSS 333 A 6.3  | e 10 |
| 5513 80     | CENTRE DRILL HSS 333 A 8.0  | 1    |

| Technical Data |            |                 |
|----------------|------------|-----------------|
| Ø mm           | Shank-Ø mm | Total length mm |
| 1.0            | 3.15       | 31.5            |
| 1.6            | 4.0        | 35.5            |
| 2.0            | 5.0        | 40.0            |
| 2.5            | 6.3        | 45.0            |
| 3.15           | 8.0        | 50.0            |
| 4.0            | 10.0       | 56.0            |
| 5.0            | 12.5       | 63.0            |
| 6.3            | 16.0       | 71.0            |
| 8.0            | 20.0       | 80.0            |

# Double-end Drill 118° HSS, Ground

- Double-side drilling
- Extra short, for drillings in thin materials
- Point angle 118°
- Right-hand cutting
- Split point (from Ø 3 mm)

**Applications:**

- For hard, very tough materials e.g. body sheets in vehicle construction



| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5514 25     | DOUBLE-END DRILL 118 2.5 | 10  |
| 5514 30     | DOUBLE-END DRILL 118 3.0 | 10  |
| 5514 31     | DOUBLE-END DRILL 118 3.1 | 10  |
| 5514 32     | DOUBLE-END DRILL 118 3.2 | 10  |
| 5514 33     | DOUBLE-END DRILL 118 3.3 | 10  |
| 5514 35     | DOUBLE-END DRILL 118 3.5 | 10  |
| 5514 40     | DOUBLE-END DRILL 118 4.0 | 10  |
| 5514 41     | DOUBLE-END DRILL 118 4.1 | 10  |
| 5514 42     | DOUBLE-END DRILL 118 4.2 | 10  |
| 5514 45     | DOUBLE-END DRILL 118 4.5 | 10  |
| 5514 49     | DOUBLE-END DRILL 118 4.9 | 10  |
| 5514 50     | DOUBLE-END DRILL 118 5.0 | 10  |
| 5514 51     | DOUBLE-END DRILL 118 5.1 | 10  |
| 5514 52     | DOUBLE-END DRILL 118 5.2 | 10  |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 2.5            | 46        | 11.0             |
| 3.0            | 46        | 11.0             |
| 3.1            | 49        | 11.0             |
| 3.2            | 49        | 11.0             |
| 3.3            | 49        | 11.0             |
| 3.5            | 52        | 14.0             |
| 4.0            | 55        | 14.0             |
| 4.1            | 55        | 14.0             |
| 4.2            | 55        | 14.0             |
| 4.5            | 58        | 17.0             |
| 4.9            | 62        | 17.0             |
| 5.0            | 62        | 17.0             |
| 5.1            | 62        | 17.0             |
| 5.2            | 62        | 17.0             |

# Double-end Drill 130° HSS, Ground

- Double-side drilling
- Extra short, for drilling in thin materials
- Point angle 130°
- Right-hand cutting
- Split point
- In plastic sliding-box

**Applications:**

- For structural steel, medium hard non-ferrous metals such as zinc, aluminium and copper sheets in roof and facade construction



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5514 1 32   | PK(10)DOUBLE-END DRILL 130 3.2 | 1   |
| 5514 1 33   | PK(10)DOUBLE-END DRILL 130 3.3 | 1   |
| 5514 1 35   | PK(10)DOUBLE-END DRILL 130 3.5 | 1   |
| 5514 1 41   | PK(10)DOUBLE-END DRILL 130 4.1 | 1   |
| 5514 1 42   | PK(10)DOUBLE-END DRILL 130 4.2 | 1   |
| 5514 1 51   | PK(10)DOUBLE-END DRILL 130 5.1 | 1   |
| 5514 1 52   | PK(10)DOUBLE-END DRILL 130 5.2 | 1   |

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 3.2            | 49        | 11.0             |
| 3.3            | 49        | 11.0             |
| 3.5            | 52        | 14.0             |
| 4.1            | 55        | 14.0             |
| 4.2            | 55        | 14.0             |
| 5.1            | 62        | 17.0             |
| 5.2            | 62        | 17.0             |

# Twist Drill Bit HSS, Ground

- Split point
- Right-hand cutting
- Point angle 118°
- Highly-tempered shank according to DIN 3126 – E6,3 – 1/4"

**Applications:**

- Recommended for alloyed and unalloyed steels as well as soft non-ferrous metals



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5517 3      | 1/4" TWIST DRILL BIT 3MM      | 1   |
| 5517 4      | 1/4" TWIST DRILL BIT 4MM      | 1   |
| 5517 5      | 1/4" TWIST DRILL BIT 5MM      | 1   |
| 5517 6      | 1/4" TWIST DRILL BIT 6MM      | 1   |
| 5517 8      | 1/4" TWIST DRILL BIT 8MM      | 1   |
| 5517 10     | 1/4" TWIST DRILL BIT 10MM     | 1   |
| 5509 5517   | 5-PCS.1/4" METAL DR.SET 3-8MM | 1   |

(Mount / Ø mm)

| Technical Data |           |                  |
|----------------|-----------|------------------|
| Ø mm           | Length mm | Groove length mm |
| 3.0            | 60        | 20               |
| 4.0            | 60        | 20               |
| 5.0            | 65        | 25               |
| 6.0            | 65        | 25               |
| 8.0            | 70        | 30               |
| 10.0           | 70        | 30               |

# Milling Drill HSS Universal

- Cylinder shaft
- For drillings and subsequent milling of thin-walled material e.g. long holes

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5520 20     | UNIVERSAL MILLING DRILL 6X90MM | 1   |



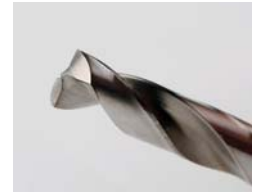


# Spot Weld Drill HSS-E FORCH\*\*\*\*\*

- For precise, burr-free drilling out of spot welds and for drilling thin-walled workpieces without centre punching
- Special ground surface with self-cutting centring tip and straight primary cutting edge for increased drilling speed
- Won't slip off the spot weld
- 5% cobalt alloy
- Right-hand cutting
- Made in Germany

**Applications:**

- For drilling steel sheets with up to 900 N/mm<sup>2</sup> tensile strength, brass sheets, aluminium sheets, zinc sheets, copper sheets, and plastic plates



| Technical Data |                   |
|----------------|-------------------|
| Ø mm           | Overall length mm |
| 6.0            | 66.0              |
| 8.0            | 80.0              |
| 10.0           | 88.0              |

| Article No. | Article Description          | QTY  |
|-------------|------------------------------|------|
| 5515 5 60   | SPOT WELD DRILL HSSE 6.0 5*  | e 10 |
| 5515 5 80   | SPOT WELD DRILL HSSE 8.0 5*  | e 10 |
| 5515 5 100  | SPOT WELD DRILL HSSE 10.0 5* | e 10 |

(Ø mm)

# Spot Weld Drill HSS-E

- Alloyed with cobalt (5%)
- Suitable for drilling of welding points on sheet steel



| Article No. | Article Description        | QTY  |
|-------------|----------------------------|------|
| 5515 60     | SPOT WELD DRILL HSS-E 6.0  | e 10 |
| 5515 80     | SPOT WELD DRILL HSS-E 8.0  | e 10 |
| 5515 100    | SPOT WELD DRILL HSS-E 10.0 | e 10 |

(Ø mm)

# Spot Weld Drill HSS-E TIN

- Alloyed with 5 % cobalt and titanium nitride coated
- Suitable for drilling of welding points on sheet steel



| Article No. | Article Description            | QTY  |
|-------------|--------------------------------|------|
| 5515 60 1   | SPOT WELD DR.SOL.CARB.HSSE 6.0 | e 10 |
| 5515 80 1   | SPOT WELD DR.SOL.CARB.HSSE 8.0 | e 10 |

(Ø mm)

# Spot Weld Drill HSS-E TIAN

- Alloyed with 5 % cobalt titanium aluminium nitride coating
- Suitable for drilling of welding points on sheet steel



| Article No. | Article Description            | QTY  |
|-------------|--------------------------------|------|
| 5515 60 3   | SPOT WELD DR.CARB.HSSE-TIAN6.0 | e 10 |
| 5515 80 3   | SPOT WELD DR.CARB.HSSE-TIAN8.0 | e 10 |

(Ø mm)

# Spot Weld Drill - Solid Carbide

- Made out of solid carbide, nano structured special coating with high strength and toughness at the same time



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5515 60 2   | SPOT WELD DRILL-SOL.CARBIDE6.0 | 1   |
| 5515 80 2   | SPOT WELD DRILL SOL.CARBIDE8.0 | 1   |

(Ø mm)

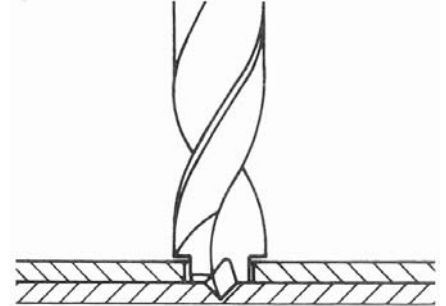
# Spot Weld Drill „SAFETY“ HSS-E

- Alloyed with cobalt (5%)
- When the shoulder contacts the body sheet, it shows the removal of the weld spot and thus avoids an unintentional piercing



| Technical Data      |                           |                           |
|---------------------|---------------------------|---------------------------|
| Art.-No.            | 5515 1075/<br>5515 1075 4 | 5515 8055/<br>5515 8055 4 |
| Drill shaft Ø:      | 10.0 mm                   | 8.0 mm                    |
| Drill Ø:            | 7.5 mm                    | 5.5 mm                    |
| Height of shoulder: | 1.1 mm                    | 1.1 mm                    |
| Speed:              | 600 – 670 rpm             | 600 – 670 rpm             |

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5515 1075   | SPOT WELD DRILL HSS-E10/7.5MM | 1   |
| 5515 1075 4 | SPOT WELD DRILL 10/7.5 PK(4)  | 1   |
| 5515 8055   | SPOT WELD DRILL HSS-E 8.0/5.5 | 1   |
| 5515 8055 4 | SPOT WELD DRILL 8/5.5 PK(4)   | 1   |



# Welding Spot Cutter HSS

- For drilling open welding spots in steel sheets  $\leq 900 \text{ N/mm}^2$  tensile strength
- Exchangeable milling arbor that cuts on both sides
- Adjustable milling depth
- Hexagonal shaft, complete with HSS milling arbor  $\text{Ø } 9.6 \text{ mm}$



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5520 1      | SPOT WELD CUTTER HSS           | e 5 |
| 5520 10     | SPOT WELD CUTTER-REPL.CROWN    | e 5 |
| 5520 11     | SPOT WELD CUTTER-CENTERING PIN | 1   |



## Weld Spot Drill TIAN

- Hard metal cutter with CVD-wear protection coating Titan-Aluminium-Nitrid
- Suitable for weld spot drill FAST DRILL (Art.-No. 5352 3)



| Article No. | Article Description         | QTY  |
|-------------|-----------------------------|------|
| 5352 3 1    | WELD SPOT DRILL TIAN 8/44MM | e 10 |

## Welding Spot Drill Tungsten Carbide 8 and 10 mm

- In combination with Welding Spot Drill FAST DRILL ideal for high-strength car body sheets:
  - Material hardness non-welded: 560 HV / 52HRC / 2,200 MPa
  - Material spotted: 760 HV / 62HRC / 2,600 MPa
- Service life 80 – 120 drillings in high-strength sheets
- Afterwards up to 1,000 drillings into standard sheets possible (in combination with FAST DRILL)
- Hardness 3,100 HV (according to Vickers test procedure)
- Heat resistant up to 1,100 °C
- High sliding wear resistance
- Suitable for welding spot drill FAST DRILL (Art.-No. 5352 3)



5352 3 2



5352 3 3

### Technical Data

|   |  |
|---|--|
| <b>Type:</b>                              | Double cutter                          |
| <b>Material cutter:</b>                   | Wolfram Karbid (hardness 1,400 HV)     |
| <b>Material carrier:</b>                  | Steel                                  |
| <b>Connection:</b>                        | soldered                               |
| <b>PVD coating:</b>                       | AlCrN-based (hardness 3,100 HV)        |
| <b>Temperature protection of coating:</b> | 1,100 °C                               |
| <b>Friction coefficient:</b>              | 0,24 µG (dry against steel)            |
| <b>Speed:</b>                             | 700–800 / max. 1,000 min <sup>-1</sup> |

| Article No. | Article Description             | QTY  |
|-------------|---------------------------------|------|
| 5352 3 2    | WELD SPOT DR. DURADRILL 8/44MM  | e 10 |
| 5352 3 3    | WELD SPOT DR. DURADRILL 10/44MM | e 10 |

## Welding Spot Cutter DL

- Material: HSCO
- Shank-Ø: 8 mm
- Suitable for welding spot drill (Art.-No. 5352 1)



| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5352 90 65   | WELDING-SPOT CUTTER 6.5/45MM   | 1 z |
| 5352 90 65 1 | WELDING-SPOT CUT.6.5/45MM TIN  | 1 z |
| 5352 90 80   | WELDING-SPOT CUTTER 8/45MM     | 1 z |
| 5352 90 80 1 | WELDING-SPOT CUTTER 8/45MM TIN | 1 z |

(Cutter-Ø mm / length, mm / version)

## Solid Hard Metal Weld Point Cutter with 3 Cutters

- Material: solid metal (VHM)
  - 3 cutting drills for high-strength sheets
- Art.-No. 5352 8 46**
- E.g. for welding spot device (Art.-No. 5352 1)
- Art.-No. 5352 8 44**
- E.g. for 'Vario Drill' of Wieländer and Schill



5352 8 46



5352 8 44

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5352 8 46   | WELDING SPOT CUTTER 8.0/46MM | 1   |
| 5352 8 44   | WELDING SPOT CUTTER 8.0/44MM | 1   |

(Cutter-Ø mm/length mm/version)

# Angle Core Drill Press RS 5e

- Magnetic stand allows horizontal, vertical and overhead operation
- Electronic safety switch prevents starting motor unintentionally when magnet is not activated
- Ideal for steel, industry, machine, plant, boat, bridge, crane construction and assembly in metal workshops
- For optimal use in extremely confined space, e.g. iron girders, tight steel constructions or truck frames

**Drilling range:**

- Core drill: up to Ø 35 mm
- Cutting depth: 30 mm
- Power supply: 230 Volt
- Complies with: VDE, CEE

**Technical Data**

|                                    |                           |
|------------------------------------|---------------------------|
| <b>Magnetic attraction force*:</b> | 10,000 N                  |
| <b>Power input:</b>                | 1,200 Watt                |
| <b>Speed:</b>                      | 140 – 350 rpm             |
| <b>Height:</b>                     | 182 mm                    |
| <b>Stroke:</b>                     | 38 mm                     |
| <b>Contact area:</b>               | 160 x 80 mm               |
| <b>Weight:</b>                     | 10 kg                     |
| <b>Chuck:</b>                      | Weldon shank 19 mm (3/4") |

\*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5323 1      | ANGLE CORE DRILLPRESS RS 5E    | 1   |
| 5323 2      | ANGLE COR.DR.PRESS.RS5E+6DRILL | 1   |



# Magnetic Box Column Drill RS 10

- Magnetic box column enable horizontal, vertical, and overhead operation
- Universally applicable and easy to transport through compact, light-weight design and ease of use
- Electronic safety switch prevents unintended starting of the motor as long as the magnet is not activate
- Safet shutoff in case of externally caused magnet failure
- Ideally suited for steel, industry, machine, plant, boat, bridge, and crane construction and assembly in metal workshops

**Drilling range:**

- Twist drill (DIN 338): max. Ø 10 mm
- Twist drill (DIN 1897): max. Ø 13 mm
- Core drill: max. Ø 35 mm
- Core drill cutting depth: 30 mm
- Power supply: 230 Volt
- Corresponds to VDE, CEE

**Technical Data**

|                                    |                           |
|------------------------------------|---------------------------|
| <b>Magnetic attraction force*:</b> | 10,000 N                  |
| <b>Power input:</b>                | 1,120 Watt                |
| <b>Speed:</b>                      | 450 rpm                   |
| <b>Height:</b>                     | 413 – 548 mm              |
| <b>Stroke:</b>                     | 135 mm                    |
| <b>Contact area:</b>               | 160 x 80 mm               |
| <b>Weight:</b>                     | 12 kg                     |
| <b>Fixture:</b>                    | Weldon shank 19 mm (3/4") |
| <b>Gearing output:</b>             | M14                       |

\*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)

| Article No.  | Article Description        | QTY |
|--------------|----------------------------|-----|
| 5323 108 001 | CORE DRILLING MACHINE RS10 | 1   |



# Magnetic Base Drill RS 125e

- Allows horizontal, vertical and overhead applications
- Universally usable and easy to transport thanks to compact, light-weight design and easy handling
- Can easily be retooled with core drill bits and twist drill bits, also allowing blind holes to be drilled
- Electronic safety circuit prevents unintentional starting of the motor if the magnet has not yet been turned on
- With safety shutdown in the event of possible failure of the magnet due to external influences
- With clockwise / anti-clockwise rotation and electronic speed control
- Ideal for use in steel construction, industrial construction, mechanical engineering, plant construction, ship building, bridge construction, crane construction and assembly work in metalworking shops

**Drilling ranges:**

- Spiral drill (DIN 338): max. Ø 16 mm
- Spiral drill (DIN 1897): max. Ø 16 mm
- Spiral drill (DIN 345): max. Ø 23 mm
- Core drill: up to Ø 12 – 60 mm
- Core drill cutting depth: 30 / 50 / 110 mm
- Thread cutting: up to M30

**Additional adjustment:**

- Pivot range: ± 5°
- Displacement: ± 5.0 mm
- Supply voltage: 220 – 240 V
- Complies with: VDE, CEE

**Technical Data**

|                                 |  |
|---------------------------------|--|
| <b>Magnetic holding force*:</b> | 18,000 N   |
| <b>Power consumption:</b>       | 1,200 Watt   |
| <b>Rotational speed:</b>        | 1st gear: 100 – 250 rpm<br>2nd gear: 180 – 450 rpm |
| <b>Height:</b>                  | 600 – 675 mm                                       |
| <b>Stroke:</b>                  | 200 mm   |
| <b>Foot print:</b>              | 240 × 108 mm                                       |
| <b>Weight:</b>                  | 23 kg  |
| <b>Collet:</b>                  | Morse taper MK 2                                   |
| <b>Drill chuck:</b>             | 3 – 16 mm  |

\*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)



| Article No.  | Article Description         | QTY |
|--------------|-----------------------------|-----|
| 5323 108 007 | MAGNETIC BASE DRILL RS 125E | 1   |

# Magnetic Base Drill RS 130e

- Allows horizontal, vertical and overhead applications
- Universally usable and easy to transport thanks to compact, lightweight design and easy handling
- Can easily be retooled with core drill bits and twist drill bits, also allowing blind holes to be drilled
- Electronic safety circuit prevents unintentional starting of the motor if the magnet has not yet been turned on
- With safety shutdown in the event of possible failure of the magnet due to external influences
- Ideal for use in steel construction, industrial construction, mechanical engineering, plant construction, ship building, bridge construction, crane construction and assembly work in metal working business

**Drilling ranges:**

- Twist drill (DIN 338): max. Ø 16 mm
- Twist drill (DIN 345): max. Ø 31.5 mm
- Core drill: Ø 12 – 100 mm
- Core drill cutting depth: 30 / 50 / 110 mm

**Additional adjustment:**

- Pivot range: ± 5°
- Displacement: ± 5,0 mm
- Power supply: 220 – 240 V
- Complies with: VDE, CEE

**Technical Data**

|                                 |   |
|---------------------------------|---|
| <b>Magnetic holding force*:</b> | 18,000 N  |
| <b>Power consumption:</b>       | 1,840 Watt  |
| <b>Rotational speed:</b>        | 1st gear: 40 – 120 rpm<br>2nd gear: 160 – 450 rpm |
| <b>Height:</b>                  | 600 – 680 mm                                      |
| <b>Travel:</b>                  | 200 mm  |
| <b>Tootprint:</b>               | 240 × 108 mm                                      |
| <b>Weight:</b>                  | 26 kg   |
| <b>Collet:</b>                  | Morse taper MK 3                                  |
| <b>Drill chuck:</b>             | 3 – 16 mm   |

\*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)



| Article No.  | Article Description | QTY |
|--------------|---------------------|-----|
| 5323 108 130 | CORE DRILL RS130E   | 1   |

# Magnetic Box Column drill RS 140e

- Allows horizontal, vertical and overhead use
- Universally usable and easy to transport thanks to compact, lightweight design and easy handling
- Can be easily switched between core drills and spiral drills, thus enabling blind holes, too
- Electronic protection circuit prevents unintentional starting of the motor as long as the magnet is not yet activated
- With safety shutdown in the event of possible failure of the magnet due to external influences
- Adjustable torque
- With clockwise / anti-clockwise rotation and electronic speed control
- Ideal for use in steel construction, industrial construction, mechanical engineering, plant construction, ship building, bridge construction, crane construction and assembly work in metalworking shops

**Drilling ranges:**

- Spiral drill (DIN 338): max. Ø 16 mm
- Spiral drill (DIN 1897): max. Ø 16 mm
- Spiral drill (DIN 345): max. Ø 31.5 mm
- Core drill: Ø 12 – 100 mm
- Core drill cutting depth: 30 / 50 / 110 mm
- Thread cutting: up to M30

**Additional adjustment:**

- Pivot range: ± 5°
- Displacement: ± 5.0 mm
- Supply voltage: 220 – 240 V
- Complies with: VDE, CEE

**Technical Data**

|                                 |  |
|---------------------------------|--|
| <b>Magnetic holding force*:</b> | 18,000 N   |
| <b>Power consumption:</b>       | 1,840 Watt   |
| <b>Rotational speed:</b>        | 1st gear: 40 – 120 rpm<br>2nd gear: 70 – 180 rpm<br>3rd gear: 160 – 450 rpm<br>4th gear: 300 – 700 rpm |
| <b>Height:</b>                  | 600 – 680 mm   |
| <b>Stroke:</b>                  | 200 mm   |
| <b>Foot print:</b>              | 240 × 108 mm   |
| <b>Weight:</b>                  | 26 kg  |
| <b>Collet:</b>                  | Morse taper MK 3   |
| <b>Drill chuck:</b>             | 3 – 16 mm  |

\*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)



| Article No.  | Article Description | QTY |
|--------------|---------------------|-----|
| 5323 108 140 | CORE DRILL RS140E   | 1   |



Core Drilling Machine Overview

| Art.-No.<br>Technical Data             | 5323 1<br>RS 5e  | 5323 108 001<br>RS 10   | 5323 108 006<br>RS 120  | 5323 108 007<br>RS 125e  | 5323 108 130<br>RS 130e  | 5323 108 140<br>RS 140 e   |
|--|--|---|---|--|--|--|
| Mag. adhes. force                      | 10,000 N   | 10,000 N  | 18,000 N  | 18,000 N   | 18,000 N   | 18,000 N   |
| Power input                            | 1,200 Watt   | 1,120 Watt  | 1,200 Watt  | 1,200 Watt   | 1,840 Watt   | 1,840 Watt   |
| Gears                                  | 1. gear  | 1. gear   | 2. gear   | 2. gear  | 2. gear  | 4. gear  |
| Speed                                  | 140 – 350 rpm  | 450 rpm   | 250 rpm<br>450 rpm  | 100 – 250 rpm<br>180 – 450 rpm   | 40 – 120 rpm<br>160 – 450 rpm  | 40 – 120 rpm<br>70 – 180 rpm<br>160 – 450 rpm<br>300 – 700 rpm   |
| Speed control                          | yes  | no  | no  | yes  | yes  | yes  |
| Power control                          | no   | no  | no  | no   | no   | yes  |
| Clockw. and anti-<br>clockwise turning | no   | no  | no  | yes  | no   | yes  |
| Height                                 | 182 mm   | 413 – 548 mm  | 600 – 675 mm  | 600 – 675 mm   | 600 – 680 mm   | 600 – 680 mm   |
| Contact area                           | 160 × 80 mm  | 160 × 80 mm   | 240 × 108 mm  | 240 × 108 mm   | 240 × 108 mm   | 240 × 108 mm   |
| Weight                                 | 11 kg  | 13 kg   | 23 kg   | 23 kg  | 26 kg  | 26 kg  |
| Stroke                                 | 38 mm  | 135 mm  | 200 mm  | 200 mm   | 200 mm   | 200 mm   |
| Fixture                                | Weldon shaft<br>19 mm  | Weldon shaft<br>19 mm   | Morse taper<br>MK 2   | Morse taper<br>MK 2  | Morse taper<br>MK 3  | Morse taper<br>MK 3  |
| Core drill                             | Ø 12 – 35 mm   | Ø 12 – 35 mm  | Ø 12 – 60 mm  | Ø 12 – 60 mm   | Ø 12 – 100 mm  | Ø 12 – 100 mm  |
| Drill chuck                            | –  | 1 – 13 mm<br>with adapter   | 3 – 16 mm   | 3 – 16 mm  | 3 – 16 mm  | 3 – 16 mm  |
| Twist drills DIN 338                   | –  | max. Ø 10 mm  | max. Ø 16 mm  | max. Ø 16 mm   | max. Ø 16 mm   | max. Ø 16 mm   |
| Twist drills DIN 1897                  | –  | max. Ø 13 mm  | max. Ø 16 mm  | max. Ø 16 mm   | max. Ø 16 mm   | max. Ø 16 mm   |
| Twist drills DIN 345                   | –  | –   | max. Ø 23 mm  | max. Ø 23 mm   | max. Ø 31,5 mm   | max. Ø 31,5 mm   |
| Core drill cutting depth               | 30 mm  | 30 mm   | 30 / 50 / 110 mm  | 30 / 50 / 110 mm   | 30 / 50 / 110 mm   | 30 / 50 / 110 mm   |
| Power supply<br>voltage                | 220 – 240 V  | 220 – 240 V   | 220 – 240 V   | 220 – 240 V  | 220 – 240 V  | 220 – 240 V  |
| Complies with                          | VDE, CEE   | VDE, CEE  | VDE, CEE  | VDE, CEE   | VDE, CEE   | VDE, CEE   |
| Shift                                  | no   | no  | ± 5,0 mm  | ± 5,0 mm   | ± 5,0 mm   | ± 5,0 mm   |
| Swing                                  | no   | no  | ± 5°  | ± 5°   | ± 5°   | ± 5°   |
| Threading                              | no   | no  | no  | yes  | no   | yes  |
| Additional<br>support                  | no   | yes   | no  | no   | no   | no   |
| Equipment                              | Textile transport<br>bag incl.<br>2 plastic boxes<br>hex key<br>safety belt<br>Cooling fluid<br>container<br>+ holder<br>operation<br>manual | Transportcase<br>made of robust<br>plastic<br>hex key<br>safety belt<br>drill chuck<br>1 – 13 mm<br>adapter for drill<br>chuck<br>chuck support<br>weldon shaft<br>glasses<br>Cooling fluid<br>container +<br>holder<br>operation<br>manual | Transportcase<br>made of robust<br>plastic<br>Trolley<br>Taper drift<br>safety belt<br>safety belt<br>drill chuck<br>1 – 13 mm<br>Taper shank<br>MK 2 / B16<br>chuck support<br>weldon shaft<br>glasses<br>Cooling fluid<br>container +<br>holder<br>drilling paste<br>Gloves<br>Ear plugs<br>operation<br>manual | Transportcase<br>made of robust<br>plastic<br>Trolley<br>Taper drift<br>safety belt<br>drill chuck<br>1 – 13 mm<br>Taper shank<br>MK 2 / B16<br>chuck support<br>weldon shaft<br>glasses<br>Cooling fluid<br>container +<br>holder<br>drilling paste<br>Gloves<br>Ear plugs<br>operation<br>manual | Transportcase<br>made of robust<br>plastic<br>Trolley<br>Taper drift<br>safety belt<br>drill chuck<br>1 – 13 mm<br>Taper shank<br>MK 2 / B16<br>chuck support<br>weldon shaft<br>glasses<br>Cooling fluid<br>container +<br>holder<br>drilling paste<br>Gloves<br>Ear plugs<br>operation<br>manual | Transportcase<br>made of robust<br>plastic<br>Trolley<br>Taper drift<br>safety belt<br>drill chuck<br>1 – 13 mm<br>Taper shank<br>MK 2 / B16<br>chuck support<br>weldon shaft<br>glasses<br>Cooling fluid<br>container +<br>holder<br>drilling paste<br>Gloves<br>Ear plugs<br>operation<br>manual |



# HSS Core Drill with Weldon Shank, 30 mm

- Cutters: HSS
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machine:
  - up to Ø 35 mm: RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
  - from Ø 36 mm: RS 120, RS 125e, RS 130e, RS 140e



| Technical Data |                     |                 |                |                  |
|----------------|---------------------|-----------------|----------------|------------------|
| Ø mm           | Dia Weldon shank mm | Total length mm | Quantity teeth | Cutting depth mm |
| 12 – 15        | 19                  | 62              | 4              | 30               |
| 16 – 19        | 19                  | 62              | 4              | 30               |
| 20 – 25        | 19                  | 62              | 6              | 30               |
| 26 – 28        | 19                  | 62              | 7              | 30               |
| 29 – 34        | 19                  | 62              | 8              | 30               |
| 35 – 37        | 19                  | 62              | 9              | 30               |
| 38 – 41        | 19                  | 62              | 10             | 30               |
| 42 – 60        | 19                  | 62              | 12             | 30               |

**Applications:**

- Steel (T-girders, large sheets), cast steel, non-ferrous and light metals

| Article No. | Article Description   | QTY |
|-------------|-----------------------|-----|
| 5323 12     | CORE DRILL HSS 12.0MM | 1   |
| 5323 13     | CORE DRILL HSS 13.0MM | 1   |
| 5323 14     | CORE DRILL HSS 14.0MM | 1   |
| 5323 15     | CORE DRILL HSS 15.0MM | 1   |
| 5323 16     | CORE DRILL HSS 16.0MM | 1   |
| 5323 17     | CORE DRILL HSS 17.0MM | 1   |
| 5323 18     | CORE DRILL HSS 18.0MM | 1   |
| 5323 19     | CORE DRILL HSS 19.0MM | 1   |
| 5323 20     | CORE DRILL HSS 20.0MM | 1   |
| 5323 21     | CORE DRILL HSS 21.0MM | 1   |
| 5323 22     | CORE DRILL HSS 22.0MM | 1   |
| 5323 23     | CORE DRILL HSS 23.0MM | 1   |
| 5323 24     | CORE DRILL HSS 24.0MM | 1   |
| 5323 25     | CORE DRILL HSS 25.0MM | 1   |
| 5323 26     | CORE DRILL HSS 26.0MM | 1   |
| 5323 27     | CORE DRILL HSS 27.0MM | 1   |
| 5323 28     | CORE DRILL HSS 28.0MM | 1   |
| 5323 29     | CORE DRILL HSS 29.0MM | 1   |
| 5323 30     | CORE DRILL HSS 30.0MM | 1   |
| 5323 31     | CORE DRILL HSS 31.0MM | 1   |
| 5323 32     | CORE DRILL HSS 32.0MM | 1   |
| 5323 33     | CORE DRILL HSS 33.0MM | 1   |
| 5323 34     | CORE DRILL HSS 34.0MM | 1   |
| 5323 35     | CORE DRILL HSS 35.0MM | 1   |

| Article No.  | Article Description   | QTY |
|--------------|-----------------------|-----|
| 5323 108 236 | CORE DRILL HSS 36.0MM | 1   |
| 5323 108 237 | CORE DRILL HSS 37.0MM | 1   |
| 5323 108 238 | CORE DRILL HSS 38.0MM | 1   |
| 5323 108 239 | CORE DRILL HSS 39.0MM | 1   |
| 5323 108 240 | CORE DRILL HSS 40.0MM | 1   |
| 5323 108 241 | CORE DRILL HSS 41.0MM | 1   |
| 5323 108 242 | CORE DRILL HSS 42.0MM | 1   |
| 5323 108 243 | CORE DRILL HSS 43.0MM | 1   |
| 5323 108 245 | CORE DRILL HSS 45.0MM | 1   |
| 5323 108 246 | CORE DRILL HSS 46.0MM | 1   |
| 5323 108 247 | CORE DRILL HSS 47.0MM | 1   |
| 5323 108 248 | CORE DRILL HSS 48.0MM | 1   |
| 5323 108 250 | CORE DRILL HSS 50.0MM | 1   |
| 5323 108 251 | CORE DRILL HSS 51.0MM | 1   |
| 5323 108 252 | CORE DRILL HSS 52.0MM | 1   |
| 5323 108 253 | CORE DRILL HSS 53.0MM | 1   |
| 5323 108 254 | CORE DRILL HSS 54.0MM | 1   |
| 5323 108 255 | CORE DRILL HSS 55.0MM | 1   |
| 5323 108 256 | CORE DRILL HSS 56.0MM | 1   |
| 5323 108 257 | CORE DRILL HSS 57.0MM | 1   |
| 5323 108 258 | CORE DRILL HSS 58.0MM | 1   |
| 5323 108 259 | CORE DRILL HSS 59.0MM | 1   |
| 5323 108 260 | CORE DRILL HSS 60.0MM | 1   |

# Core Drill Set HSS with Weldon Shank, Ground

- 7-piece in industrial box
- Handling:**
  - Insert guide pin into core drill
  - Insert core drill into chuck and tighten Allen screws firmly
  - Ensure that core drill is correctly seated in the chuck
  - EasyLock quick-clamping device automatically adjusts core drill
  - Allows immediate drilling to final dimension, no pilot holes or center punching required
  - Core drill cutting geometry enables fast upward chip removal
  - Resilient guide pin mounted helps loosen cut pieces
  - Observe speed table and use cooling agent

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5323 90     | CORE.DR.HSS WELDON SHANK 7-PCS | 1   |

**Contents:**

- Each 1x AGR 5323: core drill HSS with Weldon shank, 30 mm Ø 12 / 14 / 16 / 18 / 20 / 22 mm
- 1x Art.-No. 5323 3: guide pin Ø 6.35 mm x 77 mm for core drill HSS



# Core Drill HSS with Weldon Shank, 50 mm

- Cutting: HSS
- CBN ground
- Cutting depth: 50 mm
- Fixture: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
  - RS 120, RS 125e, RS 130e, RS 140e



**Applications:**

- Steel (T-girders, large-sized sheets), cast steel, non-ferrous and light metal

| Article No.  | Article Description           | QTY |
|--------------|-------------------------------|-----|
| 5323 108 512 | CORE DRILL HSS 12.0MM ST 50MM | 1   |
| 5323 108 513 | CORE DRILL HSS 13.0MM ST 50MM | 1   |
| 5323 108 514 | CORE DRILL HSS 14.0MM ST 50MM | 1   |
| 5323 108 515 | CORE DRILL HSS 15.0MM ST 50MM | 1   |
| 5323 108 516 | CORE DRILL HSS 16.0MM ST 50MM | 1   |
| 5323 108 517 | CORE DRILL HSS 17.0MM ST 50MM | 1   |
| 5323 108 518 | CORE DRILL HSS 18.0MM ST 50MM | 1   |
| 5323 108 519 | CORE DRILL HSS 19.0MM ST 50MM | 1   |
| 5323 108 520 | CORE DRILL HSS 20.0MM ST 50MM | 1   |
| 5323 108 521 | CORE DRILL HSS 21.0MM ST 50MM | 1   |
| 5323 108 522 | CORE DRILL HSS 22.0MM ST 50MM | 1   |
| 5323 108 523 | CORE DRILL HSS 23.0MM ST 50MM | 1   |
| 5323 108 524 | CORE DRILL HSS 24.0MM ST 50MM | 1   |
| 5323 108 525 | CORE DRILL HSS 25.0MM ST 50MM | 1   |
| 5323 108 526 | CORE DRILL HSS 26.0MM ST 50MM | 1   |
| 5323 108 527 | CORE DRILL HSS 27.0MM ST 50MM | 1   |
| 5323 108 528 | CORE DRILL HSS 28.0MM ST 50MM | 1   |
| 5323 108 529 | CORE DRILL HSS 29.0MM ST 50MM | 1   |
| 5323 108 530 | CORE DRILL HSS 30.0MM ST 50MM | 1   |
| 5323 108 531 | CORE DRILL HSS 31.0MM ST 50MM | 1   |
| 5323 108 532 | CORE DRILL HSS 32.0MM ST 50MM | 1   |
| 5323 108 533 | CORE DRILL HSS 33.0MM ST 50MM | 1   |
| 5323 108 534 | CORE DRILL HSS 34.0MM ST 50MM | 1   |
| 5323 108 535 | CORE DRILL HSS 35.0MM ST 50MM | 1   |
| 5323 108 536 | CORE DRILL HSS 36.0MM ST 50MM | 1   |
| 5323 108 537 | CORE DRILL HSS 37.0MM ST 50MM | 1   |
| 5323 108 538 | CORE DRILL HSS 38.0MM ST 50MM | 1   |
| 5323 108 539 | CORE DRILL HSS 39.0MM ST 50MM | 1   |
| 5323 108 540 | CORE DRILL HSS 40.0MM ST 50MM | 1   |
| 5323 108 541 | CORE DRILL HSS 41.0MM ST 50MM | 1   |
| 5323 108 542 | CORE DRILL HSS 42.0MM ST 50MM | 1   |
| 5323 108 543 | CORE DRILL HSS 43.0MM ST 50MM | 1   |
| 5323 108 544 | CORE DRILL HSS 44.0MM ST 50MM | 1   |
| 5323 108 545 | CORE DRILL HSS 45.0MM ST 50MM | 1   |
| 5323 108 546 | CORE DRILL HSS 46.0MM ST 50MM | 1   |
| 5323 108 547 | CORE DRILL HSS 47.0MM ST 50MM | 1   |
| 5323 108 548 | CORE DRILL HSS 48.0MM ST 50MM | 1   |
| 5323 108 549 | CORE DRILL HSS 49.0MM ST 50MM | 1   |
| 5323 108 550 | CORE DRILL HSS 50.0MM ST 50MM | 1   |
| 5323 108 551 | CORE DRILL HSS 51.0MM ST 50MM | 1   |
| 5323 108 552 | CORE DRILL HSS 52.0MM ST 50MM | 1   |
| 5323 108 553 | CORE DRILL HSS 53.0MM ST 50MM | 1   |
| 5323 108 554 | CORE DRILL HSS 54.0MM ST 50MM | 1   |
| 5323 108 555 | CORE DRILL HSS 55.0MM ST 50MM | 1   |
| 5323 108 556 | CORE DRILL HSS 56.0MM ST 50MM | 1   |
| 5323 108 557 | CORE DRILL HSS 57.0MM ST 50MM | 1   |
| 5323 108 558 | CORE DRILL HSS 58.0MM ST 50MM | 1   |
| 5323 108 559 | CORE DRILL HSS 59.0MM ST 50MM | 1   |
| 5323 108 560 | CORE DRILL HSS 60.0MM ST 50MM | 1   |

| Technical Data |                   |                 |                |                  |
|----------------|-------------------|-----------------|----------------|------------------|
| Ø mm           | Ø Weldon shank mm | Total length mm | Quantity teeth | Cutting depth mm |
| 12 – 15        | 19                | 85              | 4              | 50               |
| 16 – 19        | 19                | 85              | 4              | 50               |
| 20 – 25        | 19                | 85              | 6              | 50               |
| 26 – 28        | 19                | 85              | 7              | 50               |
| 29 – 34        | 19                | 85              | 8              | 50               |
| 35 – 37        | 19                | 85              | 9              | 50               |
| 38 – 41        | 19                | 85              | 10             | 50               |
| 42 – 60        | 19                | 85              | 12             | 50               |

# Core Drill HSS with Weldon Shank, 30 mm

- Cutting: 5% cobalt alloy
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
  - up to Ø 35 mm: RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
  - from Ø 36 mm: RS 120, RS 125e, RS 130e, RS 140e



**Applications:**

- Steel (T-girders, large sheets), cast steel, high chrome alloyed steels such as V2VA and V4VA, non-ferrous and light metals

| Article No.    | Article Description       | QTY |
|----------------|---------------------------|-----|
| 5323 1 12      | CORE DRILL HSS CO5 12.0MM | 1   |
| 5323 1 13      | CORE DRILL HSS CO5 13.0MM | 1   |
| 5323 1 14      | CORE DRILL HSS CO5 14.0MM | 1   |
| 5323 1 15      | CORE DRILL HSS CO5 15.0MM | 1   |
| 5323 1 16      | CORE DRILL HSS CO5 16.0MM | 1   |
| 5323 1 17      | CORE DRILL HSS CO5 17.0MM | 1   |
| 5323 1 18      | CORE DRILL HSS CO5 18.0MM | 1   |
| 5323 1 19      | CORE DRILL HSS CO5 19.0MM | 1   |
| 5323 1 20      | CORE DRILL HSS CO5 20.0MM | 1   |
| 5323 1 21      | CORE DRILL HSS CO5 21.0MM | 1   |
| 5323 1 22      | CORE DRILL HSS CO5 22.0MM | 1   |
| 5323 1 23      | CORE DRILL HSS CO5 23.0MM | 1   |
| 5323 1 24      | CORE DRILL HSS CO5 24.0MM | 1   |
| 5323 1 25      | CORE DRILL HSS CO5 25.0MM | 1   |
| 5323 1 26      | CORE DRILL HSS CO5 26.0MM | 1   |
| 5323 1 27      | CORE DRILL HSS CO5 27.0MM | 1   |
| 5323 1 28      | CORE DRILL HSS CO5 28.0MM | 1   |
| 5323 1 29      | CORE DRILL HSS CO5 29.0MM | 1   |
| 5323 1 30      | CORE DRILL HSS CO5 30.0MM | 1   |
| 5323 1 31      | CORE DRILL HSS CO5 31.0MM | 1   |
| 5323 1 32      | CORE DRILL HSS CO5 32.0MM | 1   |
| 5323 1 33      | CORE DRILL HSS CO5 33.0MM | 1   |
| 5323 1 34      | CORE DRILL HSS CO5 34.0MM | 1   |
| 5323 1 35      | CORE DRILL HSS CO5 35.0MM | 1   |
| 5323 1 108 236 | CORE DRILL HSS CO5 36.0MM | 1   |
| 5323 1 108 237 | CORE DRILL HSS CO5 37.0MM | 1   |
| 5323 1 108 238 | CORE DRILL HSS CO5 38.0MM | 1   |
| 5323 1 108 239 | CORE DRILL HSS CO5 39.0MM | 1   |
| 5323 1 108 240 | CORE DRILL HSS CO5 40.0MM | 1   |
| 5323 1 108 241 | CORE DRILL HSS CO5 41.0MM | 1   |
| 5323 1 108 242 | CORE DRILL HSS CO5 42.0MM | 1   |
| 5323 1 108 243 | CORE DRILL HSS CO5 43.0MM | 1   |
| 5323 1 108 244 | CORE DRILL HSS CO5 44.0MM | 1   |
| 5323 1 108 245 | CORE DRILL HSS CO5 45.0MM | 1   |
| 5323 1 108 246 | CORE DRILL HSS CO5 46.0MM | 1   |
| 5323 1 108 247 | CORE DRILL HSS CO5 47.0MM | 1   |
| 5323 1 108 248 | CORE DRILL HSS CO5 48.0MM | 1   |
| 5323 1 108 249 | CORE DRILL HSS CO5 49.0MM | 1   |
| 5323 1 108 250 | CORE DRILL HSS CO5 50.0MM | 1   |
| 5323 1 108 251 | CORE DRILL HSS CO5 51.0MM | 1   |
| 5323 1 108 252 | CORE DRILL HSS CO5 52.0MM | 1   |
| 5323 1 108 253 | CORE DRILL HSS CO5 53.0MM | 1   |
| 5323 1 108 254 | CORE DRILL HSS CO5 54.0MM | 1   |
| 5323 1 108 255 | CORE DRILL HSS CO5 55.0MM | 1   |
| 5323 1 108 256 | CORE DRILL HSS CO5 56.0MM | 1   |
| 5323 1 108 257 | CORE DRILL HSS CO5 57.0MM | 1   |
| 5323 1 108 258 | CORE DRILL HSS CO5 58.0MM | 1   |
| 5323 1 108 259 | CORE DRILL HSS CO5 59.0MM | 1   |
| 5323 1 108 260 | CORE DRILL HSS CO5 60.0MM | 1   |

| Technical Data |                 |                 |                |                  |
|----------------|-----------------|-----------------|----------------|------------------|
| Ø mm           | Weldon shank mm | Total length mm | Quantity teeth | Cutting depth mm |
| 12 – 15        | 19              | 62              | 4              | 30               |
| 16 – 19        | 19              | 62              | 4              | 30               |
| 20 – 25        | 19              | 62              | 6              | 30               |
| 26 – 28        | 19              | 62              | 7              | 30               |
| 29 – 34        | 19              | 62              | 8              | 30               |
| 35 – 37        | 19              | 62              | 9              | 30               |
| 38 – 41        | 19              | 62              | 10             | 30               |
| 42 – 60        | 19              | 62              | 12             | 30               |

# Core Drill HSS-TiAlN with Weldon Shank, 30 mm

- Cutters: titanium-aluminium-nitride coating
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines
  - up to Ø 35 mm: RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
  - from Ø 36 mm: RS 120, RS 125e, RS 130e, RS 140e



**Applications:**

- Steel (T-girders, large sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metals

| Article No.    | Article Description         | QTY |
|----------------|-----------------------------|-----|
| 5323 2 12      | CORE DRILL HSS TIALN 12.0MM | 1   |
| 5323 2 13      | CORE DRILL HSS TIALN 13.0MM | 1   |
| 5323 2 14      | CORE DRILL HSS TIALN 14.0MM | 1   |
| 5323 2 15      | CORE DRILL HSS TIALN 15.0MM | 1   |
| 5323 2 16      | CORE DRILL HSS TIALN 16.0MM | 1   |
| 5323 2 17      | CORE DRILL HSS TIALN 17.0MM | 1   |
| 5323 2 18      | CORE DRILL HSS TIALN 18.0MM | 1   |
| 5323 2 19      | CORE DRILL HSS TIALN 19.0MM | 1   |
| 5323 2 20      | CORE DRILL HSS TIALN 20.0MM | 1   |
| 5323 2 21      | CORE DRILL HSS TIALN 21.0MM | 1   |
| 5323 2 22      | CORE DRILL HSS TIALN 22.0MM | 1   |
| 5323 2 23      | CORE DRILL HSS TIALN 23.0MM | 1   |
| 5323 2 24      | CORE DRILL HSS TIALN 24.0MM | 1   |
| 5323 2 25      | CORE DRILL HSS TIALN 25.0MM | 1   |
| 5323 2 26      | CORE DRILL HSS TIALN 26.0MM | 1   |
| 5323 2 27      | CORE DRILL HSS TIALN 27.0MM | 1   |
| 5323 2 28      | CORE DRILL HSS TIALN 28.0MM | 1   |
| 5323 2 29      | CORE DRILL HSS TIALN 29.0MM | 1   |
| 5323 2 30      | CORE DRILL HSS TIALN 30.0MM | 1   |
| 5323 2 31      | CORE DRILL HSS TIALN 31.0MM | 1   |
| 5323 2 32      | CORE DRILL HSS TIALN 32.0MM | 1   |
| 5323 2 33      | CORE DRILL HSS TIALN 33.0MM | 1   |
| 5323 2 34      | CORE DRILL HSS TIALN 34.0MM | 1   |
| 5323 2 35      | CORE DRILL HSS TIALN 35.0MM | 1   |
| 5323 2 108 236 | CORE DRILL HSS TIALN 36.0MM | 1   |
| 5323 2 108 237 | CORE DRILL HSS TIALN 37.0MM | 1   |
| 5323 2 108 238 | CORE DRILL HSS TIALN 38.0MM | 1   |
| 5323 2 108 239 | CORE DRILL HSS TIALN 39.0MM | 1   |
| 5323 2 108 240 | CORE DRILL HSS TIALN 40.0MM | 1   |
| 5323 2 108 241 | CORE DRILL HSS TIALN 41.0MM | 1   |
| 5323 2 108 242 | CORE DRILL HSS TIALN 42.0MM | 1   |
| 5323 2 108 243 | CORE DRILL HSS TIALN 43.0MM | 1   |
| 5323 2 108 244 | CORE DRILL HSS TIALN 44.0MM | 1   |
| 5323 2 108 245 | CORE DRILL HSS TIALN 45.0MM | 1   |
| 5323 2 108 246 | CORE DRILL HSS TIALN 46.0MM | 1   |
| 5323 2 108 247 | CORE DRILL HSS TIALN 47.0MM | 1   |
| 5323 2 108 248 | CORE DRILL HSS TIALN 48.0MM | 1   |
| 5323 2 108 249 | CORE DRILL HSS TIALN 49.0MM | 1   |
| 5323 2 108 250 | CORE DRILL HSS TIALN 50.0MM | 1   |
| 5323 2 108 251 | CORE DRILL HSS TIALN 51.0MM | 1   |
| 5323 2 108 252 | CORE DRILL HSS TIALN 52.0MM | 1   |
| 5323 2 108 253 | CORE DRILL HSS TIALN 53.0MM | 1   |
| 5323 2 108 254 | CORE DRILL HSS TIALN 54.0MM | 1   |
| 5323 2 108 255 | CORE DRILL HSS TIALN 55.0MM | 1   |
| 5323 2 108 256 | CORE DRILL HSS TIALN 56.0MM | 1   |
| 5323 2 108 257 | CORE DRILL HSS TIALN 57.0MM | 1   |
| 5323 2 108 258 | CORE DRILL HSS TIALN 58.0MM | 1   |
| 5323 2 108 259 | CORE DRILL HSS TIALN 59.0MM | 1   |
| 5323 2 108 260 | CORE DRILL HSS TIALN 60.0MM | 1   |

| Technical Data |                 |                 |                |                  |
|----------------|-----------------|-----------------|----------------|------------------|
| Ø mm           | Weldon shank mm | Total length mm | Quantity teeth | Cutting depth mm |
| 12 – 15        | 19              | 62              | 4              | 30               |
| 16 – 19        | 19              | 62              | 4              | 30               |
| 20 – 25        | 19              | 62              | 6              | 30               |
| 26 – 28        | 19              | 62              | 7              | 30               |
| 29 – 34        | 19              | 62              | 8              | 30               |
| 35 – 37        | 19              | 62              | 9              | 30               |
| 38 – 41        | 19              | 62              | 10             | 30               |
| 42 – 60        | 19              | 62              | 12             | 30               |

