

Workshop Requirements, Workshop Devices

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Roll of Cleaning Cloth

- Pre-perforated, with reinforced edges

Art. No. 5413 97 5 1

- Food-safe

Art. No. 5413 20, 5413 30:

- Suitable for inner unrolling
- Outer Ø roll: 290 mm

Art. No. 5413 22:

- Full surface glued



Article No.	Article Description	QTY
5413 10	RO(1000)WIPE 3L-BLUE 38X36CM	e 2 b
5413 10 1	RO(1000)WIPE 3L-WHITE 38X36CM	1
5413 11	RO(1000)WIPE 2L-BLUE 38X36CM	i 4
5413 11 1	RO(1000)WIPE 2L-WHITE 38X36CM	2
5413 16 1	RO(800)WIPE 2L-WHITE 22X30CM	i 6
5413 20	RO(1000)WIPE 2L-WHITE 26X38CM	2
5413 22	RO(1000)WIPE 3L-BLUE 26X38CM	1
5413 30	RO(1000)WIPE 2L-BLUE 22X38CM	2
5413 97	RO(473PC)TISS.3L.WHITE 26X38CM	i 6
5413 97 5 1	RO(500PC)TISS.3L.BLUE 22X38CM	i 6

Cleaning Cloth Rolls **ECO**

- Perforated
- Colour: brown

Article No.	Article Description	QTY
5413 96	RO(473PC)TISSUE 2L.26X38CM ECO	2

(roll width x sheet length)



Roll Holder

- Splitter for exact tear-off
- Floor stand
 - For big rolls up to 42 cm width, and rollable
 - With holder for waste sack
- Wall holder
 - For big rolls up to 40 cm width
 - Can be used in fixed position and mobile
 - Without holder for waste sack

Article No.	Article Description	QTY
5413 90	WIPE FLOOR STAND	1
5413 91	WIPE WALL HOLDER	1
5413 100	WIPE FLOOR STAND W.H.F.WASTE	1



Wipe and Polishing Cloth Classic

- Textile wipes for dry and wet wiping processes
- Extremely tearproof and wetproof
- Solvent resistant
- Lint-free and silicone-free
- Highly absorbent, wringable and re-usable
- Super soft (as soft as a polishing cloth)
- Environmentally friendly, 100 % rayon

Article No.	Article Description	QTY
5413 1	RO(500)WIPE/POL.CLASSIC 40X38	1
5413 2	RO(500)WIPE/P.CLASSIC 30X38CM	1
5413 5	PK(50)WIPE/P.CLASSIC 29X38CM	1

(roll width x sheet length)



Cleaning Tissue 'Katja' A-Tork plus

- Optimum cleaning features
- Highly-absorbent
- Wet-proof and almost lint-free
- For all kinds of cleaning work

Article No.	Article Description	QTY
5413 25	RO(750)CLEAN.TISS.KATJA34X24CM	2



Wipe AIRFLEX II

- The highly absorbent Airflex-wipes are ideally suitable for cleaning and drying smooth surfaces
- Soft and still tear-proof, even in wet condition
- The Airflex-Wipe absorbs liquids and oils quickly and enables an efficient cleaning without repeated wiping off

Technical Data

Roll:	500 Sheets
Dimension WxL (sheet):	325 x 385 mm
Absorbing capacity H2O:	400 g/m ²
Tear resistance:	
- Lengthwise	510 N/m
- Transverse	455 N/m
- Transverse/wet	115 N/m
Colour:	blue

Article No.	Article Description	QTY
5413 14	RO(500)WIPE AIRFLEX II 33X38CM	1



Fibre Fleece Cloths

- Bright coloured
- Multi-usable textile wipes with contents of cotton
- Extremely tearproof and wetproof
- Solvent resistant
- Highly absorbent and wringable
- Re-usable
- Soft

Article No.	Article Description	QTY
5413 9	RO(250)FIBRE FLEEC.C.29X38CM	2



Cleaning Tissue Polypropylene Wet/Dry

- Clean and economic alternative for numerous application fields
- Removes also stubborn dirt
- Solvent resistant
- Lint-free
- Robust
- Food safe
- Washable, smear-resistant