# Core Drill HSS-E with Quick IN Shank, 35 mm

- Cutting: Alloyed with cobalt (5%)
- CBN ground
- Cutting depth: 35 mm
- Fixture: Quick IN shank Ø 18 mm
- Right-hand cutting

**Applications:**

- Steel (T-girders, large-sized sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metal



| Article No.    | Article Description            | QTY |
|----------------|--------------------------------|-----|
| 5323 1 108 912 | CORE DRILL HSS CO5 12.0MM Q.IN | 1   |
| 5323 1 108 913 | CORE DRILL HSS CO5 13.0MM Q.IN | 1   |
| 5323 1 108 914 | CORE DRILL HSS CO5 14.0MM Q.IN | 1   |
| 5323 1 108 915 | CORE DRILL HSS CO5 15.0MM Q.IN | 1   |
| 5323 1 108 916 | CORE DRILL HSS CO5 16.0MM Q.IN | 1   |
| 5323 1 108 917 | CORE DRILL HSS CO5 17.0MM Q.IN | 1   |
| 5323 1 108 918 | CORE DRILL HSS CO5 18.0MM Q.IN | 1   |
| 5323 1 108 919 | CORE DRILL HSS CO5 19.0MM Q.IN | 1   |
| 5323 1 108 920 | CORE DRILL HSS CO5 20.0MM Q.IN | 1   |
| 5323 1 108 921 | CORE DRILL HSS CO5 21.0MM Q.IN | 1   |
| 5323 1 108 922 | CORE DRILL HSS CO5 22.0MM Q.IN | 1   |
| 5323 1 108 923 | CORE DRILL HSS CO5 23.0MM Q.IN | 1   |
| 5323 1 108 924 | CORE DRILL HSS CO5 24.0MM Q.IN | 1   |
| 5323 1 108 925 | CORE DRILL HSS CO5 25.0MM Q.IN | 1   |
| 5323 1 108 926 | CORE DRILL HSS CO5 26.0MM Q.IN | 1   |
| 5323 1 108 927 | CORE DRILL HSS CO5 27.0MM Q.IN | 1   |
| 5323 1 108 928 | CORE DRILL HSS CO5 28.0MM Q.IN | 1   |
| 5323 1 108 929 | CORE DRILL HSS CO5 29.0MM Q.IN | 1   |
| 5323 1 108 930 | CORE DRILL HSS CO5 30.0MM Q.IN | 1   |
| 5323 1 108 932 | CORE DRILL HSS CO5 32.0MM Q.IN | 1   |
| 5323 1 108 934 | CORE DRILL HSS CO5 34.0MM Q.IN | 1   |
| 5323 1 108 935 | CORE DRILL HSS CO5 35.0MM Q.IN | 1   |
| 5323 1 108 936 | CORE DRILL HSS CO5 36.0MM Q.IN | 1   |
| 5323 1 108 940 | CORE DRILL HSS CO5 40.0MM Q.IN | 1   |
| 5323 1 108 943 | CORE DRILL HSS CO5 43.0MM Q.IN | 1   |
| 5323 1 108 944 | CORE DRILL HSS CO5 44.0MM Q.IN | 1   |
| 5323 1 108 945 | CORE DRILL HSS CO5 45.0MM Q.IN | 1   |
| 5323 1 108 950 | CORE DRILL HSS CO5 50.0MM Q.IN | 1   |
| 5323 1 108 955 | CORE DRILL HSS CO5 55.0MM Q.IN | 1   |
| 5323 1 108 958 | CORE DRILL HSS CO5 58.0MM Q.IN | 1   |
| 5323 1 108 959 | CORE DRILL HSS CO5 59.0MM Q.IN | 1   |
| 5323 1 108 960 | CORE DRILL HSS CO5 60.0MM Q.IN | 1   |

| Technical Data |                     |                 |                |                  |
|----------------|---------------------|-----------------|----------------|------------------|
| Ø mm           | Ø Quick IN Shank mm | Total length mm | Quantity teeth | Cutting depth mm |
| 12 – 15        | 18                  | 77              | 4              | 35               |
| 16 – 19        | 18                  | 77              | 5              | 35               |
| 20 – 25        | 18                  | 77              | 6              | 35               |
| 26 – 28        | 18                  | 77              | 7              | 35               |
| 29 – 34        | 18                  | 77              | 8              | 35               |
| 35 – 37        | 18                  | 77              | 9              | 35               |
| 38 – 41        | 18                  | 77              | 10             | 35               |
| 42 – 60        | 18                  | 77              | 12             | 35               |



# Core Drill Carbide with Quick IN Shank, 35/50 mm

- Cutting: carbide
- CBN ground
- Cutting depth
  - up to Ø 32 mm: 35 mm
  - from Ø 33 mm: 50 mm
- Fixture: Quick IN Shank Ø 18 mm
- Right-hand cutting

**Applications:**

- Steel (T-girders, large-sized sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metal



| Article No.   | Article Description           | QTY |
|---------------|-------------------------------|-----|
| 5323 108 1112 | CORE DRILL HM 12.0MM QUICK IN | 1   |
| 5323 108 1113 | CORE DRILL HM 13.0MM QUICK IN | 1   |
| 5323 108 1114 | CORE DRILL HM 14.0MM QUICK IN | 1   |
| 5323 108 1115 | CORE DRILL HM 15.0MM QUICK IN | 1   |
| 5323 108 1116 | CORE DRILL HM 16.0MM QUICK IN | 1   |
| 5323 108 1117 | CORE DRILL HM 17.0MM QUICK IN | 1   |
| 5323 108 1118 | CORE DRILL HM 18.0MM QUICK IN | 1   |
| 5323 108 1119 | CORE DRILL HM 19.0MM QUICK IN | 1   |
| 5323 108 1120 | CORE DRILL HM 20.0MM QUICK IN | 1   |
| 5323 108 1121 | CORE DRILL HM 21.0MM QUICK IN | 1   |
| 5323 108 1122 | CORE DRILL HM 22.0MM QUICK IN | 1   |
| 5323 108 1123 | CORE DRILL HM 23.0MM QUICK IN | 1   |
| 5323 108 1124 | CORE DRILL HM 24.0MM QUICK IN | 1   |
| 5323 108 1125 | CORE DRILL HM 25.0MM QUICK IN | 1   |
| 5323 108 1126 | CORE DRILL HM 26.0MM QUICK IN | 1   |
| 5323 108 1127 | CORE DRILL HM 27.0MM QUICK IN | 1   |
| 5323 108 1128 | CORE DRILL HM 28.0MM QUICK IN | 1   |
| 5323 108 1129 | CORE DRILL HM 29.0MM QUICK IN | 1   |
| 5323 108 1130 | CORE DRILL HM 30.0MM QUICK IN | 1   |
| 5323 108 1131 | CORE DRILL HM 31.0MM QUICK IN | 1   |
| 5323 108 1132 | CORE DRILL HM 32.0MM QUICK IN | 1   |
| 5323 108 1133 | CORE DRILL HM 33.0MM QUICK IN | 1   |
| 5323 108 1134 | CORE DRILL HM 34.0MM QUICK IN | 1   |
| 5323 108 1135 | CORE DRILL HM 35.0MM QUICK IN | 1   |
| 5323 108 1136 | CORE DRILL HM 36.0MM QUICK IN | 1   |
| 5323 108 1137 | CORE DRILL HM 37.0MM QUICK IN | 1   |
| 5323 108 1138 | CORE DRILL HM 38.0MM QUICK IN | 1   |
| 5323 108 1139 | CORE DRILL HM 39.0MM QUICK IN | 1   |
| 5323 108 1140 | CORE DRILL HM 40.0MM QUICK IN | 1   |
| 5323 108 1141 | CORE DRILL HM 41.0MM QUICK IN | 1   |
| 5323 108 1142 | CORE DRILL HM 42.0MM QUICK IN | 1   |
| 5323 108 1143 | CORE DRILL HM 43.0MM QUICK IN | 1   |
| 5323 108 1144 | CORE DRILL HM 44.0MM QUICK IN | 1   |
| 5323 108 1145 | CORE DRILL HM 45.0MM QUICK IN | 1   |
| 5323 108 1146 | CORE DRILL HM 46.0MM QUICK IN | 1   |
| 5323 108 1147 | CORE DRILL HM 47.0MM QUICK IN | 1   |
| 5323 108 1148 | CORE DRILL HM 48.0MM QUICK IN | 1   |
| 5323 108 1149 | CORE DRILL HM 49.0MM QUICK IN | 1   |
| 5323 108 1150 | CORE DRILL HM 50.0MM QUICK IN | 1   |
| 5323 108 1151 | CORE DRILL HM 51.0MM QUICK IN | 1   |
| 5323 108 1152 | CORE DRILL HM 52.0MM QUICK IN | 1   |
| 5323 108 1153 | CORE DRILL HM 53.0MM QUICK IN | 1   |
| 5323 108 1154 | CORE DRILL HM 54.0MM QUICK IN | 1   |
| 5323 108 1155 | CORE DRILL HM 55.0MM QUICK IN | 1   |
| 5323 108 1160 | CORE DRILL HM 60.0MM QUICK IN | 1   |
| 5323 108 1161 | CORE DRILL HM 61.0MM QUICK IN | 1   |
| 5323 108 1163 | CORE DRILL HM 63.0MM QUICK IN | 1   |
| 5323 108 1165 | CORE DRILL HM 65.0MM QUICK IN | 1   |
| 5323 108 1168 | CORE DRILL HM 68.0MM QUICK IN | 1   |
| 5323 108 1170 | CORE DRILL HM 70.0MM QUICK IN | 1   |
| 5323 108 1171 | CORE DRILL HM 71.0MM QUICK IN | 1   |
| 5323 108 1175 | CORE DRILL HM 75.0MM QUICK IN | 1   |
| 5323 108 1180 | CORE DRILL HM 80.0MM QUICK IN | 1   |

| Technical Data |                  |              |          |               |
|----------------|------------------|--------------|----------|---------------|
| Ø              | Ø Quick IN Shank | Total length | Quantity | Cutting depth |
| mm             | mm               | mm           | teeth    | mm            |
| 12 – 15        | 18               | 77           | 4        | 35            |
| 16 – 19        | 18               | 77           | 5        | 35            |
| 20 – 32        | 18               | 77           | 6        | 35            |
| 33 – 38        | 18               | 105          | 6        | 50            |
| 39 – 80        | 18               | 105          | 8        | 50            |

# Core Drill, Carbide with Weldon Shank, 50 mm

- Cutting: carbide
- Cutting depth: 50 mm
- Fixture: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
  - RS 120, RS 125e, RS 130e, RS 140e

**Applications:**

- Hardox/Weldox steel, steel (T-girders, large-sized sheets), cast steel, high chrome steels such as V2A and V4A, non-ferrous and light metal



| Article No.  | Article Description          | QTY |
|--------------|------------------------------|-----|
| 5323 108 718 | CORE DRILL HM 18.0MM ST 50MM | 1   |
| 5323 108 719 | CORE DRILL HM 19.0MM ST 50MM | 1   |
| 5323 108 720 | CORE DRILL HM 20.0MM ST 50MM | 1   |
| 5323 108 721 | CORE DRILL HM 21.0MM ST 50MM | 1   |
| 5323 108 722 | CORE DRILL HM 22.0MM ST 50MM | 1   |
| 5323 108 723 | CORE DRILL HM 23.0MM ST 50MM | 1   |
| 5323 108 724 | CORE DRILL HM 24.0MM ST 50MM | 1   |
| 5323 108 725 | CORE DRILL HM 25.0MM ST 50MM | 1   |
| 5323 108 726 | CORE DRILL HM 26.0MM ST 50MM | 1   |
| 5323 108 727 | CORE DRILL HM 27.0MM ST 50MM | 1   |
| 5323 108 728 | CORE DRILL HM 28.0MM ST 50MM | 1   |
| 5323 108 729 | CORE DRILL HM 29.0MM ST 50MM | 1   |
| 5323 108 730 | CORE DRILL HM 30.0MM ST 50MM | 1   |
| 5323 108 731 | CORE DRILL HM 31.0MM ST 50MM | 1   |
| 5323 108 732 | CORE DRILL HM 32.0MM ST 50MM | 1   |
| 5323 108 733 | CORE DRILL HM 33.0MM ST 50MM | 1   |
| 5323 108 734 | CORE DRILL HM 34.0MM ST 50MM | 1   |
| 5323 108 735 | CORE DRILL HM 35.0MM ST 50MM | 1   |
| 5323 108 736 | CORE DRILL HM 36.0MM ST 50MM | 1   |
| 5323 108 737 | CORE DRILL HM 37.0MM ST 50MM | 1   |
| 5323 108 738 | CORE DRILL HM 38.0MM ST 50MM | 1   |
| 5323 108 739 | CORE DRILL HM 39.0MM ST 50MM | 1   |
| 5323 108 740 | CORE DRILL HM 40.0MM ST 50MM | 1   |
| 5323 108 741 | CORE DRILL HM 41.0MM ST 50MM | 1   |
| 5323 108 742 | CORE DRILL HM 42.0MM ST 50MM | 1   |
| 5323 108 743 | CORE DRILL HM 43.0MM ST 50MM | 1   |
| 5323 108 744 | CORE DRILL HM 44.0MM ST 50MM | 1   |
| 5323 108 745 | CORE DRILL HM 45.0MM ST 50MM | 1   |
| 5323 108 746 | CORE DRILL HM 46.0MM ST 50MM | 1   |
| 5323 108 747 | CORE DRILL HM 47.0MM ST 50MM | 1   |
| 5323 108 748 | CORE DRILL HM 48.0MM ST 50MM | 1   |
| 5323 108 749 | CORE DRILL HM 49.0MM ST 50MM | 1   |
| 5323 108 750 | CORE DRILL HM 50.0MM ST 50MM | 1   |

| Technical Data |                |              |          |               |
|----------------|----------------|--------------|----------|---------------|
| Ø              | Ø Weldon shank | Total length | Quantity | Cutting depth |
| mm             | mm             | mm           | teeth    | mm            |
| 18 – 35        | 19             | 93           | 6        | 50            |
| 36 – 50        | 19             | 93           | 9        | 50            |

# Core Drill Carbide with Mounting Thread, 50 mm

- Cutting: carbide
- Cutting depth: 50 mm
- Fixture: thread M18 x 6 P1.5
- Right-hand cutting
- Suitable for core drilling machines:
  - RS 120, RS 125e, RS 130e, RS 140e



**Applications:**

- Steel (T-girders, large-sized sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metal

| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5323 108 012 | CORE DRILL HM12.0MM MOUNT.THR. | 1   |
| 5323 108 013 | CORE DRILL HM13.0MM MOUNT.THR. | 1   |
| 5323 108 014 | CORE DRILL HM14.0MM MOUNT.THR. | 1   |
| 5323 108 015 | CORE DRILL HM15.0MM MOUNT.THR. | 1   |
| 5323 108 016 | CORE DRILL HM16.0MM MOUNT.THR. | 1   |
| 5323 108 017 | CORE DRILL HM17.0MM MOUNT.THR. | 1   |
| 5323 108 018 | CORE DRILL HM18.0MM MOUNT.THR. | 1   |
| 5323 108 019 | CORE DRILL HM19.0MM MOUNT.THR. | 1   |
| 5323 108 020 | CORE DRILL HM20.0MM MOUNT.THR. | 1   |
| 5323 108 022 | CORE DRILL HM22.0MM MOUNT.THR. | 1   |
| 5323 108 025 | CORE DRILL HM25.0MM MOUNT.THR. | 1   |
| 5323 108 027 | CORE DRILL HM27.0MM MOUNT.THR. | 1   |
| 5323 108 030 | CORE DRILL HM30.0MM MOUNT.THR. | 1   |
| 5323 108 031 | CORE DRILL HM31.0MM MOUNT.THR. | 1   |
| 5323 108 032 | CORE DRILL HM32.0MM MOUNT.THR. | 1   |
| 5323 108 033 | CORE DRILL HM33.0MM MOUNT.THR. | 1   |
| 5323 108 034 | CORE DRILL HM34.0MM MOUNT.THR. | 1   |
| 5323 108 036 | CORE DRILL HM36.0MM MOUNT.THR. | 1   |
| 5323 108 037 | CORE DRILL HM37.0MM MOUNT.THR. | 1   |
| 5323 108 038 | CORE DRILL HM38.0MM MOUNT.THR. | 1   |
| 5323 108 039 | CORE DRILL HM39.0MM MOUNT.THR. | 1   |
| 5323 108 040 | CORE DRILL HM40.0MM MOUNT.THR. | 1   |
| 5323 108 042 | CORE DRILL HM42.0MM MOUNT.THR. | 1   |
| 5323 108 043 | CORE DRILL HM43.0MM MOUNT.THR. | 1   |
| 5323 108 045 | CORE DRILL HM45.0MM MOUNT.THR. | 1   |
| 5323 108 046 | CORE DRILL HM46.0MM MOUNT.THR. | 1   |
| 5323 108 047 | CORE DRILL HM47.0MM MOUNT.THR. | 1   |
| 5323 108 048 | CORE DRILL HM48.0MM MOUNT.THR. | 1   |
| 5323 108 049 | CORE DRILL HM49.0MM MOUNT.THR. | 1   |
| 5323 108 050 | CORE DRILL HM50.0MM MOUNT.THR. | 1   |
| 5323 108 051 | CORE DRILL HM51.0MM MOUNT.THR. | 1   |
| 5323 108 052 | CORE DRILL HM52.0MM MOUNT.THR. | 1   |
| 5323 108 053 | CORE DRILL HM53.0MM MOUNT.THR. | 1   |
| 5323 108 054 | CORE DRILL HM54.0MM MOUNT.THR. | 1   |
| 5323 108 055 | CORE DRILL HM55.0MM MOUNT.THR. | 1   |
| 5323 108 060 | CORE DRILL HM60.0MM MOUNT.THR. | 1   |
| 5323 108 061 | CORE DRILL HM61.0MM MOUNT.THR. | 1   |
| 5323 108 063 | CORE DRILL HM63.0MM MOUNT.THR. | 1   |
| 5323 108 065 | CORE DRILL HM65.0MM MOUNT.THR. | 1   |
| 5323 108 070 | CORE DRILL HM70.0MM MOUNT.THR. | 1   |
| 5323 108 071 | CORE DRILL HM71.0MM MOUNT.THR. | 1   |
| 5323 108 080 | CORE DRILL HM80.0MM MOUNT.THR. | 1   |

| Technical Data |                 |                 |                |                  |
|----------------|-----------------|-----------------|----------------|------------------|
| Ø mm           | For Tool holder | Total length mm | Quantity teeth | Cutting depth mm |
| 12 – 17        | MT 2 / MT 3     | 82              | 4              | 50               |
| 18 – 38        | MT 2 / MT 3     | 82              | 6              | 50               |
| 39 – 75        | MT 2 / MT 3     | 82              | 8              | 50               |
| 80             | MT 2 / MT 3     | 82              | 10             | 50               |

## Solid HSS Drill with Weldon Shank, 30 mm

- Cutters: HSS
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
  - RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
- Slotted 3-cutter geometry provides for extremely high stability of the solid drill and prevents risk of breakage of the cutting edge caused by overstraining or jamming of chippings

**Applications:**

- Steel (T-girders, large sheets), cast steel, non-ferrous and light metals



| Technical Data |                   |                 |                  |
|----------------|-------------------|-----------------|------------------|
| Ø mm           | Weldon shank Ø mm | Total length mm | Cutting depth mm |
| 1 – 15         | 19                | 64              | 30               |

| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5323 3 10   | SOLID DRILL HSS 10.0MM | 1   |
| 5323 3 11   | SOLID DRILL HSS 11.0MM | 1   |
| 5323 3 12   | SOLID DRILL HSS 12.0MM | 1   |

| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5323 3 13   | SOLID DRILL HSS 13.0MM | 1   |
| 5323 3 14   | SOLID DRILL HSS 14.0MM | 1   |
| 5323 3 15   | SOLID DRILL HSS 15.0MM | 1   |

## Solid Drill HSS with Quick IN Shank, 30 mm

- Cutting: HSS
- CBN ground
- Cutting depth: 30 mm
- Fixture: Quick IN shank Ø 18 mm
- Right-hand cutting
- Suitable for core drilling machines with tool holder Quick IN shank

**Applications:**

- Steel (T-girders, large-sized sheets), cast steel, non-ferrous and light metals
- Slotted 3-cutting geometry provides for extreme high stability of solid drill and prevents risk of breakage of the cutting edge caused by overstraining or seizing



| Technical Data |                     |                 |                  |
|----------------|---------------------|-----------------|------------------|
| Ø mm           | Ø Quick IN shank mm | Total length mm | Cutting depth mm |
| 10 – 15        | 18                  | 64              | 30               |

| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5323 108 1223 | SOLID DRILL HSS13.0MM QUICK IN | 1   |
| 5323 108 1224 | SOLID DRILL HSS14.0MM QUICK IN | 1   |
| 5323 108 1225 | SOLID DRILL HSS15.0MM QUICK IN | 1   |

# Vacuum Clamping Plate w. Compressed-air Connection

- Makes application of magnetic column drill machines on non-magnetic surfaces possible

**Application:**

- To achieve maximum adhesive force the area to be treated must be free of dust, tinter, loosen rust and residuals of fillings
- For safety reasons use the vacuum plate in horizontal position



**Technical Data**

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Length:</b>                | 400 mm (16")                        |
| <b>Width:</b>                 | 153 mm (6")                         |
| <b>Height:</b>                | 100 mm (4")                         |
| <b>Weight:</b>                | 2.4 kg (5.3 lbs)                    |
| <b>Working pressure min.:</b> | 4.5 bar (65 PSI)                    |
| <b>Working pressure max.:</b> | 8 bar (120 PSI)                     |
| <b>Air consumption:</b>       | 60 l/min<br>2 CFM at 6 bar (85 PSI) |

| Article No.  | Article Description   | QTY |
|--------------|-----------------------|-----|
| 5323 108 113 | VACUUM CLAMPING PLATE | 1   |

# Pipe Clamping Device

- Makes application of magnetic column drill machines on pipes with Ø 50 - 500 mm possible

**Application:**

- For safety reasons the Pipe Clamping Device should only been used in horizontal position



**Technical Data**

|                           |                  |
|---------------------------|------------------|
| <b>Length:</b>            | 220 mm (8.7")    |
| <b>Width:</b>             | 130 mm (5.1")    |
| <b>Height:</b>            | 28 mm (1.1")     |
| <b>Tension belt:</b>      | 2 mm (1.1")      |
| <b>Weight:</b>            | 4.4 kg (9.7 lbs) |
| <b>Tensioning medium:</b> | ratchet          |

| Article No.  | Article Description  | QTY |
|--------------|----------------------|-----|
| 5323 108 114 | PIPE CLAMPING DEVICE | 1   |



# Quick-change Chuck - Automatic Easy Lock

- For core drilling machines with Weldon shank Ø 19 mm (3/4")

| Technical Data |                                   |          |
|----------------|-----------------------------------|----------|
| Art.-No.       | For core drilling machine         | For Ø mm |
| 5323 108 312   | RS 20 and RS 25e with MK 2 shank  | 10 – 60  |
| 5323 108 313   | RS 30e and RS 40e with MK 3 shank | 10 – 60  |

| Article No.  | Article Description          | QTY |
|--------------|------------------------------|-----|
| 5323 108 312 | EASY LOCK 10.0-60.0MM KF WDS | 1   |
| 5323 108 313 | EASY LOCK KF WDS             | 1   |

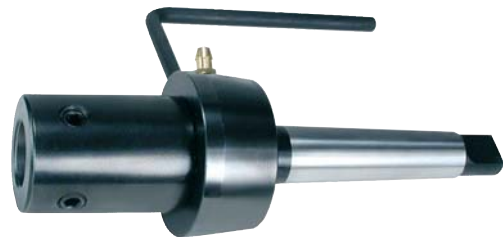


# Tool Holder with Weldon Shank

- For core drilling machines with Weldon shank Ø 19 mm (3/4")

| Technical Data |                                     |          |
|----------------|-------------------------------------|----------|
| Art.-No.       | For core drilling machines          | For Ø mm |
| 5323 108 302   | MT 2 shank, cutting depth: 30/50 mm | 10 – 60  |
| 5323 108 303   | MT 3 shank, cutting depth: 30/50 mm | 10 – 60  |

| Article No.  | Article Description    | QTY |
|--------------|------------------------|-----|
| 5323 108 302 | TOOL HOLDER MT2 KF WDS | 1   |
| 5323 108 303 | TOOL HOLDER MT3 KF WDS | 1   |



## Tool Holder Weldon Shank with Internal Cooling

- For core drilling machines with Weldon shank Ø 19 mm (3/4")
- For cutting depth: 30 / 50 mm
- For drill with Ø 10 – 60 mm



| Article No.  | Article Description    | QTY |
|--------------|------------------------|-----|
| 5323 108 315 | TOOL HOLDER WDS MT2 IK | 1   |
| 5323 108 316 | TOOL HOLDER WDS MT3 IK | 1   |

## Tool Holder Mounting Thread

- For core drill with mounting thread M18 x 6 P1.5

### Technical Data

| Art.-No.     | For core drill | For Ø mm |
|--------------|----------------|----------|
| 5323 108 102 | MT 2 shank     | 12 – 80  |
| 5323 108 103 | MT 3 shank     | 12 – 80  |



| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5323 108 102 | TOOL HOLDER MT2 KF MOUN.THREAD | 1   |
| 5323 108 103 | TOOL HOLDER MT3 KF MOUN.THREAD | 1   |

## Tool Holder Mount. Thread with Intern. Cooling

- For core drill with mounting thread M18 x 6 P1.5

### Technical Data

| Art.-No.     | For core drill | For Ø mm |
|--------------|----------------|----------|
| 5323 108 104 | MT 2 shank     | 12 – 80  |
| 5323 108 105 | MT 3 shank     | 12 – 80  |



| Article No.  | Article Description           | QTY |
|--------------|-------------------------------|-----|
| 5323 108 104 | TOOL HOLD.MT2 IK MOUNT.THREAD | 1   |
| 5323 108 105 | TOOL HOLD.MT3 IK MOUNT.THREAD | 1   |

## Adaptor with Threaded Shank M14

- For core drilling machine: RS 10
- For drill chuck with mounting thread 1/2" UNF

| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5323 108 115 | ADAPT.W.THR.SHANK M14 FOR RS10 | 1   |



## Adaptor with Weldon Shank

- For core drilling machines:
  - RS 10, RS 20, RS 120, RS 25e, RS 125e, RS 30e, RS130e, RS 40e, RS 140e

**Art.-No. 5323 108 108:**

- For core drill with mounting thread M18 x 6 P1.5

**Art.-No. 5323 108 109:**

- For drill chuck mounting thread 1/2" UNF

**Art.-No. 5323 108 126:**

- For core drill for Quick IN shank Ø 18 mm

| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5323 108 108 | ADAPTER W.WDS FOR MOUNT.THREAD | 1   |
| 5323 108 109 | ADAPTER W.WDS FOR DRILL CHUCK  | 1   |
| 5323 108 126 | ADAPTER WITH WDS FOR QUICK IN  | 1   |



5323 108 108



5323 108 109



5323 108 126

## Adapter with Quick IN Shank

**Art.-No. 5323 108 111:**

- For core drill with mounting thread M18 x 6 P1.5

**Art.-No. 5323 108 118:**

- For core drill with Weldon shank Ø 19 mm (3/4")

| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5323 108 111 | ADAPT.WITH Q.IN FOR MOUNT.THRE | 1   |
| 5323 108 118 | ADAPTOR WITH QUICK IN FOR WDS  | 1   |



5323 108 111



5323 108 118

# Guide Pins for Core Drill

| Technical Data |   |                      |
|----------------|---|----------------------|
| Art.-No.       | Characteristics   | For cutting depth mm |
| 5323 108 310   | for Step Drill HSS<br>Ø 6.35 × 95 mm<br>with Weldon-/Quick IN Shank         | 15                   |
| 5323 108 306   | for core drill HSS and HM<br>Ø 6.35 × 87 mm<br>with Quick IN Shank          | 35                   |
| 5323 3         | for core drill HSS<br>Ø 6.35 × 77 mm<br>with Weldon shank                   | 30                   |
| 5323 108 305   | for core drill HSS<br>Ø 6.35 × 102 mm<br>with Weldon shank                  | 50                   |
| 5323 108 110   | for core drill HSS and HM<br>Ø 6.35 × 123 mm<br>with Weldon-/Quick IN Shank | 50 + Adaptor         |
| 5323 108 701   | for core drill HM<br>Ø 8 × 112 mm<br>with Weldon shank                      | 50                   |



| Article No.  | Article Description           | QTY |
|--------------|-------------------------------|-----|
| 5323 108 310 | GUIDE PIN FOR STEP DRILL HSS  | 1   |
| 5323 108 306 | GUIDE PIN FOR HSS+HM QUICK IN | 1   |
| 5323 3       | GUIDE PIN FOR CORE DRILL HSS  | 1   |
| 5323 108 305 | GUIDE PIN FOR HSS 102MM       | 1   |
| 5323 108 110 | GUIDE PIN FOR HSS+HM WDS/QIN  | 1   |
| 5323 108 701 | GUIDE PIN FOR HM WDS 8X11.2MM | 1   |

# Drill Chuck

- For core drilling machines:
  - RS 10, RS 20, RS 120, RS 25e, RS 125e, RS 30e, RS 130e, RS 40e, RS 140e

| Technical Data |   |                    |
|----------------|---|--------------------|
| Art.-No.       | For core drilling machines                              | Ø clamping area mm |
| 5323 108 116   | RS 10<br>with mounting thread 1/2" UNF                  | 1 - 13             |
| 5323 108 117   | RS 20, RS 25e, RS 30e, RS 40e<br>with taper fixture B16 | 3 - 16             |



| Article No.  | Article Description  | QTY |
|--------------|----------------------|-----|
| 5323 108 116 | DRILL CHUCK 1.0-13MM | 1   |
| 5323 108 117 | DRILL CHUCK 3.0-16MM | 1   |

# Morse Taper Mandrel and Drill Sleeve

- For core drilling machines:
  - RS 20, RS 120, RS 25e, RS 125e, RS 30e, RS 130e, RS 40e, RS 140e

| Technical Data |  |
|----------------|--|
| Art.-No.       | Taper mandrel                                  |
| 5597 216       | MT 2<br>for drill chuck with taper fixture B16 |
| 5597 316       | MT 3<br>for drill chuck with taper fixture B16 |
| 5512 32        | MT 3 on MT 2                                   |



5597 2 16



5512 32

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5597 2 16   | TAPER SHANK DIN238 MT 2-B 16 | 1   |
| 5597 3 16   | TAPER SHANK DIN238 MT 3-B 16 | 1   |
| 5512 32     | MORSE TAPER RED.SLEEVE A3/12 | 1   |

# Coolant Bottle

- Filling quantity max. 500 ml

**Technical Data**

**Art.-No.**

|              |                     |
|--------------|---------------------|
| 5323 108 101 | with sprayer        |
| 5323 108 122 | with shut-off valve |

| Article No.  | Article Description           | QTY |
|--------------|-------------------------------|-----|
| 5323 108 101 | COOLANT BOTTLE WITH SPRAYER   | 1   |
| 5323 108 122 | COOLANT B.WITH SHUT-OFF VALVE | 1   |



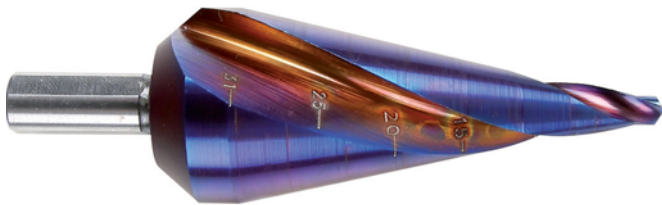


# Cone Cutter HSS, MULTI-TT FORCH\*\*\*\*\*

- Cone cutter for exact, burr-free drilling and reaming of sheets and profiles up to max. 6 mm material thickness
- ROTASTOP® shaft, cylindrical
- With spiral groove and fixed centring tip with split point
- 2-blade geometry
- Laser scaling
- Multi-TT coating (TiAlN / TiN Multilayer)
- Coating hardness: 3,100 HV
- Coating thickness: 2 µm
- Temperature resistance of coating: 650 °C
- Made in Germany



5521 5 2



5521 5 10



5529 5 5521

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5521 5 2    | CONE CUTT.MULT-TT 5-20MM S8 5* | 1   |
| 5521 5 10   | CONE CUTT.MULT-TT 5-31MM S9 5* | 1   |
| 5529 5 5521 | CONE CUTT.BOX MULT-TT 2-PCE 5* | 1   |

(Ø drill mm, S = Ø shaft mm)

**Contents Art. No. 5529 5 5521:**

- each 1x cone cutter HSS MULTI-TT Ø 5 – 20 / 5 – 31 mm

## Your Advantage / Benefit

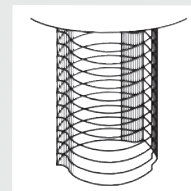
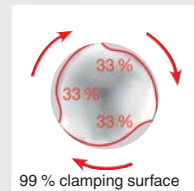
- 25 % longer service life
- MULTI-TT coating (TiAlN / TiN Multilayer), with good wear behaviour and thermal stability for a longer service life
- ROTASTOP® shaft for force-fit connection and optimal torque transmission, easy tool exchange, clamps automatically and prevents slipping in the drill chuck
- With spiral groove for optimal cutting behaviour with controlled chip removal, steady function with reduced energy consumption
- Centring tip with split point, no drill wandering, no centre punching and pre-drilling necessary
- Laser scaling with specified hole diameter for more precise function

## Application

- Exact, burr-free centring, drilling, deburring, and reaming of sheets and profiles up to max. 6 mm material thickness
- Steel, cast iron, non-ferrous metals, aluminium alloys with a rigidity of up to 1,000 N/mm<sup>2</sup>, stainless steel with a rigidity of up to 800 N/mm<sup>2</sup>



ROTASTOP® shaft



Burr-free drilling



| Technical Data |  |                 |            |
|----------------|--|-----------------|------------|
| Art. No.       | Scaling Ø in mm                              | Total length mm | Ø shaft mm |
| 5521 5 2       | 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 20.0 | 76.5            | 8.0        |
| 5521 5 10      | 10.0 / 15.0 / 20.0 / 25.0 / 31.0             | 103.0           | 9.0        |

# Cone Cutter HSS

- For burr-free drilling and reaming of sheets, pipes and profiles
- With two blades and fixed centring tip with split point
- Shaft with 3 bevels prevents slipping in the chuck
- Point angle 118°

**Application areas:**

- Steel <900 N/mm<sup>2</sup> tensile strength, aluminium, brass, plastic, cast iron and bronze
- Constructional steel, soft, 0.1 – 2.0 mm
- Non-ferrous metals 0.1 – 1.0 mm
- Plastics 0.1 – 5.0 mm



| Technical Data |                 |            |
|----------------|-----------------|------------|
| Drill Ø mm     | Total length mm | Shaft Ø mm |
| 3.0-14.0       | 58.0            | 6.0        |
| 4.0-20.0       | 71.0            | 8.0        |
| 16.0-30.5      | 76.0            | 9.0        |
| 24.0-40.0      | 89.0            | 10.0       |
| 36.0-50.0      | 97.0            | 12.0       |

| Article No. | Article Description             | QTY |
|-------------|---------------------------------|-----|
| 5521 1      | TUBE&SHEET TAP.DR.3-14MM S 6MM  | 1   |
| 5521 2      | TUBE&SHEET TAP.DR.5-20MM S 8MM  | 1   |
| 5521 3      | TUB.SHEE.TAP.DR.16-30.5MM S 9MM | 1   |
| 5521 4      | TUBE&SHEE.TAP.DR.24-40MM S10MM  | 1   |
| 5521 5      | TUBE&SHEE.TAP.DR.36-50MM S12MM  | 1   |

(Ø drill mm, S = Ø shaft mm)

# Tube & Sheet Taper Drill Set HSS

- 4-pcs in plastic drill box

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5529 5521   | TUBE&SHEET TAP.DRILL SET 4PCS | 1   |

**Contents:**

- Each 1x taper drill HSS
- Ø 3 – 14 / 4 – 20 / 16 – 30.5 mm
- 1x Art. No. 5529 1: Drilling and Cutting Paste Stick 18 g



# Cone cutter type HSS L

- For burr-free drilling and reaming of sheets, pipes and profiles
- With two blades and fixed centring tip with split point
- Shaft with 3 bevels prevents slipping in the chuck
- Point angle 118°

**Application areas:**

- Steel <900 N/mm<sup>2</sup> tensile strength, aluminium, brass, plastic, cast iron and bronze
- Constructional steel, soft, 0.1 – 2.0 mm
- Non-ferrous metals 0.1 – 1.0 mm
- Plastics 0.1 – 5.0 mm

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5521 10     | TUB.SHEE.TAP.DR.5-31MM L S10MM | 1   |

(Ø drill mm, S = Ø shaft mm)



# Drilling and Cutting Paste Stick

- Lubricant for tube and sheet, step drills and countersink
- Excellent separating and cooling properties
- For high-quality surface finish and longer service life

**Application:**

- Apply lubricant along the main cutting edge

| Article No. | Article description           | QTY |
|-------------|-------------------------------|-----|
| 5529 1      | DRILL.CUTTING PASTE STICK 18G | 1   |



# Stepped Drill HSS, MULTI-TT FÖRCH\*\*\*\*\*

- Stepped drill with edge-breaker feature for exact, burr-free drilling and reaming of sheets and profiles up to max. 6 mm material thickness
- ROTASTOP® shaft, cylindrical
- With spiral groove and fixed centring tip with split point
- 2-blade geometry
- Laser scaling
- Multi-TT coating (TiAlN/TiN Multilayer)
- Coating hardness: 3,100 HV
- Coating thickness: 2 µm
- Temperature resistance of coating: 650 °C
- Made in Germany



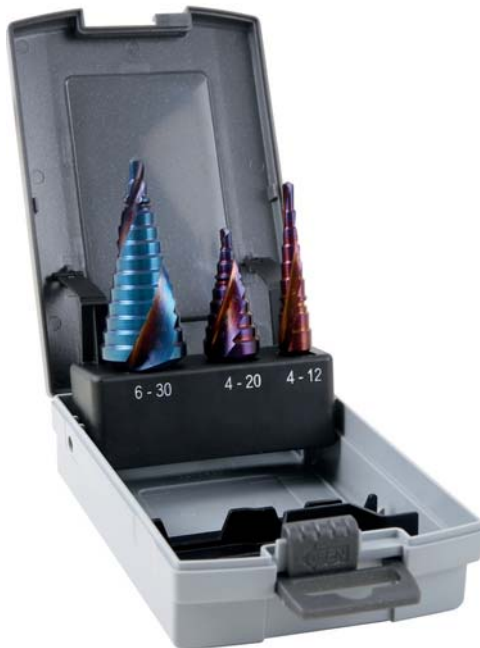
5522 5 10



5522 5 20



5522 5 24



5529 5 5522

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5522 5 10   | S.DR.MULTI-TT KB T1 4-12 S6 5* | 1   |
| 5522 5 20   | S.DR.MULTI-TT KB T2 4-20 S8 5* | 1   |
| 5522 5 24   | S.DR.MULTI-TT KB T2 6-30S10 5* | 1   |
| 5529 5 5522 | S.DR.MULTI-TT SET 3-PCE 5*     | 1   |

(Pitch / drill steps / S = Ø shaft mm)

**Contents Art.-No. 5529 5 5522:**

- Each 1x stepped drill HSS MULTI-TT Ø 4 – 12 / 4 – 20 / 6 – 30 mm

## Your Advantage / Benefit

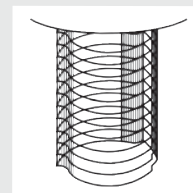
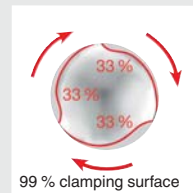
- 25 % longer service life
- MULTI-TT coating (TiAlN / TiN Multilayer), with good wear behaviour and thermal stability for a longer service life
- ROTASTOP® shaft for force-fit connection and optimal torque transmission, easy tool exchange, clamps automatically and prevents slipping in the drill chuck
- With spiral groove for optimal cutting behaviour with controlled chip removal, steady function with reduced energy consumption
- Centring tip with split point, no drill wandering, no centre punching and pre-drilling necessary
- Edge-breaker feature for simultaneous deburring on both sides
- Laser scaling with specified hole diameter for more precise function and specification of speed guide values

## Application

- Exact, burr-free centring, drilling, deburring, and reaming of sheets and profiles up to max. 6 mm material thickness
- Steel, cast iron, non-ferrous metals, aluminium alloys with a rigidity of up to 1,000 N/mm<sup>2</sup>, stainless steel with a rigidity of up to 800 N/mm<sup>2</sup>



ROTASTOP® shaft



Burr-free drilling



| Technical Data |  |                 |            |                 |
|----------------|--|-----------------|------------|-----------------|
| Art.-No.       | Steps Ø in mm  | Length Total mm | Ø shaft mm | Steps height mm |
| 5522 5 10      | 4.0/5.0/6.0/7.0/8.0/<br>9.0 / 10.0 / 11.0 / 12.0                       | 80.0            | 6.0        | 5.0             |
| 5522 5 20      | 4.0/6.0/8.0/10.0/12.0/<br>14.0 / 16.0 / 18.0 / 20.0                    | 67.0            | 8.0        | 4.0             |
| 5522 5 24      | 6.0/8.0/10.0/12.0/14.0/<br>16.0/18.0/20.0/22.0/24.0/<br>26.0/28.0/30.0 | 98.0            | 10.0       | 4.0             |

# Step Drill HSS

- For precise and burr-free drilling and grinding of sheets, pipes and profiles up to max. 6 mm material strength
- With 2 edges and solid centring point
- Shank with three phases prevents inside spinning of the drill chuck

**Art.-No. 5522 12 / 5522 13:**

- Without centre point

**Technical Data**

| Art.-No. | Grading Ø in mm  |
|----------|--|
| 5522 11  | 4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0   |
| 5522 12  | 12.0 / 13.0 / 14.0 / 15.0 / 16.0 / 17.0 / 18.0 / 19.0 / 20.0   |
| 5522 13  | 20.0 / 21.0 / 22.0 / 23.0 / 24.0 / 25.0 / 26.0 / 27.0 / 28.0 / 29.0 / 30.0   |
| 5522 22  | 4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0  |
| 5522 31  | 4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0 / 22.0 / 24.0 / 26.0 / 28.0 / 30.0<br>6.0 / 9.0 / 12.5 (PG7) / 15.2 (PG9) / 18.6 (PG11) / 20.4 (PG13.5) / 22.5 (PG16) / 26.0 / 28.3 (PG21) / 30.5 / 34.0 / 37.0 (PG29) |



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5522 11     | STEP DRILL 1-P 4-12MM S 6MM    | 1   |
| 5522 12     | STEP DRILL 1-P 12-20MM S 9MM   | 1   |
| 5522 13     | STEP DRILL 1-P 20-30MM S 12MM  | 1   |
| 5522 22     | STEP DRILL 2-PCS 4-20MM S 8MM  | 1   |
| 5522 23     | STEP DRILL 2-PCS 4-30MM S 10MM | 1   |
| 5522 31     | STEP DRILL 3-PCS 9-36MM S 12MM | 1   |

(Pitch / drill steps / S = Ø-shank mm)

# Step Drill HSS for Metric Cable Screw Connections

- For the core hole and the clearance hole of metrical cable screw connections in accordance with DIN/EN 60423 and DIN/EN 50262
- With spiral groove and fixed centring tip with split point
- 2-blade geometry
- Laser scaling
- Shaft with 3 bevels prevents slipping in the chuck

**Technical Data**

| Thread    | 5522 16<br>Ø thread core hole | 5522 17<br>Ø through-hole |
|-----------|-------------------------------|---------------------------|
| M6 × 0.75 | 5.3 mm                        | 6.5 mm                    |
| M8 × 1.0  | 7.0 mm                        | 8.5 mm                    |
| M10 × 1.0 | 9.0 mm                        | 10.5 mm                   |
| M12 × 1.5 | 10.5 mm                       | 12.5 mm                   |
| M16 × 1.5 | 14.5 mm                       | 16.5 mm                   |
| M20 × 1.5 | 18.5 mm                       | 20.5 mm                   |
| M25 × 1.5 | 23.5 mm                       | 25.5 mm                   |
| -         | 27.0 mm                       | 29.0 mm                   |
| M32 × 1.5 | 30.5 mm                       | 32.5 mm                   |
| -         | 34.5 mm                       | 38.5 mm                   |
| M40 × 1.5 | 38.5 mm                       | 40.5 mm                   |



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5522 16     | STEP DRILL HSS 5.3-38.5MM S10 | 1   |
| 5522 17     | STEP DRILL HSS 6.5-40.5MM S10 | 1   |

(Drill steps / S = Ø shaft mm)



# Step Drill HSS-TIAN with Edge Breaker

- With Titanium-Aluminium-Nitride-coating
- For exact and ridge-free drilling and attrition of sheets, pipes and profiles up to a material thickness of 6 mm, e.g. construction steel, CrNi-steel, NF-metals, plexiglass, plastic and stainless steel sheets up to 1.5 mm
- The de-ridging zone on the 10-mm-Ø level enables even and double-sided de-ridging (edge-breaker) up to a material thickness of 1.5 mm
- 2 deep-ground and spiral-shaped flutes ensure calmer drilling, high cutting performance, longer lifetime and better chip removal
- CBN ground drill bits with cross cut as per DIN 1412C enables thin-walled materials to be aligned and centered as well
- Step length: 4 mm, total length: 98 mm
- Drill-Ø in the flute signed by laser
- Drill levels - division : Ø 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 30 mm
- Special shaft Ø 10 mm with 3 phases prevents spinning in chuck



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5522 24     | STEP DRILL CB T.2 6-30MM S10MM | 1   |

# Step Drill HSS with Chip Breaker

- For precise and burr-free drilling and grinding of sheets, pipes and profiles up to max. 6 mm material strength
- Shank with three phases prevents spinning inside the drill chuck
- Deburring zone on 10 mm Ø step, simultaneous and double-sided deburring (chip breaking) of drilled and long holes in sheets with max. 1.5 mm strength



| Technical Data |   |
|----------------|---|
| Art.-No.       | Grading Ø in mm   |
| 5522 10        | 4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0    |
| 5522 20        | 4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0 |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5522 10     | STEP DRILL CB D.1 4-12MM S 6MM | 1   |
| 5522 20     | STEP DRILL CB D.2 4-20MM S 8MM | 1   |

(Pitch / drill steps / S = Ø-shank mm)

# Step Drill Set HSS

- 3 pieces in plastic drill box

| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5529 5522   | STEP DRILL BOX 3-PIECES | 1   |

**Contents:**

- Each 1x step drill HSS with chip breaker  
Ø 4 – 12 / 4 – 20 / 6 – 30 mm





# Counters.Bit 90° DIN 335C HSS, MULTI-TT **FÖRCH**\*\*\*\*\*

- Taper and deburring countersink bit with three blades and optimised geometry for a longer service life and faster sinking
- Optimised chip removal geometry provided by combined axial/radial relief with larger relief angle
- Enlarged chip space
- 3-sided shaft, cylindrical
- Multi-TT coating (TiAlN/TiN Multilayer)
- Coating hardness: 3,100 HV
- Coating thickness: 2 µm
- Temperature resistance of coating: 650 °C
- Made in Germany



5525 5 63 / 83 / 104 / 165 / 205 / 250 / 310



5529 5 5525

### Technical Data

| Art.-No.   | Ø    | Length Total | Ø Shaft | Countersunk Screws |
|------------|------|--------------|---------|--------------------|
|            | mm   | mm           | mm      | M                  |
| 5525 5 63  | 6,3  | 45,0         | 5,0     | 3                  |
| 5525 5 83  | 8,3  | 50,0         | 6,0     | 4                  |
| 5525 5 165 | 16,5 | 60,0         | 10,0    | 8                  |
| 5525 5 205 | 20,5 | 63,0         | 10,0    | 10                 |
| 5525 5 250 | 25,0 | 67,0         | 10,0    | 12                 |
| 5525 5 310 | 31,0 | 71,0         | 12,0    | 16                 |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5525 5 63   | CO.BIT MULTI-TT 90°335C 6,3 5* | 1   |
| 5525 5 83   | CO.BIT MULTI-TT 90°335C 8,3 5* | 1   |
| 5525 5 165  | CO.BIT MULTI-TT 90°335C16,5 5* | 1   |
| 5525 5 205  | CO.BIT MULTI-TT 90°335C20,5 5* | 1   |
| 5525 5 250  | CO.BIT MULTI-TT 90°335C25,0 5* | 1   |
| 5525 5 310  | CO.BIT MULTI-TT 90°335C31,0 5* | 1   |
| 5529 5 5525 | CO.BIT SET MULTI-TT 6TLG 5*    | 1   |

### Contents Art.-No. 5529 5 5525:

- Each 1x countersink bit 90° DIN 335C HSS MULTI-TT Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5

## Your Advantage / Benefit

- 25 % longer service life
- 30 % faster sinking
- MULTI-TT coating (TiAlN/TiN Multilayer), with good wear behaviour and thermal stability for a longer service life
- Optimised chip removal geometry provided by combined axial/radial relief with larger relief angle for faster, vibration-free, and scratch-free countersinking with low wear, no formation of built-up blades
- Enlarged chip space for improved chip removal, even for long-chipping materials
- 3-sided shaft for a force-fit connection and good torque transmission, prevents slipping in the drill chuck

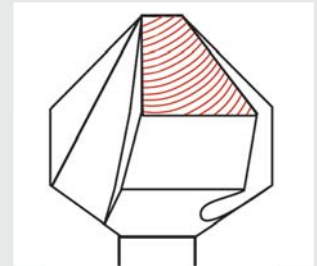
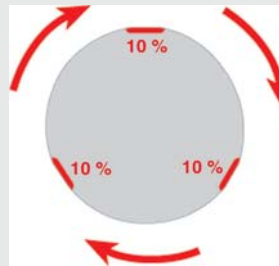
## Application

- For burr- and vibration-free countersinking and deburring of steel, cast iron, non-ferrous metals, and aluminium alloys with a rigidity of up to 1,000 N/mm<sup>2</sup>, stainless steel with a rigidity of up to 800 N/mm<sup>2</sup>



3-sided shaft

Combined axial/radial relief



Vibration-free countersinking



# Countersink 90° DIN 335C HSS-E

- Alloyed with 5 % cobalt
- With 3 cutting edges and cylindrical shank
- For burr-free and chatter-free handling, deburring and countersinking of high-alloyed steels e.g. V2A and V4A as well as steels and cast with a strength up to 1,000 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5527 63     | COUNTERS.90°335C HSS-E-CO 6.3  | 1   |
| 5527 83     | COUNTERS.90°335C HSS-E-CO 8.3  | 1   |
| 5527 104    | COUNTERS.90°335C HSS-E-CO 10.4 | 1   |
| 5527 124    | COUNTERS.90°335C HSS-E-CO 12.4 | 1   |
| 5527 165    | COUNTERS.90°335C HSS-E-CO 16.5 | 1   |
| 5527 165 1  | COUNTERS.90°335C 16.5 SHAFT10  | 1   |
| 5527 205    | COUNTERS.90°335C HSS-E-CO 20.5 | 1   |
| 5527 250    | COUNTERS.90°335C HSS-E-CO 25.0 | 1   |
| 5527 280    | COUNTERS.90°335C HSS-E-CO 28.0 | 1   |
| 5527 310    | COUNTERS.90°335C HSS-E-CO 31.0 | 1   |

| Technical Data |                      |            |
|----------------|----------------------|------------|
| Ø mm           | Countersunk screws M | Shank-Ø mm |
| 6.3            | 3                    | 5.0        |
| 8.3            | 4                    | 6.0        |
| 10.4           | 5                    | 6.0        |
| 12.4           | 6                    | 8.0        |
| 16.5           | 8                    | 8.0        |
| 16.5           | 8                    | 10.0       |
| 20.5           | 10                   | 10.0       |
| 25.0           | 12                   | 10.0       |
| 28.0           | 14                   | 12.0       |
| 31.0           | 16                   | 12.0       |

# Countersink Set 90° DIN 335C HSS-E

- 6-piece in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5529 5527   | COUNTERS.CASSET.HSS-E-CO 6-PCS | 1   |

**Contents:**

- Each 1x countersink range 90° DIN 335C HSS-E  
Ø 6.3/8.3/10.4/12.4/16.5/20.5 mm



# Countersink 90° DIN 335C HSS-TIN

- Titanium-nitride-coating
- With 3 cutting edges und cylindrical shank
- For burr-free and chatter-free handling, deburring and countersinking of steel, cast, non-ferrous and light-metals with a strength up to 800 N/mm<sup>2</sup>



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5525 63     | COUNTERSINK 90' 335C TIN 6.3  | 1   |
| 5525 83     | COUNTERSINK 90' 335C TIN 8.3  | 1   |
| 5525 104    | COUNTERSINK 90' 335C TIN 10.4 | 1   |
| 5525 124    | COUNTERSINK 90' 335C TIN 12.4 | 1   |
| 5525 165    | COUNTERSINK 90' 335C TIN 16.5 | 1   |
| 5525 165 1  | COUNTERS.90' TIN 16.5 SHAFT10 | 1   |
| 5525 205    | COUNTERSINK 90' 335C TIN 20.5 | 1   |
| 5525 250    | COUNTERSINK 90' 335C TIN 25.0 | 1   |
| 5525 280    | COUNTERSINK 90' 335C TIN 28.0 | 1   |
| 5525 310    | COUNTERSINK 90' 335C TIN 31.0 | 1   |

| Technical Data |                     |            |
|----------------|---------------------|------------|
| Ø mm           | Countersunk screw M | Shank-Ø mm |
| 6.3            | 3                   | 5.0        |
| 8.3            | 4                   | 6.0        |
| 10.4           | 5                   | 6.0        |
| 12.4           | 6                   | 8.0        |
| 16.5           | 8                   | 8.0        |
| 16.5           | 8                   | 10.0       |
| 20.5           | 10                  | 10.0       |
| 25.0           | 12                  | 10.0       |
| 28.0           | 14                  | 12.0       |
| 31.0           | 16                  | 12.0       |

# Countersink Set 90° DIN 335C HSS-TIN

- 6-piece in drill box

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5529 5525   | COUNTERS.CASSETTE TIN 6-PIECE | 1   |

**Contents:**

- Each 1x countersink range 90° DIN 335C HSS-TIN  
Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5 mm



# Countersink 90° DIN 335C HSS

- With 3 cutting edges and cylindrical shank
- For burr-free and chatter-free handling, deburring and countersinking of steel, cast, non-ferrous and light-metals with a strength of 600 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5523 63     | COUNTERSINK 90' 335C 6.3       | 1   |
| 5523 83     | COUNTERSINK 90' 335C 8.3       | 1   |
| 5523 104    | COUNTERSINK 90' 335C 10.4      | 1   |
| 5523 124    | COUNTERSINK 90' 335C 12,4      | 1   |
| 5523 165    | COUNTERSINK 90' 335C 16.5      | 1   |
| 5523 165 1  | COUNTERS.90' 335C 16.5 SHAFT10 | 1   |
| 5523 205    | COUNTERSINK 90' 335C 20.5      | 1   |
| 5523 250    | COUNTERSINK 90' 335C 25.0      | 1   |
| 5523 280    | COUNTERSINK 90' 335C 28.0      | 1   |
| 5523 310    | COUNTERSINK 90' 335C 31.0      | 1   |

| Technical Data |                      |            |
|----------------|----------------------|------------|
| Ø mm           | Countersunk screws M | Shaft-Ø mm |
| 6.3            | 3                    | 5.0        |
| 8.3            | 4                    | 6.0        |
| 10.4           | 5                    | 6.0        |
| 12.4           | 6                    | 8.0        |
| 16.5           | 8                    | 8.0        |
| 16.5           | 8                    | 10.0       |
| 20.5           | 10                   | 10.0       |
| 25.0           | 12                   | 10.0       |
| 28.0           | 14                   | 12.0       |
| 31.0           | 16                   | 12.0       |

# Countersink Set 90° DIN 335C HSS

- 6-piece in drill box

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5529 5523   | COUNTERSINK CASSETTE 6-PIECE | 1   |

**Contents:**

- Each 1x countersink bit 90° DIN 335C HSS  
Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5 mm



# Counter-sinking Bits 90° DIN 335C HSS

- With 1/4" hexagonal shaft
- Can be handled by machine (direct clamping or manual clamping with 1/4" bit holder) or manual with 1/4" handle
- For burr-free and rattle-free spotting, deburring and countersinking in steel, cast iron, non-ferrous metals and light alloys with a strength up to 600 N/mm<sup>2</sup>



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5526 63     | COUNTERSINK BIT 90° 335C 6.3  | 1   |
| 5526 83     | COUNTERSINK BIT 90° 335C 8.3  | 1   |
| 5526 104    | COUNTERSINK BIT 90° 335C 10.4 | 1   |
| 5526 124    | COUNTERSINK BIT 90° 335C 12.4 | 1   |
| 5526 165    | COUNTERSINK BIT 90° 335C 16.5 | 1   |
| 5526 205    | COUNTERSINK BIT 90° 335C 20.5 | 1   |

| Technical Data |                      |
|----------------|----------------------|
| Ø mm           | Countersink screws M |
| 6.3            | 3                    |
| 8.3            | 4                    |
| 10.4           | 5                    |
| 12.4           | 6                    |
| 16.5           | 8                    |
| 20.5           | 10                   |

# Countersink Bit Set 90° DIN 335C HSS

- 8-piece in drill box

| Article No. | Article Description              | QTY |
|-------------|----------------------------------|-----|
| 5529 5526   | COUNTERSINK BIT CASSETTE 8-PIECE | 1   |
| 5529 1      | DRILL.CUTTING PASTE STICK 18G    | 1   |

**Contents:**

- Each 1x countersink bits 90° DIN 335C HSS  
Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5 mm
- 1x 1/4" handle
- 1x 1/4" universal holder
- 1x Art.-No. 5529 1 drilling and cutting paste stick 18 g



# Countersink with Diagonal Hole 90° HSS-E

- Chip removal prevents jamming at the workpiece
- For burr-free and chatter-free handling, deburring and countersinking of steel e.g. V2A and V4A, as well as steels and cast with a strength of 1,000 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5524 5      | DIAG.HOLE COUNT.90° 2- 5MM S6  | 1   |
| 5524 10     | DIAG.HOLE COUNT.90° 5-10MM S8  | 1   |
| 5524 15     | DIAG.HOLE COUN.90° 10-15MM S10 | 1   |
| 5524 20     | DIAG.HOLE COUN.90° 15-20MM S12 | 1   |
| 5524 25     | DIAG.HOLE COUN.90° 20-25MM S12 | 1   |



(Countersink range mm / shank-Ø size)

# Countersink with Diagonal Hole Set 90° HSS-E

- 4-piece in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5529 5524   | DIAG.HOLE COUNT.CASSETTE 4-PCS | 1   |
| 5529 1      | DRILL.CUTTING PASTE STICK 18G  | 1   |

**Contents:**

- Each 1x countersink with diagonal hole 90° HSS-E sizes 5 / 10 / 15 / 20





## Deburring Tool for Pipes In- / Outside

- For deburring of steel pipes, aluminium and copper pipes, and such made of plastic material
- Ideal for use in the processing of automotive brake lines
- Retractable inside deburring element
- For inside diameters: 3 – 12 mm
- For outside diameters: 4 – 14 mm
- Length: 125 mm
- Material: HSS

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4941 125    | DEBUR.TOOL F.PIPES IN-/OUTSIDE | 1   |
| 4941 125 1  | REPL.BLADE OUTER FOR 125       | 1   |
| 4941 125 2  | REPL.BLADE INNER FOR 125       | 1   |



## Profigrat De-burring Set 7-Piece

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4750 2 3    | PROFIGRAT SET TELE.W.BLADE7PCS | 1   |

**Contents:**

- 1x Art.-No. 4750 1 1: Profigrat handle type T
- 1x Art.-No. 4750 6 1: Profigrat telescope holder type C
- 1x Art.-No. 4750 3 10: Profigrat blades HSS type C-10
- 1x Art.-No. 4750 3 15: Profigrat blades HSS type C-15
- 1x Art.-No. 4750 3 20: Profigrat blades HSS type C-20
- 1x Art.-No. 4750 3 30: Profigrat blades HSS type C-30
- 1x Art.-No. 4750 3 35: Profigrat blades HSS type C-35

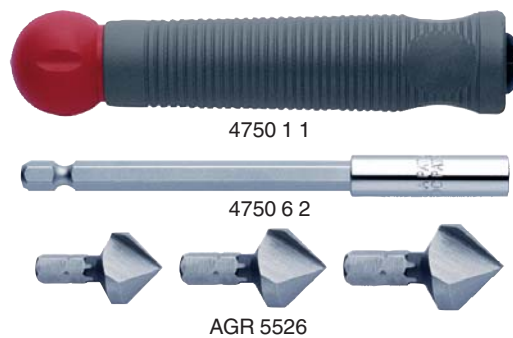


## Profigrat De-burring Set 5-Piece

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4750 2 4    | PROFIGRAT SET TEL./COUNT.5-PCS | 1   |

**Contents:**

- 1x Art.-No. 4750 1 1: Profigrat handle type T
- 1x Art.-No. 4750 6 2: Profigrat telescope holder hexagon for countersink
- Each 1x AGR 5526 countersink bits 90° DIN 335C HSS 6.3 / 10.4 / 16.5 mm



## Profigrat De-burring Handle with Triangular Blades

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4750 2 1    | PROFI.DE-BUR.HANDLE TRIA.BLADE | 1   |

**Contents:**

- 1x Art.-No. 4750 1 1: Profigrat handle type D
- 1x Art.-No. 4750 5 1: Profigrat blade HSS triangular



# Profigrat Handle Aluminium

- Pack of 5 blades
- For the adaption of blades HSS type C (replaceable)



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 4750 2 5    | PK(5)PROFIGRAT HAND.BLADE C10 | 1   |





**Scope of delivery:**

- Each 1x Art.-No. 4750 3 10: Profigrat blades HSS type C-10

# Profigrat Blades HSS Type C

- C-blade is the well-known de-burring blade
- The design and diameter of 3.2 mm also enable integration into all other de-burring programmes
- Due to different blade forms different edge profiles can be processed







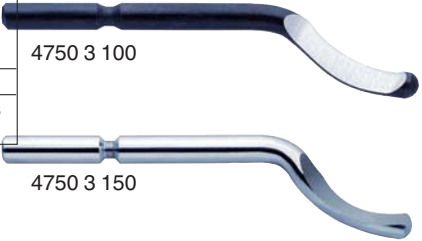
| Technical Data |   |   |   |   | Application   |
|----------------|---|---|---|---|---|
| Art. No.       |  |  |  |  |   |
| 4750 3 10      | •   | •   | •   |   | steel, aluminium, copper, zinc, plastic                         |
| 4750 3 15      | •   | •   | •   |   | stainless steel, plastic  |
| 4750 3 20      | •   | •   | •   |   | brass, cast   |
| 4750 3 30      |   |   |   | •   | steel, aluminium, copper, zinc, plastic, brass, cast            |
| 4750 3 35      | •   | •   | •   |   | steel, alu, copper, zinc, plastic, brass, cast, stainless steel |
| 4750 3 101     | •   | •   | •   | •   | steel, alu, copper, zinc, plastic, brass, cast, stainless steel |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4750 3 10   | PROFIGRAT BLADE HSS C- 10 Ø3.2 | 10  |
| 4750 3 15   | PROFIGRAT BLADE HSS C- 15 Ø3.2 | 10  |
| 4750 3 20   | PROFIGRAT BLADE HSS C- 20 Ø3.2 | 10  |
| 4750 3 30   | PROFIGRAT BLADE HSS C- 30 Ø3.2 | 10  |
| 4750 3 35   | PROFIGRAT BLADE HSS C- 35 Ø3.2 | 10  |
| 4750 3 101  | PROFIGRAT BLADE HSS C-101 Ø3.2 | 10  |

# Profigrat Blades HSS-E-CO Type C


- Especially suitable for deburring stainless steel

| Technical Data |   |   |   |   |   |
|----------------|---|---|---|---|---|
| Art. No.       |  |  |  |  | Application   |
| 4750 3 100     | •   | •   | •   |   | steel, aluminium, copper, zinc, plastic, stainless steel              |
| 4750 3 150     | •   | •   | •   |   | steel, aluminium, copper, zinc, plastic, brass, cast, stainless steel |



| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 4750 3 100  | PROF.BLADES HSS-E C-100 Ø3.2 | 10  |
| 4750 3 150  | PROF.BLADES HSS-E C-150 Ø3.2 | 10  |

# Profigrat Blades HSS-E-CO Type C

| Technical Data |   |   |   |   |   |
|----------------|---|---|---|---|---|
| Art.-No.       |  |  |  |  | Application   |
| 4750 5 1       |   |   | •   | •   | steel, aluminium, copper, zinc, plastic, brass, cast, stainless steel |



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4750 5 1    | PROFI.TRIANG.BLADE F.HANDLE M8 | 1   |

# Profigrat Handles

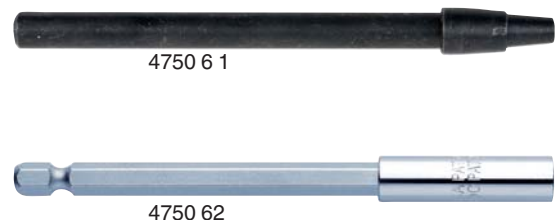
- Ergonomical handles for optimal usability
  - For attaching Profigrat telescope holder Art.-No. 4750 6 1 and 4750 6 2
  - Dimensions (Ø x L): 23 x 113 mm
- Art.-No. 4750 1 3:**
- For intake of Profigrat blades type C
  - Dimensions (Ø x L): 23 x 113 mm



| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 4750 1 1    | PROFIGRAT HANDLE TYPE T | 1   |
| 4750 1 3    | PROFIGRAT HANDLE TYPE D | 1   |

# Profigrat Telescopic Holder

- For use with Profigrat handle Art.-No. 4750 1 1
- Art.-No. 4750 6 1:**
- For attaching Profigrat handles HSS type C with Ø 3.2 mm Art.-No. 4750 3 10 to 4750 3 101
  - Dimensions (Ø x L): 7 x 117 mm
- Art.-No. 4750 6 2:**
- For attaching of countersink bits 90° DIN 335C HSS with 1/4" shank AGR 5526
  - Dimensions (Ø x L): 6.3 x 115 mm



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 4750 6 1    | PROFIGR. TEL HOLDER ROUND C-KL | e 5 |
| 4750 6 2    | PROF.TEL.HOLDER HEX.F.COUNTERS | 1   |



Machine tap **FÖRCH**  
Application overview

| Application   | Tensile strength N/mm           | Cutting speed $V_C$ in m/min | Article-No. | Form | DIN | Tolerance class | Cutting material   |
|---|---------------------------------|------------------------------|-------------|------|-----|-----------------|--------------------|
| <b>Steel</b><br>Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron | 800 – 1,000 N/mm <sup>2</sup>   | 10 – 20 m/min                | 5540 5... 3 | B    | 371 | ISO 2/6H        | HSS-E steam coated |
|   |                                 |                              | 5541 5... 3 | B    | 376 |                 |                    |
|   |                                 |                              | 5542 5... 3 | C    | 371 |                 |                    |
|   |                                 |                              | 5543 5... 3 | C    | 376 |                 |                    |
| <b>INOX</b><br>Rust and acid-resistant steel  | 850 – 1,100 N/mm <sup>2</sup>   | 6 – 12 m/min                 | 5540 5... 4 | B    | 371 | ISO 2/6H        | HSS-E TiN          |
|   |                                 |                              | 5541 5... 4 | B    | 376 |                 |                    |
|   |                                 |                              | 5542 5... 4 | C    | 371 |                 |                    |
|   |                                 |                              | 5543 5... 4 | C    | 376 |                 |                    |
| <b>Aluminium</b><br>Aluminium, aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys  | 400 – 600 N/mm <sup>2</sup>     | 15 – 20 m/min                | 5540 5... 1 | B    | 371 | ISO 2/6H        | HSS-E blank        |
|   |                                 |                              | 5541 5... 1 | B    | 376 |                 |                    |
|   |                                 |                              | 5542 5... 1 | C    | 371 |                 |                    |
|   |                                 |                              | 5543 5... 1 | C    | 376 |                 |                    |
| <b>HF</b><br>High quality steel, alloyed heat-treatable steel, tool steel, high-speed steel, tempered steel   | 1,000 – 1,200 N/mm <sup>2</sup> | 6 – 10 m/min                 | 5542 5... 2 | C    | 371 | ISO 2/6H        | HSS-E TiCN         |
|   |                                 |                              | 5543 5... 2 | C    | 376 |                 |                    |

Cutting data

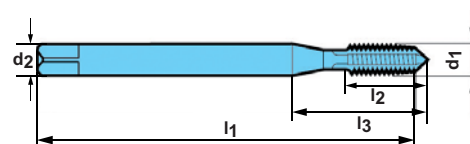
| Designation           | Short-sign | Unit              | Formula                                     |
|-----------------------|------------|-------------------|---|
| Number of revolutions | n          | min <sup>-1</sup> | $n = \frac{v_C \times 1,000}{d \times \pi}$ |
| Cutting speed         | $v_C$      | m/min             | $v_C = \frac{d \times \pi \times n}{1,000}$ |

Taps ingate forms

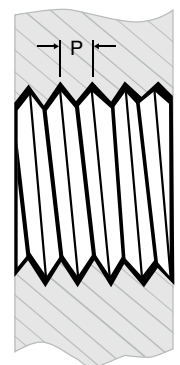
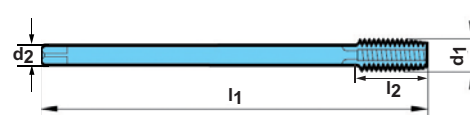
| Form | Number of transitions in the gate | Gate angle | Execution of the flutes         | Application mainly for | Pictograms  |
|------|-----------------------------------|------------|---------------------------------|------------------------|---|
| B    | from 3.5 to 5                     | 8°         | grooved straight with peel gate | through holes          |  |
| C    | from 2 to 3                       | 15°        | slotted                         | blind and pocket holes |  |

| d1  | P       | l1     | l2    | l3    | d2    |
|-----|---------|--------|-------|-------|-------|
| M3  | 0.50 mm | 56 mm  | 10 mm | 18 mm | 4 mm  |
| M4  | 0.70 mm | 63 mm  | 12 mm | 21 mm | 5 mm  |
| M5  | 0.80 mm | 70 mm  | 14 mm | 25 mm | 6 mm  |
| M6  | 1.00 mm | 80 mm  | 16 mm | 30 mm | 6 mm  |
| M8  | 1.25 mm | 90 mm  | 17 mm | 35 mm | 8 mm  |
| M10 | 1.50 mm | 100 mm | 20 mm | 39 mm | 10 mm |
| M12 | 1.75 mm | 110 mm | 24 mm | –     | 9 mm  |
| M16 | 2.00 mm | 110 mm | 26 mm | –     | 12 mm |
| M20 | 2.50 mm | 140 mm | 32 mm | –     | 16 mm |
| M24 | 3.00 mm | 160 mm | 36 mm | –     | 18 mm |

DIN 371 M3 – M10



DIN 376 M12 – M24



# Machine Tap DIN 371 HSS-E Form B, Steel **FÖRCH**\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular thread according to DIN13
- Tolerance class ISO 2/6H
- 5% cobalt allot
- Vapour-plated
- With toughened shaft (DIN 371)
- For clearance holes
- With spiral point, straight grooved
- Right-handed cutting

**Applications:**

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5540 5 3 3  | THR.HOLE MA.TAP STE.371B M3 5* | 1 ü |
| 5540 5 4 3  | THR.HOLE MA.TAP STE.371B M4 5* | 1 ü |
| 5540 5 5 3  | THR.HOLE MA.TAP STE.371B M5 5* | 1 ü |
| 5540 5 6 3  | THR.HOLE MA.TAP STE.371B M6 5* | 1 ü |
| 5540 5 8 3  | THR.HOLE MA.TAP STE.371B M8 5* | 1 ü |
| 5540 5 10 3 | THR.HOLE MA.TAP ST.371B M10 5* | 1 ü |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft-Ø mm | Core hole-Ø mm |
| M3             | 0.5                | 10               | 56              | 3.5        | 2.5            |
| M4             | 0.7                | 12               | 63              | 4.5        | 3.3            |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine Tap DIN 376 HSS-E Form B, Steel **FÖRCH**\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular thread according to DIN13
- Tolerance class ISO 2/6H
- 5% cobalt alloy
- Vapour-plated
- With overload shaft (DIN 376)
- For clearance holes
- With spiral point, straight grooved
- Right-handed cutting

**Applications:**

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5541 5 12 3 | THR.HOLE MA.TAP ST.376B M12 5* | 1 ü |
| 5541 5 16 3 | THR.HOLE MA.TAP ST.376B M16 5* | 1   |
| 5541 5 20 3 | THR.HOLE MA.TAP ST.376B M20 5* | 1   |
| 5541 5 24 3 | THR.HOLE MA.TAP ST.376B M24 5* | 1   |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |
| M20            | 2.5                | 32               | 140             | 16.0       | 17.5           |
| M24            | 3.0                | 36               | 160             | 18.0       | 21.0           |

# Machine Tap Set HSS-E Form B, Steel **FÖRCH**\*\*\*\*\*

- 14 pieces in drill box
- DIN 371 / 376

| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5549 5 5540 3 | THR.HOL.M.TAP SET STE B 14P 5* | 1   |

**Contents:**

- Each 1x machine screw tap form B, steel M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm





# Machine Tap DIN 371 HSS-E Form C, Steel **FÖRCH**\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Vapour-plated
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

**Applications:**

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5542 5 3 3  | THR.HOLE MA.TAP STE 371C M3 5* | 1 ü |
| 5542 5 4 3  | THR.HOLE MA.TAP STE 371C M4 5* | 1 ü |
| 5542 5 5 3  | THR.HOLE MA.TAP STE 371C M5 5* | 1 ü |
| 5542 5 6 3  | THR.HOLE MA.TAP STE 371C M6 5* | 1 ü |
| 5542 5 8 3  | THR.HOLE MA.TAP STE 371C M8 5* | 1 ü |
| 5542 5 10 3 | THR.HOL.MA.TAP STE 371C M10 5* | 1 ü |

| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M3             | 0.5                | 10               | 56              | 3.5        | 2.5            |
| M4             | 0.7                | 12               | 63              | 4.5        | 3.3            |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine Tap DIN 376 HSS-E Form C, Steel **FÖRCH**\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Vapour-plated
- With overload shaft (DIN 376)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

**Applications:**

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5543 5 12 3 | THR.HOLE MA.TAP ST.376C M12 5* | 1 ü |
| 5543 5 16 3 | THR.HOLE MA.TAP ST.376C M16 5* | 1   |
| 5543 5 20 3 | THR.HOLE MA.TAP ST.376C M20 5* | 1   |
| 5543 5 24 3 | THR.HOLE MA.TAP ST.376C M24 5* | 1   |

| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread-length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |
| M20            | 2.5                | 32               | 140             | 16.0       | 17.5           |
| M24            | 3.0                | 36               | 160             | 18.0       | 21.0           |

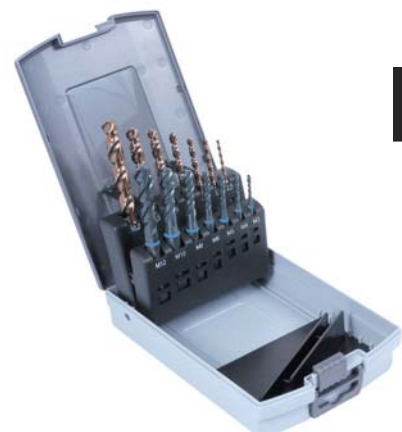
# Machine Tap Set HSS-E Form C, Steel **FÖRCH**\*\*\*\*\*

- 14-piece in drill box
- DIN 371 / 376

| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5549 5 5542 3 | THR.HOL.MA.TAP SET ST.C 14P 5* | 1   |

**Contents:**

- Each 1x machine screw tap form C, steel M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



# Machine tap DIN371 HSS-E TiN form B,



- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With toughened shaft (DIN 371)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

**Applications:**

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5540 5 3 4  | THR.HOLE MA.TAP IN.371B M3 5*  | 1 ü |
| 5540 5 4 4  | THR.HOLE MA.TAP IN.371B M4 5*  | 1 ü |
| 5540 5 5 4  | THR.HOLE MA.TAP IN.371B M5 5*  | 1 ü |
| 5540 5 6 4  | THR.HOLE MA.TAP IN.371B M6 5*  | 1 ü |
| 5540 5 8 4  | THR.HOLE MA.TAP IN.371B M8 5*  | 1 ü |
| 5540 5 10 4 | THR.HOLE MA.TAP IN.371B M10 5* | 1 ü |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M3             | 0.5                | 10               | 56              | 3.5        | 2.5            |
| M4             | 0.7                | 12               | 63              | 4.5        | 3.3            |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine tap DIN376 HSS-E TiN form B,



- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With overload shaft (DIN 376)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

**Applications:**

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5541 5 12 4 | THR.HOLE MA.TAP IN.376B M12 5* | 1 ü |
| 5541 5 16 4 | THR.HOLE MA.TAP IN.376B M16 5* | 1   |
| 5541 5 20 4 | THR.HOLE MA.TAP IN.376B M20 5* | 1   |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |
| M20            | 2.5                | 32               | 140             | 16.0       | 17.5           |

# Machine tap set HSS-E TiN form B, **Inox FÖRCH \*\*\*\*\***

- 14-piece in plastic case
- DIN 371 / 376

| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5549 5 5540 4 | THR.HOLE MA.TAP SET IN. 14P 5* | 1   |

**Contents:**

- Each 1x machine screw tap form B, Inox M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



# Machine tap DIN371 HSS-E TiN form C,



- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

**Applications:**

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5542 5 3 4  | THR.HOLE MA.TAP IN.371C M3 5*  | 1 ü |
| 5542 5 4 4  | THR.HOLE MA.TAP IN.371C M4 5*  | 1 ü |
| 5542 5 5 4  | THR.HOLE MA.TAP IN.371C M5 5*  | 1 ü |
| 5542 5 6 4  | THR.HOLE MA.TAP IN.371C M6 5*  | 1 ü |
| 5542 5 8 4  | THR.HOLE MA.TAP IN.371C M8 5*  | 1 ü |
| 5542 5 10 4 | THR.HOLE MA.TAP IN.371C M10 5* | 1 ü |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M3             | 0.5                | 10               | 56              | 3.5        | 2.5            |
| M4             | 0.7                | 12               | 63              | 4.5        | 3.3            |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine tap DIN376 HSS-E TiN form C,



- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With overload shaft (DIN 376)
- For blind and pocket holes
- Spiral point, 40° grooved to the right
- Right-handed cutting

**Applications:**

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5543 5 12 4 | THR.HOLE MA.TAP IN.376C M12 5* | 1 ü |
| 5543 5 16 4 | THR.HOLE MA.TAP IN.376C M16 5* | 1   |
| 5543 5 20 4 | THR.HOLE MA.TAP IN.376C M20 5* | 1   |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |
| M20            | 2.5                | 32               | 140             | 16.0       | 17.5           |

# Machine tap set HSS-E TiN form C, **Inox FÖRCH \*\*\*\*\***

- 14-piece in drill box
- DIN 371 / 376

| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5549 5 5542 4 | THR.HOLE MA.TAP SET IN. 14P 5* | 1   |

**Contents:**

- 1x machine screw tap form C, Inox M3 / M4 / M5 / M6 / M8 / M10 / M12
- 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



# Machine tap DIN 371 HSS-E form B, Alu FÖRCH\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With toughened shaft (DIN 371)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

**Applications:**

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5540 5 3 1  | THR.HOLE MA.TAP ALU 371B M3 5* | 1 ü |
| 5540 5 4 1  | THR.HOLE MA.TAP ALU 371B M4 5* | 1 ü |
| 5540 5 5 1  | THR.HOLE MA.TAP ALU 371B M5 5* | 1 ü |
| 5540 5 6 1  | THR.HOLE MA.TAP ALU 371B M6 5* | 1 ü |
| 5540 5 8 1  | THR.HOLE MA.TAP ALU 371B M8 5* | 1 ü |
| 5540 5 10 1 | THR.HOLE MA.TAP AL.371B M10 5* | 1 ü |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M3             | 0.5                | 10               | 56              | 3.5        | 2.5            |
| M4             | 0.7                | 12               | 63              | 4.5        | 3.3            |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine tap DIN 376 HSS-E form B, Alu FÖRCH\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With overload shaft (DIN 376)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

**Applications:**

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm<sup>2</sup>

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5541 5 12 1 | THR.HOLE MA.TAP AL.376B M12 5* | 1 ü |
| 5541 5 16 1 | THR.HOLE MA.TAP AL.376B M16 5* | 1   |



| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |

# Machine tap DIN 371 HSS-E form C, Alu FÖRCH\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 45° grooved to the right
- Right-handed cutting

**Applications:**

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5542 5 3 1  | THR.HOLE MA.TAP ALU 371C M3 5* | 1 ü |
| 5542 5 4 1  | THR.HOLE MA.TAP ALU 371C M4 5* | 1 ü |
| 5542 5 5 1  | THR.HOLE MA.TAP ALU 371C M5 5* | 1 ü |
| 5542 5 6 1  | THR.HOLE MA.TAP ALU 371C M6 5* | 1 ü |
| 5542 5 8 1  | THR.HOLE MA.TAP ALU 371C M8 5* | 1 ü |
| 5542 5 10 1 | THR.HOLE MA.TAP AL.371C M10 5* | 1 ü |

| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M3             | 0.5                | 10               | 56              | 3.5        | 2.5            |
| M4             | 0.7                | 12               | 63              | 4.5        | 3.3            |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine tap DIN 376 HSS-E form C, Alu FÖRCH\*\*\*\*\*

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With overload shaft (DIN 376)
- For blind and pocket holes
- Short incision, 45° grooved to the right
- Right-handed cutting

**Applications:**

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5543 5 12 1 | THR.HOLE MA.TAP AL.376C M12 5* | 1 ü |
| 5543 5 16 1 | THR.HOLE MA.TAP AL.376C M16 5* | 1   |

| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |



# Machine tap DIN 371 HSS-E TiCN form C,



- For the toughest demands on product life, precision and accuracy when working with steel that is difficult to cut
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium carbon nitride coating
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

**Applications:**

- High quality steel, alloyed heat-treatable steel, tool steel, high-speed steel, tempered steel, tensile strength 1,000 – 1,200 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5542 5 5 2  | THR.HOLE MA.TAP HT 371C M5 5*  | 1 ü |
| 5542 5 6 2  | THR.HOLE MA.TAP HT 371C M6 5*  | 1 ü |
| 5542 5 8 2  | THR.HOLE MA.TAP HT 371C M8 5*  | 1 ü |
| 5542 5 10 2 | THR.HOLE MA.TAP HT 371C M10 5* | 1 ü |

| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M5             | 0.8                | 14               | 70              | 6.0        | 4.2            |
| M6             | 1.0                | 16               | 80              | 6.0        | 5.0            |
| M8             | 1.25               | 17               | 90              | 8.0        | 6.8            |
| M10            | 1.5                | 20               | 100             | 10.0       | 8.5            |

# Machine tap DIN 376 HSS-E TiCN form C,



- For the toughest demands on product life, precision and accuracy when working with steel that is difficult to cut
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium carbon nitride coating
- With overload shaft (DIN 376)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

**Applications:**

- High quality steel, alloyed heat-treatable steel, tool steel, high-speed steel, tempered steel, tensile strength 1,000 – 1,200 N/mm<sup>2</sup>



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5543 5 12 2 | THR.HOLE MA.TAP HT 376C M12 5* | 1 ü |
| 5543 5 16 2 | THR.HOLE MA.TAP HT 376C M16 5* | 1   |

| Technical Data |                    |                  |                 |            |                |
|----------------|--------------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75               | 24               | 110             | 9.0        | 10.2           |
| M16            | 2.0                | 26               | 110             | 12.0       | 14.0           |

# Spiral point machine tap DIN 371 HSS-E, form B

- For metric ISO-thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With reinforced shaft (DIN 371)
- For through holes
- Spiral Point, grooved straight

**Applications:**

- Steel and cast steel, alloyed and non-alloyed up to strength of 800 N/mm<sup>2</sup>, free-cutting steel, malleable cast iron, spheroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



| Technical Data |                 |                  |                 |                |
|----------------|-----------------|------------------|-----------------|----------------|
| Thread metric  | Thread pitch mm | Thread length mm | Total length mm | Core hole Ø mm |
| M 3            | 0.5             | 10               | 56              | 2.5            |
| M 4            | 0.7             | 12               | 63              | 3.3            |
| M 5            | 0.8             | 14               | 70              | 4.2            |
| M 6            | 1.0             | 16               | 80              | 5.0            |
| M 8            | 1.25            | 18               | 90              | 6.8            |
| M 9            | 1.25            | 25               | 92              | 6.8            |
| M 10           | 1.5             | 20               | 100             | 8.5            |

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5540 3      | THR.HOLE MACHINE TAP 371B M 3 | 1 ü |
| 5540 4      | THR.HOLE MACHINE TAP 371B M 4 | 1 ü |
| 5540 5      | THR.HOLE MACHINE TAP 371B M 5 | 1 ü |
| 5540 6      | THR.HOLE MACHINE TAP 371B M 6 | 1 ü |
| 5540 8      | THR.HOLE MACHINE TAP 371M M 8 | 1 ü |
| 5540 9      | THR.HOLE MACHINE TAP 371B M 9 | 1   |
| 5540 10     | THR.HOLE MACHINE TAP 371B M10 | 1 ü |

# Spiral point machine tap DIN 376 HSS-E, form B

- For metric ISO-thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With overrun shaft (DIN 371)
- For through holes
- Spiral Point, grooved straight

**Applications:**

- Steel and cast steel, alloyed and non-alloyed up to a strength of 800 N/mm<sup>2</sup>, free-cutting steel, malleable cast iron, spheroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



| Technical Data |                 |                  |                 |                |
|----------------|-----------------|------------------|-----------------|----------------|
| Thread metric  | Thread pitch mm | Thread length mm | Total length mm | Core hole Ø mm |
| M 12           | 1.75            | 22               | 110             | 10.2           |
| M 14           | 2.0             | 24               | 110             | 12.0           |
| M 16           | 2.0             | 26               | 110             | 14.0           |
| M 18           | 2.5             | 30               | 125             | 15.5           |
| M 20           | 2.5             | 30               | 140             | 17.5           |
| M 22           | 2.5             | 30               | 140             | 19.5           |
| M 24           | 3.0             | 36               | 160             | 21.0           |

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5541 12     | THR.HOLE MACHINE TAP 376B M12 | 1 ü |
| 5541 14     | THR.HOLE MACHINE TAP 376B M14 | 1   |
| 5541 16     | THR.HOLE MACHINE TAP 376B M16 | 1   |
| 5541 18     | THR.HOLE MACHINE TAP 376B M18 | 1   |
| 5541 20     | THR.HOLE MACHINE TAP 376B M20 | 1   |
| 5541 22     | THR.HOLE MACHINE TAP 376B M22 | 1   |
| 5541 24     | THR.HOLE MACHINE TAP 376B M24 | 1   |

# Spiral point machine tap set DIN 371 HSS-E, form B

- 7-pcs in drill box

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5549 5540   | MACH.TAP THR.HOLES M3-12 7PCS | 1   |

**Contents:**

- Each 1x machine tap DIN 371 / 376 HSS-E, form B M3 / M4 / M5 / M6 / M8 / M10 / M12



# Spiral flute machine tap DIN 371 HSS-E, form C

- For metric ISO regular thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With toughened shaft
- For blind and pocket holes
- Short incision, 35° grooved to the right

**Applications:**

- Steel and cast steel, alloyed and non-alloyed up to a strength of 800 N/mm<sup>2</sup>, free-cutting steel, malleable cast iron, spheroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



| Technical Data |                 |           |                  |                |
|----------------|-----------------|-----------|------------------|----------------|
| Thread metric  | Thread pitch mm | Length mm | Thread length mm | Core hole-Ø mm |
| M 3            | 0.5             | 56        | 10               | 2.5            |
| M 4            | 0.7             | 63        | 12               | 3.3            |
| M 5            | 0.8             | 70        | 14               | 4.2            |
| M 6            | 1.0             | 80        | 16               | 5.0            |
| M 8            | 1.25            | 90        | 18               | 6.8            |
| M 10           | 1.5             | 100       | 20               | 8.5            |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5542 3      | BASE HOLE TAP 371 C 35°M 3 | 1 ü |
| 5542 4      | BASE HOLE TAP 371 C 35°M 4 | 1 ü |
| 5542 5      | BASE HOLE TAP 371 C 35°M 5 | 1 ü |
| 5542 6      | BASE HOLE TAP 371 C 35°M 6 | 1 ü |
| 5542 8      | BASE HOLE TAP 371 C 35°M 8 | 1 ü |
| 5542 10     | BASE HOLE TAP 371 C 35°M10 | 1 ü |

# Spiral flute machine tap DIN 376 HSS-E, form C

- For metric ISO regular thread according to DIN 13
- Tolerance ISO 2/6H
- 5 % cobalt alloy
- With overrun shaft (DIN 376)
- For base and blind holes
- With short incision, 35° grooved to the right

**Applications:**

- Steel and cast steel, alloyed and non-alloyed up to a strength of 800 N/mm<sup>2</sup>, free-cutting steel, malleable cast iron, spheroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



| Technical Data |                 |                  |                 |            |                |
|----------------|-----------------|------------------|-----------------|------------|----------------|
| Thread metric  | Thread pitch mm | Thread length mm | Total length mm | Shaft Ø mm | Core hole Ø mm |
| M12            | 1.75            | 22               | 110             | 9          | 10.2           |
| M14            | 2.0             | 24               | 110             | 11         | 12.0           |
| M16            | 2.0             | 26               | 110             | 12         | 14.0           |
| M18            | 2.5             | 30               | 125             | 14         | 15.5           |
| M20            | 2.5             | 30               | 140             | 16         | 17.5           |
| M24            | 3.0             | 36               | 160             | 18         | 21.0           |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5543 12     | BASE HOLE TAP 376 C 35°M12 | 1 ü |
| 5543 14     | BASE HOLE TAP 376 C 35°M14 | 1   |
| 5543 16     | BASE HOLE TAP 376 C 35°M16 | 1   |
| 5543 18     | BASE HOLE TAP 376 C 35°M18 | 1   |
| 5543 20     | BASE HOLE TAP 376 C 35°M20 | 1   |
| 5543 24     | BASE HOLE TAP 376 C 35°M24 | 1   |

# Spiral flute machine tap set DIN 376 HSS-E, form C

- 7-pcs in drill box

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5549 5542   | MACH.TAP BASE HOLE M3-12 7PCS | 1   |

**Contents:**

- Each 1x machine tap DIN 371 / 376 HSS-E, form C M3 / M4 / M5 / M6 / M8 / M10 / M12



# Hand tap DIN 352 HSS, metric

- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- Sets consist of taper tap, second tap and final cutter

**Applications:**

- Strength of material up to 700 N/mm<sup>2</sup>
- AGR 5530: set 3-pcs
- AGR 5531: taper tap
- AGR 5532: second tap
- AGR 5533: final cutter



| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5530 2      | HAND TAP SET 352 M 2    | 1   |
| 5530 3      | HAND TAP SET 352 M 3    | 1   |
| 5530 4      | HAND TAP SET 352 M 4    | 1   |
| 5530 5      | HAND TAP SET 352 M 5    | 1   |
| 5530 6      | HAND TAP SET 352 M 6    | 1   |
| 5530 7      | HAND TAP SET 352 M 7    | 1   |
| 5530 8      | HAND TAP SET 352 M 8    | 1   |
| 5530 10     | HAND TAP SET 352 M 10   | 1   |
| 5530 12     | HAND TAP SET 352 M 12   | 1   |
| 5530 14     | HAND TAP SET 352 M 14   | 1   |
| 5530 16     | HAND TAP SET 352 M 16   | 1   |
| 5530 18     | HAND TAP SET 352 M 18   | 1   |
| 5530 20     | HAND TAP SET 352 M 20   | 1   |
| 5530 22     | HAND TAP SET 352 M 22   | 1   |
| 5530 24     | HAND TAP SET 352 M 24   | 1   |
| 5531 3      | HAND TAP TAPER 352 M 3  | 1   |
| 5531 4      | HAND TAP TAPER 352 M 4  | 1 ü |
| 5531 5      | HAND TAP TAPER 352 M 5  | 1 ü |
| 5531 6      | HAND TAP TAPER 352 M 6  | 1 ü |
| 5531 7      | HAND TAP TAPER 352 M 7  | e 5 |
| 5531 8      | HAND TAP TAPER 352 M 8  | 1 ü |
| 5531 10     | HAND TAP TAPER 352 M 10 | 1 ü |
| 5531 12     | HAND TAP TAPER 352 M 12 | 1   |
| 5531 14     | HAND TAP TAPER 352 M 14 | 1   |
| 5531 16     | HAND TAP TAPER 352 M 16 | 1   |
| 5531 18     | HAND TAP TAPER 352 M 18 | 1   |
| 5531 20     | HAND TAP TAPER 352 M 20 | 1   |
| 5531 22     | HAND TAP TAPER 352 M 22 | 1   |
| 5531 24     | HAND TAP TAPER 352 M 24 | 1   |
| 5532 3      | HAND TAP SECOND 352 M 3 | 1   |
| 5532 4      | HAND TAP SECOND 352 M4  | 1 ü |
| 5532 5      | HAND TAP SECOND 352 M5  | 1 ü |
| 5532 6      | HAND TAP SECOND 352 M6  | 1 ü |
| 5532 7      | HAND TAP SECOND 352 M7  | 1   |
| 5532 8      | HAND TAP SECOND 352 M8  | 1 ü |
| 5532 10     | HAND TAP SECOND 352 M10 | 1 ü |
| 5532 12     | HAND TAP SECOND 352 M12 | 1   |
| 5532 14     | HAND TAP SECOND 352 M14 | 1 r |

| Technical Data |                 |                  |                 |                |
|----------------|-----------------|------------------|-----------------|----------------|
| Thread metric  | Thread pitch mm | Thread length mm | Total length mm | Core hole Ø mm |
| M2             | 0.4             | 8                | 36              | 1.6            |
| M3             | 0.5             | 11               | 40              | 2.5            |
| M4             | 0.7             | 13               | 45              | 3.3            |
| M5             | 0.8             | 16               | 50              | 4.2            |
| M6             | 1.0             | 19               | 56              | 5.0            |
| M7             | 1.0             | 19               | 56              | 6.0            |
| M8             | 1.25            | 22               | 63              | 6.8            |
| M10            | 1.5             | 24               | 70              | 8.5            |
| M12            | 1.75            | 29               | 75              | 10.2           |
| M14            | 2.0             | 30               | 80              | 12.0           |
| M16            | 2.0             | 32               | 80              | 14.0           |
| M18            | 2.5             | 40               | 95              | 15.5           |
| M20            | 2.5             | 40               | 95              | 17.5           |
| M22            | 2.5             | 40               | 100             | 19.5           |
| M24            | 3.0             | 50               | 110             | 21.0           |

| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5532 16     | HAND TAP SECOND 352 M16 | 1   |
| 5532 18     | HAND TAP SECOND 352 M18 | 1   |
| 5532 20     | HAND TAP SECOND 352 M20 | 1   |
| 5532 22     | HAND TAP SECOND 352 M22 | 1   |
| 5532 24     | HAND TAP SECOND 352 M24 | 1   |
| 5533 3      | HAND TAP PLUG 352 M 3   | 1 ü |
| 5533 4      | HAND TAP PLUG 352 M 4   | 1 ü |
| 5533 5      | HAND TAP PLUG 352 M 5   | 1 ü |
| 5533 6      | HAND TAP PLUG 352 M 6   | 1 ü |
| 5533 7      | HAND TAP PLUG 352 M 7   | 1   |
| 5533 8      | HAND TAP PLUG 352 M 8   | 1 ü |
| 5533 10     | HAND TAP PLUG 352 M 10  | 1 ü |
| 5533 12     | HAND TAP PLUG 352 M 12  | 1 ü |
| 5533 14     | HAND TAP PLUG 352 M 14  | 1 ü |
| 5533 16     | HAND TAP PLUG 352 M 16  | 1   |
| 5533 18     | HAND TAP PLUG 352 M 18  | 1   |
| 5533 20     | HAND TAP PLUG 352 M 20  | 1   |
| 5533 22     | HAND TAP PLUG 352 M 22  | 1   |
| 5533 24     | HAND TAP PLUG 352 M 24  | 1   |