Fields of application:

- Paint works
- Vehicle preparation
- Automobile workshops
- Canteen kitchens
- Food industry
- Industrial cleaning

Technical Data	
Material:	100% Polypropylene
Roll:	500 tissues
Dimension W x L (tissue):	380 x 320 mm
Grammage:	75g/m ²
Colour:	blue
Heat resistant:	up to 120°C



Article No.	Article Description	QTY
5413 13	RO(500)CLEA.TIS.WET/DRY38X32CM	1

Spunlace Cleaning Cloth

- cleaning cloth for highest requirements with regard to tensile strength, lint-freedom and abrasion resistance
- the creped surface and the pulp content in the fibre mixture ensure a rapid and high liquid and dirt pick-up and holding
- for wet and dry application for many demanding wiping, polishing and cleaning work operations, also in connection with solvents
- resistant to solvents and to be used several times

Technical Data		
	Dispenser box	Roll
Grammage:	73 g/m ²	73 g/m ²
Thickness:	0,45 mm (±0,07)	0,45 mm (±0,07)
Dimension:	30 x 36 cm	30 x 38 cm
Roll diameter:	-	ca. 27,5 cm
Sleeve diameter:	-	6,0 cm
Colour:	turquoise	turquoise
Material:	55 % Cellulose / 45 % Polyester	55 % Cellulose/ 45 % Polyester
Surface:	crepped	crepped
Water absorptive capacity:	> 3,0 g/100 cm ²	> 3,0 g/100 cm ²



5413 15

5413 15 1

Article No.	Article Description	QTY
5413 15	P(150)SPUNLACE-WIPE CREPED	1
5413 15 1	RO(500BL)SPUNLACET.GEK.30X38CM	1

Paper Towel Dispenser

- for washrooms, toilets, etc.
- Also ideally suited for workshops, gas stations, sales rooms etc.
- No paper clogging and removal of individual sheets
- Visually appealing wall-mounted dispenser

Art.-No. 5413 56:

- Paper towel dispenser, empty
- White / black
- Usable with or without closing function
- Easy refilling, dispenser opens to the top
- Easy removal of paper towels, irrespective of filling level
- Dimensions (H x W x D): 45.0 x 30.1 x 14.6 cm
- 1.66 kg

Art.-No. 5413 57:

- Paper towel dispenser
- completely equipped with paper towels
- 3,000 pieces

Art.-No. 5413 51 1:

- Paper towels
- natural, 2 layers
- Dimensions (H x W): 23.2 x 23 cm
- 3,000 pieces

Art.-No. 5413 52 1:

- Paper towels
- natural, 1 layer
- Dimensions (H x W): 23.2 x 23 cm
- 5,000 pieces

Art.-No. 5413 53 1:

- Paper towels
- white, 2 layers
- Dimensions (H x W): 23.5 x 25 cm
- 3,024 pieces



Article No.	Article Description
5413 56	PAPER TOWELS DISPENSER EMPTYII
5413 57	PAPER TOWELS DISPENSER 3000 II
5413 51 1	KT(3000)P-TOW.2-LA.NA.23.2X23
5413 52 1	KT(5000)P-TOW.SIN.L.NA.23.2X23
5413 53 1	KT(3024)P-TOW.1LA.WH 23,5X25

Cleaning Cloth Roll for Centerfeed and Dispenser

- cleaning cloth roll for use with centerfeed
- external feed possible
- 2 layers, hygienic, highly absorbent and tear-resistant
- food safe
- compact dispenser, easy to mount
- easy refilling with and without key
- cuts cleanly, no paper dust
- replaceable paper cutting

Application Fields:

- commercial kitchens
- sanitation
- filling stations
- maintenance workshops

Art.-No. 5413 60:

- without content



5413 60



5413 60 1

Technical Data

Cleaning paper roll

Colour:	white
Layers:	2
Weight:	0,957 kg
Grammage per sheet:	18 g/m ²
Roll Ø:	200 mm
Roll height:	190 mm
Roll core:	71 mm
Roll length:	135 m
Sheets:	450
Height of sheet / Length:	190 mm / 300 mm