# Hand tap set DIN 352, 21-pcs

**Art.-No. 5539 5530:**

- 21-pcs drill box

**Art.-No. 5539 5:**

- 28-pcs in drill box

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5539 5530   | HAND TAP BOX M 3-12 21-PIECES | 1   |
| 5539 5      | HAND TAP BOX M 3-12 28-PIECES | 1   |

**Contents Art.-No. 5539 5530:**

- Each 3x hand taps DIN 352 HSS, metric M3 / M4 / M5 / M6 / M8 / M10 / M12

**Contents Art.-No. 5539 5:**

- Each 3x hand taps DIN 352 HSS, metric M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS, roll forged Ø 2.5 / 3.3 / 4.2 / 5 / 6.8 / 8.5 / 10.2 mm



# Hand tap DIN 2181 HSS, fine thread

- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- Sets consist of pre-cutters and final cutters

**Applications:**

- Material up to 800 N/mm<sup>2</sup> tensile strength
- AGR 5535: 2 piece set
- AGR 5536: pre-cutter
- AGR 5537: final cutter



| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5535 3 035  | HAND TAP SET 2181 M 3X0.35  | 1   |
| 5535 4 05   | HAND TAP SET 2181 M 4X0.5   | 1   |
| 5535 5 05   | HAND TAP SET 2181 M 5X0.5   | 1   |
| 5535 6 075  | HAND TAP SET 2181 M 6X0.75  | 1   |
| 5535 8 075  | HAND TAP SET 2181 M 8X0.75  | 1   |
| 5535 8 1    | HAND TAP SET 2181 M 8X1     | 1   |
| 5535 10 1   | HAND TAP SET 2181 M 10X1    | 1   |
| 5535 10 125 | HAND TAP SET 2181 M 10X1.25 | 1   |
| 5535 12 1   | HAND TAP SET 2181 M 12X1    | 1   |
| 5535 12 125 | HAND TAP SET 2181 M 12X1.25 | 1   |
| 5535 12 15  | HAND TAP SET 2181 M 12X1.5  | 1   |
| 5535 14 125 | HAND TAP SET 2181 M 14X1.25 | 1   |
| 5535 14 15  | HAND TAP SET 2181 M 14X1.5  | 1   |
| 5535 16 15  | HAND TAP SET 2181 M 16X1.5  | 1   |
| 5535 18 15  | HAND TAP SET 2181 M 18X1.5  | 1   |
| 5535 20 15  | HAND TAP SET 2181 M 20X1.5  | 1   |
| 5535 22 15  | HAND TAP SET 2181 M 22X1.5  | 1   |
| 5535 24 15  | HAND TAP SET 2181 M 24X1.5  | 1   |
| 5536 8 1    | TAP TAPER 2181 M 8X1        | 1   |
| 5536 10 1   | TAP TAPER 2181 M 10X1       | 1   |
| 5536 10 125 | TAP TAPER 2181 M 10X1.25    | 1 ü |
| 5536 12 1   | TAP TAPER 2181 M 12X1       | 1 ü |
| 5536 12 125 | TAP TAPER 2181 M 12X1.25    | 1   |
| 5536 12 15  | TAP TAPER 2181 M 12X1.5     | 1   |
| 5536 14 125 | TAP TAPER 2181 M 14X1.25    | 1   |
| 5536 14 15  | TAP TAPER 2181 M 14X1.5     | 1   |
| 5536 16 15  | TAP TAPER 2181 M 16X1.5     | 1   |
| 5536 18 15  | TAP TAPER 2181 M 18X1.5     | 1   |
| 5536 20 15  | TAP TAPER 2181 M 20X1.5     | 1   |
| 5536 22 15  | TAP TAPER 2181 M 22X1.5     | 1   |
| 5536 24 15  | TAP TAPER 2181 M 24X1.5     | 1   |
| 5537 8 1    | TAP PLUG 2181 M 8X1         | 1   |
| 5537 10 1   | TAP PLUG 2181 M10X1         | 1 ü |
| 5537 10 125 | TAP PLUG 2181 M10X1.25      | 1   |
| 5537 12 1   | TAP PLUG 2181 M12X1         | 1   |
| 5537 12 125 | TAP PLUG 2181 M12X1.25      | 1 ü |
| 5537 12 15  | TAP PLUG 2181 M12X1.5       | 1 ü |
| 5537 14 125 | TAP PLUG 2181 M14X1.25      | 1   |
| 5537 14 15  | TAP PLUG 2181 M14X1.5       | 1   |
| 5537 16 15  | TAP PLUG 2181 M16X1.5       | 1   |
| 5537 18 15  | TAP PLUG 2181 M18X1.5       | 1   |
| 5537 20 15  | TAP PLUG 2181 M20X1.5       | 1   |
| 5537 22 15  | TAP PLUG 2181 M22X1.5       | 1   |
| 5537 24 15  | TAP PLUG 2181 M24X1.5       | 1   |

| Technical Data |                    |                  |                 |                |
|----------------|--------------------|------------------|-----------------|----------------|
| Thread metric  | Thread increase mm | Thread length mm | Total length mm | Core hole Ø mm |
| M3             | 0.35               | 9                | 40              | 2.7            |
| M4             | 0.50               | 10               | 45              | 3.5            |
| M5             | 0.50               | 12               | 50              | 4.5            |
| M6             | 0.75               | 14               | 50              | 5.2            |
| M8             | 0.75               | 19               | 50              | 7.2            |
| M8             | 1.00               | 22               | 56              | 7.0            |
| M10            | 1.00               | 20               | 63              | 9.0            |
| M10            | 1.25               | 24               | 70              | 8.8            |
| M12            | 1.00               | 22               | 70              | 11.0           |
| M12            | 1.25               | 22               | 70              | 10.8           |
| M12            | 1.50               | 22               | 70              | 10.5           |
| M14            | 1.25               | 22               | 70              | 12.8           |
| M14            | 1.50               | 22               | 70              | 12.5           |
| M16            | 1.50               | 22               | 70              | 14.5           |
| M18            | 1.50               | 22               | 80              | 16.5           |
| M20            | 1.50               | 22               | 80              | 18.5           |
| M22            | 1.50               | 22               | 80              | 20.5           |
| M24            | 1.50               | 22               | 90              | 22.5           |



# Hand tap DIN 352 HSS, UNC

- For American coarse threads UNC according to ANSI B 1.1
- Tolerance class 2B
- Sets consist of roughing tap, second tap and finishing tap

**Applications:**

- For materials with a tensile strength of up to 900 N/mm<sup>2</sup>



| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5558 14     | HAND TAP SET UNC 1/4"  | 1   |
| 5558 516    | HAND TAP SET UNC 5/16" | 1   |
| 5558 38     | HAND TAP SET UNC 3/8"  | 1   |
| 5558 716    | HAND TAP SET UNC 7/16" | 1   |
| 5558 12     | HAND TAP SET UNC 1/2"  | 1   |

| Technical Data |                         |                  |                 |                |           |
|----------------|-------------------------|------------------|-----------------|----------------|-----------|
| Thread UNC     | Thread pitches per inch | Thread length mm | Total length mm | Core hole Ø mm | Square mm |
| 1/4"           | 20                      | 19               | 50              | 5.4            | 4.9       |
| 5/16"          | 18                      | 22               | 56              | 6.8            | 4.9       |
| 3/8"           | 16                      | 24               | 70              | 8.3            | 5.5       |
| 7/16"          | 14                      | 24               | 70              | 9.7            | 6.2       |
| 1/2"           | 13                      | 29               | 75              | 11.2           | 7.0       |

# Hand tap DIN 2181 HSS, UNF

- For American fine threads UNF according to ANSI B 1.1
- Tolerance class 2B
- Sets consist of roughing tap and finishing tap

**Applications:**

- For materials with a tensile strength of up to 900 N/mm<sup>2</sup>



| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5556 14     | HAND TAP SET UNF 1/4"  | 1   |
| 5556 516    | HAND TAP SET UNF 5/16" | 1   |
| 5556 38     | HAND TAP SET UNF 3/8"  | 1   |
| 5556 716    | HAND TAP SET UNF 7/16" | 1   |
| 5556 12     | HAND TAP SET UNF 1/2"  | 1   |

| Technical Data |                         |                  |                 |                |           |
|----------------|-------------------------|------------------|-----------------|----------------|-----------|
| Thread UNF     | Thread pitches per inch | Thread length mm | Total length mm | Core hole Ø mm | Square mm |
| 1/4"           | 28                      | 18               | 50              | 5.5            | 4.9       |
| 5/16"          | 24                      | 22               | 56              | 6.9            | 4.9       |
| 3/8"           | 24                      | 22               | 63              | 8.5            | 5.5       |
| 7/16"          | 20                      | 22               | 63              | 9.9            | 6.2       |
| 1/2"           | 20                      | 24               | 75              | 11.5           | 7.0       |

# Hand tap DIN 5157 HSS, G(BSP)

- For British Whitworth pipe thread G(BSP) according to DIN ISO 228
- Sets consist of roughing tap and finishing tap

**Applications:**

- For materials with a tensile strength of up to 900 N/mm<sup>2</sup>



| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5578 18     | HAND TAP SET G(BSP) 1/8" | 1   |
| 5578 14     | HAND TAP SET G(BSP) 1/4" | 1   |
| 5578 38     | HAND TAP SET G(BSP) 3/8" | 1   |
| 5578 12     | HAND TAP SET G(BSP) 1/2" | 1   |
| 5578 34     | HAND TAP SET G(BSP) 3/4" | 1   |
| 5578 1      | HAND TAP SET G(BSP) 1"   | 1   |

| Technical Data |                         |                  |                  |                |           |
|----------------|-------------------------|------------------|------------------|----------------|-----------|
| Thread G(BSP)  | Thread pitches pro Inch | Thread length mm | Thread length mm | Core hole Ø mm | Square mm |
| 1/8"           | 28                      | 22               | 63               | 8.8            | 5.5       |
| 1/4"           | 19                      | 22               | 70               | 11.8           | 9.0       |
| 3/8"           | 19                      | 22               | 70               | 15.3           | 9.0       |
| 1/2"           | 14                      | 22               | 80               | 19.0           | 12.0      |
| 3/4"           | 14                      | 22               | 90               | 24.5           | 14.5      |
| 1"             | 11                      | 25               | 100              | 30.8           | 16.0      |

# Single-cut tap DIN 352 HSS-E, DL

- For metric ISO-thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- For through holes
- Short
- Grooved straightly
- Spiral point, ground
- Suitable for manual use as well as for hand drills, rechargeable and fixed machines

**Applications:**

- Materials up to a tensile strength of 900 N/mm<sup>2</sup>



**Technical Data**

| Thread mm | Pitch mm | Shaft Ø mm | Drill hole Ø mm |
|-----------|----------|------------|-----------------|
| M3        | 0.50     | 3.5        | 2.5             |
| M4        | 0.70     | 4.5        | 3.3             |
| M5        | 0.80     | 6.0        | 4.2             |
| M6        | 1.00     | 6.0        | 5.0             |
| M8        | 1.25     | 6.0        | 6.8             |
| M10       | 1.50     | 7.0        | 8.5             |
| M12       | 1.75     | 9.0        | 10.3            |
| M14       | 2.00     | 11.0       | 12.0            |
| M16       | 2.00     | 12.0       | 14.0            |
| M18       | 2.50     | 14.0       | 15.5            |
| M20       | 2.50     | 16.0       | 17.5            |

| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5534 3      | DL-SINGLE-CUT TAP 352B M 3  | e 5 |
| 5534 4      | DL-SINGLE-CUT TAP 352B M 4  | e 5 |
| 5534 5      | DL-SINGLE-CUT TAP 352B M 5  | e 5 |
| 5534 6      | SL-SINGLE-CUT TAP 352B M 6  | e 5 |
| 5534 8      | DL-SINGLE CUT TAP 352B M 8  | e 5 |
| 5534 10     | DL-SINGLE-CUT TAP 352B M 10 | e 5 |
| 5534 12     | DL-SINGLE-CUT TAP 352B M 12 | e 5 |
| 5534 14     | DL-SINGLE-CUT TAP 352B M 14 | 1   |
| 5534 16     | DL-SINGLE-CUT TAP 352B M 16 | 1   |
| 5534 18     | DL-SINGLE-CUT TAP 352B M 18 | 1   |
| 5534 20     | DL-SINGLE CUT TAP 352B M 20 | 1   |

# Single-cut tap set DIN 352 HSS-E, DL

- 15-pcs in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5539 5534   | DL SINGLE-CUT TAP M3-12 15-PCS | 1   |

**Contents:**

- Each 1x single-cut tap DIN 352 HSS-E, DL (through hole) M3 / M4 / M5 / M6 / M 8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E, ground Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- 1x adjustable tap wrench M1 – M12



# Single-cut tap DIN 352 HSS-E, GL

- For metric ISO regular thread according to DIN 13
- Tolerance ISO 2/6H
- 5 % cobalt alloy
- For base and blind holes up to 2x nominal-Ø deep
- Short
- 15° spiral point
- Suitable for manual use as well as for hand drills, rechargeable and fixed machines



**Technical Data**

| Thread metric | Thread pitch mm | Shaft Ø mm | Drill hole Ø mm |
|---------------|-----------------|------------|-----------------|
| M3            | 0.50            | 3.5        | 2.5             |
| M4            | 0.70            | 4.5        | 3.3             |
| M5            | 0.80            | 6.0        | 4.2             |
| M6            | 1.00            | 6.0        | 5.0             |
| M8            | 1.25            | 6.0        | 6.8             |
| M10           | 1.50            | 7.0        | 8.5             |
| M12           | 1.75            | 9.0        | 10.3            |

| Article No. | Article Description       | QTY |
|-------------|---------------------------|-----|
| 5555 3      | GL SINGLE-CUT TAP 352 M 3 | e 5 |
| 5555 4      | GL SINGLE-CUT TAP 352 M 4 | e 5 |
| 5555 5      | GL SINGLE-CUT TAP 352 M 5 | e 5 |
| 5555 6      | GL SINGLE-CUT TAP 352 M 6 | e 5 |
| 5555 8      | GL SINGLE-CUT TAP 352 M 8 | e 5 |
| 5555 10     | GL SINGLE-CUT TAP 352 M10 | e 5 |
| 5555 12     | GL SINGLE-CUT TAP 352 M12 | e 5 |

# Single-cut tap set DIN 352 HSS-E, GL

- 15-pcs in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5539 5555   | GL SINGLE-CUT TAP M3-12 15-PCS | 1   |

**Contents:**

- Each 1x single-cut tap DIN 352 HSS-E, GL (base hole) M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E, ground Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- 1x adjustable tap wrench M1 – M12



# Combi tap & drill HSS

- Drilling, threading and deburring in one operation
- With 1/4" hexagonal shaft
- Ground
- For material strength up to 1x d (M6 = 6 mm strength)

**Applications:**

- Materials up to a tensile strength of 500 N/mm<sup>2</sup>



| Article No. | Article Description   | QTY |
|-------------|-----------------------|-----|
| 5545 3      | COMBI TAP & DRILL M 3 | 1   |
| 5545 4      | COMBI TAP & DRILL M 4 | 1   |
| 5545 5      | COMBI TAP & DRILL M 5 | 1   |
| 5545 6      | COMBI TAP & DRILL M 6 | 1 ü |
| 5545 8      | COMBI TAP & DRILL M 8 | 1   |
| 5545 10     | COMBI TAP & DRILL M10 | 1   |

| Technical Data |                 |                 |
|----------------|-----------------|-----------------|
| Thread metric  | Thread pitch mm | Total length mm |
| M3             | 0.50            | 36              |
| M4             | 0.70            | 39              |
| M5             | 0.80            | 41              |
| M6             | 1.00            | 44              |
| M8             | 1.25            | 50              |
| M10            | 1.50            | 59              |

# Combi tap & drill set HSS-G

- 7-pcs in drill box

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5549 5545   | C.TAP&DRILL TAP BOX M3-10 7PCS | 1   |

**Contents:**

- Each 1x combi tap drill HSS M3 / M4 / M5 / M6 / M8 / M10
- 1x bit holder



# Die DIN/EN 22568 HSS-E, form B

- 5 % cobalt alloy
- For metric ISO-thread according to DIN 13, tolerance class g6
- Closed, pre-slitted
- With long chamfer and spiral point for good chip removal
- Nitridated surfaces for higher service life

**Applications:**

- Materials up to a strength of 1,200 N/mm<sup>2</sup> such as stainless steel



| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5554 3      | DIE 22568 M 3       | 1   |
| 5554 4      | DIE 22568 M 4       | 1   |
| 5554 5      | DIE 22568 M 5       | 1   |
| 5554 6      | DIE 22568 M 6       | 1   |
| 5554 8      | DIE 22568 M 8       | 1   |
| 5554 10     | DIE 22568 M10       | 1   |
| 5554 12     | DIE 22568 M12       | 1   |
| 5554 14     | DIE 22568 M14       | 1   |
| 5554 16     | DIE 22568 M16       | 1   |
| 5554 18     | DIE 22568 M18       | 1   |
| 5554 20     | DIE 22568 M20       | 1   |
| 5554 22     | DIE 22568 M22       | 1   |
| 5554 24     | DIE 22568 M24       | 1   |

**Technical Data**

| Thread metric | Thread pitch mm | Ø mm | Height mm |
|---------------|-----------------|------|-----------|
| M3            | 0.50            | 20   | 5         |
| M4            | 0.70            | 20   | 5         |
| M5            | 0.80            | 20   | 7         |
| M6            | 1.00            | 20   | 7         |
| M8            | 1.25            | 25   | 9         |
| M10           | 1.50            | 30   | 11        |
| M12           | 1.75            | 38   | 14        |
| M14           | 2.00            | 38   | 14        |
| M16           | 2.00            | 45   | 18        |
| M18           | 2.50            | 45   | 18        |
| M20           | 2.50            | 45   | 18        |
| M22           | 2.50            | 55   | 22        |
| M24           | 3.00            | 55   | 22        |

# Die DIN/EN 22568 HSS, form B

- For metric ISO regular thread according to DIN 13, tolerance g6
- Closed, pre-slitted
- With spiral point for good chip removal

**Applications:**

- Materials up to a strength of 700 N/mm<sup>2</sup>



| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5550 3      | DIE 223 M 3         | 1   |
| 5550 4      | DIE 223 M 4         | 1   |
| 5550 5      | DIE 223 M 5         | 1   |
| 5550 6      | DIE 223 M 6         | 1   |
| 5550 7      | DIE 223 M 7         | 1   |
| 5550 8      | DIE 223 M 8         | 1   |
| 5550 10     | DIE 223 M10         | 1   |
| 5550 12     | DIE 223 M12         | 1   |
| 5550 14     | DIE 223 M14         | 1   |
| 5550 16     | DIE 223 M16         | 1   |
| 5550 18     | DIE 223 M18         | 1   |
| 5550 20     | DIE 223 M20         | 1   |
| 5550 22     | DIE 223 M22         | 1   |
| 5550 24     | DIE 223 M24         | 1   |

**Technical Data**

| Thread metric | Thread pitch mm | Ø mm | Height mm |
|---------------|-----------------|------|-----------|
| M 3           | 0.5             | 20   | 5         |
| M 4           | 0.7             | 20   | 5         |
| M 5           | 0.8             | 20   | 7         |
| M 6           | 1.0             | 20   | 7         |
| M 7           | 1.0             | 25   | 9         |
| M 8           | 1.25            | 25   | 9         |
| M 10          | 1.5             | 30   | 11        |
| M 12          | 1.75            | 38   | 14        |
| M 14          | 2.0             | 38   | 14        |
| M 16          | 2.0             | 45   | 18        |
| M 18          | 2.5             | 45   | 18        |
| M 20          | 2.5             | 45   | 18        |
| M 22          | 2.5             | 55   | 22        |
| M 24          | 3.0             | 55   | 22        |

# Die DIN/EN 22568 HSS, fine thread

- For metric ISO fine thread according to DIN 13, tolerance g6
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

**Applications:**

- Materials up to a strength of 800 N/mm<sup>2</sup>



| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5551 3 035  | DIE 223 FINE M 3X0.35  | 1   |
| 5551 4 05   | DIE 223 FINE M 4X0.5   | 1   |
| 5551 5 05   | DIE 223 FINE M 5X0.5   | 1   |
| 5551 6 075  | DIE 223 FINE M 6X0.75  | 1   |
| 5551 8 075  | DIE 223 FINE M 8X0.75  | 1   |
| 5551 8 1    | DIE 223 FINE M 8X1     | 1   |
| 5551 10 1   | DIE 223 FINE M 10X1    | 1   |
| 5551 10 125 | DIE 223 FINE M 10X1.25 | 1   |
| 5551 12 1   | DIE 223 FINE M 12X1    | 1   |
| 5551 12 125 | DIE 223 FINE M 12X1.25 | 1   |
| 5551 12 15  | DIE 223 FINE M 12X1.5  | 1   |
| 5551 14 125 | DIE 223 FINE M 14X1.25 | 1   |
| 5551 14 15  | DIE 223 FINE M 14X1.5  | 1   |
| 5551 16 15  | DIE 223 FINE M 16X1.5  | 1   |
| 5551 18 15  | DIE 223 FINE M 18X1.5  | 1   |
| 5551 20 15  | DIE 223 FINE M 20X1.5  | 1   |
| 5551 22 15  | DIE 223 FINE M 22X1.5  | 1   |
| 5551 24 15  | DIE 223 FINE M 24X1.5  | 1   |

| Technical Data |      |           |  |
|----------------|------|-----------|--|
| Thread metric  | Ø mm | Height mm |  |
| M3 × 0.35      | 20   | 5         |  |
| M4 × 0.50      | 20   | 5         |  |
| M5 × 0.50      | 20   | 5         |  |
| M6 × 0.75      | 20   | 7         |  |
| M8 × 0.75      | 25   | 9         |  |
| M8 × 1.00      | 25   | 9         |  |
| M10 × 1.00     | 30   | 11        |  |
| M10 × 1.25     | 30   | 11        |  |
| M12 × 1.00     | 38   | 10        |  |
| M12 × 1.25     | 38   | 10        |  |
| M12 × 1.50     | 38   | 10        |  |
| M14 × 1.25     | 38   | 10        |  |
| M14 × 1.50     | 38   | 10        |  |
| M16 × 1.50     | 45   | 14        |  |
| M18 × 1.50     | 45   | 14        |  |
| M20 × 1.50     | 45   | 14        |  |
| M22 × 1.50     | 55   | 16        |  |
| M24 × 1.50     | 55   | 16        |  |

# Die DIN/EN 22568 HSS, UNC

- For US coarse thread UNC according to ANSI B 1.1
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

**Applications:**

- Materials up to a tensile strength of 800 N/mm<sup>2</sup>



| Article No. | Article Description  | QTY |
|-------------|----------------------|-----|
| 5559 14     | DIE DIN223 UNC 1/4"  | 1   |
| 5559 516    | DIE DIN223 UNC 5/16" | 1   |
| 5559 38     | DIE DIN223 UNC 3/8"  | 1   |
| 5559 716    | DIE DIN223 UNC 7/16" | 1   |
| 5559 12     | DIE DIN223 UNC 1/2"  | 1   |

| Technical Data |                 |      |           |
|----------------|-----------------|------|-----------|
| Thread UNC     | Thread per inch | Ø mm | Height mm |
| 1/4"           | 20              | 20   | 7         |
| 5/16"          | 18              | 25   | 9         |
| 3/8"           | 16              | 30   | 11        |
| 7/16"          | 14              | 30   | 11        |
| 1/2"           | 13              | 38   | 14        |



# Die DIN/EN 22568 HSS, UNF

- For US fine thread UNF according to ANSI B 1.1
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

**Applications:**

- Materials up to a tensile strength of 800 N/mm<sup>2</sup>



| Article No. | Article Description  | QTY |
|-------------|----------------------|-----|
| 5557 14     | DIE DIN223 UNF 1/4"  | 1   |
| 5557 516    | DIE DIN223 UNF 5/16" | 1   |
| 5557 38     | DIE DIN223 UNF 3/8"  | 1   |
| 5557 716    | DIE DIN223 UNF 7/16" | 1   |
| 5557 12     | DIE DIN223 UNF 1/2"  | 1   |

| Technical Data |                 |      |           |
|----------------|-----------------|------|-----------|
| Thread         | Thread per inch | Ø mm | Height mm |
| UNF            |                 |      |           |
| 1/4"           | 28              | 20   | 7         |
| 5/16"          | 24              | 25   | 9         |
| 3/8"           | 24              | 30   | 11        |
| 7/16"          | 20              | 30   | 11        |
| 1/2"           | 20              | 38   | 10        |

# Die DIN/EN 24231 HSS, G(BSP)

- For British Whitworth pipe thread (BSP) according to DIN ISO 228
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

**Applications:**

- Materials up to a tensile strength of 800 N/mm<sup>2</sup>



| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5579 18     | DIE G (BSP) 1/8"    | 1   |
| 5579 14     | DIE G (BSP) 1/4"    | 1   |
| 5579 38     | DIE G (BSP) 3/8"    | 1   |
| 5579 12     | DIE G (BSP) 1/2"    | 1   |
| 5579 34     | DIE G (BSP) 3/4"    | 1   |
| 5579 1      | DIE G (BSP) 1"      | 1   |

| Technical Data |                 |      |           |
|----------------|-----------------|------|-----------|
| Thread G(BSP)  | Thread per inch | Ø mm | Height mm |
| 1/8"           | 28              | 30   | 11        |
| 1/4"           | 19              | 38   | 10        |
| 3/8"           | 19              | 45   | 14        |
| 1/2"           | 14              | 55   | 16        |
| 3/4"           | 14              | 55   | 16        |
| 1"             | 11              | 65   | 18        |

# Adjustable tap wrench DIN 1814

- For use with hand taps, with square



| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5560 0      | TAP WRENCH 1814 SIZE 0       | 1   |
| 5560 1      | TAP WRENCH 1814 SIZE 1       | 1   |
| 5560 1 12   | TAP WRANCH 1814 SIZE 1 1/2   | 1   |
| 5560 2      | TAP WRENCH 1814 SIZE 2       | 1   |
| 5560 3      | TAP WRENCH 1814 SIZE 3       | 1   |
| 5560 4      | TAP WRENCH 1814 SIZE 4       | 1   |
| 5560 5      | TAP WRENCH 1814 SIZE 5       | 1   |
| 5560 5 1    | TAP WRENCH 1814 SIZE 5 SHORT | 1   |

| Technical Data |           |               |            |
|----------------|-----------|---------------|------------|
| Size           | Length mm | For square mm | For tap mm |
| 0              | 125       | 2.1 – 4.9     | M1 – 8     |
| 1              | 180       | 2.1 – 5.5     | M1 – 10    |
| 1 1/2          | 180       | 2.1 – 7.0     | M1 – 12    |
| 2              | 280       | 3.8 – 7.0     | M4 – 12    |
| 3              | 375       | 4.9 – 12.0    | M5 – 20    |
| 4              | 500       | 5.5 – 16.0    | M9 – 27    |
| 5              | 750       | 7.0 – 20.0    | M12 – 33   |
| 5              | 500       | 7.0 – 20.0    | M13 – 32   |

# Tap wrench with ratchet, short

- With clockwise and anti-clockwise turning

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5562 1      | TAP WRENCH W.RATCH.SHORT M3-10 | 1   |
| 5562 2      | TAP WRENCH W.RATCH.SHORT M5-12 | 1   |

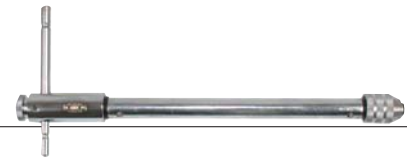


| Technical Data |           |               |
|----------------|-----------|---------------|
| For tap mm     | Length mm | For square mm |
| M3 – 10        | 85        | 2.7 – 5.5     |
| M5 – 12        | 110       | 4.9 – 7.0     |

# Tap wrench with ratchet, long

- With clockwise and anti-clockwise turning

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5562 10     | TAP WRENCH W.RATCH.LONG M3-10 | 1   |
| 5562 20     | TAP WRENCH W.RATCH.LONG M5-12 | 1   |



| Technical Data |           |               |
|----------------|-----------|---------------|
| For tap mm     | Length mm | For square mm |
| M3 – 10        | 255       | 2.7 – 5.5     |
| M5 – 12        | 310       | 4.9 – 7.0     |

# Extension DIN 377

- For holding taps, with square

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5561 27     | EXTENSION 377 F. M 3 2.7      | 1   |
| 5561 34     | EXTENSION 377 F. M 4-4.5 3.4  | 1   |
| 5561 49     | EXTENSION 377 F. M 5-8 4.9    | 1   |
| 5561 55     | EXTENSION 377 F. M 9-10 5.5   | 1   |
| 5561 70     | EXTENSION 377 F. M 12 7.0     | 1   |
| 5561 90     | EXTENSION 377 F. M 14-16 9.0  | 1   |
| 5561 110    | EXTENSION 377 F. M 18 11.0    | 1   |
| 5561 120    | EXTENSION 377 F. M 20 12.0    | 1   |
| 5561 145    | EXTENSION 377 F. M 22-24 14.5 | 1   |



| Technical Data |           |               |
|----------------|-----------|---------------|
| For tap mm     | Length mm | For square mm |
| M3             | 80        | 2.7           |
| M4             | 95        | 3.4           |
| M4.5 – 8       | 110       | 4.9           |
| M9 – 10        | 115       | 5.5           |
| M12            | 125       | 7.0           |
| M14 – 16       | 130       | 9.0           |
| M18            | 150       | 11.0          |
| M20            | 155       | 12.0          |
| M22 – 24       | 175       | 14.5          |

# Die holder DIN 225

- For holding thread die DIN 223, form B

| Article No. | Article Description  | QTY |
|-------------|----------------------|-----|
| 5563 20 5   | DIE HOLDER 225 20X5  | 1   |
| 5563 20 7   | DIE HOLDER 225 20X7  | 1   |
| 5563 25 9   | DIE HOLDER 225 25X9  | 1   |
| 5563 30 11  | DIE HOLDER 225 30X11 | 1   |
| 5563 38 10  | DIE HOLDER 225 38X10 | 1   |
| 5563 38 14  | DIE HOLDER 225 38X14 | 1   |
| 5563 45 14  | DIE HOLDER 225 45X14 | 1   |
| 5563 45 18  | DIE HOLDER 225 45X18 | 1   |
| 5563 55 16  | DIE HOLDER 225 55X16 | 1   |
| 5563 55 22  | DIE HOLDER 225 55X22 | 1   |
| 5563 65 18  | DIE HOLDER 225 65X18 | 1   |



| Technical Data |           |                            |                        |
|----------------|-----------|----------------------------|------------------------|
| Ø x H mm       | Length mm | For standard metric thread | For metric fine thread |
| 20 x 5         | 200       | M3 – 4                     | M3 – 4                 |
| 20 x 7         | 200       | M5 – 6                     | M5 – 6                 |
| 25 x 9         | 220       | M7 – 9                     | M7 – 9                 |
| 30 x 11        | 280       | M10 – 11                   | M10 – 11               |
| 38 x 10        | 315       |                            | M12 – 14               |
| 38 x 14        | 315       | M12 – 14                   |                        |
| 45 x 14        | 450       |                            | M16 – 20               |
| 45 x 18        | 450       | M16 – 20                   |                        |
| 55 x 16        | 490       |                            | M22 – 24               |
| 55 x 22        | 490       | M22 – 24                   |                        |
| 65 x 18        | 630       |                            | M27 – 36               |

# Tap & die set professional 45-pcs, metric

- For metric ISO regular thread according to DIN 13
- In high-quality metal box

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5569 551    | TAP & DIE SET 3-12 45-PIECES | 1   |

**Contents:**

- Each 3x AGR 5530 hand tap DIN 352, metric M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x core hole twist drill Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- Each 1x AGR 5550 Die DIN / EN 22568 HSS, form B M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 2
- Each 1x die holder DIN 225 20 x 5 / 20 x 7 / 25 x 9 / 30 x 11 / 38 x 14
- 1x thread gauge
- 1x screwdriver



# Tap & die set professional 54-pcs, metric

- For metric ISO regular thread according to DIN 13
- In high-quality metal box

| Article No. | Article Description       | QTY |
|-------------|---------------------------|-----|
| 5569 552    | TAP & DIE SET 3-20 54-PCS | 1   |

**Contents:**

- Each 3x AGR 5530 hand tap DIN 352, metric M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14 / M16 / M18 / M20
- Each 1x AGR 5550 Die DIN/EN 22568 HSS, form B M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14 / M16 / M18 / M20
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 3
- Each 1x die holder DIN 225 20 x 5 / 20 x 7 / 25 x 9 / 30 x 11 / 38 x 14 / 45 x 18
- 1x thread gauge
- 1x screwdriver



# Tap & die set standard 43-pcs, metric

- For metric ISO regular thread according to DIN 13
- In plastic case

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5569 553    | TAP & DIE SET M3-M12 43-PIECES | 1   |

**Contents:**

- Each 3x AGR 5530 hand tap DIN 352, metric M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x AGR 5550 die DIN / EN 22568 HSS, form B M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 2
- Each 1x die holder DIN 225 20 x 5 / 20 x 7 / 25 x 9 / 30 x 11 / 38 x 14
- Each 1x core hole twist drill Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- 1x thread gauge



# Thread cutting set, 33-piece, fine thread

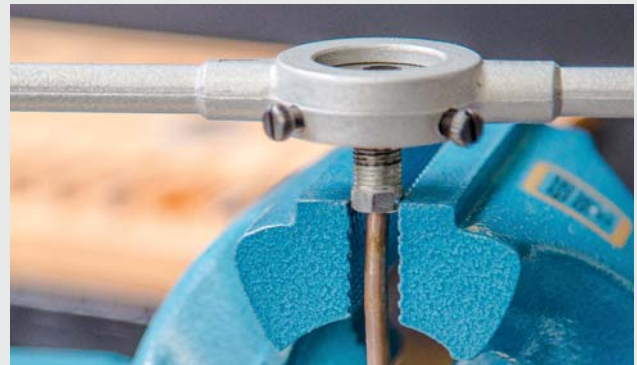
- For metric ISO fine thread according to DIN 13

## Your Advantage / Benefit

- Standard dimensions M3 – M12 with roughing tap and finishing tap in high-quality metal box with wood inlay
- Better power transmission with identical tightening torque compared with standard threads
- Greater core diameter for high load capacity
- Self-loosening is reduced through a lower pitch angle
- Allows finer adjustment

## Application

- For materials with a tensile strength of up to 800 N/mm<sup>2</sup>



| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5569 560    | THR.CUTT.SET MF 3-12 33-PCE | 1   |

### Contents:

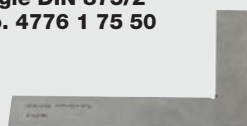
- Each 2x AGR 5535 hand tap DIN 2181, metric fine thread M3 x 0.35 / M4 x 0.5 / M5 x 0.5 / M6 x 0.75 / M8 x 1.0 / M10 x 1.0 / M12 x 1.5
- Each 1x AGR 5551 threading die DIN /EN 22568 HSS, shape B M3 x 0.35 / M4 x 0.5 / M5 x 0.5 / M6 x 0.75 / M8 x 1.0 / M10 x 1.0 / M12 x 1.5
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 2
- Each 1x die stock DIN 225 20 x 5 / 25 x 9 / 30 x 11 / 38 x 10
- 1x tap wrench with ratchet M3 – 10
- 1x thread gauge Art.-No. 4965 20
- 1x screwdriver

## Related Products

- **Thread Cutting Oil**  
Art.-No. 6580 5851



- **Flat angle DIN 875/2**  
Art.-No. 4776 1 75 50



- **Twist Drill DIN 338 HSS, Fully Ground**  
Art.-No. 5509 5501 5  
Ø 1.0 – 6.0 mm  
Art.-No. 5509 5501 6  
Ø 6.0 – 10.0 mm





# Thread cutting set, 29-piece, UNC

- For American coarse threads UNC according to ANSI B 1.1
- In high-quality metal box with wood inlay

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5569 580    | THR.CUTT.SET UNC 1/4-1/2"29PCE | 1   |

**Contents:**

- Each 3x AGR 5558 hand tap DIN 352, UNC  
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x AGR 5559 threading die DIN / EN 22568 HSS, shape B  
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x tap wrench DIN 1814, adjustable  
size 1 / size 2
- Each 1x die stock DIN 225  
20 x 7 / 25 x 9 / 30 x 11 / 38 x 14
- 1x tap wrench with ratchet M3 – 10
- 1x thread gauge Art.-No. 4965 20
- 1x screwdriver



# Thread cutting set, 24-piece, UNF

- For American fine threads UNF according to ANSI B 1.1
- In high-quality metal box with wood inlay

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5569 590    | THR.CUTT.SET UNC 1/4-1/2"24PCE | 1   |

**Contents:**

- Each 2x AGR 5556 hand tap DIN 2181, UNF  
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x AGR 5557 threading die DIN / EN 22568 HSS, shape B  
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x tap wrench DIN 1814, adjustable  
size 1 / size 2
- Each 1x die stock DIN 225  
20 x 7 / 25 x 9 / 30 x 11 / 38 x 10
- 1x tap wrench with ratchet M3 – 10
- 1x thread gauge Art.-No. 4965 20
- 1x screwdriver



# Thread cutting set, 26-piece, G(BSP)

- For British pipe thread G(BSP) according to DIN ISO 228
- In high-quality metal box with wood inlay

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5569 570    | THR.CUTT.SET G(BSP)1/8-1"26PCE | 1   |

**Contents:**

- Each 2x AGR 5578 hand tap DIN 5157, G(BSP)  
1/8" / 1/4" / 3/8" / 1/2" / 3/4" / 1"
- Each 1x AGR 5579 threading die DIN / EN 24231 HSS, shape B  
1/8" / 1/4" / 3/8" / 1/2" / 3/4" / 1"
- Each 1x tap wrench DIN 1814, adjustable  
size 1 / size 3 / size 5 short
- Each 1x die stock DIN 225  
30 x 11 / 38 x 10 / 45 x 14 / 55 x 16 / 65 x 18





# Tap & die set with ratchet wrench

- In plastic case Art.-No. 4415 14 16 1
- With VAROsoft contoured lining (Art.-No. 9026 711)

**Contents:**

| Art.-No.     | Article Description            | Quantity |
|--------------|--------------------------------|----------|
| 4156 4       | HEX-PLUS ALLEN WRENCH 4        | 1        |
| 4415 12 25 1 | EMPTY CASE SIZE A+             | 1        |
| 4965 12      | THREAD GAUGE METRIC            | 1        |
| 5534 3 1     | SINGLE-CUT TAP M 3             | 1        |
| 5534 4 1     | SINGLE-CUT TAP M 4             | 1        |
| 5534 5 1     | SINGLE-CUT TAP M 5             | 1        |
| 5534 6 1     | SINGLE-CUT TAP M 6             | 1        |
| 5534 8 1     | SINGLE-CUT TAP M 8             | 1        |
| 5534 10 1    | SINGLE-CUT TAP M 10            | 1        |
| 5534 12 1    | SINGLE-CUT TAP M 12            | 1        |
| 5553 3 1     | DIE NUT FOR SPANNER M 3        | 1        |
| 5553 4 1     | DIE NUT FOR SPANNER M 4        | 1        |
| 5553 5 1     | DIE NUT FOR SPANNER M 5        | 1        |
| 5553 6 1     | DIE NUT FOR SPANNER M 6        | 1        |
| 5553 8 1     | DIE NUT FOR SPANNER M 8        | 1        |
| 5553 10 1    | DIE NUT FOR SPANNER M10        | 1        |
| 5553 12 1    | DIE NUT FOR SPANNER M12        | 1        |
| 5562 125     | TOOL HOLDER - HANDLE 125MM     | 1        |
| 5562 3881    | TAP & DIE RATCHET 3881         | 1        |
| 5562 3882    | TAP TOOL H.F.TAP&DIE WR.SMALL  | 1        |
| 5562 3883    | TAP TOOL H.F.TAP&DIE WR.BIG    | 1        |
| 5562 3884    | DIE NUT TOOL HOLD.F.TAP/DIE WR | 1        |



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5569 554    | VS TAP&DIE SET.RATC.3-12 21PCS | 1   |

# Tap & die ratchet

| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5562 3881   | TAP & DIE RATCHET 3881 | 1   |



# Tool holder

**Art.-No. 5562 3882:**

- For tap M3 – M10

**Art.-No. 5562 3883:**

- For tap M12

**Art.-No. 5562 3884:**

- For die nut for wrench M3 – M12 (1" adaptor)

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5562 3882   | TAP TOOL H.F.TAP&DIE WR.SMALL  | 1   |
| 5562 3883   | TAP TOOL H.F.TAP&DIE WR.BIG    | 1   |
| 5562 3884   | DIE NUT TOOL HOLD.F.TAP/DIE WR | 1   |



5562 3882

5562 3883

5562 3884

# Tool holder - handle

- Length: 125 mm

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5562 125    | TOOL HOLDER - HANDLE 125MM | 1   |



# Die nut for spanner

| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5553 3 1    | DIE NUT FOR SPANNER M 3 | 1   |
| 5553 4 1    | DIE NUT FOR SPANNER M 4 | 1   |
| 5553 5 1    | DIE NUT FOR SPANNER M 5 | 1   |
| 5553 6 1    | DIE NUT FOR SPANNER M 6 | 1   |
| 5553 8 1    | DIE NUT FOR SPANNER M 8 | 1   |
| 5553 10 1   | DIE NUT FOR SPANNER M10 | 1   |
| 5553 12 1   | DIE NUT FOR SPANNER M12 | 1   |



# Single-cut tap

| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5534 3 1    | SINGLE-CUT TAP M 3  | 1   |
| 5534 4 1    | SINGLE-CUT TAP M 4  | 1   |
| 5534 5 1    | SINGLE-CUT TAP M 5  | 1   |
| 5534 6 1    | SINGLE-CUT TAP M 6  | 1   |
| 5534 8 1    | SINGLE-CUT TAP M 8  | 1   |
| 5534 10 1   | SINGLE-CUT TAP M 10 | 1   |
| 5534 12 1   | SINGLE-CUT TAP M 12 | 1   |

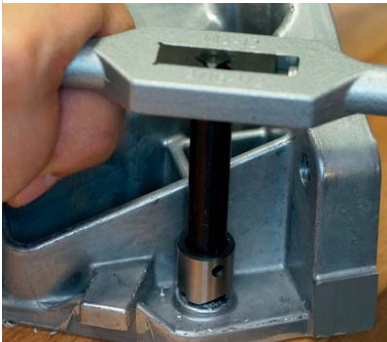


# Mebux<sup>®</sup> thread inserts

## Application - Metric thread



**Step 1:**  
Drill out the damaged thread with the Mebux HSS drill bit (C) to the bottom. Pay attention to the direction of the hole



**Step 2:**  
Use the Mebux fit milling cutter (D) to countersink the hole until the depth stop is resting on the workpiece.



**Step 3:**  
The thread cutter (B) can now be used to cut a new thread. Straight guidance in the bore hole is important. Turn out the thread cutter (B) once the full drilling depth has been reached and blow out the chips.



**Step 4:**  
Noticeable resistance occurs when the threaded sleeve has been fully inserted into the thread using the lubricated turning tool (A). Continue to turn the tool until the turning-in resistance drops perceptibly. Only this method ensures that the sleeve is pressed into the threads of the work piece.



A =  
Screw-in tool



B =  
Thread cutter

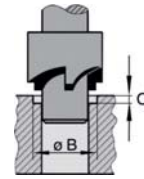
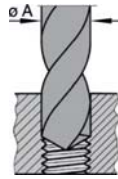
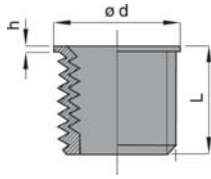


C =  
Drill bit



D =  
Seat burr, tap borer

# Mebux® Threaded bushing, galvanized



| Art.-No.        | Internal thread | Thread | L mm | ø d mm | h mm | ø A mm | ø B mm | C mm |
|-----------------|-----------------|--------|------|--------|------|--------|--------|------|
| 5572 4 07 60    | M4 × 0.7        | MR     | 6.0  | 5.5    | 0.75 | 4.2    | 5.8    | 1.7  |
| 5572 4 07 80    | M4 × 0.7        | MR     | 8.0  | 5.5    | 0.75 | 4.2    | 5.8    | 1.7  |
| 5572 5 08 76    | M5 × 0.8        | MR     | 7.6  | 7.0    | 0.75 | 5.05   | 7.1    | 1.8  |
| 5572 5 08 100   | M5 × 0.8        | MR     | 10.0 | 7.0    | 0.75 | 5.05   | 7.1    | 1.8  |
| 5572 6 10 94    | M6 × 1.0        | MR     | 9.4  | 8.0    | 0.75 | 6.25   | 8.1    | 1.8  |
| 5572 6 10 120   | M6 × 1.0        | MR     | 12.0 | 8.0    | 0.75 | 6.25   | 8.1    | 1.8  |
| 5572 7 10 100   | M7 × 1.0        | MF     | 10.0 | 8.8    | 0.75 | 7.35   | 8.9    | 1.9  |
| 5572 7 10 140   | M7 × 1.0        | MF     | 14.0 | 8.8    | 0.75 | 7.35   | 8.9    | 1.9  |
| 5572 8 125 117  | M8 × 1.25       | MR     | 11.7 | 10.6   | 0.75 | 8.2    | 10.7   | 2.1  |
| 5572 8 125 162  | M8 × 1.25       | MR     | 16.2 | 10.6   | 0.75 | 8.2    | 10.7   | 2.1  |
| 5572 9 125 130  | M9 × 1.25       | MF     | 13.0 | 11.0   | 0.75 | 9.3    | 11.2   | 2.1  |
| 5572 9 125 180  | M9 × 1.25       | MF     | 18.0 | 11.0   | 0.75 | 9.3    | 11.2   | 2.1  |
| 5572 10 10 150  | M10 × 1.0       | MF     | 15.0 | 11.6   | 0.75 | 10.3   | 12.9   | 2.0  |
| 5572 10 125 150 | M10 × 1.25      | MF     | 15.0 | 12.6   | 0.75 | 10.3   | 12.9   | 2.2  |
| 5572 10 125 200 | M10 × 1.25      | MF     | 20.0 | 12.6   | 0.75 | 10.3   | 12.9   | 2.2  |
| 5572 10 15 140  | M10 × 1.5       | MR     | 14.0 | 12.6   | 0.75 | 10.3   | 12.9   | 2.2  |
| 5572 10 15 200  | M10 × 1.5       | MR     | 20.0 | 12.6   | 0.75 | 10.3   | 12.9   | 2.2  |
| 5572 11 125 220 | M11 × 1.25      | MF     | 22.0 | 13.5   | 0.75 | 11.5   | 14.1   | 2.6  |
| 5572 11 15 160  | M11 × 1.5       | MF     | 16.0 | 13.5   | 0.75 | 11.5   | 14.1   | 2.1  |
| 5572 11 15 220  | M11 × 1.5       | MF     | 22.0 | 13.5   | 0.75 | 11.5   | 14.1   | 2.1  |
| 5572 12 15 93   | M12 × 1.5       | MF     | 9.3  | 15.0   | 0.75 | 12.3   | 15.1   | 2.1  |
| 5572 12 15 163  | M12 × 1.5       | MF     | 16.3 | 15.0   | 0.75 | 12.3   | 15.1   | 2.1  |
| 5572 12 15 240  | M12 × 1.5       | MF     | 24.0 | 15.0   | 0.75 | 12.3   | 15.1   | 2.1  |
| 5572 12 175 162 | M12 × 1.75      | MR     | 16.2 | 15.0   | 0.75 | 12.7   | 15.4   | 2.8  |
| 5572 12 175 240 | M12 × 1.75      | MR     | 24.0 | 15.0   | 0.75 | 12.7   | 15.4   | 2.8  |
| 5572 14 15 65   | M14 × 1.5       | MF     | 6.5  | 17.0   | 0.75 | 14.7   | 17.1   | 2.8  |
| 5572 14 15 93   | M14 × 1.5       | MF     | 9.3  | 17.0   | 0.75 | 14.7   | 17.1   | 2.8  |
| 5572 14 15 128  | M14 × 1.5       | MF     | 12.8 | 17.0   | 0.75 | 14.7   | 17.1   | 2.8  |
| 5572 14 15 160  | M14 × 1.5       | MF     | 16.0 | 17.0   | 0.75 | 14.7   | 17.1   | 2.8  |
| 5572 14 15 260  | M14 × 1.5       | MF     | 26.0 | 17.0   | 0.75 | 14.7   | 17.1   | 2.8  |
| 5572 16 15 70   | M16 × 1.5       | MF     | 7.0  | 18.5   | 0.75 | 16.7   | 19.0   | 2.9  |
| 5572 16 15 127  | M16 × 1.5       | MF     | 12.7 | 18.5   | 0.75 | 16.7   | 19.0   | 2.9  |
| 5572 16 15 240  | M16 × 1.5       | MF     | 24.0 | 18.5   | 0.75 | 16.7   | 19.0   | 2.9  |
| 5572 16 20 240  | M16 × 2.0       | MR     | 24.0 | 19.2   | 0.75 | 16.7   | 20.0   | 2.9  |
| 5572 16 20 320  | M16 × 2.0       | MR     | 32.0 | 19.2   | 0.75 | 16.7   | 20.0   | 2.9  |
| 5572 18 15 100  | M18 × 1.5       | MF     | 10.0 | 20.5   | 0.75 | 18.3   | 21.3   | 3.5  |
| 5572 18 15 183  | M18 × 1.5       | MF     | 18.3 | 20.5   | 0.75 | 18.3   | 21.3   | 3.5  |
| 5572 18 15 270  | M18 × 1.5       | MF     | 27.0 | 20.5   | 0.75 | 18.3   | 21.3   | 3.5  |

(MR = Metric Regulation Thread, MF = Metric Fine Thread)

# Mebux® threaded bushing, Inox

- Material: 1.4305 (X8CrNiS18-9), austenitic stainless chrome-nickel steel with sulphur additive
- Can be used wherever contact with food is possible

| Art.-No.        | Internal thread | Thread | L mm | ø d mm | h mm | ø A mm | ø B mm | C mm |
|-----------------|-----------------|--------|------|--------|------|--------|--------|------|
| 5572 6 1094 5   | M6 × 1.0        | MR     | 9.4  | 8.0    | 0.75 | 6.25   | 8.1    | 1.8  |
| 5572 6 10120 5  | M6 × 1.0        | MR     | 12.0 | 8.0    | 0.75 | 6.25   | 8.1    | 1.8  |
| 5572 8 125117 5 | M8 × 1.25       | MR     | 11.7 | 10.6   | 0.75 | 8.2    | 10.7   | 2.1  |
| 5572 8 125162 5 | M8 × 1.25       | MR     | 16.2 | 10.6   | 0.75 | 8.2    | 10.7   | 2.1  |
| 5572 10 151405  | M10 × 1.5       | MR     | 14.0 | 12.6   | 0.75 | 10.3   | 12.9   | 2.2  |
| 5572 10 152005  | M10 × 1.5       | MR     | 20.0 | 12.6   | 0.75 | 10.3   | 12.9   | 2.2  |

(MR = Metric Regulation Thread)



# Mebux® Assortment 56-pce, zinc-coated

- Thin-walled, solid steel insert, galvanised
- Coarse-pitch metric thread
- 56-pce
- With VAROsoft system insert Art.-No. 9026 300



**Contents:**

| Article No.    | Article Description            | Quantity |
|----------------|--------------------------------|----------|
| 5572 5 08 1    | INSERTION TOOL M5X0.8          | 1        |
| 5572 5 08 2    | TAP M 5X0.8                    | 1        |
| 5572 5 08 3    | DRILL BIT M 5X0.8              | 1        |
| 5572 5 08 4    | FIT MILLING CUTTER M 5X0.8     | 1        |
| 5572 5 08 76   | PCK(5)THREAD BUSH.M5X0.8X7.6GV | 1        |
| 5572 5 08 100  | PCK(5)THR.BUSH.M5X0.8X 10.0 GV | 1        |
| 5572 6 10 1    | INSERTION TOOLS M6X1.0         | 1        |
| 5572 6 10 2    | TAP M 6X1.0                    | 1        |
| 5572 6 10 3    | DRILL BIT M 6X1.0              | 1        |
| 5572 6 10 4    | FIT MILLING CUTTER M 6X1.0     | 1        |
| 5572 6 10 94   | PCK(5)THR.BU.M6X1.0 X 9.4 GV   | 1        |
| 5572 6 10 120  | PCK(5)THR.BU.M6X1.0 X12.0 GV   | 1        |
| 5572 8 125 1   | INSERTION TOOL M 8X1.25        | 1        |
| 5572 8 125 2   | TAP M 8X1.25                   | 1        |
| 5572 8 125 3   | DRILL BIT M 8X1.25             | 1        |
| 5572 8 125 4   | FIT MILLING CUTTER M 8X1.25    | 1        |
| 5572 8 125 117 | PCK(5)THR.BU.M8X1.25X11.7 GV   | 1        |
| 5572 8 125 162 | PCK(5)THR.BU.M8X1.25X16.2 GV   | 1        |
| 5572 10 3      | DRILL BIT M10X1.0/1.25/1.5     | 1        |
| 5572 10 4      | FIT MILL.CUTT.M10X1.0/1.25/1.5 | 1        |
| 5572 10 15 1   | INSERTION TOOL M10X1.5         | 1        |
| 5572 10 15 2   | TAP M10X1.5                    | 1        |
| 5572 10 15 140 | PCK(5)THR.BU.M10X1.5X14.0 GV   | 1        |
| 5572 10 15 200 | PCK(5)THR.BU.M10X1.5X20.0 GV   | 1        |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 9000 5572   | ASSORT.MEBUX STEEL GV 56-PIECE | 1   |
| 9000R 5572  | INLAY ASS.MEBUX STEEL GV 56PCE | 1   |

## Your Advantage / Benefit

- Suitable for high constant load and frequent screwing and unscrewing
- Pressure-tight with water, oils, other liquids and gases
- Secure form unscrewing, no gluing required
- The existing collar means additional fixing is not required

## Application

- Manufacture of threaded joints and renewal of damaged or stripped threads
- For aluminium, brass, steel and cast materials



## Related Products

■ **Thread Cutting Oil**  
Art.-No. 6580 5851



■ **Tap Wrench**  
Art.-No. 5560 2





# Mebux® threaded bushing set, zinc-coated

- Thin-walled, solid steel bushings, zinc-coated with fitting tool
- Metric standard and fine threads
- Suitable for heavy continuous loading and frequent screwing in and unscrewing
- Pressure-tight with water, oils, other liquids and gases
- Secure from unscrewing and vibration-resistant, no gluing required
- The collar ensures there is a depth stop and means no additional fixing required

**Applications:**

- Fabrication of threaded joints and renewal of damaged or stripped threads
- For aluminium, brass, steel and cast materials



| Article No.    | Article Description           | QTY |
|----------------|-------------------------------|-----|
| 5549 5572 407  | MEBUX SET ZN M 4X0.7 14PCE    | 1   |
| 5549 5572 508  | MEBUX SET ZN M 5X0.8 14PCE    | 1   |
| 5549 5572 610  | MEBUX SET ZN M 6X1.0 14PCE    | 1   |
| 5549 5572 710  | MEBUX SET ZN M 7X1.0 14PCE    | 1   |
| 5549 5572 8125 | MEBUX SET ZN M 8X1.25 14PCE   | 1   |
| 5549 5572 9125 | MEBUX SET ZN M 9X1.25 14PCE   | 1   |
| 5549 5572 1010 | MEBUX SET ZN M 10X1.0 14PCE   | 1   |
| 5549 557210125 | MEBUX SET ZN M 10X1.25 14PCE  | 1   |
| 5549 5572 1015 | MEBUX SET ZN M 10X1.5 14PCE   | 1   |
| 5549 557211125 | MEBUX SET ZN M 11X1.125 14PCE | 1   |
| 5549 5572 1115 | MEBUX SET ZN M 11X1.5 14PCE   | 1   |
| 5549 5572 1215 | MEBUX SET ZN M 12X1.5 14PCE   | 1   |
| 5549 557212175 | MEBUX SET ZN M 12X1.75 14PCE  | 1   |
| 5549 5572 1415 | MEBUX SET ZN M 14X1.5 9PCE    | 1   |
| 5549 5572 1615 | MEBUX SET ZN M 16X1.5 9PCE    | 1   |
| 5549 5572 1620 | MEBUX SET ZN M 16X2.0 9PCE    | 1   |
| 5549 5572 1815 | MEBUX SET ZN M 18X1.5 9PCE    | 1   |

**Contents Art.-No. 5549 5572 407:**

- Each 5x threaded bushing zinc-coated M4 x 0.7 each of lengths 6.0 and 8.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M4 x 0.7

**Contents Art.-No. 5549 5572 508:**

- Each 5x threaded bushing zinc-coated M5 x 0.8 each of lengths 7.6 and 10.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M5 x 0.8

**Contents Art.-No. 5549 5572 610:**

- Each 5x threaded bushing zinc-coated M6 x 1.0 each of lengths 9.4 and 12.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M6 x 1.0

**Contents Art.-No. 5549 5572 710:**

- Each 5x threaded bushing zinc-coated M7 x 1.0 each of lengths 10.0 and 14.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M7 x 1.0

**Contents Art.-No. 5549 5572 8125:**

- Each 5x threaded bushing zinc-coated M8 x 1.25 each of lengths 11.7 and 16.2 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M8 x 1.25

**Contents Art.-No. 5549 5572 9125:**

- Each 5x threaded bushing zinc-coated M9 x 1.25 each of lengths 13.0 and 18.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M9 x 1.25

**Contents Art.-No. 5549 5572 1010:**

- 10x threaded bushing zinc-coated M10 x 1.0 of length 15.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 x 1.0

**Contents, Art.-No. 5549 557210125:**

- Each 5x threaded bushing zinc-coated M10 x 1.25 each of lengths 15.0 and 20.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 x 1.25

**Contents Art.-No. 5549 5572 1015:**

- Each 5x threaded bushing zinc-coated M10 x 1.5 each of lengths 14.0 and 20.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 x 1.5

**Contents, Art.-No. 5549 557211125:**

- 10x threaded bushing zinc-coated M11 x 1.25 of length 22.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M11 x 1.25

**Contents Art.-No. 5549 5572 1115:**

- Each 5x threaded bushing zinc-coated M11 x 1.5 each of lengths 16.0 and 22.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M11 x 1.5

**Contents Art.-No. 5549 5572 1215:**

- Each 5x threaded bushing zinc-coated M12 x 1.5 each of lengths 16.3 and 24.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M12 x 1.5

**Contents, Art.-No. 5549 557212175:**

- Each 5x threaded bushing zinc-coated M12 x 1.75 each of lengths 16.2 and 24.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M12 x 1.75

**Contents Art.-No. 5549 5572 1415:**

- 5x threaded bushing zinc-coated M14 x 1.5 of length 16.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M14 x 1.5

**Contents Art.-No. 5549 5572 1615:**

- 5x threaded bushing zinc-coated M16 x 1.5 of length 24.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M16 x 1.5

**Contents Art.-No. 5549 5572 1620:**

- 5x threaded bushing zinc-coated M16 x 2.0 of length 32.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M16 x 2.0

**Contents Art.-No. 5549 5572 1815:**

- 5x threaded bushing zinc-coated M18 x 1.5 of length 27.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M18 x 1.5

# Mebux® threaded bushing, zinc-coated



| Article No.     | Article Description            | QTY |
|-----------------|--------------------------------|-----|
| 5572 4 07 60    | PCK(5)THR.BUSH. M4X0.7X6.0 ZN  | 1   |
| 5572 4 07 80    | PCK(5)THR.BUSH. M4X0.7X8.0 ZN  | 1   |
| 5572 5 08 76    | PCK(5)THR.BUSH. M5X0.8X7.6 ZN  | 1   |
| 5572 5 08 100   | PCK(5)THR.BUSH. M5X0.8X10.0 ZN | 1   |
| 5572 6 10 94    | PCK(5)THR.BUSH M6X1.0X9.4 ZN   | 1   |
| 5572 6 10 120   | PCK(5)THR.BUSH M6X1.0X12.0 ZN  | 1   |
| 5572 7 10 100   | PCK(5)THR.BUSH. M7X1.0X10.0 ZN | 1   |
| 5572 7 10 140   | PCK(5)THR.BUSH. M7X1.0X14.0 ZN | 1   |
| 5572 8 125 117  | PCK(5)THR.BU. M8X1.25X11.7 ZN  | 1   |
| 5572 8 125 162  | PCK(5)THR.BU. M8X1.25X16.2 ZN  | 1   |
| 5572 9 125 130  | PCK(5)THR.BU. M9X1.25.13.0 ZN  | 1   |
| 5572 9 125 180  | PCK(5)THR.BU. M9X1.25X18.0 ZN  | 1   |
| 5572 10 10150   | PCK(5)THR.BU. M10X1.0X15.0 ZN  | 1   |
| 5572 10 125 150 | PCK(5)THR.BU. M10X1.25X15.0 ZN | 1   |
| 5572 10 125 200 | PCK(5)THR.BU. M10X1.25X20.0 ZN | 1   |
| 5572 10 15 140  | PCK(5)THR.BU.M10X1.5X14.0 ZN   | 1   |
| 5572 10 15 200  | PCK(5)THR.BU.M10X1.5X20.0 ZN   | 1   |
| 5572 11 125 220 | PCK(5)THR.BU. M11X1.25X22.0 ZN | 1   |
| 5572 11 15 160  | PCK(5)THR.BU. M11X1.5X16.0 ZN  | 1   |
| 5572 11 15 220  | PCK(5)THR.BU. M11X1.5X22.0 ZN  | 1   |
| 5572 12 15 93   | PCK(5)THR.BU. M12X1.5X9.3 ZN   | 1   |
| 5572 12 15 163  | PCK(5)THR.BU. M12X1.5X16.3 ZN  | 1   |
| 5572 12 15 240  | PCK(5)THR.BU. M12X1.5X24.0 ZN  | 1   |
| 5572 12 175 162 | PCK(5)THR.BU. M12X1.75X16.2 ZN | 1   |
| 5572 12 175 240 | PCK(5)THR.BU. M12X1.75X24.0 ZN | 1   |
| 5572 14 15 65   | PCK(5)THR.BU. M14X1.5X6.5 ZN   | 1   |
| 5572 14 15 93   | PCK(5)THR.BU. M14X1.5X9.3 ZN   | 1   |
| 5572 14 15 128  | PCK(5)THR.BU. M14X1.5X12.8 ZN  | 1   |
| 5572 14 15 160  | PCK(5)THR.BU. M14X1.5X16.0 ZN  | 1   |
| 5572 14 15 260  | PCK(5)THR.BU. M14X1.5X26.0 ZN  | 1   |
| 5572 16 15 70   | PCK(5)THR.BU. M16X1.5X7.0 ZN   | 1   |
| 5572 16 15 127  | PCK(5)THR.BU. M16X1.5X12.7 ZN  | 1   |
| 5572 16 15 240  | PCK(5)THR.BU. M16X1.5X24.0 ZN  | 1   |
| 5572 16 20 240  | PCK(5)THR.BU. M16X2.0X24.0 ZN  | 1   |
| 5572 16 20 320  | PCK(5)THR.BU. M16X2.0X32.0 ZN  | 1   |
| 5572 18 15 100  | PCK(5)THR.BU. M18X1.5X10.0 ZN  | 1   |
| 5572 18 15 183  | PCK(5)THR.BU. M18X1.5X18.3 ZN  | 1   |
| 5572 18 15 270  | PCK(5)THR.BU. M18X1.5X27.0 ZN  | 1   |

(Thread Ø x pitch x length)

### Technical Data

| Thread | A<br>Insertion<br>tool | B<br>Tap      | C<br>HSS<br>Drill bit | D<br>Fit milling<br>cutter |
|--------|------------------------|---------------|-----------------------|----------------------------|
| MR     | 5572 4 07 1            | 5572 4 07 2   | 5572 4 07 3           | 5572 4 07 4                |
| MR     | 5572 4 07 1            | 5572 4 07 2   | 5572 4 07 3           | 5572 4 07 4                |
| MR     | 5572 5 08 1            | 5572 5 08 2   | 5572 5 08 3           | 5572 5 08 4                |
| MR     | 5572 5 08 1            | 5572 5 08 2   | 5572 5 08 3           | 5572 5 08 4                |
| MR     | 5572 6 10 1            | 5572 6 10 2   | 5572 6 10 3           | 5572 6 10 4                |
| MR     | 5572 6 10 1            | 5572 6 10 2   | 5572 6 10 3           | 5572 6 10 4                |
| MF     | 5572 7 10 1            | 5572 7 10 2   | 5572 7 10 3           | 5572 7 10 4                |
| MF     | 5572 7 10 1            | 5572 7 10 2   | 5572 7 10 3           | 5572 7 10 4                |
| MR     | 5572 8 125 1           | 5572 8 125 2  | 5572 8 125 3          | 5572 8 125 4               |
| MR     | 5572 8 125 1           | 5572 8 125 2  | 5572 8 125 3          | 5572 8 125 4               |
| MF     | 5572 9 125 1           | 5572 9 125 2  | 5572 9 125 3          | 5572 9 125 4               |
| MF     | 5572 9 125 1           | 5572 9 125 2  | 5572 9 125 3          | 5572 9 125 4               |
| MF     | 5572 10 10 1           | 5572 10 10 2  | 5572 10 3             | 5572 10 4                  |
| MF     | 5572 10 125 1          | 5572 10 125 2 | 5572 10 3             | 5572 10 4                  |
| MF     | 5572 10 125 1          | 5572 10 125 2 | 5572 10 3             | 5572 10 4                  |
| MR     | 5572 10 15 1           | 5572 10 15 2  | 5572 10 3             | 5572 10 4                  |
| MR     | 5572 10 15 1           | 5572 10 15 2  | 5572 10 3             | 5572 10 4                  |
| MF     | 5572 11 125 1          | 5572 11 125 2 | 5572 11 125 3         | 5572 11 4                  |
| MF     | 5572 11 15 1           | 5572 11 15 2  | 5572 11 15 3          | 5572 11 4                  |
| MF     | 5572 11 15 1           | 5572 11 15 2  | 5572 11 15 3          | 5572 11 4                  |
| MF     | 5572 12 15 1           | 5572 12 15 2  | 5572 12 15 3          | 5572 12 15 4               |
| MF     | 5572 12 15 1           | 5572 12 15 2  | 5572 12 15 3          | 5572 12 15 4               |
| MF     | 5572 12 15 1           | 5572 12 15 1  | 5572 12 15 3          | 5572 12 15 4               |
| MR     | 5572 12 175 1          | 5572 12 175 2 | 5572 12 175 3         | 5572 12 175 4              |
| MR     | 5572 12 175 1          | 5572 12 175 2 | 5572 12 175 3         | 5572 12 175 4              |
| MF     | 5572 14 15 1           | 5572 14 15 2  | 5572 14 15 3          | 5572 14 15 4               |
| MF     | 5572 14 15 1           | 5572 14 15 2  | 5572 14 15 3          | 5572 14 15 4               |
| MF     | 5572 14 15 1           | 5572 14 15 2  | 5572 14 15 3          | 5572 14 15 4               |
| MF     | 5572 14 15 1           | 5572 14 15 2  | 5572 14 15 3          | 5572 14 15 4               |
| MF     | 5572 16 15 1           | 5572 16 15 2  | 5572 16 15 3          | 5572 16 15 4               |
| MF     | 5572 16 15 1           | 5572 16 15 2  | 5572 16 15 3          | 5572 16 15 4               |
| MF     | 5572 16 15 1           | 5572 16 15 2  | 5572 16 15 3          | 5572 16 15 4               |
| MR     | 5572 16 20 1           | 5572 16 20 2  | 5572 16 20 3          | 5572 16 20 4               |
| MR     | 5572 16 20 1           | 5572 16 20 2  | 5572 16 20 3          | 5572 16 20 4               |
| MF     | 5572 18 15 2           | 5572 18 15 2  | 5572 18 15 3          | 5572 18 15 4               |
| MF     | 5572 18 15 2           | 5572 18 15 2  | 5572 18 15 3          | 5572 18 15 4               |
| MF     | 5572 18 15 1           | 5572 18 15 2  | 5572 18 15 3          | 5572 18 15 4               |

(MR = Metric Regulation Thread, MF = Metric Fine Thread)  
(A,B,C,D = corresponding individual tools)

# Mebux<sup>®</sup> threaded bushing, Inox



- Material: 1.4305 (X8CrNiS18-9), austenitic stainless chrome-nickel steel with sulphur additive
- Can be used wherever contact with food is possible

| Article No.    | Article Description            | QTY |
|----------------|--------------------------------|-----|
| 5572 6 1094 5  | PCK(5)THR.BUSH.M 6X1.0 X 9.4GV | 1   |
| 5572 6 10120 5 | PCK(5)THR.BUSH.M 6X1.0 X12.0GV | 1   |
| 5572 8125117 5 | PCK(5)THR.BUSH.M 6X1.25X11.7GV | 1   |
| 5572 8125162 5 | PCK(5)THR.BUSH.M 8X1.25X16.2GV | 1   |
| 5572 10 151405 | PCK(5)THR.BUSH.M10X1.5 X14.0GV | 1   |
| 5572 10 152005 | PCK(5)THR.BUSH.M10X1.5 X20.0GV | 1   |

(Thread Ø x pitch x length)

### Technical Data

| Thread | A<br>Insertion<br>tool | B<br>Tap<br>cutter | C<br>HSS drill bit | D<br>Fit milling<br>cutter |
|--------|------------------------|--------------------|--------------------|----------------------------|
| MR     | 5572 6 10 1            | 5572 6 10 2        | 5572 6 10 3        | 5572 6 10 4                |
| MR     | 5572 6 10 1            | 5572 6 10 2        | 5572 6 10 3        | 5572 6 10 4                |
| MR     | 5572 8 125 1           | 5572 8 125 2       | 5572 8 125 3       | 5572 8 125 4               |
| MR     | 5572 8 125 1           | 5572 8 125 2       | 5572 8 125 3       | 5572 8 125 4               |
| MR     | 5572 10 15 1           | 5572 10 15 2       | 5572 10 3          | 5572 10 4                  |
| MR     | 5572 10 15 1           | 5572 10 15 2       | 5572 10 3          | 5572 10 4                  |

(MR = Metric Regulation Thread)

(A,B,C,D = corresponding individual tools)

# Mebux® single tools

- Special tool, only for processing Mebux® threaded bushing AGR5572  
Art.-No. 5572 10 3, 5572 10 4 and 5572 11 4:
- For use with several thread pitches



A = Insertion tool



B = Tap



C = Drill bit



D= Fit and shank

| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5572 4 07 1   | INSERTION TOOL M4X0.7          | 1   |
| 5572 4 07 2   | TAP M 4X0.7                    | 1   |
| 5572 4 07 3   | DRILL BIT M 4X0.7              | 1   |
| 5572 4 07 4   | FIT MILLING CUTTER M 4X0.7     | 1   |
| 5572 5 08 1   | INSERTION TOOL M5X0.8          | 1   |
| 5572 5 08 2   | TAP M 5X0.8                    | 1   |
| 5572 5 08 3   | DRILL BIT M 5X0.8              | 1   |
| 5572 5 08 4   | FIT MILLING CUTTER M 5X0.8     | 1   |
| 5572 6 10 1   | INSERTION TOOLS M6X1.0         | 1   |
| 5572 6 10 2   | TAP M 6X1.0                    | 1   |
| 5572 6 10 3   | DRILL BIT M 6X1.0              | 1   |
| 5572 6 10 4   | FIT MILLING CUTTER M 6X1.0     | 1   |
| 5572 7 10 1   | INSERTION TOOL M 7X1.0         | 1   |
| 5572 7 10 2   | TAP M 7X1.0                    | 1   |
| 5572 7 10 3   | DRILL BIT M 7X1.0              | 1   |
| 5572 7 10 4   | FIT MILLING CUTTER M7X1.0      | 1   |
| 5572 8 125 1  | INSERTION TOOL M 8X1.25        | 1   |
| 5572 8 125 2  | TAP M 8X1.25                   | 1   |
| 5572 8 125 3  | DRILL BIT M 8X1.25             | 1   |
| 5572 8 125 4  | FIT MILLING CUTTER M 8X1.25    | 1   |
| 5572 9 125 1  | INSERTION TOOL M 9X1.25        | 1   |
| 5572 9 125 2  | TAP M 9X1.25                   | 1   |
| 5572 9 125 3  | DRILL BIT M 9X1.25             | 1   |
| 5572 9 125 4  | FIT MILLING CUTTER M 9X1.25    | 1   |
| 5572 10 10 1  | INSERTION TOOL M10X1.0         | 1   |
| 5572 10 10 2  | TAP M10X1.0                    | 1   |
| 5572 10 125 1 | INSERTION TOOLS M10X1.25       | 1   |
| 5572 10 125 2 | TAP M10X1.25                   | 1   |
| 5572 10 15 1  | INSERTION TOOL M10X1.5         | 1   |
| 5572 10 15 2  | TAP M10X1.5                    | 1   |
| 5572 10 3     | DRILL BIT M10X1.0/1.25/1.5     | 1   |
| 5572 10 4     | FIT MILL.CUTT.M10X1.0/1.25/1.5 | 1   |

| Article No.   | Article Description          | QTY |
|---------------|------------------------------|-----|
| 5572 11 125 1 | INSERTION TOOL M11X1.25      | 1   |
| 5572 11 125 2 | TAP M11X1.25                 | 1   |
| 5572 11 125 3 | DRILL BIT M11X1.25           | 1   |
| 5572 11 15 1  | INSERTION TOOL M11X1.5       | 1   |
| 5572 11 15 2  | TAP M11X1.5                  | 1   |
| 5572 11 15 3  | DRILL BIT M11X1.5            | 1   |
| 5572 11 4     | SHANK MILL.CUTT.M11X1.25/1.5 | 1   |
| 5572 12 15 1  | INSERTION TOOL M12X1.5       | 1   |
| 5572 12 15 2  | TAP M12X1.5                  | 1   |
| 5572 12 15 3  | DRILL BIT M12X1.5            | 1   |
| 5572 12 15 4  | FIT MILLING CUTTER M12X1.5   | 1   |
| 5572 12 175 1 | INSERTION TOOL M12X1.75      | 1   |
| 5572 12 175 2 | TAP M12X1.75                 | 1   |
| 5572 12 175 3 | DRILL BIT M12X1.75           | 1   |
| 5572 12 175 4 | FIT MILLING CUTTER M12X1.75  | 1   |
| 5572 14 15 1  | INSERTION TOOL M14X1.5       | 1   |
| 5572 14 15 2  | TAP M14X1.5                  | 1   |
| 5572 14 15 3  | DRILL BIT M14X1.5            | 1   |
| 5572 14 15 4  | FIT MILLING CUTTER M14X1.5   | 1   |
| 5572 16 15 1  | INSERTION TOOL M16X1.5       | 1   |
| 5572 16 15 2  | TAP M16X1.5                  | 1   |
| 5572 16 15 3  | DRILL BIT M16X1.5            | 1   |
| 5572 16 15 4  | SHANK MILLING CUTTER M16X1.5 | 1   |
| 5572 16 20 1  | INSERTION TOOL M16X2.0       | 1   |
| 5572 16 20 2  | TAP M16X2.0                  | 1   |
| 5572 16 20 3  | DRILL BIT M16X2.0            | 1   |
| 5572 16 20 4  | SHANK MILLING CUTTER M16X2.0 | 1   |
| 5572 18 15 1  | INSERTION TOOL M18X1.5       | 1   |
| 5572 18 15 2  | TAP M18X1.5                  | 1   |
| 5572 18 15 3  | DRILL BIT M18X1.5            | 1   |
| 5572 18 15 4  | SHANK MILLING CUTTER M18X1.5 | 1   |

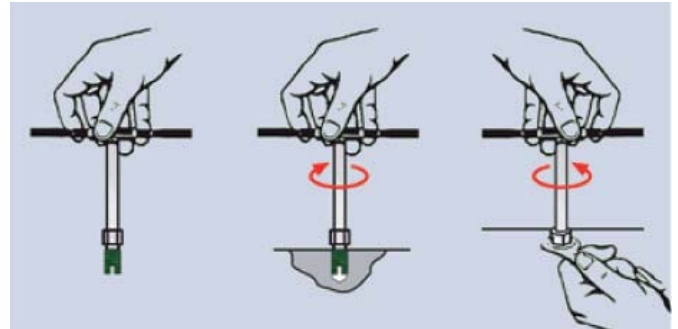


# Thread repair cutting bushings

- Self-cutting thread bushings with cutting slot for the manufacture and repair of screw connections
- Highly resilient, wear-resistant and vibration-free in materials
- Particularly suitable for steel (up to 630 N/min<sup>2</sup> tensile strength), aluminium, aluminium and magnesium alloys, cast iron, bronze, bronze, duroplast
- It is recommended to repair the removed work piece, debris can be removed from underneath
- Highest pull-out resistance
- Smaller sizes are possible and therefore saves on material and weight
- It is recommended to counter-bore in order to prevent warping and to make the cutting easier
- Insensitive to small blow holes
- Complies with the End Of Life Directive 2000 / 53 / EG and RoHS 2002 / 95 / EG



Manual assembly with insertion tool and tap wrench:



**Material:**

- Case hardened steel, chrome-plated blue passivated

**Applications;**

- Car, industry, equipment and appliance construction etc.

**Technical Data**

| Art.-No. | Internal thread | Ø external-thread | Pitch external thread | length | min drilling hole depth with blind holes | min work-piece thickness | Suitable hand insertion tool |
|----------|-----------------|-------------------|-----------------------|--------|--|--------------------------|------------------------------|
| 5571 4   | M4              | 6.5 mm            | 0.75                  | 8 mm   | 10 mm                                    | 8 mm                     | Art.-No. 5571 4 1            |
| 5571 5   | M5              | 8.0 mm            | 1.0                   | 10 mm  | 13 mm                                    | 10 mm                    | Art.-No. 5571 5 1            |
| 5571 6   | M6              | 10.0 mm           | 1.5                   | 14 mm  | 17 mm                                    | 14 mm                    | Art.-No. 5571 6 1            |
| 5571 8   | M8              | 12.0 mm           | 1.5                   | 15 mm  | 18 mm                                    | 15 mm                    | Art.-No. 5571 8 1            |
| 5571 10  | M10             | 14.0 mm           | 1.5                   | 18 mm  | 22 mm                                    | 18 mm                    | Art.-No. 5571 10 1           |
| 5571 12  | M12             | 16.0 mm           | 1.5                   | 22 mm  | 26 mm                                    | 22 mm                    | Art.-No. 5571 12 1           |
| 5571 14  | M14             | 18.0 mm           | 1.5                   | 24 mm  | 28 mm                                    | 24 mm                    | Art.-No. 5571 14 1           |

| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5571 4      | THREAD REP.CUTT.BUSHING M 4 | 20  |
| 5571 5      | THREAD REP.CUTT.BUSHING M 5 | 20  |
| 5571 6      | THREAD REP.CUTT.BUSHING M 6 | 20  |
| 5571 8      | THREAD REP.CUTT.BUSHING M 8 | 20  |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5571 10     | THREAD REP.CUTT.BUSHING M 10 | 10  |
| 5571 12     | THREAD REP.CUTT.BUSHING M 12 | 10  |
| 5571 14     | THREAD REP.CUTT.BUSHING M 14 | 2   |

# Thread repair insertion tool

- For installing thread repair cutting bushings



**Technical Data**

| Art.-No.  | Length | AF square | AF shoulder piece | Suitable cutting bushing |
|-----------|--------|-----------|-------------------|--------------------------|
| 5571 4 1  | 60 mm  | 5.0       | 7                 | Art.-No. 5571 4          |
| 5571 5 1  | 75 mm  | 8.0       | 13                | Art.-No. 5571 5          |
| 5571 6 1  | 75 mm  | 8.0       | 13                | Art.-No. 5571 6          |
| 5571 8 1  | 75 mm  | 8.0       | 13                | Art.-No. 5571 8          |
| 5571 10 1 | 95 mm  | 12.5      | 19                | Art.-No. 5571 10         |
| 5571 12 1 | 95 mm  | 12.5      | 19                | Art.-No. 5571 12         |
| 5571 14 1 | 95 mm  | 12.5      | 19                | Art.-No. 5571 14         |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5571 4 1    | THREAD REP.INSERT.TOOL F.M 4 | 1   |
| 5571 5 1    | THREAD REP.INSERT.TOOL F.M 5 | 1   |
| 5571 6 1    | THREAD REP.INSERT.TOOL F.M 6 | 1   |
| 5571 8 1    | THREAD REP.INSERT.TOOL F.M 8 | 1   |

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5571 10 1   | THREAD REP.INSERT.TOOL F.M 10 | 1   |
| 5571 12 1   | THREAD REP.INSERT.TOOL F.M 12 | 1   |
| 5571 14 1   | THREAD REP.INSERT.TOOL F.M 14 | 1   |



# Thread repair cutting bushings set

**Art.-No. 5571 10 2 and 5571 12 2:**

- 13 piece set in plastic case

**Art.-No. 5571 6 2 and 5571 8 2:**

- 23-piece set in plastic case

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5571 6 2    | THR.REP.CUTT.BUSH.SETM6 23PCE  | 1   |
| 5571 8 2    | THR.REP.CUTT.BUSH.SETM8 23PCE  | 1   |
| 5571 10 2   | THR.REP.CUTT.BUSH.SETM10 23PCE | 1   |
| 5571 12 2   | THR.REP.CUTT.BUSH.SETM12 23PCE | 1   |

**Contents:**

**Art.-No. 5571 6 2:**

- 1x tap wrench Art.-No. 5560 3
- 1x drill Ø 9.2 mm Art.-No. 5507 92
- 1x hand-insertion tool Art.-No. 5571 6 1
- 20x thread repair cutting bushings Art.-No. 5571 6

**Art.-No. 5571 8 2:**

- 1x tap wrench Art.-No. 5560 3
- 1x drill Ø 11.2 mm Art.-No. 5507 112
- 1x hand-insertion tool Art.-No. 5571 8 1
- 20x thread repair cutting bushings Art.-No. 5571 8

**Art.-No. 5571 10 2:**

- 1x tap wrench Art.-No. 5560 4
- 1x drill Ø 13.2 mm Art.-No. 5507 132
- 1x hand-insertion tool Art.-No. 5571 10 1
- 10x thread repair cutting bushings Art.-No. 5571 10

**Art.-No. 5571 12 2:**

- 1x tap wrench Art.-No. 5560 4
- 1x drill Ø 15.2 mm Art.-No. 5507 152
- 1x hand-insertion tool Art.-No. 5571 12 1
- 10x thread repair cutting bushings Art.-No. 5571 12



| Drill hole diameter (MM) |  | Indicative values          |         |         |         |
|--------------------------|--|----------------------------|---------|---------|---------|
| Workpiece material       | Light metal alloy, steel<br>Rm = tensile strength (N/mm <sup>2</sup> ) | Rm > 250 N/mm <sup>2</sup> |         |         |         |
|                          |  | Rm < 300 N/mm <sup>2</sup> |         |         |         |
|                          |  | Rm < 350 N/mm <sup>2</sup> |         |         |         |
|                          |  | Rm > 350 N/mm <sup>2</sup> |         |         |         |
|                          | CuZn, bronze, NE   | Rm > 350 N/mm <sup>2</sup> |         |         |         |
| Workpiece material       | Cast iron<br>HB = Brinell hardness                                     | < 150 HB N/mm <sup>2</sup> |         |         |         |
|                          |  | < 200 HB N/mm <sup>2</sup> |         |         |         |
|                          |  | > 200 HB N/mm <sup>2</sup> |         |         |         |
| Internal thread          | M4   | 5.9 mm                     | 6 mm    | 6.1 mm  | 6.2 mm  |
|                          | M5   | 7.2 mm                     | 7.3 mm  | 7.5 mm  | 7.6 mm  |
|                          | M6   | 8.8 mm                     | 9.0 mm  | 9.2 mm  | 9.4 mm  |
|                          | M8   | 10.8 mm                    | 11.0 mm | 11.2 mm | 11.4 mm |
|                          | M10  | 12.8 mm                    | 13.0 mm | 13.2 mm | 13.4 mm |
|                          | M12  | 14.8 mm                    | 15.0 mm | 15.2 mm | 15.4 mm |
|                          | M14  | 16.8 mm                    | 17.0 mm | 17.2 mm | 17.4 mm |

Recommended drill hole diameter for easy assembly.  
Lubrication may be necessary for the other diameters.

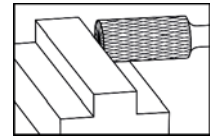
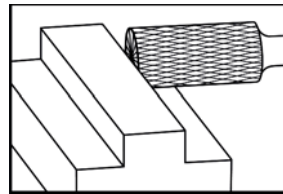
In case of machining problems (e.g. sharply increased screw-in torque), it is generally acceptable to choose the diameter specifications of the next largest column. In case of doubt, a test run is recommended.

# Carbide coated burrs DIN 8032/8033, shape 1

- Cross tothing for high chipping performances at hard and soft materials, e. g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Creates a flat surface when running smoothly, thus less reworking
- They produce short, blunt chips which do not stick on clothes and are harmless for the skin
- For use with grinders
- Similar to DIN 8032 / 8033

**Art.-No. 5975 1 16:**

- Without face spline



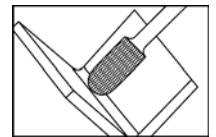
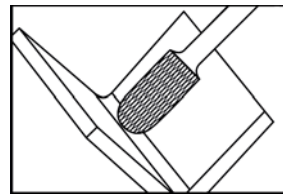
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5975 1 3    | CARBIDE COATED BURR FORM 1 D3  | 1 ü |
| 5975 1 6    | CARBIDE COATED BURR FORM 1 D6  | 1 ü |
| 5975 1 10   | CARBIDE COATED BURR FORM 1 D10 | 1 ü |
| 5975 1 12   | CARB.BURRS CT/ZYAS FO.1 D12    | 1 ü |
| 5975 1 16   | IT/CARB.CUTT.KZ/ZYA FORM1 D16  | 1   |

(CT = Cross tothing)

| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 3.0            | 3.0   | 14.0  | 38.0  | 65,000 – 80,000        |  |
| 6.0            | 6.0   | 18.0  | 50.0  | 25,000 – 40,000        |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 15,000 – 25,000        |  |
| 12.7           | 6.0   | 25.0  | 70.0  | 15,000 – 25,000        |  |
| 16.0           | 6.0   | 25.0  | 70.0  | 12,500 – 24,000        |  |
|                |       |       |       | 6,000 – 20,000         |  |

# HD KV/WRC carbide rotary burrs, shape 2

- Radius end shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



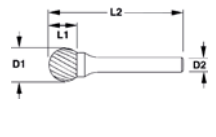
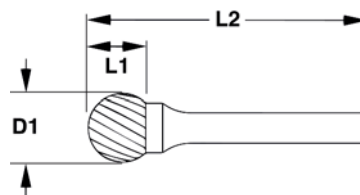
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5975 2 3    | CARB.BURRS HD CT/WRC FO.1 D3   | 1 ü |
| 5975 2 6    | CARB.BURR CT/WRC FORM 2 D6     | 1 ü |
| 5975 2 10   | CARB.COAT.BURR CT/WRC FO.2 D10 | 1 ü |
| 5975 2 12   | CARB.BURR CT/WRC FO.2 D12      | 1 ü |

(CT= Cross-cut teeth)

| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 3.0            | 3.0   | 14.0  | 38.0  | 65,000 – 80,000        |  |
| 6.0            | 6.0   | 18.0  | 50.0  | 25,000 – 40,000        |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 15,000 – 25,000        |  |
| 12.7           | 6.0   | 25.0  | 70.0  | 12,500 – 24,000        |  |

# HD KV/KUD carbide rotary burrs, shape 3

- Ball shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



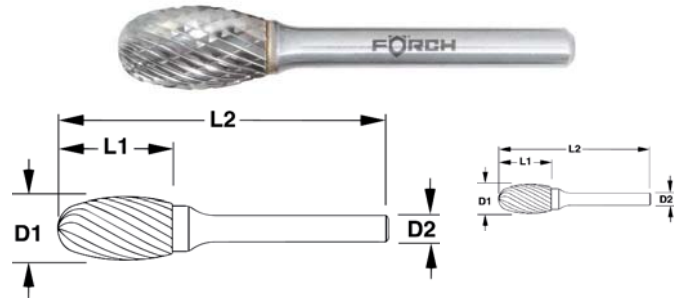
| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5975 3 3    | CARB.BURR CT/KUD FO.3 D 3  | 1 ü |
| 5975 3 6    | CARB.BURR CT/KUD FO.3 D 6  | 1 ü |
| 5975 3 10   | CARB.BURR CT/KUD FO.3 D 10 | 1 ü |
| 5975 3 12   | CARB.BURR CT/KUD FO.3 D12  | 1 ü |

(CT = Cross tothing)

| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 3.0            | 3.0   | 12.5  | 38.0  | 65,000 – 80,000        |  |
| 6.0            | 6.0   | 4.7   | 50.0  | 25,000 – 40,000        |  |
| 9.6            | 6.0   | 8.0   | 54.0  | 15,000 – 25,000        |  |
| 12.7           | 6.0   | 11.0  | 56.0  | 12,500 – 24,000        |  |

# HD KV/TRE carbide rotary burrs, shape 4

- Droplet-shaped
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



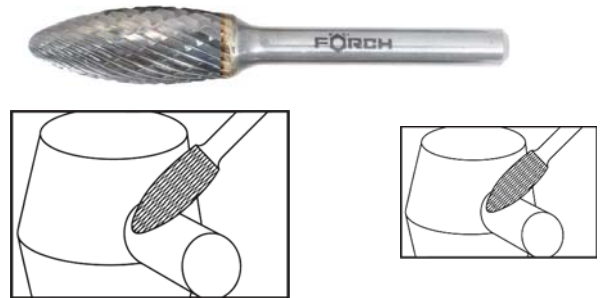
| Technical Data |       |       |       |                        |
|----------------|-------|-------|-------|------------------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |
| 3.0            | 3.0   | 6.0   | 38.0  | 65,000 – 80,000        |
| 12.7           | 6.0   | 25.0  | 70.0  | 12,500 – 24,000        |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5975 4 3    | CARB.BURR CT/TRE FO.4 D3   | 1 ü |
| 5975 4 12   | CARB.BURR CT/TRE FO.4 D 12 | 1 ü |

(CT = Cross-cut teeth)

# HD KV/FLA carbide rotary burrs, shape 5

- Flame-shaped
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



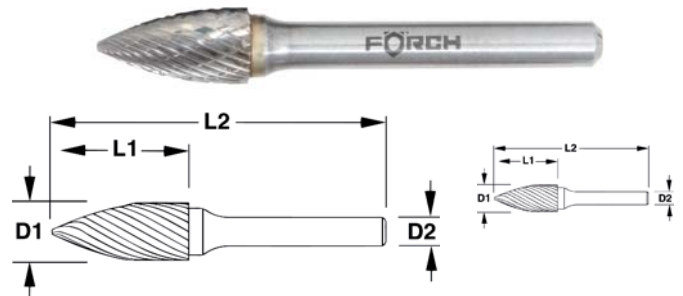
| Technical Data |       |       |       |                        |
|----------------|-------|-------|-------|------------------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |
| 3.0            | 3.0   | 8.0   | 38.0  | 65,000 – 80,000        |
| 12.7           | 6.0   | 32.0  | 77.0  | 12,500 – 24,000        |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5975 5 3    | CARB.BURR CT/FLA FO.5 D 3  | 1 ü |
| 5975 5 12   | CARB.BURR CT/FLA FO.5 D 12 | 1 ü |

(CT = Cross-cut teeth)

# HD KV/SPG carbide rotary burrs, shape 6

- Ogive shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics, etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



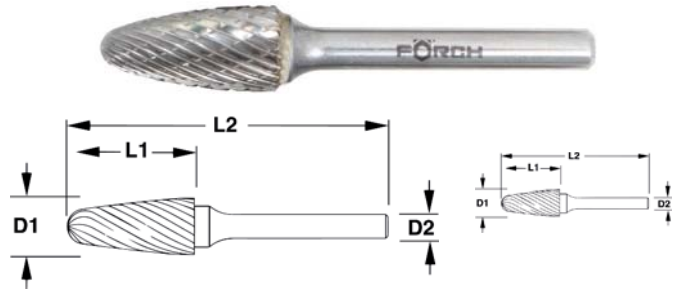
| Technical Data |       |       |       |                        |
|----------------|-------|-------|-------|------------------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |
| 3.0            | 3.0   | 10.0  | 38.0  | 65,000 – 80,000        |
| 6.0            | 6.0   | 18.0  | 50.0  | 25,000 – 40,000        |
| 9.6            | 6.0   | 19.0  | 64.0  | 15,000 – 25,000        |
| 12.7           | 6.0   | 25.0  | 70.0  | 12,500 – 24,000        |

| Article No. | Article Description       | QTY |
|-------------|---------------------------|-----|
| 5975 6 3    | CARB.BURR CT/SPG FO.6 D3  | 1 ü |
| 5975 6 6    | CARB.BURR CT/SPG FO.6 D6  | 1 ü |
| 5975 6 10   | CARB.BURR CT/SPG FO.6 D10 | 1 ü |
| 5975 6 12   | CARB.BURR CT/SPG FO.6 D12 | 1 ü |

(CT = Cross-cut teeth)

# HD KV/RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



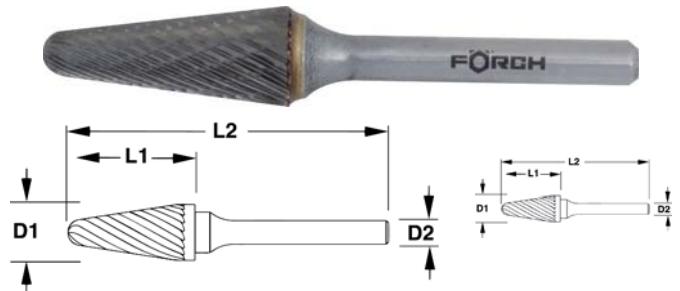
| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 3.0            | 3.0   | 14.0  | 38.0  | 65,000 – 80,000        |  |
| 6.0            | 6.0   | 18.0  | 50.0  | 25,000 – 40,000        |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 15,000 – 25,000        |  |
| 12.7           | 6.0   | 25.0  | 70.0  | 12,500 – 24,000        |  |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5975 7 3    | CARB.BURR CT/RBF FO.7 D 3  | 1 ü |
| 5975 7 6    | CARB.BURR CT/RBF FO.7 D 6  | 1 ü |
| 5975 7 10   | CARB.BURR CT/RBF FO.7 D 10 | 1 ü |
| 5975 7 12   | CARB.BURR CT/RBF FO.7 D 12 | 1 ü |

(CT = Cross-cut teeth)

# HD KV/KEL carbide rotary burrs, shape 8

- Rounded cone shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 3.0            | 3.0   | 10.0  | 38.0  | 65,000 – 80,000        |  |
| 9.6            | 6.0   | 30.0  | 76.0  | 15,000 – 25,000        |  |
| 12.7           | 6.0   | 32.0  | 77.0  | 12,500 – 24,000        |  |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5975 8 3    | CARB.BURR CT/KEL FO.8 D 3  | 1 ü |
| 5975 8 10   | CARB.BURR CT/KEL FO.8 D 10 | 1 ü |
| 5975 8 12   | CARB.BURR CT/KEL FO.8 D 12 | 1 ü |

(CT = Cross-cut teeth)

# HD KV/SKM carbide rotary burrs, shape 9

- Pointed cone shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 3.0            | 3.0   | 8.0   | 38.0  | 65,000 – 80,000        |  |
| 9.6            | 6.0   | 16.0  | 64.0  | 15,000 – 25,000        |  |
| 12.7           | 6.0   | 22.0  | 71.0  | 12,500 – 24,000        |  |

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5975 9 3    | CARB.BURR CT/SKM FO.9 D 3  | 1 ü |
| 5975 9 10   | CARB.BURR CT/SKM FO.9 D 10 | 1 ü |
| 5975 9 12   | CARB.BURR CT/SKM FO.9 D 12 | 1 ü |

(CT = Cross-cut teeth)

# Carbide coated burr set 10-pcs

- In plastic case (Art.-No. 4415 14 16 11) with VAROsoft contured lining (Art.-No. 9026 816)