Dispenser

Colour:	light grey
Material:	plastic
Weight:	1,4 kg
Dimensions (mm):	H: 388 / W: 260 / D: 230

When applied using the dispenser:
Remove cardboard core



Article No.	Article Description	QTY
5413 60	DISPENSER FOR CENTERFEED	1
5413 60 1	R(450S)CLEAN.CL.2L-WHI.30X19CM	6

Wiping and cleaning cloths

- disposable wiping cloth
- voluminous and very absorbent
- lint-free cleaning
- high tear strength, even when wet
- suitable for most surfaces
- dimensions: 330x315 mm
- ideal for:
 - routine cleaning in industry
 - general maintenance work
 - effective cleaning of assembly lines
 - care in the health service"

Article No.	Article Description	QTY
5413 4	WIPE-CLEANING TISSUE	56



Kitchen Towel

- high quality kitchen towel
- soft, absorbent and lint-free
- food safe
- fits in all common dispenser

Technical Data

Colour:	white
Layers:	3
Weight per roll:	0,185 kg
Grammage per sheet:	17,33 g/m ²
Roll diameter:	110 mm
Roll height:	260 mm
Roll core Ø:	43 mm
Roll length:	12,24 m
Sheets:	51
Height of sheet / length:	260 / 240 mm



Article No.	Article Description	QTY
5413 65	PK(4)KI-TO(51SH)3LA-WH 24X26CM	1

Toilet Paper Rolls

- Soft 3-layered toilet paper
- 250 papers per roll
- Dimensions (paper): 10 x 12cm
- Colour: white

Article No.	Article Description	QTY
5413 48	THREE-LAY.TOIL.PAP.WHITE(PK48)	1



Cleaning Clothes, Thin

- Disposable cleaning clothes
- Tested in accordance with DIN EN 61650
- Without hooks, eyelets and buttons

Article No.	Article Description	QTY
5413 35	PK(10KG)CLEANING CLOTHES THIN	1
5413 36	PK(25KG)CLEANING CLOTHES THIN	1



Cleaning-Fleece, Colourful

- Disposable cleaning-fleece, cut
- Size LxW: 40 x 40 cm

Article No.	Article Description	QTY
5413 37	PK(10KG)CLEAN.-FLEECE COLOURF.	1



Terry Towelling Polishing Cloths

- Disposable terry towelling cloths
- Colours may vary
- Area of application, e.g., vehicle preparation

Article No.	Article Description	QTY
5413 38	PCK(10KG) POLISHING CLOTHS	1



Oil Drip - Towel

- High absorbency of oil, fuel and other hydrocarbons
- Water-repellent
- Absorbency: 1 towel = 0.78l heating oil
- Size: 40 cm x 50 cm

Article No.	Article Description	QTY
6190 9506	OIL DRIP TOWEL WHITE 50X40CM	g 200



SMF oil-absorbent cloth

- Triple-layer structure with a specially reinforced surface and a leak-proof, non-slip film on the underside
- Ideal for protecting floors and workbenches, and as underlay when handling oils and fuels, as well as in the repair of facilities and machines in the open air
- Water repellent
- Absorbency: 3.4 l/m²;

Dimensions:

- Art.-No. 6190 9530: 0.8 m x 30 m
- Art.-No. 6190 9531: 0.4 m x 0.5 m

Article No.	Article Description	QTY
6190 9530	RO(30M)OIL DRIP TOWEL SMF 80CM	1
6190 9531	P(30)OIL DRIP TOWL SMF 50X40CM	1



6190 9530



6190 9531

Barrel cover, grey

- For standard 200-litre steel barrels
- Suitable for oils, coolants, lubricants and solvents, as well as other water-based fluids
- Reinforced and lint-free on the top surface
- Pre-punched holes for easy access to barrel contents
- Absorbency: 1.26 l/barrel cover
- Outer surface-Ø: 56 cm