**Contents:**

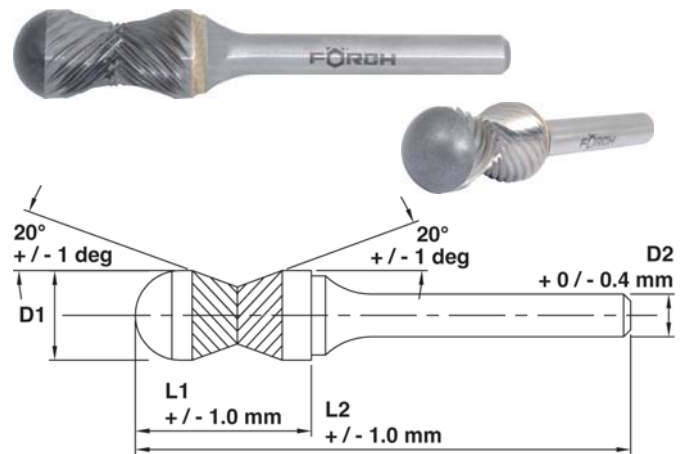
| Article No.  | Article Description            | Quantity |
|--------------|--------------------------------|----------|
| 4415 14 16 1 | EMPTY CASE SIZE B              | 1        |
| 5975 1 6     | CARBIDE COATED BURR FORM 1 D6  | 1        |
| 5975 1 10    | CARBIDE COATED BURR FORM 1 D10 | 1        |
| 5975 2 6     | CARB.BURR CT/WRC FORM 2 D6     | 1        |
| 5975 2 10    | CARB.COAT.BURR CT/WRC FO.2 D10 | 1        |
| 5975 3 10    | CARBIDE COATED BURR FORM 3 D10 | 1        |
| 5975 4 12    | CARBIDE COATED BURR FORM 4 D12 | 1        |
| 5975 5 12    | CARBIDE COATED BURR FORM 5 D12 | 1        |
| 5975 6 6     | CARBIDE COATED BURR FORM 6 D6  | 1        |
| 5975 6 10    | CARBIDE COATED BURR FORM 6 D10 | 1        |
| 5975 7 12    | CARBIDE COATED BURR FORM 7 D12 | 1        |



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5975 91     | VS-CARBIDE COAT.BURR SET 10PCS | 1   |

# Cutter heavy metal radius

- Cutter to produce radius chamfer with hard and tough materials such as steel, stainless steel, cast iron, titanium, bronze, copper, brass etc.
- Patent pending
- Overlapping standard tothing in cutter centre with 20° angle
- Work is quick and easy due to unique guide geometry that centres the cutter in the work flow
- Innovative cutter shape enables a better cutting performance and product life
- Damage to the work piece's surface is prevented due to the smooth front side of the cutter
- For use in die grinders
- Similar to DIN 8032 / 8033



| Article No.  | Article Description         | QTY |
|--------------|-----------------------------|-----|
| 5975 10 12 3 | RADIUS CUTTER ST FORM10 D12 | 1 ü |

| Technical Data |      |      |       |                        |
|----------------|------|------|-------|------------------------|
| D2             | L1   | L2   | Angle | Recommended speeds rpm |
| mm             | mm   | mm   |       |                        |
| 6.0            | 25.0 | 70.0 | 20°   | 12,500 – 24,000        |

(ST = standard tothing)

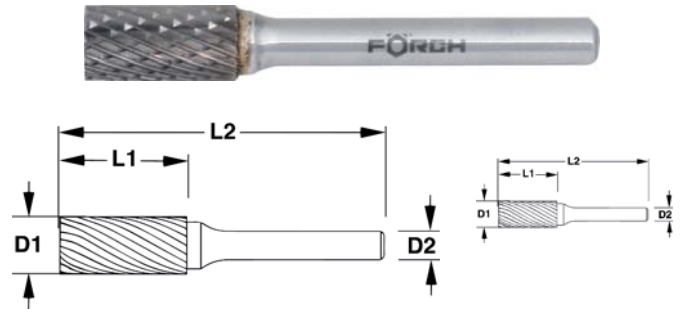


# Heavy metal cutters HD/ZYAS, form 1

- Cylindrical shape with face spline
- For tough demands with increased tooth wedge angle
- Particularly suitable for high cutting performance for cast iron, tool steel, stainless steel, hardened and unhardened steel
- High stability and impact resistance are achieved due to the increase tooth wedge angle
- Chipping, spalling and head breakage are minimised
- For use in die grinders
- Similar to DIN 8032 / 8033

**Applications:**

- Foundries, dockyards, steel construction, mould construction, heavy industry etc.



| Technical Data |       |       |       |                        |
|----------------|-------|-------|-------|------------------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |
| 9.6            | 6.0   | 19.0  | 64.0  | 15,000 – 25,000        |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5975 1 10 2 | CARB.BURRS HD CT/ZYAS FO.1 D10 | 1 ü |

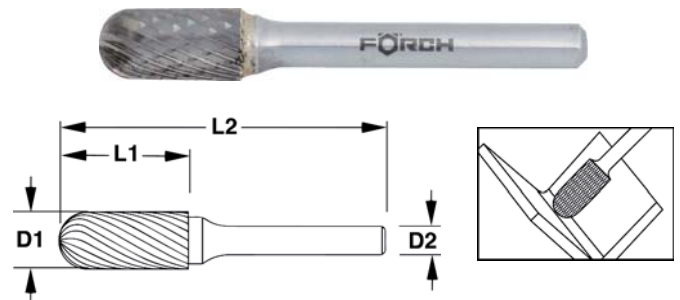
(HD CT = Heavy Duty Cross-cut teeth)

# HD KV/WRC carbide rotary burrs, shape 2

- Radius end shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

**Applications:**

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



| Technical Data |       |       |       |                        |
|----------------|-------|-------|-------|------------------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |
| 9.6            | 6.0   | 19.0  | 64.0  | 15,000 – 25,000        |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5975 2 10 2 | CARB.BURR HD CT/WRC FO.2 D10 | 1 ü |

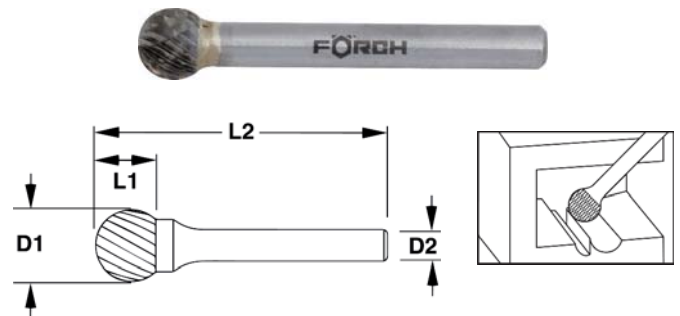
(HD CT= Heavy Duty Cross-cut Teeth)

# HD KV/KUD carbide rotary burrs, shape 3

- Ball shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

**Applications:**

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



| Technical Data |       |       |       |                        |
|----------------|-------|-------|-------|------------------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |
| 9.6            | 6.0   | 8.0   | 54.0  | 15,000 – 25,000        |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5975 3 10 2 | CARB.BURR HD CT/KUD FO.3 D10 | 1 ü |

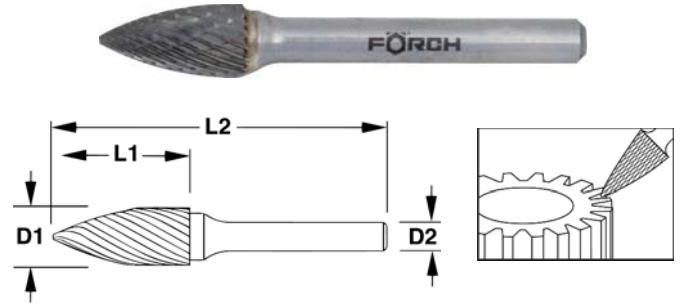
(HD CT = Heavy Duty Cross-cut Teeth)

# HD KV/SPG carbide rotary burrs, shape 6

- Ogive shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

**Applications:**

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 25,000 – 40,000        |  |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5975 6 10 2 | CARB.BURR HD CT/SPG FO.6 D10 | 1 ü |

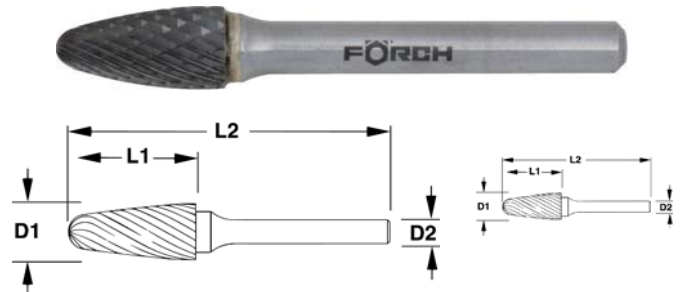
(HD CT = Heavy Duty Cross-cut Teeth)

# HD KV/RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

**Applications:**

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 25,000 – 40,000        |  |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5975 7 10 2 | CARB.BURR HD CT/RBF FO.7 D10 | 1 ü |

(HD CT = Heavy Duty Cross-cut teeth)

# 6 piece heavy metal cutter set

- In plastic case Art.-No. 4415 14 16 1 with VARO soft system Art.-No. 9026 827

**Contents:**

| Art.-No.     | Art.-Description               | Quantity |
|--------------|--------------------------------|----------|
| 4415 14 16 1 | EMPTY CASE SIZE B              | 1        |
| 5975 1 10 2  | CARB.BURRS HD CT/ZYAS FO.1 D10 | 1        |
| 5975 2 10 2  | CARB.BURR HD CT/WRC FO.2 D10   | 1        |
| 5975 3 10 2  | CARB.BURR HD CT/KUD FO.3 D10   | 1        |
| 5975 6 10 2  | CARB.BURR HD CT/SPG FO.6 D10   | 1        |
| 5975 7 10 2  | CARB.BURR HD CT/RBF FO.7 D10   | 1        |
| 5975 10 12 3 | RADIUS CUTTER ST FORM10 D12    | 1        |

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5975 92     | VS-CARBIDE COAT.BURR SET 6PCS | 1   |

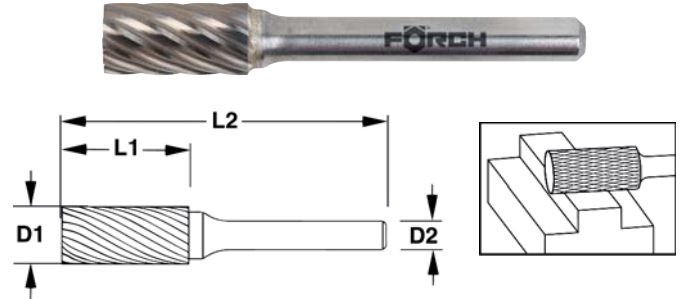


# Inox ZYA carbide rotary burrs, shape 1

- Cylindrical shape without spur toothing
- Special toothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

**Applications:**

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



| Technical Data |       |       |       |                  |  |
|----------------|-------|-------|-------|------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recom. speed rpm |  |
| 6.0            | 6.0   | 18.0  | 50.0  | 30,000 – 45,000  |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 30,000  |  |

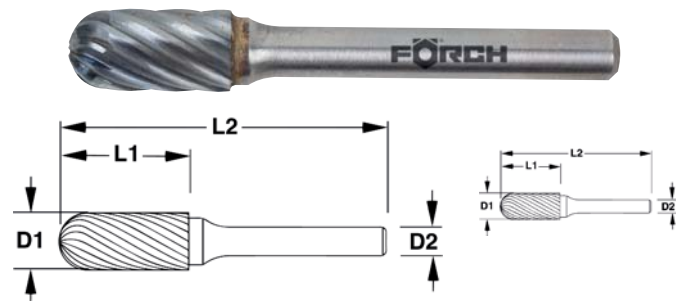
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5975 1 6 4  | INOX ZYA CARBR.T.BURRS FORM1D6 | 1 ü |
| 5975 1 10 4 | INOX ZYA CAR.T.BURRS FORM1 D10 | 1 ü |

# Inox WRC carbide rotary burrs, shape 2

- Radius end shape
- Special toothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

**Applications:**

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 6.0            | 6.0   | 18.0  | 50.0  | 30,000 – 45,000        |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 30,000        |  |

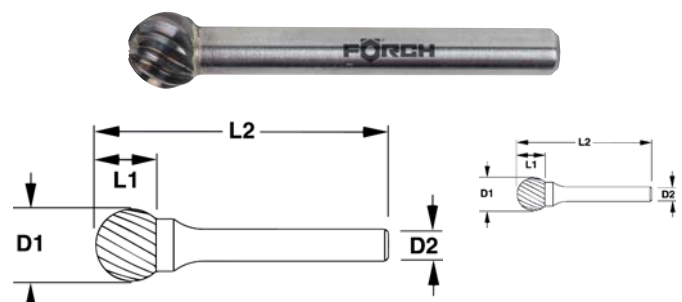
| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5975 2 6 4  | INOX CRC BURRS FORM2 D6  | 1 ü |
| 5975 2 10 4 | INOX CRC BURRS FORM2 D10 | 1 ü |

# Inox KUD carbide rotary burrs, shape 3

- Ball shape
- Special toothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

**Applications:**

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 9.6            | 6.0   | 8.0   | 54.0  | 19,000 – 30,000        |  |

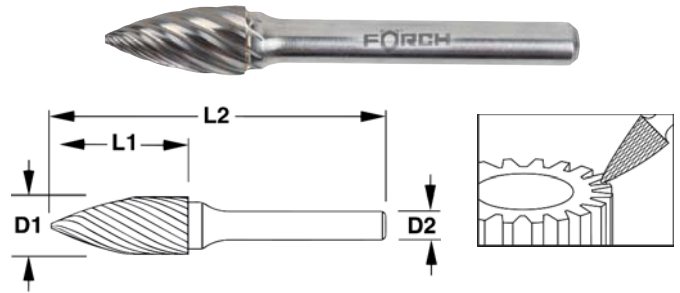
| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5975 3 10 4 | INOX KUD BURRS FORM3 D10 | 1 ü |

# Inox SPG carbide rotary burrs, shape 6

- Ogive shape
- Special tothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

**Applications:**

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



| Technical Data |       |       |       |                  |  |
|----------------|-------|-------|-------|------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recom. speed rpm |  |
| 6.0            | 6.0   | 18.0  | 50.0  | 30,000 – 45,000  |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 30,000  |  |

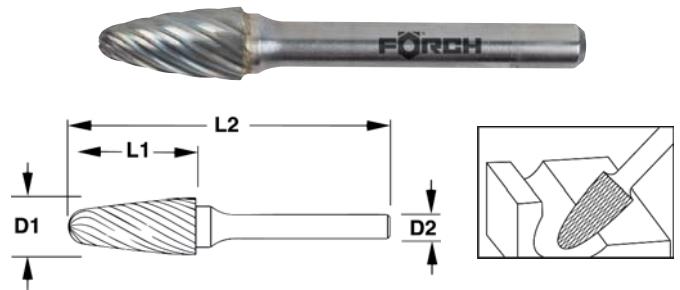
| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5975 6 6 4  | INOX SPG BURRS FORM6 D6  | 1 ü |
| 5975 6 10 4 | INOX SPG BURRS FORM6 D10 | 1 ü |

# Inox RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Special tothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

**Applications:**

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



| Technical Data |       |       |       |                        |  |
|----------------|-------|-------|-------|------------------------|--|
| D1 mm          | D2 mm | L1 mm | L2 mm | Recommended speeds rpm |  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 30,000        |  |
| 12.7           | 6.0   | 25.0  | 70.0  | 15,000 – 22,000        |  |

| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5975 7 10 4 | INOX RBF BURRS FORM7 D10 | 1 ü |
| 5975 7 12 4 | INOX RBF BURRS FORM7 D12 | 1 ü |

# Carbide burr set, Inox tothing, 6-pc.

- In plastic case Art.-No. 4415 14 16 1 with VARO soft system Art.-No. 9026 827

**Contents:**

| Art.-No..    | Art.-Description               | Quantity |
|--------------|--------------------------------|----------|
| 4415 14 16 1 | EMPTY CASE SIZE B              | 1        |
| 5975 1 10 4  | INOX ZYA CAR.T.BURRS FORM1 D10 | 1        |
| 5975 2 10 4  | INOX CRC BURRS FORM2 D10       | 1        |
| 5975 3 10 4  | INOX KUD BURRS FORM3 D10       | 1        |
| 5975 6 10 4  | INOX SPG BURRS FORM6 D10       | 1        |
| 5975 7 10 4  | INOX RBF BURRS FORM7 D10       | 1        |
| 5975 10 12 3 | RADIUS CUTTER ST FORM10 D12    | 1        |

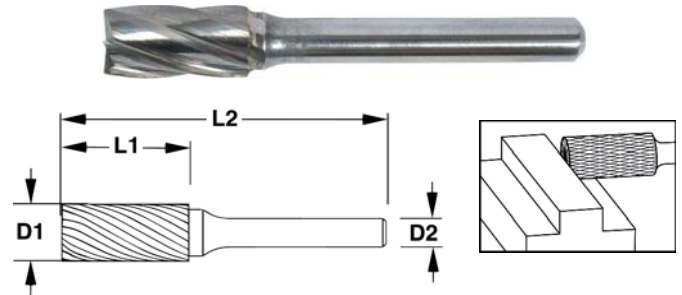
| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5975 94     | CARB.BURR SET,INOX TOOTH.6PCE | 1   |





# Carbide coated burrs alu tootinging DIN 8032/8033

- Cylindrical shape with face spline
- Coarse tootinging for the cutting of high material removal
- Ideally suited for the use on aluminium and aluminium alloy, light-metal, all non-ferrous metals and plastics
- Impact-free working and a smooth surface due to optimized concentricity
- For the use with grinders
- Similar to DIN 8032 / 8033

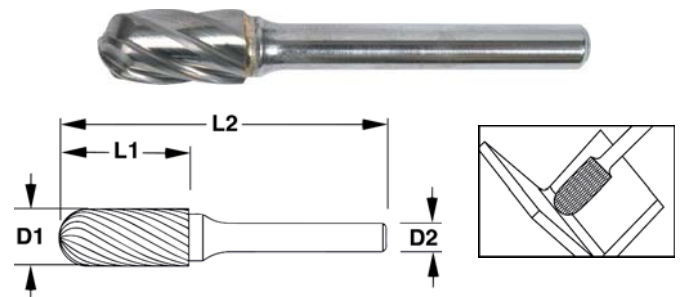


| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5975 1 10 1 | CARB.BURRS ALU ZYAS FO.1 D10 | 1 ü |
| 5975 1 12 1 | CARB.BURRS ALU/ZYAS FO.1 D12 | 1 ü |

| Technical Data |       |       |       |                 |
|----------------|-------|-------|-------|-----------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Rec. speed rpm  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 29,000 |
| 12.7           | 6.0   | 25.0  | 70.0  | 16,000 – 24,000 |

# Alu WRC carbide rotary burrs, shape 2

- Radius end shape
- Coarse teeth for cutting with high material removal rate
- Exceptionally well-suited for use with aluminium and aluminium alloys, light metals, all non-ferrous metals and plastics
- Shock-proof work and smooth surface thanks to optimised concentricity
- For use in die grinders
- Similar to DIN 8032 / 8033

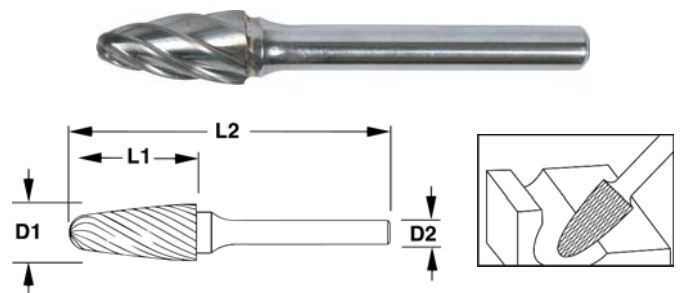


| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5975 2 10 1 | CARB.BURRS ALU WRC FO.2 D10 | 1 ü |
| 5975 2 12 1 | CARB.BURRS ALU WRC FO.2 D12 | 1 ü |

| Technical Data |       |       |       |                 |
|----------------|-------|-------|-------|-----------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Rec. speed rpm  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 29,000 |
| 12.7           | 6.0   | 25.0  | 70.0  | 16,000 – 24,000 |

# Alu RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Coarse teeth for cutting with high material removal rate
- Exceptionally well-suited for use with aluminium and aluminium alloys, light metals, all non-ferrous metals and plastics
- Shock-proof work and smooth surface thanks to optimised concentricity
- For use in die grinders
- Similar to DIN 8032 / 8033



| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5975 7 10 1 | CARB.BURRS ALU/RBF FO.7 D10 | 1 ü |
| 5975 7 12 1 | CARB.BURRS ALU RBF FO.7 D12 | 1 ü |

| Technical Data |       |       |       |                 |
|----------------|-------|-------|-------|-----------------|
| D1 mm          | D2 mm | L1 mm | L2 mm | Rec. speed rpm  |
| 9.6            | 6.0   | 19.0  | 64.0  | 19,000 – 29,000 |
| 12.7           | 6.0   | 25.0  | 70.0  | 16,000 – 24,000 |



# Keyless drill chuck

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5598 1      | KEYLESS DR.CHUCK3/8"-24 0.5-10 | 1   |
| 5598 2      | KEYLESS DR.CHUCK1/2"-20 0.5-10 | 1   |
| 5598 3      | KEYLESS DR.CHUCK1/2"-20 1.0-13 | 1   |
| 5598 10     | KEYLESS DRILL CHUCK B12 1.0-13 | 1   |
| 5598 11     | KEYLESS DRILL CHUCK B16 1.0-13 | 1   |
| 5598 12     | KEYLESS DRILL CHUCK B16 3.0-16 | 1   |

(Fixture / clamping area)



# Compact keyless drill chuck

- For reversing boring and hammer drills
- Retaining ring prevents opening of the drill chuck after locking and ensures secure tool clamping

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5598 570    | COMP.KEYL.DR.CH.1/2"-20 1.5-13 | 1   |

(Fixture / clamping area)



# Keyed - drill chuck

- With drill chuck key
- Art.-No. 5598 40: for reversing hammer and percussive drill with higher impact frequency. Excentric secures the chuck from opening during the drilling.
- Art.-No. 5598 91: suitable drill chuck key S2

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5598 30     | KEYED DRI.CHUCK 3/8"-24 0.8-10 | 1   |
| 5598 31     | KEYED DRI.CHUCK 1/2"-20 0.8-10 | 1   |
| 5598 32     | KEYED DRI.CHUCK 1/2"-20 1.5-13 | 1   |
| 5598 40     | HAMM.DRILL CHUCK1/2"-20 1.5-13 | 1   |

(Fixture / clamping area)



# Hammer drill chuck

- With SDS Plus mounting for the use with percussion drills
- Art.-No. 5598 9: suitable drill chuck key S2

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5598 50     | HAMM.DRILL CHUCK SDS10 2,5-13 | 1   |

(Fixture / clamping area)



# Drill chuck key

- For gear rim drill chucks

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5598 90     | DRILL CHUCK KEY (S1) FOR 3/8" | 1   |
| 5598 91     | DRILL CHUCK KEY (S2) FOR 1/2" | 1   |
| 5598 92     | DRILL CHUCK KEY (S3) FOR 3/4" | 1   |

### Technical Data

|          |        |
|----------|--------|
| Pin Ø mm | Ø 3.97 |
|          | Ø 5.89 |
|          | Ø 7.95 |



# Taper shank with drill chuck taper DIN 238

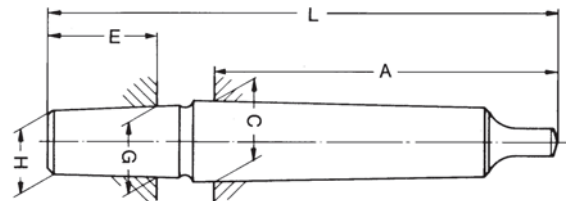
- Fully hardened and ground
- For conversion of drills with morse taper DIN 228 to drill chuck with internal taper



### Technical Data

| Art.-No.  | Morse taper DIN 228 B | Bore for dowel | L (mm) | A (mm) | C (mm) | E (mm) | G (mm) | H (mm) | Suitable drill chuck |
|-----------|-----------------------|----------------|--------|--------|--------|--------|--------|--------|----------------------|
| 5597 1 12 | MK 1                  | B12            | 89.0   | 62.0   | 12.065 | 18.5   | 12.065 | 11.1   | 5598 10              |
| 5597 1 16 | MK 1                  | B16            | 97.0   | 62.0   | 12.065 | 24.0   | 15.733 | 14.5   | 5598 11 / 5598 12    |
| 5597 2 12 | MK 2                  | B12            | 106.5  | 75.0   | 17.780 | 18.5   | 12.065 | 11.1   | 5598 10              |
| 5597 2 16 | MK 2                  | B16            | 110.5  | 75.0   | 17.780 | 24.0   | 15.733 | 14.5   | 5598 11 / 5598 12    |
| 5597 3 12 | MK 3                  | B12            | 125.0  | 94.0   | 23.825 | 18.5   | 12.065 | 11.1   | 5598 10              |
| 5597 3 16 | MK 3                  | B16            | 134.0  | 94.0   | 23.825 | 24.0   | 15.733 | 14.5   | 5598 11 / 5598 12    |
| 5597 4 16 | MK 4                  | B16            | 159.0  | 117.5  | 31.267 | 24.0   | 15.733 | 14.5   | 5598 11 / 5598 12    |

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5597 1 12   | TAPER SHANK DIN238 MT 1-B 12 | 1   |
| 5597 1 16   | TAPER SHANK DIN238 MT 1-B 16 | 1   |
| 5597 2 12   | TAPER SHANK DIN238 MT 2-B 12 | 1   |
| 5597 2 16   | TAPER SHANK DIN238 MT 2-B 16 | 1   |
| 5597 3 12   | TAPER SHANK DIN238 MT 3-B 12 | 1   |
| 5597 3 16   | TAPER SHANK DIN238 MT 3-B 16 | 1   |
| 5597 4 16   | TAPER SHANK DIN238 MT 4-B 16 | 1   |



# Reduction sleeve DIN 2185

- Fully hardened and ground
- For reduction of morse tapers



| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5512 21     | MORSE TAPER-RED.SLEEVE A2/I1 | 1   |
| 5512 31     | MORSE TAPER-RED.SLEEVE A3/I1 | 1   |
| 5512 32     | MORSE TAPER RED.SLEEVE A3/I2 | 1   |
| 5512 41     | MORSE TAPER-RED.SLEEVE A4/I1 | 1   |
| 5512 42     | MORSE TAPER-RED.SLEEVE A4/I2 | 1   |
| 5512 43     | MORSE TAPER-RED.SLEEVE A4/I3 | 1   |
| 5512 52     | MORSE TAPER-RED.SLEEVE A5/I2 | 1   |
| 5512 53     | MORSE TAPER-RED.SLEEVE A5/I3 | 1   |
| 5512 54     | MORSE TAPER-RED.SLEEVE A5/I4 | 1   |

### Technical Data

| Outside MK machine fixture | Inside MK drill adaptor | Length mm |
|----------------------------|-------------------------|-----------|
| MK 2                       | MK 1                    | 92        |
| MK 3                       | MK 1                    | 99        |
| MK 3                       | MK 2                    | 112       |
| MK 4                       | MK 1                    | 124       |
| MK 4                       | MK 2                    | 124       |
| MK 4                       | MK 3                    | 140       |
| MK 5                       | MK 2                    | 156       |
| MK 5                       | MK 3                    | 156       |
| MK 5                       | MK 4                    | 171       |

(O = outside machine intake/ I = inside drill adaptor)

# Taper drift DIN 317

- For driving twist drills out of a reduction set

| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5512 2      | TAPER DRIFT DIN 317 MT 1+2 | 1   |
| 5512 3      | TAPER DRIFT DIN 317 MT 3   | 1   |
| 5512 4      | TAPER DRIFT DIN 317 MT 4   | 1   |



# Drilling and cutting paste

- Lubricates and cools cutting tools for machining metals, and clamping and cutting operations
- Improved surface quality through optimum lubrication of the tools
- Free of chlorine and heavy metals

## Your Advantage / Benefit

- Extends the tool life while drilling, thread cutting, lathing, milling, sawing etc.
- Machining on vertical surfaces
- Good corrosion protection

## Application

- Also suitable for the machining of difficult to cut steels (VA, titanium, manganese etc.)



| Article No. | Article Description            |
|-------------|--------------------------------|
| 6580 5820   | C(500G) DRILLING-CUTTING PASTE |
| 5416 2      | ENAMEL VARNISH BRUSH 2         |

## Related Products

- "Beta" protective goggles  
Art.-No. 5400 902 1



- Enamel Varnish Brush  
Art.-No. 5416 2



- Magnetic chip lifter  
Art.-No. 4755 10





# Drilling and Cutting Oil

- Extends the service life of clamping and cutting tools
  - Can be used while drilling, thread cutting, sawing, turning or milling
- Art.-No. 6580 5800:**
- Cutting oil spray with an environmentally-friendly propellant

## Your Advantage / Benefit

- Penetrates into the tightest installations
- Cools and protects against corrosion
- Silicone-free

## Application

- Suitable for all materials – such as stainless steel, acid-resistant steels, spring steel, cast iron, also non-ferrous metals such as aluminium, titanium, bronze, copper



6580 5800

6580 5805



| Article No. | Article Description            |
|-------------|--------------------------------|
| 6580 5800   | DRILL. AND CUTTING FLUID 500ML |
| 6580 5805   | DRILLING&CUTTING FLUID 5L      |

**Art.-No. 6580 5805:**

- Suitable dispensing tap Art.-No. 6000 0023
- Suitable plastic case Art.-No. 6000 0065 / 6000 0080

## Related Products

- "Beta" protective goggles  
Art.-Nr. 5400 902 1



- Coolant basic set  
Art.-Nr. 5595 12 1 / 5595 14 1



5595 12 1



5595 14 1

- Magnetic chip lifter  
Art.-Nr. 4755 10



## Drilling and cutting foam

- Highly adherent cutting oil foam for targeted application to the area to be worked on
- Lubricates and cools tools while drilling, tapping and threading, lathing, milling, sawing etc.
- Extends tool life
- For work on vertical surfaces and overhead
- Compatible with all water-miscible cooling lubricants
- Soluble in water, can be washed off with clean water
- Free of chlorine, sulphur and mineral oils
- Biodegradable
- For machining all alloyed and non-alloyed metals and cast irons, as well as copper, copper alloys and all stainless steel alloys



| Article No. | Article Description          |
|-------------|------------------------------|
| 6580 5815   | DRILL AND CUTTING FOAM 400ML |

## Drilling and cutting paste stick

- Lubricant for tube and sheet, step drills and countersink
- Excellent separating and cooling properties
- For high-quality surface finish and longer service life

**Application:**

- Apply lubricant along the main cutting edge

| Article No. | Article description           | QTY |
|-------------|-------------------------------|-----|
| 5529 1      | DRILL.CUTTING PASTE STICK 18G | 1   |



## Drilling and Cutting Emulsion - Water Soluble

- EP Cooling lubricant that can be mixed with water (EP = Extreme Pressure for heavy duty machining)
- High performance cutting and cooling emulsion
- Greater corrosion-protection
- Extremely resistant against microorganisms
- Longer tool life
- Application concentration: 5 – 20%
- Silicone-free
- Also suitable for use in CNC machines

**Application:**

- Preparation of operation emulsion: carefully add and stir the emulsion to drinking water or use a automatic mixing device.

| Article No. | Article Description           |
|-------------|-------------------------------|
| 6580 5810   | (5L)DRILLING&CUTT.EMULSION WS |

**Suitable spout:**

- 5 l: Art.-No. 6000 0023





# Thread-Cutting Oil DVGW

- DVGW approved
- Mineral oil-free, for potable water pipes
- Compatible with all commercially available thread-cutting machinery, even at high cutting speeds
- Also suitable as a spray oil for drilling, tapping, turning, milling etc.
- Colour: red

| Article No. | Article Description          |
|-------------|------------------------------|
| 6580 5851   | THREAD-CUT.FLUID DVGW 300ML  |
| 6580 5855   | THR.CUT.FLUID-M. WAT.SAFE 5L |

**Suitable spout:**

- 5 l: Art.-No. 6000 0023



6580 5851



6580 5855



# Magnetic chip lifter

- Cleaner work place
- Rust-free material
- Plastic handle
- The rod demagnetises itself when the knob is pulled
- Length: 406 mm



| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 4755 10     | MAGNETIC CHIP REMOVAL TOOL | 1   |

# Coolant hose basic set

- Universal hose system with highest flexibility
- For cooling and lubricating when sawing, drilling, lathe processing, grinding and spark erosion with cross section of 1/2" or 1/4"
- Articulation pieces, nozzles, connections and stop valves enable a perfect solution for any cooling and lubricating processes as well as blow-off or suction of air up to a pressure of 4 bar
- Dimensionally stable due to close fit. No creeping under pressure or vibration
- Resistant against chemicals and solvents, no electric conductivity
- Using adapter Art.-No. 5595 12 8 or Art.-No. 5595 14 8 other hose systems such as LOC-LINE, LEGROM-VARIO and ARIANA can be extended
- Also ideal for the positioning of fixing aids

| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5595 12 1   | COOLANT HOSE BASIC SET 1/2" | 1   |
| 5595 14 1   | COOLANT HOSE BASIC SET 1/4" | 1   |



5595 12 1



5595 14 1

### Contents Art.-No. 5595 12 1:

- 36x Art.-No. 5595 12 2: articulation pieces
- 3x Art.-No. 5595 12 3: round nozzles Ø 10 mm
- 1x Art.-No. 5595 12 5: flat nozzle 30 mm
- 1x Art.-No. 5595 12 6: flat nozzle 60 mm
- 1x Art.-No. 5595 12 4: flat nozzle 6-hole Ø 3.3 mm
- 1x Art.-No. 5595 12 11: Y-pipe
- 1x Art.-No. 5595 12 12: Y-pipe reduct. 1/2" by 1/4"
- 1x Art.-No. 5595 12 7: reduction 1/2" by 1/4"
- 3x Art.-No. 5595 12 10: threaded nipple R 1/2"
- 2x Art.-No. 5595 12 9: threaded nipple R 3/8"
- 1x Art.-No. 5595 12 8: adapter LOC-LINE
- 1x Art.-No. 5595 12 16: circlip pliers
- 1x Art.-No. 5595 12 15: separative element

### Contents Art.-No. 5595 14 1:

- 66x Art.-No. 5595 14 2: articulation pieces
- 2x Art.-No. 5595 14 3: round nozzles Ø 1.6 mm
- 3x Art.-No. 5595 14 4: round nozzles Ø 3.2 mm
- 2x Art.-No. 5595 14 5: round nozzles Ø 5.6 mm
- 1x Art.-No. 5595 14 7: flat nozzle 24 mm
- 1x Art.-No. 5595 14 6: flat nozzle 7-hole Ø 1.5 mm
- 2x Art.-No. 5595 14 12: Y-pipes
- 1x Art.-No. 5595 14 9: double-sockets
- 2x Art.-No. 5595 14 10: threaded nipples R 1/8"
- 3x Art.-No. 5595 14 11: threaded nipples R 1/4"
- 1x Art.-No. 5595 14 8: adapter LOC-LINE
- 1x Art.-No. 5595 14 16: circlip pliers
- 1x Art.-No. 5595 14 15: separative element



## Coolant hose system accessories 1/2"

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5595 12 2   | PK(12)ARTICUL.PIECE 265MM 1/2" | 1   |
| 5595 12 3   | PK(4) ROUND NOZZLES Ø10 1/2"   | 1   |
| 5595 12 4   | PK(2)FLAT NOZ.6-HOLE Ø3.3 1/2" | 1   |
| 5595 12 5   | PK(2) FLAT NOZZLES 30MM 1/2"   | 1   |
| 5595 12 6   | PK(2) FLAT NOZZLES 60MM 1/2"   | 1   |
| 5595 12 7   | PK(2)REDUCTIONS 1/2" BY 1/4"   | 1   |
| 5595 12 8   | PK(4)ADAPTER FOR LOC-LINE 1/2" | 1   |
| 5595 12 9   | PK(4)THREADED NIPPLE R3/8 1/2" | 1   |
| 5595 12 10  | PK(4)THREADED NIPPLE R1/2 1/2" | 1   |
| 5595 12 11  | PK(2)Y-PIPE 1/2"               | 1   |
| 5595 12 12  | PK(2)Y-PIPE RED.1/2" BY 1/4"   | 1   |
| 5595 12 13  | PK(2)STOP VALVES 1/2"          | 1   |
| 5595 12 15  | SEPARATIVE ELEMENT 1/2"        | 1   |
| 5595 12 16  | CIRCLIP PLIERS 1/2"            | 1   |



## Coolant hose system accessories 1/4"

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5595 14 2   | PK(22)ARTICUL.PIECE 280MM 1/4" | 1   |
| 5595 14 3   | PK(4) ROUND NOZZLES Ø1.6 1/4"  | 1   |
| 5595 14 4   | PK(4) ROUND NOZZLES Ø3.2 1/4"  | 1   |
| 5595 14 5   | PK(4) ROUND NOZZLES Ø5.6 1/4"  | 1   |
| 5595 14 6   | PK(2)FLAT NOZ.7-HOLE Ø1.5 1/4" | 1   |
| 5595 14 7   | PK(2) FLAT NOZZLES 24MM 1/4"   | 1   |
| 5595 14 8   | PK(4)ADAPTER LOC-LINE 1/4"     | 1   |
| 5595 14 9   | PK(4)DOUBLE-SOCKETS 1/4"       | 1   |
| 5595 14 10  | PK(4)THREADED NIPPLE R1/8 1/4" | 1   |
| 5595 14 11  | PK(4)THREADED NIPPLE R1/4 1/4" | 1   |
| 5595 14 12  | PK(2)Y-PIPE 1/4"               | 1   |
| 5595 14 13  | PK(2)STOP VALVES 1/4"          | 1   |
| 5595 14 14  | PK(2)JOINT-CLIPS 1/4"          | 1   |
| 5595 14 15  | SEPARATIVE ELEMENT 1/4"        | 1   |
| 5595 14 16  | CIRCLIP PLIERS 1/4"            | 1   |



## Drill box, empty

- Made out of plastic material ABS
- Slight, stable, functional and user-friendly
- Angled form makes non-skid stacking possible
- Protected sliding fastener with suspension

| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5509 1      | DRILL BOX EMPTY 1-10 19-PCS | 1   |
| 5509 2      | DRILL BOX EMPTY 1-13 25-PCS | 1   |



## Standard assortment box for drill bits

- Robust metal box, powder-coated
- Dimensions (W x H x D): 340 x 50 x 240 mm
- With easily accessible, rounded plastic inserts
- Handy carrying handles for transporting to the workplace
- The turn lock reliably prevents inadvertent opening of the cover

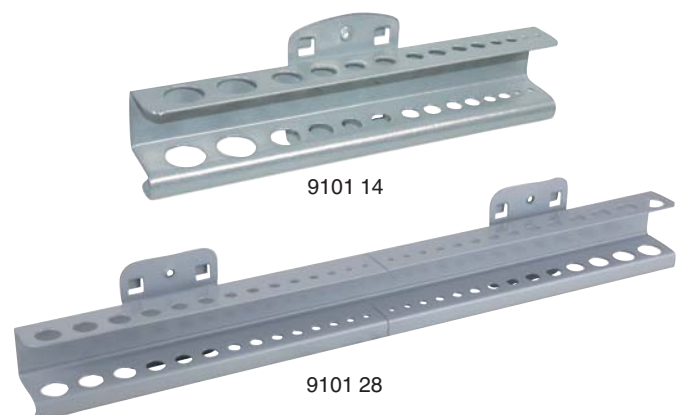
| Article No. | Article description         | QTY |
|-------------|-----------------------------|-----|
| 9025 20     | ASSORTMENT BOX F20 EMPTY    | 1   |
| 9025 90     | ASSORTMENT BOX WITHOUT TRAY | 1   |
| 9026 20     | TRAY 20-FOLD                | 1   |



## Drill bit holder

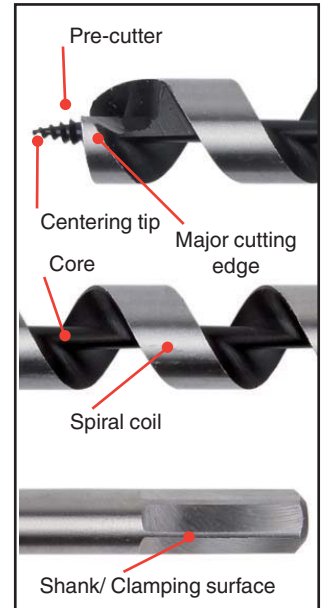
- Plastic screw M4 x 6
  - Alternatively metal screw Art.-No. 1201 4 6
- Art.-No. 9101 14:**
- Drill intake Ø mm each 1x: 3.4 / 3.8 / 4.2 / 4.8 / 5.2 / 5.8 / 6.2 / 6.8 / 8.2 / 8.8 / 9.8 / 11.2 / 12.2 / 13.2
- Art.-No. 9101 28:**
- Drill intake Ø mm each 2x: 3.4 / 3.8 / 4.2 / 4.8 / 5.2 / 5.8 / 6.2 / 6.8 / 8.2 / 8.8 / 9.8 / 11.2 / 12.2 / 13.2

| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 9101 14     | DRILL BIT HOLDER 14-FOLD | 1   |
| 9101 28     | DRILL BIT HOLDER 28-FOLD | 1   |



# Auger drill bit

- For drilling solid wood (e.g. squared timber, rafter, wooden window etc.)
- Precisely milled spiral coils – guarantees no balance
- Specific construction of the drill:
  - Up to 5 times faster drilling in comparison to commercially available wood drills
  - Optimum chip removal, especially for wet wood and deep drillings
  - Fiber-free removal and no blocking
  - Universally usable for hand and core drilling machines
- Precise open up drilling due to long centering tip
- Hexagonal shank with clamping surfaces makes an application with all drilling machines with toothed wheel rim and quick-action chuck possible
- Improved run-out accuracy due to fluted land inside the drill core



**Art.-No. 5685 6 320 and 5685 8 320:**

- Pre-drill for rafter nails

**Art.-No. 5685 24 460:**

- Pre-drill for Simplex wood connector

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5685 6 235  | SPEC.AUGER DRILL BIT 6X230/180 | 1   |
| 5685 6 320  | SPEC.AUGER DRILL BIT 6X300/250 | 1   |
| 5685 8 235  | SPEC.AUGER DRILL BIT 8X230/180 | 1   |
| 5685 8 320  | SPEC.AUGER DRILL BIT 8X300/250 | 1   |
| 5685 8 460  | SPEC.AUGER DRILL BIT 8X460/350 | 1   |
| 5685 10 235 | SPEC.AUGER DRILL BIT10X230/160 | 1   |
| 5685 10 320 | SPEC.AUGER DRILL BIT10X300/250 | 1   |
| 5685 10 460 | SPEC.AUGER DRILL BIT10X460/350 | 1   |
| 5685 12 235 | SPEC.AUGER DRILL BIT12X230/160 | 1   |
| 5685 12 320 | SPEC.AUGER DRILL BIT12X300/250 | 1   |
| 5685 12 460 | SPEC.AUGER DRILL BIT12X460/350 | 1   |
| 5685 14 320 | SPEC.AUGER DRILL BIT14X300/250 | 1   |
| 5685 14 460 | SPEC.AUGER DRILL BIT14X460/350 | 1   |
| 5685 16 320 | SPEC.AUGER DRILL BIT16X300/220 | 1   |
| 5685 16 460 | SPEC.AUGER DRILL BIT16X460/350 | 1   |
| 5685 16 650 | SPEC.AUGER DRILL BIT16X600/460 | 1   |
| 5685 18 320 | SPEC.AUGER DRILL BIT18X300/250 | 1   |
| 5685 18 460 | SPEC.AUGER DRILL BIT18X460/350 | 1   |
| 5685 20 320 | SPEC.AUGER DRILL BIT20X300/250 | 1   |
| 5685 20 460 | SPEC.AUGER DRILL BIT20X460/350 | 1   |
| 5685 22 460 | SPEC.AUGER DRILL BIT22X460/350 | 1   |
| 5685 24 460 | SPEC.AUGER DRILL BIT24X460/350 | 1   |
| 5685 25 320 | SPEC.AUGER DRILL BIT25X320/250 | 1   |
| 5685 26 460 | SPEC.AUGER DRILL BIT26X460/350 | 1   |
| 5685 28 460 | SPEC.AUGER DRILL BIT28X460/360 | 1   |
| 5685 35 460 | SPEC.AUGER DRILL BIT35X460/360 | 1   |

(Ø mm x L mm / spiral length mm)

## Auger drill bit set 460

- 6-piece in wood cassette

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5689 460    | 6-PCS AUGER DRILL BIT SET 460 | 1   |

**Contents:**

- per 1x AGR 5685 Auger drill bit: 10x 460/350, 12x 460/350, 14x 460/350, 16x 460/350, 18x 460/350, 20x 460/350





# Wood twist drill with 2 cutting edge

- For softwood and wood-core plywood
- Wood twist drill made of CV steel with centering tip and 2 cutting edges which prevents break down of the drill bit
- Cylindrical shank:
  - from Ø 11 mm = 8 x 30 mm
  - from Ø 14 mm = 10 x 30 mm
  - from Ø 22 mm = 13 x 40 mm



| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5660 3      | CYL.-WOOD TWIST DRILL 3  | 1   |
| 5660 4      | CYL.-WOOD TWIST DRILL 4  | 1   |
| 5660 5      | CYL.-WOOD TWIST DRILL 5  | 1   |
| 5660 6      | CYL.-WOOD TWIST DRILL 6  | 1   |
| 5660 7      | CYL.-WOOD TWIST DRILL 7  | 1   |
| 5660 8      | CYL.-WOOD TWIST DRILL 8  | 1   |
| 5660 9      | CYL.-WOOD TWIST DRILL 9  | 1   |
| 5660 10     | CYL.-WOOD TWIST DRILL 10 | 1   |
| 5660 12     | CYL.-WOOD TWIST DRILL 12 | 1   |
| 5660 14     | CYL.-WOOD TWIST DRILL 14 | 1   |
| 5660 16     | CYL.-WOOD TWIST DRILL 16 | 1   |

| Technical Data |                 |                  |
|----------------|-----------------|------------------|
| Ø mm           | Total length mm | Spiral length mm |
| 3              | 61              | 30               |
| 4              | 75              | 40               |
| 5              | 86              | 50               |
| 6              | 93              | 60               |
| 7              | 109             | 70               |
| 8              | 117             | 80               |
| 9              | 125             | 80               |
| 10             | 133             | 90               |
| 12             | 151             | 110              |
| 14             | 160             | 120              |
| 16             | 162             | 120              |

(Ø mm)

# Wood twist drill with 2 pre-cutting edges

- For hard and soft wood and layered chipboards
- Wood twist drill made of CV steel with centering tip and 2 pre-cutters to optimise the drilling and avoids splinters
- Cylindrical shank:
  - from Ø 11 mm = 8 x 30 mm
  - from Ø 14 mm = 10 x 30 mm
  - from Ø 22 mm = 13 x 40 mm



| Article No. | Article Description             | QTY |
|-------------|---------------------------------|-----|
| 5661 3      | CYL.-WOOD TWIST DR.2 PRE-CUT.3  | e 5 |
| 5661 4      | CYL.-WOOD TWIST DR.2 PRE-CUT.4  | e 5 |
| 5661 5      | CYL.-WOOD TWIST DR.2 PRE-CUT.5  | e 5 |
| 5661 6      | CYL.-WOOD TWIST DR.2 PRE-CUT.6  | e 5 |
| 5661 8      | CYL.-WOOD TWIST DR.2 PRE-CUT.8  | e 5 |
| 5661 10     | CYL.-WOOD TWIST DR.2 PRE-CUT.10 | e 5 |
| 5661 12     | CYL.-WOOD TWIST DR.2 PRE-CUT.12 | e 5 |

| Technical Data |                 |                  |
|----------------|-----------------|------------------|
| Ø mm           | Total length mm | Spiral length mm |
| 3              | 61              | 33               |
| 4              | 75              | 43               |
| 5              | 86              | 52               |
| 6              | 93              | 57               |
| 8              | 117             | 75               |
| 10             | 120             | 81               |
| 12             | 151             | 96               |

(Ø mm)

# Wood twist drill sets

Art.-No. 5669 5660 and 5669 5661:

- 8-piece

Art.-No. 5669 5660 5 and 5669 5661 5:

- 5-piece

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5669 5660 5 | 5-PART CYL.WOOD DRILL SET 5660 | 1   |
| 5669 5660   | 8-PART CYL.WOOD DRILL SET 5660 | 1   |
| 5669 5661 5 | 5-PA.CYL.WOOD DR.2 PRE-CU.5661 | 1   |
| 5669 5661   | 8-PA.CYL.WOOD DR.2 PRE-CU.5661 | 1   |

Contents Art.-No. 5669 5660 5 and 5669 5661 5:

- Each 1x Wood twist drill  
Ø 4 / 5 / 6 / 8 / 10 mm

Contents Art.-No. 5669 5660 and 5669 5661:

- Each 1x Wood twist drill  
Ø 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 mm



# Push-on countersink

- For countersinking of drillings in wood, plastic and non-ferrous metals
- Can be used as depth gauge



| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5662 30     | PUSH-ON COUNTERSINK B. 3.0 | 1   |
| 5662 35     | PUSH-ON COUNTERSINK B. 3.5 | 1   |
| 5662 40     | PUSH-ON COUNTERSINK B. 4.0 | 1   |
| 5662 45     | PUSH-ON COUNTERSINK B. 4.5 | 1   |
| 5662 50     | PUSH-ON COUNTERSINK B. 5.0 | 1   |
| 5662 60     | PUSH-ON COUNTERSINK B. 6.0 | 1   |

| Technical Data |              |              |
|----------------|--------------|--------------|
| Inside Ø mm    | Outside Ø mm | No. of edges |
| 3.0            | 16           | 5            |
| 3.5            | 16           | 5            |
| 4.0            | 16           | 5            |
| 4.5            | 16           | 5            |
| 5.0            | 16           | 5            |
| 6.0            | 16           | 5            |

(Inside Ø mm)

# Form mould 400 mm, cylinder shank

- For drilling through forms, boards, floors, girders etc.
- Wood twist drill cutting edge, with special grinding, regrindable, robust and unbreakable
- Optimised chip transport due to constant cross section of the chip channel especially in the output of the drilling spiral
- Turned shank from Ø 16 mm optimises the chip flow and enables an easy pull-back of the drill
- High-quality material and high breaking strength
- Metal adhesive fixated round-thread connection of bit and shank (Ø max. 13 mm for cylinder shank), long service life and optimal radial run



| Article No. | Article Description         | QTY |
|-------------|-----------------------------|-----|
| 5665 8      | FORM MOULD DRILL BIT 8X400  | 1   |
| 5665 10     | FORM MOULD DRILL BIT 10X400 | 1   |
| 5665 12     | FORM MOULD DRILL BIT 12X400 | 1   |
| 5665 14     | FORM MOULD DRILL BIT 14X400 | 1   |
| 5665 16     | FORM MOULD DRILL BIT 16X400 | 1   |
| 5665 18     | FORM MOULD DRILL BIT 18X400 | 1   |
| 5665 20     | FORM MOULD DRILL BIT 20X400 | 1   |
| 5665 22     | FORM MOULD DRILL BIT 22X400 | 1   |

(Ø mm x total length mm)

| Technical Data |                 |            |
|----------------|-----------------|------------|
| Ø mm           | Total length mm | Shank Ø mm |
| 8              | 400             | 6          |
| 10             | 400             | 7          |
| 12             | 400             | 9          |
| 14             | 400             | 9          |
| 16             | 400             | 9          |
| 18             | 400             | 9          |
| 20             | 400             | 9          |
| 22             | 400             | 9          |

# Form mould 600 mm, cylinder shank

- Material: Special steel
- Shank: Cylindric
- All drills are manufactured using a special process (no soldering), therefore, they are break-proof and impervious to the heaviest loading
- Drill does not separate from the shaft, even during the toughest applications
- Twist drill cutting edge for wood with special grinding, easy to sharpen
- Robust and indestructible



| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5666 10     | FORM MOULD 10X600   | 1   |
| 5666 12     | FORM MOULD 12X600   | 1   |
| 5666 14     | FORM MOULD 14X600   | 1   |
| 5666 16     | FORM MOULD 16X600   | 1   |
| 5666 18     | FORM MOULD 18X600   | 1   |
| 5666 20     | FORM MOULD 20X600   | 1   |
| 5666 22     | FORM MOULD 22X600   | 1   |

| Technical Data |                 |            |
|----------------|-----------------|------------|
| Ø mm           | Total length mm | Shank Ø mm |
| 10             | 600             | 7          |
| 12             | 600             | 9          |
| 14             | 600             | 9          |
| 16             | 600             | 9          |
| 18             | 600             | 9          |
| 20             | 600             | 9          |
| 22             | 600             | 9          |

# Form mould 400 mm, SDS-plus shank

- For drilling through forms, boards, floors, girders etc.
- Wood twist drill cutting edge, with special grinding, regrindable, robust and unbreakable
- Optimised chip transport due to constant cross section of the clip channel especially in the output of the drilling spiral
- Turned shank from Ø 16 mm optimises the chip flow and enables an easy pull-back of the drill
- High-quality material and high breaking strength
- Metal adhesive fixated round-thread connection of bit and shank (Ø max. 13 mm for cylinder shank) long service life and optimal radial run



| Article No. | Article Description             | QTY |
|-------------|---------------------------------|-----|
| 5667 10     | SDS FORM MOULD DRILL BIT 10X400 | 1   |
| 5667 12     | SDS FORM MOULD DRILL BIT 12X400 | 1   |
| 5667 14     | SDS FORM MOULD DRILL BIT 14X400 | 1   |
| 5667 16     | SDS FORM MOULD DRILL BIT 16X400 | 1   |
| 5667 18     | SDS FORM MOULD DRILL BIT 18X400 | 1   |
| 5667 20     | SDS FORM MOULD DRILL BIT 20X400 | 1   |
| 5667 22     | SDS FORM MOULD DRILL BIT 22X400 | 1   |

(Ø mm x total length mm)

| Technical Data |                 |
|----------------|-----------------|
| Ø mm           | Total length mm |
| 10             | 400             |
| 12             | 400             |
| 14             | 400             |
| 16             | 400             |
| 18             | 400             |
| 20             | 400             |
| 22             | 400             |

# Forstner bit similar to DIN 7483

- With centering tip, 2 major cutting edges and peripheral cutting edge
- Optimised drilling, clean and tear-out free drill holes in solid wood and veneered wood
- Cylinder shank:
  - Up to Ø 30 mm = 8 x 30 mm
  - Up to Ø 32 mm = 10 x 30 mm
- Total length: 90 mm



| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5670 10     | FORSTNER BIT 10     | 1   |
| 5670 12     | FORSTNER BIT 12     | 1   |
| 5670 14     | FORSTNER BIT 14     | 1   |
| 5670 15     | FORSTNER BIT 15     | 1   |
| 5670 16     | FORSTNER BIT 16     | 1   |
| 5670 18     | FORSTNER BIT 18     | 1   |
| 5670 20     | FORSTNER BIT 20     | 1   |
| 5670 22     | FORSTNER BIT 22     | 1   |
| 5670 25     | FORSTNER BIT 25     | 1   |
| 5670 30     | FORSTNER BIT 30     | 1   |
| 5670 35     | FORSTNER BIT 35     | 1   |
| 5670 40     | FORSTNER BIT 40     | 1   |

| Technical Data |                          |                          |
|----------------|--------------------------|--------------------------|
| Ø mm           | Soft wood rec. speed rpm | Hard wood rec. speed rpm |
| 10             | 1,400 – 1,200            | 1,200 – 1,000            |
| 12             | 1,400 – 1,200            | 1,200 – 1,000            |
| 14             | 1,400 – 1,200            | 1,200 – 1,000            |
| 15             | 1,400 – 1,200            | 1,200 – 1,000            |
| 16             | 1,400 – 1,200            | 1,200 – 1,000            |
| 18             | 1,400 – 1,200            | 1,200 – 1,000            |
| 20             | 1,400 – 1,200            | 1,200 – 1,000            |
| 22             | 1,400 – 1,200            | 1,200 – 1,000            |
| 25             | 1,200 – 1,000            | 1,000 – 800              |
| 30             | 1,200 – 1,000            | 1,000 – 800              |
| 35             | 1,000 – 800              | 800 – 600                |
| 40             | 1,000 – 800              | 800 – 600                |

(Ø mm)

# Forstner bit set

- 5-piece

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5679 5670   | 5-PIECE FORSTNER BIT SET PROFI | 1   |

**Contents Art.-No. 5679 5670:**

- Each of 1x  
Ø 15 / 20 / 25 / 30 / 35 mm



# Multi-spur drill bit

- Carbide-tipped
- With centering tip, 2 pre-cutters and 2 major cutting edges
- Ideal for drilling in veneered and plastic-coated sheet materials
- Cylindrical chucking shank 10 mm
- Total length: 90 mm



| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5679 15     | MULTI-SPUR DRILL BIT 15 | 1   |
| 5679 20     | MULTI-SPUR DRILL BIT 20 | 1   |
| 5679 25     | MULTI-SPUR DRILL BIT 25 | 1   |
| 5679 30     | MULTI-SPUR DRILL BIT 30 | 1   |
| 5679 35     | MULTI-SPUR DRILL BIT 35 | 1   |

# Multi-spur drill bit in wooden cassette

- 5-piece

| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5679 1535   | MULTI-SPUR DRILL BIT SET | 1   |

**Art.-No. 5679 1535:**

- 1x Ø 15 / 20 / 25 / 30 / 35 mm



# Wood drilling bits

- To drill holes precisely and quickly in solid wood
- This drill is particularly suitable for electricians, fitters and carpenters, for example for drilling out recesses for pipes.
- Replaceable thread tips
- Rotational speed: 500 – 1400 rpm Feed: max. 1 m/min.
- From Ø 65 mm only use with a torque support (handle) on the drill
- Total length 152.0 mm
- Working length 65.0 mm
- Ø Shaft 12.7 mm



| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5674 25     | WOOD DRILLING BITS 25MM  | 1   |
| 5674 32     | WOOD DRILLING BITS 32MM  | 1   |
| 5674 35     | WOOD DRILLING BITS 35MM  | 1   |
| 5674 38     | WOOD DRILLING BITS 38MM  | 1   |
| 5674 41     | WOOD DRILLING BITS 41MM  | 1   |
| 5674 44     | WOOD DRILLING BITS 44MM  | 1   |
| 5674 51     | WOOD DRILLING BITS 51MM  | 1   |
| 5674 54     | WOOD DRILLING BITS 54MM  | 1   |
| 5674 57     | WOOD DRILLING BITS 57MM  | 1   |
| 5674 65     | WOOD DRILLING BITS 65MM  | 1   |
| 5674 68     | WOOD DRILLING BITS 68MM  | 1   |
| 5674 74     | WOOD DRILLING BITS 74MM  | 1   |
| 5674 76     | WOOD DRILLING BITS 76MM  | 1   |
| 5674 92     | WOOD DRILLING BITS 92MM  | 1   |
| 5674 118    | WOOD DRILLING BITS 118MM | 1   |

(Ø mm)



## Extension for wood drilling bits

- Extension can be attached to all wood drilling bits
- The shaft of the wood drilling bits at 12.7 mm is the same as the internal diameter of the extension

| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5675 150    | EXTENSION 150MM     | 1   |
| 5675 300    | EXTENSION 300MM     | 1   |
| 5675 450    | EXTENSION 450MM     | 1   |
| 5675 600    | EXTENSION 600MM     | 1   |



## Centring cylinder for wood drilling bits

- Separate centring tips and centring cylinders only suitable for wood drilling bits up to and incl. Ø 74 mm

| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5675 10     | CENTRING CYLINDER 10MM | 1   |
| 5675 12     | CENTRING CYLINDER 12MM | 1   |
| 5675 14     | CENTRING CYLINDER 14MM | 1   |
| 5675 16     | CENTRING CYLINDER 16MM | 1   |
| 5675 20     | CENTRING CYLINDER 20MM | 1   |



## Centring tip for wood drilling bits

- Centring tip for wood drilling bit

| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5675 1      | CENTRING TIP COARSE 1/4" | 1   |
| 5675 2      | CENTRING TIP FINE 1/4"   | 1   |
| 5675 3      | CENTRING TIP COARSE 3/8" | 1   |
| 5675 4      | CENTRING TIP FINE 3/8"   | 1   |

| Technical Data |
|----------------|
| Ø mm           |
| 25-74          |
| 25-74          |
| 76-118         |
| 76-118         |





## Wood-Milling Cutter for Hand Router

### Groove cutter

- With HW (HM) cutting lips, double-edged
- Hand feed
- Good concentricity characteristics
- Long service life
- Easy to sharpen
- For softwood, hardwood and sheet material
- Shaft: 8 mm
- Working length: 20 mm
- Ø 6 – 20 mm

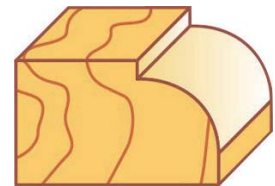
| Article No. | Article Description       | QTY |
|-------------|---------------------------|-----|
| 5663 1 8 6  | GROOVE CUTTER - HW 8 6 MM | 1   |
| 5663 1 8 8  | GROOVE CUTTER - HW 8 8 MM | 1   |
| 5663 1 8 10 | GROOVE CUTTER - HW 8 10MM | 1   |
| 5663 1 8 12 | GROOVE CUTTER - HW 8 12MM | 1   |
| 5663 1 8 14 | GROOVE CUTTER - HW 8 14MM | 1   |
| 5663 1 8 16 | GROOVE CUTTER - HW 8 16MM | 1   |
| 5663 1 8 20 | GROOVE CUTTER - HW 8 20MM | 1   |



### Edge cutter with ball bearing

- With HW (HM) cutting lips, double-edged
- Hand feed
- Good concentricity characteristics
- Long service life
- Easy to sharpen
- Double-edged with exchangeable ball bearing 12.7 mm
- Rounding and profiling
- Shaft: 8 mm
- Radius: 3 – 9.5 mm

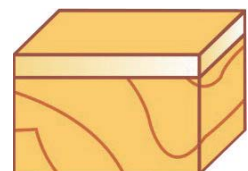
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5663 2 8 3  | EDGE-CUT.BALL BEARING HW8 3MM  | 1   |
| 5663 2 8 5  | EDGE-CUT.BALL BEARING HW8 5MM  | 1   |
| 5663 2 8 6  | EDGE-CUT.BALL BEARING HW8 6MM  | 1   |
| 5663 2 8 8  | EDGE-CUT.BALL BEARING HW8 8MM  | 1   |
| 5663 2 8 9  | EDGE-CUT.BALL BEARI. HW8 9.5MM | 1   |



### Flush Milling Cutter with Ball Bearing

- With HW (HM) cutting lips, double-edged
- Hand feed
- Good concentricity characteristics
- Long service life
- Easy to sharpen
- Double-edged with exchangeable ball bearing 12.7 mm
- Shaft: 8 mm
- Working length: 25 mm
- Ø 12.7 mm / 19 mm / 25 mm

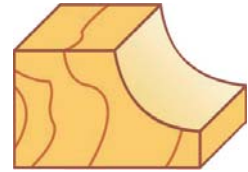
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5663 3 8 12 | FL.MILL.CUT.BALL B.HW 8 12.7MM | 1   |
| 5663 3 8 19 | FL.MILL.CUT.BALL B.HW 8 19MM   | 1   |
| 5663 3 8 25 | FLUSH MILL.CUT.W.BALL BEA.25MM | 1   |



## Fluting cutter with ball bearing

- With high-grade ball bearing (Ø 9.5 mm)
- Precise guidance of the cutter along the edge of the workpiece
- Precise milling of a 1/4 rounded form
- Hand feed
- Good concentricity characteristics
- Easy to sharpen

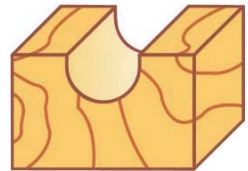
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5663 4 8 22 | FLUTING CUTT.W.BALL BEAR.R6.3  | 1   |
| 5663 4 8 35 | FLUTING CUTT.W.BALL BEAR.R12.7 | 1   |



## Fluting cutter

- Precise guidance of the cutter along the edge of the workpiece
- Precise milling
- Hand feed
- Good concentricity characteristics
- Easy to sharpen
- Shaft: 8 mm
- Radius: 6.3 mm
- Radius: 8 mm

| Article No. | Article Description  | QTY |
|-------------|----------------------|-----|
| 5663 8 8 12 | FLUTING CUTTER R 6.3 | 1   |
| 5663 8 8 16 | FLUTING CUTTER R 8   | 1   |



## Chamfer milling cutter with ball bearing

- With HW (HM) cutting lips, double-edged
- Hand feed
- Good concentricity characteristics
- Long service life
- Easy to sharpen
- Double-edged with exchangeable ball bearing
- For softwood, hardwood and sheet material
- Chamfer: 45° / 30°
- Shaft: 8 mm
- Ø 32 / 35 mm

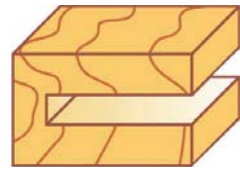
| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5663 4 8 30 | CHAMF.MILL.CUTT.W.BA.BEAR.30° | 1   |
| 5663 4 8 45 | CHAMF.MILL.CUTT.W.BA.BEAR.45° | 1   |



## Slotting cutter

- Ø 40 mm
- Ø intake: 8 mm
- Double-edged

| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5663 5 8 3  | SLOTING CUTTER HW 6 3MM | 1   |
| 5663 5 8 4  | SLOTING CUTTER HW 6 4MM | 1   |
| 5663 5 8 5  | SLOTING CUTTER 40X5MM   | 1   |



## Spindle with ball bearing for groove cutter

- Shank 8 mm
- Ø intake: 8 mm

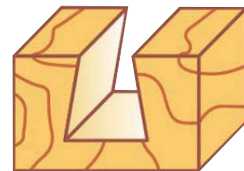
| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5663 5 8    | SPINDLE W.BALL B.F.GROOVE CUT. | 1   |



## Finger joint cutter 14°

- With HW (HM) cutting lips, double-edged
- Hand feed
- For milling finger joints
- Easy to sharpen
- For softwood and hardwood
- Shaft: 8 mm
- Milling angle: 14°

| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5663 5 8 14 | FINGER JOINT CUTTER 14° | 1   |



## V-groove cutter 90°

- For milling V-grooves, decorative grooves
- Can be used as a 90° writing cutter
- For chamfering hardwoods and board materials
- Hand feed
- Easy to sharpen
- Double-edged
- Shaft: 8 mm
- Ø 12.7 mm

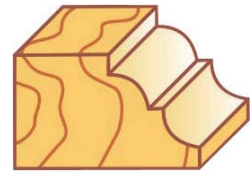
| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5663 6 8 12 | V-GROOVE CUTTER     | 1   |



## Profile cutter R 3.2 / R 4 mm

- Profile with step and two radii
- The step breaks the curve of the two opposed radii, thereby accentuating the centre of the profile
- Hand feed
- Easy to sharpen
- For softwood, hardwood and sheet material
- Shaft: 8 mm
- Radius: 3.2 mm
- Radius: 4.8 mm

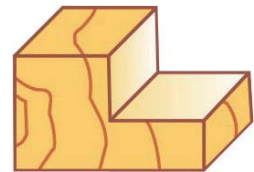
| Article No. | Article Description  | QTY |
|-------------|----------------------|-----|
| 5663 7 8 32 | PROFILE CUTTER R 3.2 | 1   |
| 5663 7 8 4  | PROFILE CUTTER R 4   | 1   |



## Rebating cutter with ball bearing

- Double-edged with exchangeable ball bearing
- For softwood, hardwood and sheet material
- Hand feed
- Easy to sharpen
- Shaft: 8 mm
- Ø 22.2 mm
- Working height: 12.7 mm

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5663 9 8 22 | REBATING CUTTER W.BALL BEARING | 1   |



## Cutter set in wooden box, 6 pcs.

- Wood cutter set with HW-tipped cutters
- For grooving, rebating and profiling
- For softwood, hardwood and sheet material

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5663 10 8 6 | CUTTER SET 6-PCE IN WOOD.BOX | 1   |

**Scope of delivery each 1x:**

- Art.-No. 5663 1 8 6: Groove cutter
- Art.-No. 5663 1 8 8: Groove cutter
- Art.-No. 5663 1 8 10: Groove cutter
- Art.-No. 5663 2 8 3: Rounding cutter
- Art.-No. 5663 2 8 6: Rounding cutter
- Art.-No. 5663 2 8 9: Rounding cutter



## Cutter set in wooden box, 15 pcs.

- Wood cutter set with HW-tipped cutters
- For grooving, rebating and profiling
- For softwood, hardwood and sheet material

| Article No.  | Article Description | QTY |
|--------------|---------------------|-----|
| 5663 10 8 15 | CUTTER SET 15-PCE   | 1   |

**Scope of delivery each 1x:**

- Art.-No. 5663 1 8 6: Groove cutter
- Art.-No. 5663 1 8 8: Groove cutter
- Art.-No. 5663 1 8 10: Groove cutter
- Art.-No. 5663 5 8 14: Finger joint cutter
- Art.-No. 5663 8 8 12: Fluting cutter
- Art.-No. 5663 6 8 12: V-groove cutter
- Art.-Nr. 5663 3 8 12: Flush milling cutter
- Art.-No. 5663 9 8 22: Rebating cutter
- Art.-No. 5663 2 8 3: Rounding cutter
- Art.-No. 5663 2 8 6: Rounding cutter
- Art.-No. 5663 2 8 9: Rounding cutter
- Art.-No. 5663 4 8 22: Fluting cutter
- Art.-No. 5663 7 8 32: Profile cutter
- Art.-No. 5663 7 8 4: Profile cutter
- Art.-No. 5663 4 8 45: Flush milling cutter





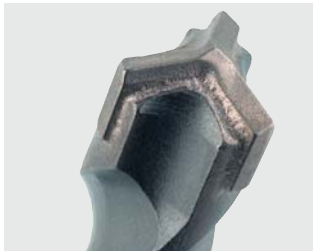
# Hammer drill with SDS-plus TRIAL FORCH\*\*\*\*\*



- Innovative 3-edged drill head with chambered drill flute
- Self-centring drill bit
- Self-sharpening and specially soldered carbide plate
- Temperature resistant up to +1,100°C
- Fits into all hammer drills with SDS-plus chuck (licence Bosch, Hilti TE system)
- Permanently aggressive drilling behaviour
- Long service life and high drilling speed when drilling in concrete reinforcement, cuts costs
- Low-vibration, so easier on the joints

## Your Advantage / Benefit

- Can be used in the hardest materials such as granite and marble
- Does not catch when hitting reinforcing steel, so longer lifespan
- Circular holes thanks to centre point and the three cutting lips
- Does not drift when starting drilling
- More drill holes suitable for anchors, thereby saving time

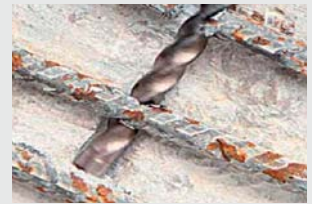


Trial HM-plate



Chambered Coil System

## Application



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5613 5 110  | SDS+HA-DR TRIAL 5X110/50 5*    | 1 ü |
| 5613 5 160  | SDS+HA-DR TRIAL 5X160/100 5*   | 1 ü |
| 5613 6 110  | SDS+HA-DR TRIAL 6X110/ 50 5*   | 1   |
| 5613 6 160  | SDS+HA-DR TRIAL 6X160/100 5*   | 1   |
| 5613 6 210  | SDS+HA-DR TRIAL 6X210/150 5*   | 1   |
| 5613 6 260  | SDS+HA-DR TRIAL 6X260/200 5*   | 1   |
| 5613 6 310  | SDS+HA-DR TRIAL 6X310/250 5*   | 1   |
| 5613 65 160 | SDS+HA-DR TRIAL 6.5X160/100 5* | 1   |
| 5613 65 210 | SDS+HA-DR TRIAL 6.5X210/150 5* | 1   |
| 5613 65 260 | SDS+HA-DR TRIAL 6.5X260/200 5* | 1   |
| 5613 65 310 | SDS+HA-DR TRIAL 6.5X310/250 5* | 1   |
| 5613 65 460 | SDS+HA-DR TRIAL 6.5X460/400 5* | 1   |
| 5613 7 160  | SDS+HA-DR TRIAL 7X160/100 5*   | 1   |
| 5613 7 210  | SDS+HA-DR TRIAL 7X210/150 5*   | 1   |
| 5613 7 260  | SDS+HA-DR TRIAL 7X260/200 5*   | 1   |
| 5613 8 110  | SDS+HA-DR TRIAL 8X110/ 50 5*   | 1   |
| 5613 8 160  | SDS+HA-DR TRIAL 8X160/100 5*   | 1   |
| 5613 8 210  | SDS+HA-DR TRIAL 8X210/150 5*   | 1   |
| 5613 8 260  | SDS+HA-DR TRIAL 8X260/200 5*   | 1   |
| 5613 8 310  | SDS+HA-DR TRIAL 8X310/250 5*   | 1   |
| 5613 8 460  | SDS+HA-DR TRIAL 8X460/400 5*   | 1   |
| 5613 8 610  | SDS+HA-DR TRIAL 8X610/550 5*   | 1   |
| 5613 10 160 | SDS+HA-DR TRIAL 10X160/100 5*  | 1   |
| 5613 10 210 | SDS+HA-DR TRIAL 10X210/150 5*  | 1   |
| 5613 10 260 | SDS+HA-DR TRIAL 10X260/200 5*  | 1   |
| 5613 10 310 | SDS+HA-DR TRIAL 10X310/250 5*  | 1   |
| 5613 10 460 | SDS+HA-DR TRIAL 10X460/400 5*  | 1   |
| 5613 10 610 | SDS+HA-DR TRIAL 10X610/550 5*  | 1   |

(Ø x total length / working length mm)

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5613 12 160 | SDS+HA-DR TRIAL 12X160/100 5* | 1   |
| 5613 12 210 | SDS+HA-DR TRIAL 12X210/150 5* | 1   |
| 5613 12 260 | SDS+HA-DR TRIAL 12X260/200 5* | 1   |
| 5613 12 310 | SDS+HA-DR TRIAL 12X310/250 5* | 1   |
| 5613 12 460 | SDS+HA-DR TRIAL 12X460/400 5* | 1   |
| 5613 12 610 | SDS+HA-DR TRIAL 12X610/550 5* | 1   |
| 5613 14 160 | SDS+HA-DR TRIAL 14X160/100 5* | 1   |
| 5613 14 210 | SDS+HA-DR TRIAL 14X210/150 5* | 1   |
| 5613 14 260 | SDS+HA-DR TRIAL 14X260/200 5* | 1   |
| 5613 14 310 | SDS+HA-DR TRIAL 14X310/250 5* | 1   |
| 5613 14 460 | SDS+HA-DR TRIAL 14X460/400 5* | 1   |
| 5613 14 610 | SDS+HA-DR TRIAL 14X610/550 5* | 1   |
| 5613 15 160 | SDS+HA-DR TRIAL 15X160/100 5* | 1   |
| 5613 15 210 | SDS+HA-DR TRIAL 15X210/150 5* | 1   |
| 5613 15 460 | SDS+HA-DR TRIAL 15X460/400 5* | 1   |
| 5613 16 210 | SDS+HA-DR TRIAL 16X210/150 5* | 1   |
| 5613 16 310 | SDS+HA-DR TRIAL 16X310/250 5* | 1   |
| 5613 16 460 | SDS+HA-DR TRIAL 16X460/400 5* | 1   |
| 5613 16 610 | SDS+HA-DR TRIAL 16X610/550 5* | 1   |
| 5613 18 210 | SDS+HA-DR TRIAL 18X210/150 5* | 1   |
| 5613 18 310 | SDS+HA-DR TRIAL 18X310/250 5* | 1   |
| 5613 18 460 | SDS+HA-DR TRIAL 18X460/400 5* | 1   |
| 5613 18 610 | SDS+HA-DR TRIAL 18X610/550 5* | 1   |
| 5613 20 210 | SDS+HA-DR TRIAL 20X210/150 5* | 1   |
| 5613 20 310 | SDS+HA-DR TRIAL 20X310/250 5* | 1   |
| 5613 20 460 | SDS+HA-DR TRIAL 20X460/400 5* | 1   |
| 5613 20 610 | SDS+HA-DR TRIAL 20X610/550 5* | 1   |

(Ø x total length / working length mm)

## Related Products

- Hammer drill SDS-plus TRIAL FORCH\*\*\*\*\* **VAROIBOXX** Art.-No. 9007 5613 1



- Hammer drill TRIAL 7-parts Art.-No. 5609 5613 7



- "Alpha" clear safety glasses Art.-No. 5400 901 1



# Hammer drills in pack TRIAL FÖRCH\*\*\*\*\*

| Article No.     | Article Description              | QTY |
|-----------------|----------------------------------|-----|
| 5613P 6 110     | P(10)SDS+HADR-TR. 6X110/50 5*    | 1   |
| 5613P 6 110 25  | P(25)SDS+HADR-TR. 6X110/50 5*    | 1   |
| 5613P 6 160     | P(10)SDS+HADR-TR. 6X160/100 5*   | 1   |
| 5613P 6 160 25  | P(25)SDS+HADR-TR. 6X160/110 5*   | 1   |
| 5613P 6 210     | P(10)SDS+HADR-TR. 6X210/150 5*   | 1   |
| 5613P 6 210 25  | P(25)SDS+HADR-TR. 6X210/150 5*   | 1   |
| 5613P 6 260     | P(10)SDS+HADR-TR. 6X260/200 5*   | 1   |
| 5613P 6 260 25  | P(25)SDS+HADR-TR. 6X260/200 5*   | 1   |
| 5613P 65 160    | P(10)SDS+HADR-TR. 6.5X160/100 5* | 1   |
| 5613P 65 210    | P(10)SDS+HADR-TR. 6.5X210/150 5* | 1   |
| 5613P 65 260    | P(10)SDS+HADR-TR. 6.5X260/200 5* | 1   |
| 5613P 65 260 25 | P(25)SDS+HADR-TR. 6.5X260/200 5* | 1   |
| 5613P 7 160     | P(10)SDS+HADR-TR. 7X160/100 5*   | 1   |
| 5613P 7 210     | P(10)SDS+HADR-TR. 7X210/150 5*   | 1   |
| 5613P 7 260     | P(10)SDS+HADR-TR. 7X260/200 5*   | 1   |
| 5613P 8 110     | P(10)SDS+HADR-TR. 8X110/50 5*    | 1   |
| 5613P 8 110 25  | P(25)SDS+HADR-TR. 8X110/ 50 5*   | 1   |
| 5613P 8 160     | P(10)SDS+HADR-TR. 8X160/100 5*   | 1   |
| 5613P 8 160 25  | P(25)SDS+HADR-TR. 8X160/100 5*   | 1   |
| 5613P 8 210     | P(10)SDS+HADR-TR. 8X210/150 5*   | 1   |
| 5613P 8 210 25  | P(25)SDS+HADR-TR. 8X210/150 5*   | 1   |
| 5613P 8 260     | P(10)SDS+HADR-TR. 8X260/200 5*   | 1   |
| 5613P 8 260 25  | P(25)SDS+HADR-TR. 8X260/200 5*   | 1   |
| 5613P 10 160    | P(10)SDS+HADR-TR. 10X160/100 5*  | 1   |
| 5613P 10 160 25 | P(25)SDS+HADR-TR. 10X160/110 5*  | 1   |
| 5613P 10 210    | P(10)SDS+HADR-TR. 10X210/150 5*  | 1   |
| 5613P 10 210 25 | P(25)SDS+HADR-TR. 10X210/150 5*  | 1   |
| 5613P 10 260    | P(10)SDS+HADR-TR. 10X260/200 5*  | 1   |
| 5613P 10 260 25 | P(25)SDS+HADR-TR. 10X260/200 5*  | 1   |
| 5613P 12 160    | P(10)SDS+HADR-TR. 12X160/100 5*  | 1   |
| 5613P 12 160 25 | P(25)SDS+HADR-TR. 12X160/110 5*  | 1   |
| 5613P 12 210    | P(10)SDS+HADR-TR. 12X210/150 5*  | 1   |
| 5613P 12 210 25 | P(25)SDS+HADR-TR. 12X210/150 5*  | 1   |
| 5613P 12 260    | P(10)SDS+HADR-TR. 12X260/200 5*  | 1   |
| 5613P 12 260 25 | P(25)SDS+HADR-TR. 12X260/200 5*  | 1   |
| 5613P 14 160    | P(10)SDS+HADR-TR. 14X160/100 5*  | 1   |
| 5613P 14 210    | P(10)SDS+HADR-TR. 14X210/150 5*  | 1   |
| 5613P 14 260    | P(10)SDS+HADR-TR. 14X260/200 5*  | 1   |
| 5613P 15 210    | P(10)SDS+HADR-TR. 15X210/150 5*  | 1   |
| 5613P 16 210    | P(10)SDS+HADR-TR. 16X210/150 5*  | 1   |
| 5613P 18 210    | P(10)SDS+HADR-TR. 18X210/150 5*  | 1   |
| 5613P 20 210    | P(10)SDS+HADR-TR. 20X210/150 5*  | 1   |



(Ø × total length / working length mm)

## Hammer drill TRIAL window construction FÖRCH\*\*\*\*\*



- SDS-plus
- Reinforced shaft without helix, with conical transition to insertion, prevents breakage of the drill



| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5613 6 210 1  | SDS+HA.DR.TRIAL 6X210/90 5*    | 1   |
| 5613 6 260 1  | SDS+HA.DR.TRIAL 6X260/120 5*   | 1   |
| 5613 65 210 1 | SDS+HA.DR.TRIAL 6.5X210/90 5*  | 1   |
| 5613 65 260 1 | SDS+HA.DR.TRIAL 6.5X260/120 5* | 1   |

| Technical Data      |     |
|---------------------|-----|
| Max. drilling depth | 90  |
|                     | 120 |
|                     | 90  |
|                     | 120 |

(Ø × total length / working length mm)

# Hammer drill in assortment TRIAL FÖRCH\*\*\*\*\*

- 10-piece in practical drill bag

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5609 5613   | 10-PCS HAMMER DRILL ASS.TRIAL | 1   |

**Contents:**

- Each 2x Hammer drills TRIAL with SDS-plus mounting shaft  
6x 110/50, 6x 160/100, 8x 160/100 mm
- Each 1x Hammer drill TRIAL with SDS-plus mounting shaft  
8x 110/50, 10x 160/100, 12x 160/100, 14x 160/100 mm



# Hammer drill TRIAL 7-piece FÖRCH\*\*\*\*\*

- 7-piece in practical drill bag

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5609 5613 7 | 7PCS HAMMER DRILL ASS.TRIAL 5* | 1   |

**Contents:**

- Each 1x hammer drill TRIAL with SDS-plus mounting  
6x 110/50, 8x 110/50, 10x 110/50, 6x 160/100, 8x 160/100, 10x 160/100, 12x 160/100 mm



# Hammer drill TRIAL 5-piece FÖRCH\*\*\*\*\*

- 5- piece in practical drill bag

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5609 5613 5 | 5PCS HAMMER DRILL ASS.TRIAL 5* | 1   |

**Contents:**

- Each 1x hammer drill TRIAL with SDS-plus mounting  
6x 110/50, 8x 110/50, 6x 160/100, 8x 160/100, 10x 160/100 mm





# Coil hammer drill bit with SDS-plus TRIAL FORCH\*\*\*\*\*

- Innovative 3-edged drill head with depth stop
- Self-centring tip
- Self-sharpening and specially soldered carbide plate
- Temperature resistant up to +1,100 °C
- Fits into all hammer drills with SDS-plus chuck (licence Bosch, Hilti TE system)
- Permanently aggressive drilling behaviour
- Long service life and high drilling speed when drilling in concrete reinforcement, cuts costs
- Low-vibration, so easier on the joints

## Your Advantage / Benefit

- The depth stop ensures precise and repeatable control of drill hole depth
- Does not catch when hitting reinforcing steel, so longer lifespan
- Circular holes thanks to centre point and the three cutting lips
- Does not drift when starting drilling
- More drill holes suitable for anchors, thereby saving time

## Application

- Rapid and production-ready assembly of fastening systems with high demands for hole depth and repeat accuracy (inserting drop-in anchor)
- Installation of stadium seating, cable ducts, ventilation shafts etc.



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 8214 8 27   | SDS COIL HAMMER DRILL 8X27 5*  | 1   |
| 8214 10 32  | SDS COIL HAMMER DRILL 10X32 5* | 1   |
| 8214 12 42  | SDS COIL HAMMER DRILL 12X42 5* | 1   |
| 8214 15 52  | SDS COIL HAMMER DRILL 15X52 5* | 1   |

(Ø × Total length mm)

| Technical Data |             |                   |
|----------------|-------------|-------------------|
| Ø Drill bit mm | Ø Anchor mm | Borehole depth mm |
| 8              | 6           | 27                |
| 10             | 8           | 32                |
| 12             | 10          | 42                |
| 15             | 12          | 52                |

## Related Products

■ Drop-in anchor  
AGR 8210



AGR 8211



AGR 8212



■ Cordless Combo Hammer CH254M2,  
18.0 V  
Art.-No. 5328 254



■ Cardan Shaft Constant  
Velocity Grease S487  
Art.-No. 6540 5250



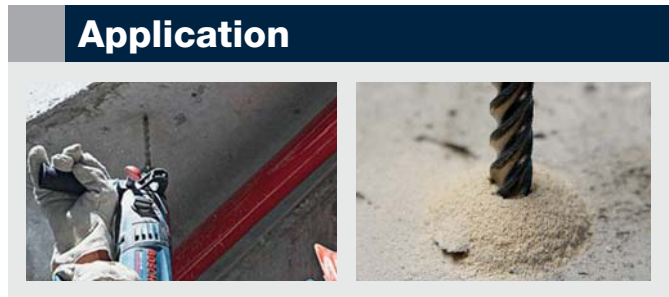
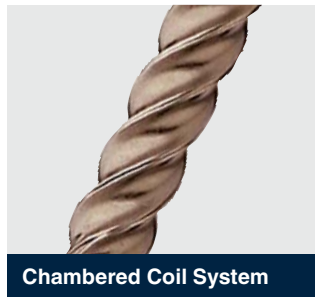
# Hammer drill SDF-plus DUAL 4W



- Cold-rolled 4-groove drill-coil profile
- 60 % better twisting/turning properties and improved pressure behaviour
- Increased clamping space
- Suitable for all hammer drills with 4-slot SDS-plus chuck
- For drilling in general construction site material (concrete, brick, limestone, etc.)
- Specially soldered carbide plate with centring tip
- Incl. XXL designs: Drill bits available in lengths of up to 1,000 mm

### Your Advantage / Benefit

- Reinforced head, prevents plate breakage
- Improved drilling dust removal, better drilling progress
- Reduced slot discharge, improved drilling dust removal
- Reinforced edges on the carbide plate
- Head geometry improves, prevents plate breakage if the reinforcement is hit
- Centring tip with improved machining performance



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5614 4 110  | SDS+HADR-DUAL 4W 4 X 110/50   | 1   |
| 5614 5 110  | SDS+HADR-DUAL 4W 5 X 110/50   | 1   |
| 5614 5 160  | SDS+HADR-DUAL 4W 5 X 160/100  | 1   |
| 5614 5 210  | SDS+HADR-DUAL 4W 5 X 210/150  | 1   |
| 5614 5 260  | SDS+HADR-DUAL 4W 5 X 260/200  | 1   |
| 5614 55 160 | SDS+HADR-DUAL 4W 5.5X 160/100 | 1   |
| 5614 6 110  | SDS+HADR-DUAL 4W 6 X 110/50   | 1   |
| 5614 6 160  | SDS+HADR-DUAL 4W 6 X 160/100  | 1   |
| 5614 6 210  | SDS+HADR-DUAL 4W 6 X 210/150  | 1   |
| 5614 6 260  | SDS+HADR-DUAL 4W 6 X 260/200  | 1   |
| 5614 6 310  | SDS+HADR-DUAL 4W 6 X 310/250  | 1   |
| 5614 6 460  | SDS+HADR-DUAL 4W 6 X 460/400  | 1   |
| 5614 65 160 | SDS+HADR-DUAL 4W 6.5X 160/100 | 1   |
| 5614 65 210 | SDS+HADR-DUAL 4W 6.5X 210/150 | 1   |
| 5614 65 260 | SDS+HADR-DUAL 4W 6.5X 260/200 | 1   |
| 5614 65 310 | SDS+HADR-DUAL 4W 6.5X 310/250 | 1   |
| 5614 65 460 | SDS+HADR-DUAL 4W 6.5X 460/400 | 1   |
| 5614 7 160  | SDS+HADR-DUAL 4W 7 X 160/100  | 1   |
| 5614 7 260  | SDS+HADR-DUAL 4W 7 X 260/200  | 1   |
| 5614 8 110  | SDS+HADR-DUAL 4W 8 X 110/50   | 1   |
| 5614 8 160  | SDS+HADR-DUAL 4W 8 X 160/100  | 1   |
| 5614 8 210  | SDS+HADR-DUAL 4W 8 X 210/150  | 1   |
| 5614 8 260  | SDS+HADR-DUAL 4W 8 X 260/200  | 1   |
| 5614 8 310  | SDS+HADR-DUAL 4W 8 X 310/250  | 1   |
| 5614 8 410  | SDS+HADR-DUAL 4W 8 X 410/350  | 1   |
| 5614 8 460  | SDS+HADR-DUAL 4W 8 X 460/400  | 1   |
| 5614 8 610  | SDS+HADR-DUAL 4W 8 X 610/550  | 1   |

(Ø × Total length / working length mm)

| Article No.  | Article Description            | QTY |
|--------------|--------------------------------|-----|
| 5614 9 210   | SDS+HADR-DUAL 4W 9 X 210/150   | 1   |
| 5614 10 110  | SDS+HADR-DUAL 4W 10 X 110/50   | 1   |
| 5614 10 160  | SDS+HADR-DUAL 4W 10 X 160/100  | 1   |
| 5614 10 210  | SDS+HADR-DUAL 4W 10 X 210/150  | 1   |
| 5614 10 260  | SDS+HADR-DUAL 4W 10 X 260/200  | 1   |
| 5614 10 310  | SDS+HADR-DUAL 4W 10 X 310/250  | 1   |
| 5614 10 410  | SDS+HADR-DUAL 4W 10 X 410/350  | 1   |
| 5614 10 460  | SDS+HADR-DUAL 4W 10 X 460/400  | 1   |
| 5614 10 610  | SDS+HADR-DUAL 4W 10 X 610/550  | 1   |
| 5614 10 1000 | SDS+HADR-DUAL 4W 10 X 1000/940 | 1   |
| 5614 11 210  | SDS+HADR-DUAL 4W 11 X 210/150  | 1   |
| 5614 11 260  | SDS+HADR-DUAL 4W 11 X 260/200  | 1   |
| 5614 12 160  | SDS+HADR-DUAL 4W 12 X 160/100  | 1   |
| 5614 12 210  | SDS+HADR-DUAL 4W 12 X 210/150  | 1   |
| 5614 12 260  | SDS+HADR-DUAL 4W 12 X 260/200  | 1   |
| 5614 12 310  | SDS+HADR-DUAL 4W 12 X 310/250  | 1   |
| 5614 12 460  | SDS+HADR-DUAL 4W 12 X 460/400  | 1   |
| 5614 12 610  | SDS+HADR-DUAL 4W 12 X 610/550  | 1   |
| 5614 12 1000 | SDS+HADR-DUAL 4W 12 X 1000/940 | 1   |
| 5614 13 260  | SDS+HADR-DUAL 4W 13 X 260/200  | 1   |
| 5614 14 160  | SDS+HADR-DUAL 4W 14 X 160/100  | 1   |
| 5614 14 210  | SDS+HADR-DUAL 4W 14 X 210/150  | 1   |
| 5614 14 260  | SDS+HADR-DUAL 4W 14 X 260/200  | 1   |
| 5614 14 310  | SDS+HADR-DUAL 4W 14 X 310/250  | 1   |
| 5614 14 460  | SDS+HADR-DUAL 4W 14 X 460/400  | 1   |
| 5614 14 610  | SDS+HADR-DUAL 4W 14 X 610/550  | 1   |
| 5614 14 1000 | SDS+HADR-DUAL 4W 14 X 1000/940 | 1   |

(Ø × Total length / working length mm)

## Related Products

■ Hammer dr. SDS-plus DUAL **VARIOBOXX** Art.-No. 9007 5616 1



■ Hammer drill DUAL 7-pce Art.-No. 5609 5616 7



■ Cardan Shaft Constant Velocity Grease S487 Art.-No. 6540 52 50





# Hammer drill SDF-plus DUAL 4W

| Article No.  | Article Description           | QTY |
|--------------|-------------------------------|-----|
| 5614 15 160  | SDS+HADR-DUAL 4W 15 X 160/100 | 1   |
| 5614 15 210  | SDS+HADR-DUAL 4W 15 X 210/150 | 1   |
| 5614 15 310  | SDS+HADR-DUAL 4W 15 X 310/250 | 1   |
| 5614 16 160  | SDS+HADR-DUAL 4W 16 X 160/100 | 1   |
| 5614 16 210  | SDS+HADR-DUAL 4W 16 X 210/150 | 1   |
| 5614 16 260  | SDS+HADR-DUAL 4W 16 X 260/200 | 1   |
| 5614 16 310  | SDS+HADR-DUAL 4W 16 X 310/250 | 1   |
| 5614 16 460  | SDS+HADR-DUAL 4W 16 X 460/400 | 1   |
| 5614 16 610  | SDS+HADR-DUAL 4W 16 X 610/550 | 1   |
| 5614 16 810  | SDS+HADR-DUAL 4W 16 X 810/750 | 1   |
| 5614 16 1000 | SDS+HADR-DUAL 4W 16 X1000/940 | 1   |
| 5614 18 210  | SDS+HADR-DUAL 4W 18 X 210/150 | 1   |
| 5614 18 260  | SDS+HADR-DUAL 4W 18 X 260/200 | 1   |
| 5614 18 310  | SDS+HADR-DUAL 4W 18 X 310/250 | 1   |
| 5614 18 460  | SDS+HADR-DUAL 4W 18 X 460/400 | 1   |
| 5614 18 610  | SDS+HADR-DUAL 4W 18 X 610/550 | 1   |
| 5614 18 1000 | SDS+HADR-DUAL 4W 18 X1000/940 | 1   |

(Ø × Total length / working length mm)

| Article No.  | Article Description           | QTY |
|--------------|-------------------------------|-----|
| 5614 20 210  | SDS+HADR-DUAL 4W 20 X 210/150 | 1   |
| 5614 20 260  | SDS+HADR-DUAL 4W 20 X 260/200 | 1   |
| 5614 20 310  | SDS+HADR-DUAL 4W 20 X 310/250 | 1   |
| 5614 20 460  | SDS+HADR-DUAL 4W 20 X 460/400 | 1   |
| 5614 20 610  | SDS+HADR-DUAL 4W 20 X 610/550 | 1   |
| 5614 20 1000 | SDS+HADR-DUAL 4W 20 X1000/940 | 1   |
| 5614 22 260  | SDS+HADR-DUAL 4W 22 X 260/200 | 1   |
| 5614 22 310  | SDS+HADR-DUAL 4W 22 X 310/250 | 1   |
| 5614 22 460  | SDS+HADR-DUAL 4W 22 X 460/400 | 1   |
| 5614 22 610  | SDS+HADR-DUAL 4W 22 X 610/550 | 1   |
| 5614 24 260  | SDS+HADR-DUAL 4W 24 X 260/200 | 1   |
| 5614 24 310  | SDS+HADR-DUAL 4W 24 X 310/250 | 1   |
| 5614 24 460  | SDS+HADR-DUAL 4W 24 X 460/400 | 1   |
| 5614 25 260  | SDS+HADR-DUAL 4W 25 X 260/200 | 1   |
| 5614 25 310  | SDS+HADR-DUAL 4W 25 X 310/250 | 1   |
| 5614 25 460  | SDS+HADR-DUAL 4W 25 X 460/400 | 1   |
| 5614 25 1000 | SDS+HADR-DUAL 4W 25 X1000/940 | 1   |

(Ø × Total length / working length mm)

# Hammer drill SDS-plus DUAL 4W **VAROIBOXX**

• 27 pieces

**Contents:**

| Article-No. | Article Description           | Quantity |
|-------------|-------------------------------|----------|
| 5402 3 10   | P(10PAIRS)EAR PLUGS SZ.S      | 1        |
| 5614 6 160  | SDS+HADR-DUAL 4W 6 X 160/100  | 3        |
| 5614 6 260  | SDS+HADR-DUAL 4W 6 X 260/200  | 3        |
| 5614 8 160  | SDS+HADR-DUAL 4W 8 X 160/100  | 3        |
| 5614 8 260  | SDS+HADR-DUAL 4W 8 X 260/200  | 3        |
| 5614 10 160 | SDS+HADR-DUAL 4W 10 X 160/100 | 3        |
| 5614 10 260 | SDS+HADR-DUAL 4W 10 X 260/200 | 3        |
| 5614 12 160 | SDS+HADR-DUAL 4W 12 X 160/100 | 3        |
| 5614 12 260 | SDS+HADR-DUAL 4W 12 X 260/200 | 3        |
| 9008 1      | VAROIBOXX EMPTY               | 1        |
| 9008 1 9    | VAROIBOXX THERMOF.INS.9COMP   | 1        |