Article No.	Article Description	QTY
6190 9532	P(25)FOOT COVER GREY Ø56CM	1



Oil-binding Granulate

- Extremely absorbable PU-granulate for safe absorption of mineral oils, oil-containing chemicals and fuels
- Due to its higher specified weight it is particularly appropriate for streets, parkings etc. no matter what the weather conditions
- Has, thus enough fine-particle share in order to extract oil out of rips

Common characteristics:

- Does not absorb water, which otherwise would have to be disposed of expensively. Thus also ideal for the absorption of oils on wet surfaces
- Does not relpase absorbed materials
- Non-slippy, also in wetness
- Does not cause scratches on flagstones and plastic-coated garage and industrial floors
- Time-unlimited application

Attention:

- Granulate is a hazardous waste after use and has to be disposed of at a suitable site
- Residue-free disposal and thermal energetic recycling by burning is possible



Technical Data

Art.-No.:	6190 9500	6190 9505
Description:	Bag (50 l) oil binding granulate	Bag (40 l) all-weather oil binding compound
Base material:	PU foam, water-resistant	Recycled PU foam, water-resistant
Suitable for:	Bodies of water, roads, and traffic areas	Roads and traffic areas
Types:	Type I, II, III R SF	Type III R
Form:	Granulate	Granulate
Colour:	yellowish-beige	grey
Bulk weight:	250 g/l	395 g/l
pH value:	5.69	9.2
Absorption capacity, litre - litre:	1 l oil binder binds 0.44 l of oil	1 l oil binder 0.40 l of oil
Absorption capacity, kg - litre:	1 kg oil binder binds 1.76 l of oil	1 kg oil binder binds 1.01 l of oil
Absorption capacity, kg - kg:	1 kg oil binder binds 1.43 kg of oil	1 kg oil binder binds 0.82 kg of oil
Grain size distribution > 4 mm:	32.3 Weight %	15.7 Weight %
Grain size distribution 4–0.5 mm:	51.7 Weight %	70.5 Weight %
Grain size distribution 0.5–0.125 mm:	15.0 Weight %	9.7 Weight %
Grain size distribution < 0.125 mm:	1.0 Weight %	4.1 Weight %
Land transport ADR / RID:	Not hazardous goods	Not hazardous goods
Labelling elements:	The product does not require labelling in accordance with EC Directives	The product does not require labelling in accordance with EC Directives

Article No.	Article Description	QTY
6190 9500	OIL-BINDING GRANULATE 50L	1
6190 9505	(40L)ALL-WEATHER OIL-B.GRANUL.	1

Oil-binding Granulate Absodan Plus

- Binds all kinds of liquids on any fixed surface
- Due to its fine grinding it penetrates easily into the smallest rips and cavities
- Optimum non-slippyness reached by full granulate saturation
- Very appropriate for absorption processes which require strong contacts to the surfaces and fast absorption, e.g. on areas with a lot of traffic, where fast absorption and cleaning is often crucial.
- Quick-acting
- High absorption power
- Multi-purpose binder V = approved security

Multiple-purpose Marking V

- In order to protect the environment and user having daily contact with liquid chemicals the Federal Office of Environment (LTwS-No. 31) published the "Requirements of chemical binders".

The Markings are:

- **A** = Acid binder
- **B** = Binder for alkaline substances (bases)
- **F** = Binder for inflammable liquids
- **H** = Oil-binder type III/R
- **O** = Binder for oxidative substances
- **P** = Binder for aqueous and polar liquids
- **V** = **Multi-purpose binder**
- The description Multi-purpose Binder with the marking V is only given to binders, which are tested and approved on the absorption of any chemicals as single binders and therefore all have code letters.
- The granulate has all the code letters and is the first tested Multiple-purpose Binder with valid MPA-test-certificate.
- Density: 20 kg corresponds to 40 litres

Art. No. 6190 9502:

- Grain 0.5 – 1.0 mm

Art. No. 6190 9503:

- Grain 0.3 – 0.7 mm



Article No.	Article Description	QTY
6190 9502	OIL-BIND.GRANUL.ABSODAN+ 20KG	1
6190 9503	SAC(10KG)OIL BIND.GRAN.SUPERP.	1

Window Cleaning Strips

- To pre-clean windows
- Handle with stem cover to put on telescope rod
- Thick, strongly absorbing special synthetic
- Non-fuzzy and machine washable.