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 9007 5614 1 | VAROIBOXX SDS-HA.DR.DUAL 4W 1 | 1   |

# Hammer drill in craftsmen pack DUAL 4W

| Article No.     | Article Description          | QTY |
|-----------------|------------------------------|-----|
| 5614P 4 110     | P(10)SDS+DUAL 4W 4X110/ 50   | 1   |
| 5614P 5 110     | P(10)SDS+DUAL 4W 5X110/ 50   | 1   |
| 5614P 5 160     | P(10)SDS+DUAL 4W 5X160/100   | 1   |
| 5614P 6 110     | P(10)SDS+DUAL 4W 6X110/ 50   | 1   |
| 5614P 6 110 25  | P(25)SDS+DUAL 4W 6X110/ 50   | 1   |
| 5614P 6 160     | P(10)SDS+DUAL 4W 6X160/100   | 1   |
| 5614P 6 160 25  | P(25)SDS+DUAL 4W 6X160/100   | 1   |
| 5614P 6 210     | P(10)SDS+DUAL 4W 6X210/150   | 1   |
| 5614P 6 210 25  | P(25)SDS+DUAL 4W 6X210/150   | 1   |
| 5614P 6 260     | P(10)SDS+DUAL 4W 6X260/200   | 1   |
| 5614P 6 260 25  | P(25)SDS+DUAL 4W 6X260/200   | 1   |
| 5614P 65 210    | P(10)SDS+DUAL 4W 6.5X210/150 | 1   |
| 5614P 65 260    | P(10)SDS+DUAL 4W 6.5X260/200 | 1   |
| 5614P 8 110     | P(10)SDS+DUAL 4W 8X110/ 50   | 1   |
| 5614P 8 110 25  | P(25)SDS+DUAL 4W 8X110/ 50   | 1   |
| 5614P 8 160     | P(10)SDS+DUAL 4W 8X160/100   | 1   |
| 5614P 8 160 25  | P(25)SDS+DUAL 4W 8X160/100   | 1   |
| 5614P 8 210     | P(10)SDS+DUAL 4W 8X210/150   | 1   |
| 5614P 8 210 25  | P(25)SDS+DUAL 4W 8X210/150   | 1   |
| 5614P 8 260     | P(10)SDS+DUAL 4W 8X260/200   | 1   |
| 5614P 8 260 25  | P(25)SDS+DUAL 4W 8X260/200   | 1   |
| 5614P 10 160    | P(10)SDS+DUAL 4W 10X160/100  | 1   |
| 5614P 10 160 25 | P(25)SDS+DUAL 4W 10X160/100  | 1   |
| 5614P 10 210    | P(10)SDS+DUAL 4W 10X210/150  | 1   |
| 5614P 10 210 25 | P(25)SDS+DUAL 4W 10X210/150  | 1   |
| 5614P 10 260    | P(10)SDS+DUAL 4W 10X260/200  | 1   |
| 5614P 10 260 25 | P(25)SDS+DUAL 4W 10X260/200  | 1   |
| 5614P 12 160    | P(10)SDS+DUAL 4W 12X160/100  | 1   |
| 5614P 12 160 25 | P(25)SDS+DUAL 4W 12X160/100  | 1   |
| 5614P 12 210    | P(10)SDS+DUAL 4W 12X210/150  | 1   |
| 5614P 12 210 25 | P(25)SDS+DUAL 4W 12X210/150  | 1   |
| 5614P 12 260    | P(10)SDS+DUAL 4W 12X260/200  | 1   |
| 5614P 12 260 25 | P(25)SDS+DUAL 4W 12X260/200  | 1   |
| 5614P 14 210    | P(10)SDS+DUAL 4W 14X210/150  | 1   |

( Ø × Total length / working length mm )



# Hammer drill in the DUAL 4W product line

- 10-piece in practical drill-bit pouch
- Cold-rolled 4-slot drill-coil profile
- 60 % better twisting/turning properties and improved pressure behaviour
- Increased clamping space
- Suitable for all hammer drills with 4-slot SDS-plus chuck
- For drilling in general construction site material (concrete, brick, limestone etc.)
- Specially soldered carbide plate with centring tip



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5609 5614   | SDS+HADR ASSORT.DUAL 4W 10-PCE | 1   |

**Contents:**

- Each 2x DUAL hammer drills each with SDS-plus chuck  
6x 110/50, 6x 160/100, 8x 160/100 mm
- Each 1x DUAL hammer drill each with SDS-plus chuck  
8x 110/50, 10x 160/100, 12x 160/100, 14x 160/100 mm



## DUAL 4W hammer drills, 7-piece set

- 7-piece in practical drill-bit cartridge

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5609 5614 7 | SDS+HADR ASSORT.DUAL 4W 7-PCE | 1   |

**Contents:**

- Each 1x DUAL 4W hammer drill each with SDS-plus chuck  
5x 110/50, 6x 110/50, 8x 110/50, 6x 160/100, 8x 160/100, 10x 160/100, 12x160/100 mm



## DUAL 4W hammer drills, 5-piece set

- 5-piece set in practical drill-bit cartridge

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5609 5614 5 | SDS+HADR ASSORT.DUAL 4W 5-PCE | 1   |

**Contents:**

- Each 1x DUAL 4W hammer drill each with SDS-plus chuck  
6x 110/50, 8x 110/50, 6x 160/100, 8x 160/100, 10x 160/100 mm



# Precision drill masonry with SDS plus shank



- Suitable for all hammer drills with 4 nut shank SDS plus (licence Bosch and Hilti HE system)
- Two sharp cuts for exact holes in the masonry with perforations
- Ideal for masonry and other porous materials
- **Warning! Drill use without impact**



| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5612 6 260  | PRECI.DRILL MAS.SDS PLUS 6X260 | 1   |
| 5612 8 260  | PRECI.DRILL MAS.SDS PLUS 8X260 | 1   |
| 5612 10 260 | PRECI.DRILL MAS.SDS PLUS10X260 | 1   |

## SDS-plus mounting Shaft

- Suitable for our drill chucks with 1/2"-20UNF-thread mounting

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5617 1      | ADAPTER SDS-PLUS 1/2"-20 UNF | 1   |



**Attention:** Turn percussion off!

## Hammer drill with SDS-plus mounting shaft **ECO**

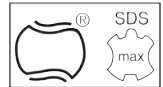


- For drilling in construction area
- Suitable for all hammer drills with 4-slot mounting shaft SDS-plus

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5610 5 110  | SDS+ HAMMERD.ECO 5 X110/ 50  | 10  |
| 5610 5 160  | SDS+ HAMMERD.ECO 5 X160/100  | 10  |
| 5610 6 110  | SDS+ HAMMERD.ECO 6 X110/ 50  | 10  |
| 5610 6 160  | SDS+ HAMMERD.ECO 6 X160/100  | 10  |
| 5610 6 210  | SDS+ HAMMERD.ECO 6 X210/150  | 10  |
| 5610 6 260  | SDS+ HAMMERD.ECO 6 X260/200  | 10  |
| 5610 65 260 | SDS+ HAMMERD.ECO 6.5X260/200 | 10  |
| 5610 8 160  | SDS+ HAMMERD.ECO 8 X160/100  | 10  |
| 5610 8 210  | SDS+ HAMMERD.ECO 8 X210/150  | 10  |
| 5610 8 260  | SDS+ HAMMERD.ECO 8 X260/200  | 10  |
| 5610 10 160 | SDS+ HAMMERD.ECO 10 X160/100 | 10  |
| 5610 10 210 | SDS+ HAMMERD.ECO 10 X210/150 | 10  |
| 5610 10 260 | SDS+ HAMMERD.ECO 10 X260/200 | 10  |
| 5610 12 160 | SDS+ HAMMERD.ECO 12 X160/100 | 10  |
| 5610 12 210 | SDS+ HAMMERD.ECO 12 X210/150 | 10  |
| 5610 12 260 | SDS+ HAMMERD.ECO 12 X260/200 | 10  |
| 5610 14 160 | SDS+ HAMMERB.ECO 14 X160/100 | 1   |
| 5610 14 210 | SDS+ HAMMERD.ECO 14 X210/150 | 1   |

(Ø x total length / working length mm)

# Hammer Drill with SDS Max Shank Ultimax **FÖRCH**\*\*\*\*\*



- Compatible with all hammer drills with SDS max shank or Hilti TE-Y
- Significant reduction in drill hole outline due to blades integrated in the drill tip
- Six blades allow extremely high drilling speeds
- Six lateral stabilisers for concentrated impact force
- Large-volume double spiral for faster removal of drilling dust
- Compact head
- Vibrations absorbed during drilling thanks to the characteristics of the spiral combined with the properties of the solid carbide head
- Minimal heat development

## Your Advantage / Benefit

- Solid carbide head with two main blades, two auxiliary blades, two central blades
- Drill head with aggressive centring tip and two blades
- Head embedded between two half-moon steel profiles
- Four side cutting edges for the perfect bore diameter
- Up to 1,000 holes possible (approx. 150 m)
- Does not catch when hitting reinforced steel
- Does not drift when starting drilling



Carbide head



Double spiral

## Application

- Drilling in reinforced concrete, concrete (fresh, fully hardened or renovation), stone masonry, solid brick, limestone
- Creating passage for electric cables
- Laying fence posts
- Ideal for fitters and electricians

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5638 22 340 | SDS-MAX ULTIMAX 22X340/200 5* | 1   |
| 5638 22 540 | SDS-MAX ULTIMAX 22X540/400 5* | 1   |
| 5638 22 690 | SDS-MAX ULTIMAX 22X690/550 5* | 1   |
| 5638 22 920 | SDS-MAX ULTIMAX 22X920/780 5* | 1   |
| 5638 24 340 | SDS-MAX ULTIMAX 24X340/200 5* | 1   |
| 5638 24 540 | SDS-MAX ULTIMAX 24X540/400 5* | 1   |
| 5638 24 690 | SDS-MAX ULTIMAX 24X690/550 5* | 1   |
| 5638 24 920 | SDS-MAX ULTIMAX 24X920/780 5* | 1   |
| 5638 25 340 | SDS-MAX ULTIMAX 25X340/200 5* | 1   |
| 5638 25 540 | SDS-MAX ULTIMAX 25X540/400 5* | 1   |
| 5638 25 690 | SDS-MAX ULTIMAX 25X690/550 5* | 1   |
| 5638 25 920 | SDS-MAX ULTIMAX 25X920/780 5* | 1   |
| 5638 28 340 | SDS-MAX ULTIMAX 28X340/200 5* | 1   |
| 5638 28 540 | SDS-MAX ULTIMAX 28X540/400 5* | 1   |
| 5638 28 690 | SDS-MAX ULTIMAX 28X690/550 5* | 1   |
| 5638 28 920 | SDS-MAX ULTIMAX 28X920/780 5* | 1   |
| 5638 30 340 | SDS-MAX ULTIMAX 30X340/200 5* | 1   |
| 5638 30 540 | SDS-MAX ULTIMAX 30X540/400 5* | 1   |
| 5638 30 690 | SDS-MAX ULTIMAX 30X690/550 5* | 1   |

(Ø × total length/working length mm)

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5638 30 920 | SDS-MAX ULTIMAX 30X920/780 5* | 1   |
| 5638 32 340 | SDS-MAX ULTIMAX 32X340/200 5* | 1   |
| 5638 32 540 | SDS-MAX ULTIMAX 32X540/400 5* | 1   |
| 5638 32 690 | SDS-MAX ULTIMAX 32X690/550 5* | 1   |
| 5638 32 920 | SDS-MAX ULTIMAX 32X920/780 5* | 1   |
| 5638 35 340 | SDS-MAX ULTIMAX 35X340/200 5* | 1   |
| 5638 35 540 | SDS-MAX ULTIMAX 35X540/400 5* | 1   |
| 5638 35 690 | SDS-MAX ULTIMAX 35X690/550 5* | 1   |
| 5638 35 920 | SDS-MAX ULTIMAX 35X920/780 5* | 1   |
| 5638 38 540 | SDS-MAX ULTIMAX 38X540/400 5* | 1   |
| 5638 38 690 | SDS-MAX ULTIMAX 38X690/550 5* | 1   |
| 5638 40 340 | SDS-MAX ULTIMAX 40X340/200 5* | 1   |
| 5638 40 540 | SDS-MAX ULTIMAX 40X540/400 5* | 1   |
| 5638 40 690 | SDS-MAX ULTIMAX 40X690/550 5* | 1   |
| 5638 40 920 | SDS-MAX ULTIMAX 40X920/780 5* | 1   |
| 5638 42 340 | SDS-MAX ULTIMAX 42X340/200 5* | 1   |
| 5638 42 540 | SDS-MAX ULTIMAX 42X540/400 5* | 1   |
| 5638 42 690 | SDS-MAX ULTIMAX 42X690/550 5* | 1   |
| 5638 42 920 | SDS-MAX ULTIMAX 42X920/780 5* | 1   |

(Ø × total length/working length mm)

## Related Products

- „Alpha“ Clear Safety Glasses  
Art.-No. 5400 901 1



- SDS-max Combo Hammer  
D25603K, 45 mm  
Art.-No. 5328 25603



- Cardan Shaft Constant Velocity Grease S487  
Art.-No. 6540 52 50





# Hammer drill with SDS-max mounting shaft TRIALMAX



- Suitable for all hammer drills with SDS-max mounting shaft
- Considerably longer service life and drilling speed, especially when drilling into concrete with reinforcement
- Usable for hard material such as granite and marble
- No hooking in when hitting reinforcement
- Low-vibration drilling
- 3-spiral chambered coil system for faster drilling dust transport
- Self-sharpening and specially soldered HM-plate
  - Aggressive drilling behaviour
  - Temperature resistant up to +1,100°C

### Trial-HM-Plate

- Self-centering specially soldered HM-plate
- 3-cutting impacts per stroke, thus longer service, spherical bore holes especially in hard rock

### Chambered Coil System

- Pressure channel followed by underpressure chamber - accelerated dust guide (principle of piston engine)
- Square clamping flue, stronger drill body - improves the transmission to HM-plate



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5634 12 340 | SDS TRIAL-MAX HADR 12X340/200 | 1   |
| 5634 12 540 | SDS TRIAL-MAX HADR 12X540/400 | 1   |
| 5634 14 340 | SDS TRIAL-MAX HADR 14X340/200 | 1   |
| 5634 14 540 | SDS TRIAL-MAX HADR 14X540/400 | 1   |
| 5634 15 340 | SDS TRIAL-MAX HADR 15X340/200 | 1   |
| 5634 15 540 | SDS TRIAL-MAX HADR 15X540/400 | 1   |
| 5634 16 340 | SDS TRIAL-MAX HADR 16X340/200 | 1   |
| 5634 16 540 | SDS TRIAL-MAX HADR 16X540/400 | 1   |
| 5634 18 340 | SDS TRIAL-MAX HADR 18X340/200 | 1   |
| 5634 18 540 | SDS TRIAL-MAX HADR 18X540/400 | 1   |
| 5634 20 340 | SDS TRIAL-MAX HADR 20X340/200 | 1   |
| 5634 20 540 | SDS TRIAL-MAX HADR 20X540/400 | 1   |

(Ø x total length / working length mm)

# Breakthrough drill with SDS max shank



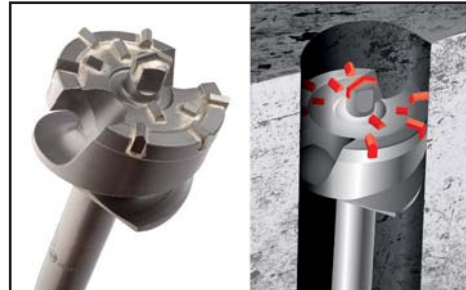
- Extremely powerful breakthrough drill with centring tip, multiple carbide blades (5 – 10 blades depending on Ø) and staggered spiral
- Suitable for breakthrough drilling of concrete and masonry
- High drilling performance thanks to optimum blade alignment
- Extremely robust thanks to high-strength drill head design and forged spirals
- Quiet to run and low weight thanks to short spiral
- Pinpoint precision and accurate alignment of drill thanks to long centring tip
- Individually packaged in protective PE sleeve
- Not suitable for reinforced concrete

**Safety note:**

- Only use in machines with a safety clutch and additional handle

**Application**

- Deep or cross drilling
- Cable outlets / cable ducts / renovation or construction



**Technical Data**

| Overall length mm | Working length mm |
|-------------------|-------------------|
| 590               | 450               |
| 990               | 850               |

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5637 45 590 | SDS-MAX BREAKTHR.DRILL 45X590 | 1   |
| 5637 45 990 | SDS-MAX BREAKTHR.DRILL 45X990 | 1   |
| 5637 55 590 | SDS-MAX BREAKTHR.DRILL 55X590 | 1   |
| 5637 55 990 | SDS-MAX BREAKTHR.DRILL 55X990 | 1   |
| 5637 65 590 | SDS-MAX BREAKTHR.DRILL 65X590 | 1   |
| 5637 65 990 | SDS-MAX BREAKTHR.DRILL 65X990 | 1   |
| 5637 80 590 | SDS-MAX BREAKTHR.DRILL 80X590 | 1   |
| 5637 80 990 | SDS-MAX BREAKTHR.DRILL 80X990 | 1   |

(Ø × total length)

# Concrete hammer drill

- Universally usable in hammer drill machines and drill hammers with a chuck adapter for drilling work, particularly in concrete, stone, brick, hollow brick and plaster
- Cylindrical shaft with Ø 10 mm
- Special hard-soldered carbide tip with semi-positive cutting
- Smooth body with non-stick coating for improved removal of the bore dust



| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5603 3      | CONCRETE HAMMER DRILL 3X 60  | e 5 |
| 5603 4      | CONCRETE HAMMER DRILL 4X 75  | e 5 |
| 5603 5      | CONCRETE HAMMER DRILL 5X 85  | e 5 |
| 5603 6      | CONCRETE HAMMER DRILL 6X100  | e 5 |
| 5603 8      | CONCRETE HAMMER DRILL 8X120  | e 5 |
| 5603 10     | CONCRETE HAMMER DRILL 10X120 | e 5 |
| 5603 12     | CONCRETE HAMMER DRILL 12X150 | e 5 |
| 5603 14     | CONCRETE HAMMER DRILL 14X150 | e 5 |

| Technical Data  |                   |
|-----------------|-------------------|
| Total length mm | Working length mm |
| 60              | 20                |
| 75              | 35                |
| 85              | 45                |
| 100             | 60                |
| 120             | 80                |
| 120             | 80                |
| 150             | 110               |
| 150             | 110               |

# Concrete hammer drill sets

- In plastic box
- Art.-No. 5609 5603 5:**
- 5 pcs.
- Art.-No. 5609 5603 8:**
- 8 pcs.

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5609 5603 5 | CONCR.HAMMER DRILL BIT 5-PCE | 1   |
| 5609 5603 8 | CONCR.HAMMER DRILL BIT 8-PCE | 1   |

- Contents Art.-No. 5609 5603 5:**
- 1x concrete hammer drill each  
Ø 4 / 5 / 6 / 8 / 10 mm
- Contents Art.-No. 5609 5603 8:**
- 1x concrete hammer drill each  
Ø 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 mm



# Roof tile drill bit

- With cylindrical shaft
- Specialist for hard construction materials such as tiles, roof tiles, pantiles, clinker brick and ceramics with a reduced speed of approx. 400 – 600 min<sup>-1</sup>
- For rotary use in drills and hammer drills, also ideal for cordless screwdrivers



| Article No. | Article Description      | QTY  |
|-------------|--------------------------|------|
| 5607 4      | ROOF TILE DRILL BIT 4X75 | e 10 |
| 5607 5      | ROOF TILE DRILL BIT 5X85 | e 10 |

| Technical Data    |  |
|-------------------|--|
| Working length mm |  |
| 45                |  |
| 50                |  |

Ø × total length mm

# Multi-purpose drills

- For use as a rotation tool (without impact function)
- Ideal for tiles, ceramics, soft wood, steel, brick, slate and composite materials
- Highly tempered special steel – long service life when used on a large variety of materials
- Carbide head with centring tip and quadrilateral cut
- The special cutting angle of 118° optimises drilling from the very beginning
- Universal application
- Clean drill hole
- Fast drilling progress

**AGR 5600:**

- With a cylindrical shaft, also ideal for use in battery-powered drills

**AGR 5601 (LG):**

- Extra-length drills with a cylindrical shaft



**Technical Data**

| Art.-No. | Working length mm |
|----------|-------------------|
| 5600 4   | 35                |
| 5600 5   | 45                |
| 5600 6   | 60                |
| 5600 8   | 80                |
| 5600 10  | 80                |
| 5600 12  | 110               |
| 5601 6   | 210               |
| 5601 8   | 210               |
| 5601 10  | 210               |
| 5601 12  | 210               |
| 5601 14  | 210               |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5600 4      | ALL PURP.TW.DRILL MULTI 4X 75  | e 5 |
| 5600 5      | ALL PURP.TW.DRILL MULTI 5X 85  | e 5 |
| 5600 6      | ALL PURP.TW.DRILL MULTI 6X100  | e 5 |
| 5600 8      | ALL PURP.TW.DRILL MULTI 8X120  | e 5 |
| 5600 10     | ALL PURP.TW.DRILL MULTI 10X120 | e 5 |
| 5600 12     | ALL PURP.TW.DRILL MULTI 12X150 | e 5 |
| 5601 6      | ALL PURP.TW.DRILL ZYL.LG 6X250 | e 5 |
| 5601 8      | ALL PURP.TW.DRILL ZYL.LG8X250  | e 5 |
| 5601 10     | ALL PURP.TW.DRILL ZYL.LG10X300 | e 5 |
| 5601 12     | ALL PURP.TW.DRILL ZYL.LG12X300 | e 5 |
| 5601 14     | ALL PURP.TW.DRILL ZYL.LG14X300 | e 5 |

Ø x Total length mm

## „Multi” multi-purpose drill set 5-pc.

- For use as a rotation tool (**no hammer action**)
- Ideal for tiles, ceramics, soft wood, steel, brick, slate and composite materials
- Highly tempered special steel – long service life when used on a large variety of materials
- Carbide head with centring tip and quadrilateral cut
- The special cutting angle of 118° optimises drilling from the very beginning
- Universal application
- Clean drill hole
- Fast drilling progress
- With a cylindrical shaft, also ideal for use in cordless drills

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5609 5600 5 | MULTI-PURP.DRILL SET MULTI 5PC | 1   |

**Contents Art.-No. 5609 5600 5:**

- Each 1 x “Multi” multi-purpose drill each Ø 4/5/6/8/10 mm



# Facade disc drill HPL

- Special drill for interior work and facade construction
- Suitable for drilling corian, Wood, plastic and fibre cement panels
- Long service life
- Centring tip ground to 75°
- Cylindrical mounting shank



## Your Advantage / Benefit

- Long service life
- Drilling without burr formation

## Application



| Article No. | Article Description        | QTY |
|-------------|----------------------------|-----|
| 5618 5 85   | FACADE DISC DRILL 5X 85    | 1   |
| 5618 6 100  | FACADE DISC DRILL 6X 100   | 1   |
| 5618 8 120  | FACADE DISC DRILL 8X 120   | 1   |
| 5618 10 120 | FACADE DISC DRILL 10X 120  | 1   |
| 5609 5618   | 4PCE FACADE DISC DRILL SET | 1   |

## Related Products

- Cordless drill screwdriver DDF459RMJ, 18V / 4.0 Ah  
Art.-No. 5320 459 12



- Facade Panels Screws, A2  
Art.-No. 1781 48 25-38



- Coloured Blind Riv.w.Mushr.Hd  
Art.-No. 2709 32-40





# Multi-purpose hole saw

- For rotary use
- High performance quality is economical due to longer shelf life
- Special hard soldering high performance teeth (more than 1,100°C) on big soldering surface reduces breaking out of high performance teeth
- Big spaces between shavings- improved removal of shavings and better makes sawing easier
- Open and continuous shaving space simplifies core removal
- Thin-walled sawing body leads to considerably lower torque stressing
- Universally usable in tiles, Eternit, porcelain bricks, clinker bricks, gas concrete, Haraklith-plates, plasterboards, solid bricks, wood, chipboards
- Max. drilling depth: 60 mm (total length = 72 mm)
- Necessary machine performance: <math>\varnothing 50\text{ mm}</math>: min. 400 W >  $\varnothing 50\text{ mm}</math>: min. 600 W$

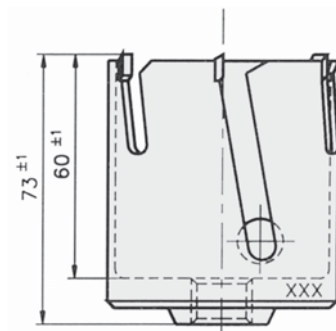
**Security advices:**

- Firm clamping of tools is necessary
- Only use machines with safety clutch and extra handle
- Wear protective goggles in case of blistering materials

| Article No. | Article Description       | QTY |
|-------------|---------------------------|-----|
| 5644 35     | MULTI PURPOSE HOLE SAW 35 | 1   |
| 5644 50     | MULTI PURPOSE HOLE SAW 50 | 1   |
| 5644 68     | MULTI PURPOSE HOLE SAW 68 | 1   |
| 5644 80     | MULTI PURPOSE HOLE SAW 80 | 1   |

**Scope of delivery:**

- Without shank, centering bit and countersink



# Holding fixtures for multi-purpose hole saw

- Screw-in thread M16
- Without centre drill bit

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5645 105    | ADAPTER SDS-PLUS M16 105MM    | 1 ü |
| 5645 220    | ADAPTER SDS-PLUS M16 220MM    | 1   |
| 5645 70 2   | ADAPTER HEXAGON SW11 M16 70MM | 1   |

(Total length mm)



# Centre drill bit for multi-purpose hole saw

**Art.-No. 5645 72:**

- Total length 105 mm (for wood)

**Art.-No. 5647 8:**

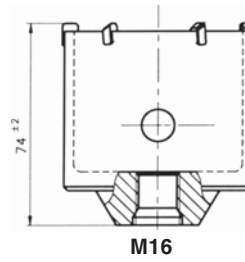
- Total length: 120 mm (for stone)

| Article No. | Article Description      | QTY |
|-------------|--------------------------|-----|
| 5645 72     | CENTRE DRILL BIT HSS 7.2 | 1   |
| 5647 8      | HM-CENTERING DRILL 8X120 | 1 z |



# Core drill

- For percussion drills and hammer drills up to 4 kg
- 6 carbide cutting edges
  - Fast penetration
  - Improved drilling progress
  - Economic due to rapidness
- Specially soldered carbide cutting edges
  - Economic due to longer service life
- Delivery without holding fixture and centre drill
- Attachment M16
- Not suitable for reinforced concrete



| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5642 50     | CORE DRILL 50       | 1   |
| 5642 68     | CORE DRILL 68       | 1   |
| 5642 80     | CORE DRILL 82       | 1   |

| Technical Data |                              |
|----------------|------------------------------|
| Ø mm           | Application examples         |
| 50             | Plumbing and heating pipes   |
| 68             | Hollow-wall boxes Ø 68 mm    |
| 82             | Branch and distributor boxes |

(Ø mm)

# Centre drill carbide

- Total length: 120 mm
- Suitable for SDS-plus mounting shaft Art.-No. 5645 105 and 5645 220

| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5643 8      | CARBIDE CENTRE DRILL 8 | 1 z |



(Ø mm)

# Hammer core drills

- 2-piece screwed version, almost no loosening of impact energy
- Reinforced base for hammer drill 5kg for high impacts
- Asymmetric ordered carbide plates guarantee a considerably smoother running
- Crown length: 80 mm for improved guidance
- Phased drill dust spiral, drill dust transport at reduced friction
- Replacement of centre drill without special tool
- Not suitable for reinforced concrete



| Article No. | Article Description   | QTY |
|-------------|-----------------------|-----|
| 5648 50     | HAMMER CORE DRILL 50  | 1   |
| 5648 68     | HAMMER CORE DRILL 68  | 1   |
| 5648 82     | HAMMER CORE DRILL 82  | 1   |
| 5648 100    | HAMMER CORE DRILL 100 | 1   |
| 5648 125    | HAMMER CORE DRILL 125 | 1   |

| Technical Data |                            |
|----------------|----------------------------|
| Ø mm           | Application examples       |
| 50             | Plumbing and heating pipes |
| 68             | Sockets                    |
| 82             | Branch boxes               |
| 100            | Drainpipe/fume cupoard     |
| 125            | Vent pipes                 |

Scope of delivery: (Ø mm)

- With centre drills
- Without adapter

# Hammer core drill - adapter

- Suitable for 2-piece screwed hammer core drills

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5648 200    | ADAP.SDS-MAX F.HAM.CORE.DR.200 | 1   |
| 5648 460    | ADAP.SDS-MAX F.HAM.CORE.DR.460 | 1   |

(Total length mm)



# Centre drill

- Suitable for 2-piece screwed hammer core drills
- Ø 11 mm

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5648 11     | CENTRE DRILL HAMM.CORE DR.11 | 1 ü |



# Chisel with SDS plus shank **FÖRCH**\*\*\*\*\*

- For light hammer and impact drills with SDS plus shank
- Suitable for renovations and restorations
- High-quality special steel, shot-blasted and extremely hard surface, with tough core for optimum service life and enhanced shatter-resistance

**Main users:**

- Plumbing, electrical trade, workshops, plastering

**Pointed chisel:**

- Suitable for tough materials
- Force effect focussed on one point
- 30 % increase in product life
- 15 % increase in removal rate

**Flat chisel:**

- Suitable for medium-hard materials
- Additional crack edges
- 30 % longer product life
- 15 % increase in removal rate

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and bitumen
- Self-sharpening
- 30 % increase in removal rate
- 100 % increase in product life

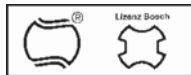
**Tile chisel:**

- Suitable for removing tiles and may be used with light masonry
- Contoured and self-sharpening
- 30 % increase in removal rate

## Your Advantage / Benefit

- Self-sharpening for longer product life
- 15 – 30 % higher removal rate
- No sharpening, reforging or rehardening necessary
- Consistently high removal rate

## Application



| Article No.   | Article Description            | QTY |
|---------------|--------------------------------|-----|
| 5654 250 5    | SDS-PLUS POINTED CHISEL 250 5* | 1 g |
| 5654 20 250 5 | SDS-PLUS FLAT CHISEL 20X250 5* | 1 g |
| 5654 40 250 5 | SDS-PLUS SPADE CHISEL40X250 5* | 1 w |
| 5654 40 260 5 | SDS-PLUS TILE CHISEL 40X260 5* | 1 w |

# Chisel set with SDS plus shank 3-pce **FÖRCH**\*\*\*\*\*

- For light hammer and impact drills with SDS plus shank
- Suitable for renovation and restoration
- High-quality special steel, shot-blasted and extremely hard surface, with tough core for optimum service life and enhanced shatter-resistance



**Main users:**

- Plumbing, electrical trade, workshops, plastering

**Pointed chisel:**

- Suitable for hard materials
- Force effect focused on one point
- 30 % longer product life
- 15 % higher removal rate

**Flat chisel:**

- Suitable for medium-hard materials
- Additional crack edges
- 30 % longer product life
- 15 % higher removal rate

**Spade chisel:**

- Suitable for removing material from plastered walls and masonry, and loosening soil, screed and bitumen
- Self-sharpening
- 30 % higher removal rate
- 100 % longer product life



Pointed chisell

Flat chisel

Tile chisell



| Article No. | Article Description    | QTY |
|-------------|------------------------|-----|
| 5654P 3 5   | CHISEL SET SDS PLUS 5* | 1   |

**Scope of delivery:**

- Art.-No. 5654 250 5: Pointed chisel
- Art.-No. 5654 20 250 5: Flat chisel
- Art.-No. 5654 40 250 5: Spade chisel



# Chisel with SDS-plus insertion shaft

- For electro-drill and chisel hammer with SDS-plus Insertion shaft
- Suitable for renovation and restoration
- High-quality special steel with shot-blasted surface

**Flat chisel:**

- Suitable for medium-hard materials

**Hollow chisel:**

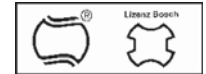
- Suitable for the production of slots in the wall

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and Bitumen

**Pointed chisel:**

- Suitable for tough materials
- Increased snap twist due to radial cuts



| Article No. | Article Description             | QTY |
|-------------|---------------------------------|-----|
| 5654 250    | SDS-PLUS POINTED CHISEL 250     | 1   |
| 5654 20 250 | SDS-PLUS FLAT CHISEL 20X250     | 1   |
| 5654 22 250 | SDS-PLUS GROOVING CHISEL 22X250 | 1   |
| 5654 40 250 | SDS-PLUS SPADE CHISEL 40X250    | 1   |

(Width mm x total length mm)



Pointed chisell

Flat chisel

Tile chisel

Tile chisel



# Chisel with SDS-plus insertion shaft 3-pce

- For light hammer and impact drills with SDS plus shank
- Suitable for renovation and restoration
- High-quality special steel with shot-blasted surface

**Main users:**

- Plumbing, electrical trade, workshops, plastering

**Flat chisel:**

- Suitable for medium-hard materials

**Gouge:**

- Suitable for creating recesses in masonry

**Spade chisel:**

- Suitable for removing material from plastered walls and masonry, and loosening soil, screed and bitumen

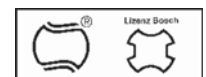
**Pointed chisel:**

- Suitable for hard materials
- Increased snap twist due to radial cuts

| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5654P 3     | CHISEL SET SDS PLUS | 1   |

**Scope of delivery:**

- Art.-No. 5654 250: Pointed chisel
- Art.-No. 5654 20 250: Flat chisel
- Art.-No. 5654 40 250: Spade chisel



Pointed chisell

Flat chisel

Spade chisel



# Chisel with SDS-Max shank **FÖRCH\*\*\*\***

- For hammer and impact drills with SDS max shank
- Suitable for renovations, restorations, breakthroughs, chiselling and demolition work
- High-quality special steel, shot-blasted and extremely hard surface, with tough core for optimum service life and enhanced shatter-resistance
- Self-sharpening chiselling technique using special cutting geometry for a long-term high removal rate and long product life
- 15 – 30 % higher removal rate

**Main users:**

- Road builders, plumbing, electrical trade, workshops, building yards, building construction, civil engineering, plastering

**Pointed chisel:**

- Suitable for tough materials
- Increased snap twist due to radial cuts
- With a technology that converts kickback power into impact power and therefore looks after both operators and the machine

**Flat chisel:**

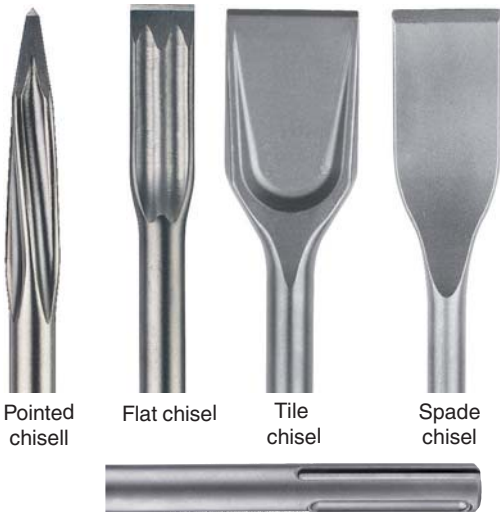
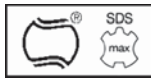
- Suitable for medium-hard materials
- Increased snap twist due to snap ribs
- With a technology that converts kickback power into impact power and therefore looks after both the people and the machine
- 100 % increase in product life due to longer blade length

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and bitumen
- 100 % increase in product life due to longer blade length

**Tile chisel:**

- Suitable for removing tiles and may be used with light masonry
- 100 % increase in product life due to longer blade



## Your Advantage / Benefit

- Self-sharpening for longer product life
- 15 – 30 % higher removal reate
- No sharpening, reforging or rehardening necessary
- Consistently high removal rate

## Application



| Article No.   | Article Description            | QTY  |
|---------------|--------------------------------|------|
| 5650 400 5    | SDS-MAX POINTED CHISEL 400 5*  | e 10 |
| 5650 25 400 5 | SDS-MAX FLAT CHISEL 25X400 5*  | 1 z  |
| 5650 50 350 5 | SDS-MAX SPADE CHISEL 50X350 5* | 1 z  |
| 5650 50 300 5 | SDS-MAX TILE CHISEL 50X300 5*  | 1 z  |

# Chisel set with SDS-Max shank 3-pce **FÖRCH**\*\*\*\*\*

- For hammer and impact drills with SDS max shank
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel, shot-blasted and extremely hard surface, with tough core for optimum service life and enhanced shatter-resistance
- **Self-sharpening** chisel technology, thanks to special blade geometry for a consistently high removal rate and long product life
- 30 % higher removal rate



**Main users:**

- Road work, plumbing, electrical trade, workshops, timber yards, construction, civil engineering, plastering

**Pointed chisel:**

- Suitable for hard materials
- Increased snap twist thanks to star-shaped blade
- With technology that converts kickback force into impact force to protect both the user and the machine

**Flat chisel:**

- Suitable for medium-hard materials
- Increased snap twist thanks to snap ribs
- With technology that converts kickback force into impact force to protect both the user and the machine
- 100 % longer product life thanks to longer blade length

**Spade chisel:**

- Suitable for removing material from plastered walls and masonry, and loosening soil, screed and bitumen
- 100 % longer product life thanks to longer blade length



Pointed chisel

Flat chisel

Tile chisel



| Article No. | Article Description   | QTY |
|-------------|-----------------------|-----|
| 5650P 3 5   | CHISEL SET SDS MAX 5* | 1   |

**Scope of delivery:**

- Art.-No. 5650 400 5: Pointed chisel
- Art.-No. 5650 25 400 5: Flat chisel
- Art.-No. 5650 50 350 5: Spade chisel

# Chisel with SDS-Max insertion shaft

- For electro-drill and chisel hammers with SDS-Max shank
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel with shot-blasted surface

**Main users:**

- Road builders, plumbing, electrical trade, workshops, building yards, building construction, civil engineering, plastering

**Flat chisel:**

- Suitable for medium-hard materials

**Hollow chisel:**

- Suitable for the production of slots in the wall

**Channel chisel:**

- Suitable for the drawing of channels in the wall

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and bitumen

**Pointed chisel:**

- Suitable for tough materials



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5650 280    | SDS-MAX POINTED CHISEL 280    | 1   |
| 5650 400    | SDS-MAX POINTED CHISEL 400    | 1   |
| 5650 25 280 | SDS-MAX FLAT CHISEL 25X280    | 1   |
| 5650 25 400 | SDS-MAX FLAT CHISEL 25X400    | 1   |
| 5650 50 400 | SDS-MAX SPADE CHISEL 50X400   | 1   |
| 5650 32 300 | SDS-MAX CHANNEL CHISEL 32X300 | 1   |
| 5650 80 300 | SDS-MAX SPADE CHISEL 80X300   | 1   |
| 5650 600    | SDS-MAX POINTED CHISEL 600    | 1   |
| 5650 25 600 | SDS-MAX FLAT CHISEL 25X600    | 1   |

(Width mm × total length mm)



# Chisel-Set with SDS-Max shaft 3-pce

- For hammer and impact drills with SDS-Max shank
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel with shot blasting surface

**Main users:**

- Road work, plumbing, electrical trade, workshops, timber yards, construction, civil engineering, plastering

**Flat chisel:**

- Suitable for medium-hard materials

**Hollow chisel:**

- Suitable for the production of slots in the wall

**Channel chisel:**

- Suitable for the drawing of channels in the wall

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and bitumen

**Pointed chisel:**

- Suitable for hard materials

| Article No. | Article Description | QTY |
|-------------|---------------------|-----|
| 5650P 3     | CHISEL SET SDS PLUS | 1   |

**Scope of delivery:**

- Art.-No 5650 400: Pointed chisel
- Art.-No 5650 25 400: Flat chisel
- Art.-No 5650 50 400: Spade chisel



# Chisel SK 28

- For hammer and impact drills
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel with shot-blasted surface
- High-quality special steel, shot-blasted and extremely hard surface, with tough core for optimum service life and enhanced shatter-resistance

**Main users:**

- Road work, plumbing, electrical trade, workshops, timber yards, construction, civil engineering, plastering

**Flat chisel:**

- Suitable for medium-hard materials

**Spade chisel:**

- Suitable for removing material from plastered walls and masonry, and loosening soil, screed and bitumen

**Self-sharpening pointed chisel**

- Suitable for hard materials

| Article No. | Article Description          | QTY |
|-------------|------------------------------|-----|
| 5651 400    | 6-KT CHISEL SK 28 400        | 1   |
| 5651 35 400 | HEX FLAT CHISEL SK 28 35X400 | 1   |
| 5651 80 400 | HEX SPADE CHISEL SK28 80X400 | 1   |

(Width mm x total length mm)



# Chisel set SK 28 3 pcs

- Suitable for hard materials

**Self-sharpening pointed chisel**

- Suitable for removing material from plastered walls and masonry, and loosening soil, screed and bitumen

**Spade chisel:**

- Suitable for medium-hard materials

**Flat chisel:**

- Road work, plumbing, electrical trade, workshops, timber yards, construction, civil engineering, plastering

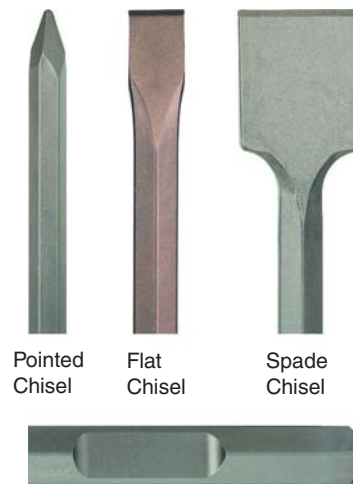
**Main users:**

- For hammer and impact drills
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel with shot-blasted surface
- High-quality special steel, shot-blasted and extremely hard surface, with tough core for optimum service life and enhanced shatter-resistance

| Article No. | Article Description     | QTY |
|-------------|-------------------------|-----|
| 5651P 1     | CHISEL SET SK28 3-PARTS | 1   |

**Scope of delivery:**

- 1x Art.-No. 5651 400: Pointed chisel
- 1x Art.-No. 5651 35 250: Flat chisel
- 1x Art.-No. 5651 80 400: Spade chisel





# Chisel SK 19 with turned shaft

- For electro-drill and chisel hammer
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel with shot-blasted surface
- Suitable for Bosch 11206, 11208, 11209, 11306, UBH 6/35, UBH 6/35D, UBH 12/50, USH 6, GBH 7/45 DE, B+D, HD 2032, HD 2038, AEG PH 240D, PH 350, PH 350D, PHD 26, PH 38, PHD 38, BBT BT 64, Makita HR 3850 B as well as all drill and chisel hammer with big spline shaft

**Main users:**

- Road builders, plumbing, electrical trade, workshops, building yards, building construction, civil engineering, plastering

**Flat chisel:**

- Suitable for medium-hard materials

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and bitumen

**Pointed chisel:**

- Suitable for tough materials

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5652 400    | HEX.POINTED CHISEL SW 19 400  | 1   |
| 5652 25 400 | HEX.FLAT CHISEL SW 19 25X400  | 1   |
| 5652 50 400 | HEX.SPADE CHISEL SW 19 50X400 | 1   |

(Width mm x total length mm)



# Chisel SK 19

- For electro-drill and chisel hammer
- Suitable for renovation, restoration, wall opening, chiselling and demolition
- High-quality special steel with shot-blasted surface
- High-quality special steel, shot-blasted and extreme hard surface with tough core for optimum service life and break-resistance
- Suitable for Bosch 11305, USH 10, 12312, HSH 10

**Main users:**

- Road builders, plumbing, electrical trade, workshops, building yards, building construction, civil engineering, plastering

**Flat chisel:**

- Suitable for medium-hard materials

**Spade chisel:**

- Suitable for removing plaster from walls and masonry, loosening soil, screed and bitumen

**Pointed chisel:**

- Suitable for tough materials

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5653 400    | HEX.POINTED CHISEL SW 19 400  | 1   |
| 5653 60 300 | HEX.SPADE CHISEL SW 19 50X300 | 1   |

(Width mm x total length mm)



# Diamond tile drill bit with M14 collet

- Extremely fast, clean, and precise drilling even into the hardest tiles
- For all standard single-hand angle grinders
- Dry boring, no water necessary
- Problem-free, freehand boring possible
- For ceramic, natural stone tiles, hard floor tiles of all kinds, fine stoneware, thin granite panels, floor and wall tiles, marble, etc.
- Drill bit length: approx. 70 mm
- Available diameters: Ø 6 – 110 mm
- Ø 6 mm–14 mm with special wax filling for cooling; this liquefies when heated and cools the tile drill bit
- Usable length Ø 18 – 110 mm: max. 4 cm
- Usable length Ø 6 – 14 mm: max. 3.5 cm

**Applications:**

- Installation connections for which it is necessary to bore through tiles or panels such as for cold and hot water connections, waste water, plug sockets, bathroom and kitchen fixtures

**Instructions for use:**

**Screw the drill bit onto the M14 thread on the angle grinder**

- Mark the hole to be drilled beforehand, then set it against the material at a slant and without the centring drill. Hold the drill vertically after penetrating the material and drill with rocking/circular movements
- Maximum drilling time for Ø 6 – 14 mm approx. 15 seconds, depending on how hard the tile is
- Short breaks must be taken if you will be drilling for more than 30 seconds in order to allow the equipment to cool
- The tile drill bit can alternatively be immersed in water to cool it
- Used mainly for tiles ranging from 8 – 10 mm



| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5619 3 6    | DIAM.TILE DRILL BIT M14 6MM   | 1   |
| 5619 3 8 1  | DIAM.TILE DRILL BIT M14 8MM   | 1   |
| 5619 3 10   | DIAM.TILE DRILL BIT M14 10MM  | 1   |
| 5619 3 12   | DIAM.TILE DRILL BIT M14 12MM  | 1   |
| 5619 3 14   | DIAM.TILE DRILL BIT M14 14MM  | 1   |
| 5619 3 18   | DIAM.TILE DRILL BIT M14 18MM  | 1   |
| 5619 3 20   | DIAM.TILE DRILL BIT M14 20MM  | 1   |
| 5619 3 25   | DIAM.TILE DRILL BIT M14 25MM  | 1   |
| 5619 3 32   | DIAM.TILE DRILL BIT M14 32MM  | 1   |
| 5619 3 35   | DIAM.TILE DRILL BIT M14 35MM  | 1   |
| 5619 3 40   | DIAM.TILE DRILL BIT M14 40MM  | 1   |
| 5619 3 45   | DIAM.TILE DRILL BIT M14 45MM  | 1   |
| 5619 3 50   | DIAM.TILE DRILL BIT M14 50MM  | 1   |
| 5619 3 55   | DIAM.TILE DRILL BIT M14 55MM  | 1   |
| 5619 3 60   | DIAM.TILE DRILL BIT M14 60MM  | 1   |
| 5619 3 68   | DIAM.TILE DRILL BIT M14 68MM  | 1   |
| 5619 3 75   | DIAM.TILE DRILL BIT M14 75MM  | 1   |
| 5619 3 82   | DIAM.TILE DRILL BIT M14 82MM  | 1   |
| 5619 3 110  | DIAM.TILE DRILL BIT M14 110MM | 1   |

## Diamond tile bit crown package

- 4 – 12 mm bore over perforation
- 14 mm over the V-cut on the under side

**Contents:**

| Article No. | Article Description            | Quantity |
|-------------|--------------------------------|----------|
| 5619 4 14   | SET DIA-TILE BIT CROWNS 4-14MM | 1        |
| 5619 4 14 1 | DRILL.TEMPL.F.TILE BIT CROWNS  | 1        |
| 5619 1000   | COOL.BOTTLE FOR DRILL.TEMPLATE | 1        |

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5619P 1     | PACK.TILE BIT CROWN+TEMPL+BOT. | 1   |



## Drilling template for tile bit crown

- No slipping
- Exact stopping of the diamond tile bit crown
- 4 – 12 mm bore over perforation
- 14 mm over the V-cut on the under side

| Article No. | Article Description           | QTY |
|-------------|-------------------------------|-----|
| 5619 4 14 1 | DRILL.TEMPL.F.TILE BIT CROWNS | 1   |



## Cooling bottle incl. tube

- Water cooling without unnecessary soiling

| Article No. | Article Description            | QTY |
|-------------|--------------------------------|-----|
| 5619 1000   | COOL.BOTTLE FOR DRILL.TEMPLATE | 1   |