Article No.	Article Description	QTY
5410 30	CLEANING STRIP COMPLETE L35CM	1
5410 30 1	REPLACEMENT STRIP L35CM	1
5410 31	CLEANING STRIP COMPLETE L45CM	1
5410 31 1	REPLACEMENT STRIP L45CM	1



Bucket

- Suitable for strips with up to 45 cm length
- With robust, break-proof plastic bail
- Complete with holder-set for strips without slide rollers
- Capacity: 22 l
- Dimensions LxWxD: 490 x 240 x 240 mm

Article No.	Article Description	QTY
5410 50	BUCKET 22L	1
5410 50 1	SLIDE ROLLERS FOR 22L-BUCKET	1



5410 50



5410 50 1

Window Wiper

- Rust-free stainless steel with special rubber strip for strap-free window cleaning
- Handle with stem cover to put on a telescope rod

Article No.	Article Description	QTY
5410 21	WINDOW WIPER COMPLETE L35CM	1
5410 21 1	REPLACEMENT RUBBER STRIP L35CM	1 z
5410 22	WINDOW WIPER COMPLETE L45CM	1
5410 22 1	REPLACEMENT RUBBER STRIP L45CM	1 z



Telescope Rods

- Stepless adjustable, with cone to put on window cleaning strips and wipers
- Made of aluminium (1 mm) with rugged plastic fittings

Article No.	Article Description	QTY
5410 40	TELESCOPE ROD ALU 2X0,60M	1
5410 41	TELESCOPE ROD ALU 2X1,25M	1



Combi-Sponge

- Special cleaning sponge with 2 different application sides
- The blue foam plastic side has a soft structure and is particularly suited to cleaning lightly soiled cars
- The white fleece side (scratch-free) has the rougher surface and is ideal for removing tougher soilings e.g. insects

Article No.	Article Description	QTY
5410 66	COMBI SPONGE 200X120X65MM	1



Cleaning Sponge

- Universally applicable
- Particularly suitable for cleaning surfaces that are to be treated by using Plasto Clean-Care P306

Article No.	Article Description	QTY
5410 67	PK(25)CLEAN.SPONGE 11X7X3,5CM	1



Viscose Sponge

- Universally applicable
- Strongly absorbent
- Boil proof, hygienic

Article No.	Article Description	QTY
5410 63	VISCOSE SPONGE 190X 80X55MM (L x B x H)	1



Car Sponge

- Foamed plastic, CFC-free
- Universally applicable
- Highly absorbent

Article No.	Article Description	QTY
5410 62	CAR SPONGE 200X120X80MM	1



Fleece Sponge

- Foamed plastic with hard fleece side and grip strip

Article No.	Article Description	QTY
5410 64	FLEECE SPONGE 150X90X45MM	1 z



Combi - Insect Sponge

- Polyester with hard foam side

Article No.	Article Description	QTY
5410 61	COMBI-INS.SPONGE 120X80X50MM	1 d



Insect Sponge

- Polyester hard foam

Article No.	Article Description	QTY
5410 60	INSECT SPONGE 110X 70X40MM	1 d



Windscreen Cleaner/ Puller

- Metal version with foamed plastic strip and rubber lip
- Handle with stem cover to put on telescopic rod

Article No.	Article Description	QTY
5410 10	WINDSCR.CLEANER/PULLER 30CM	1



Drying Cushion “Water-Ex”

- Drying cushion on granulate base (montmorillonit) for vehicles, offices, households, basements and boats
- Cover: Flanell
- Weight: 1.0 kg
- Dimension L x W x H: 280 x 160 x 50 mm

Your Advantage / Benefit

- Removes humidity from the indoor air
- Up to 120 g in 48 h at 20°C
- No more windows hazing up on the inside
- Reduction of mould formation on carpets, walls and cupboards
- Prevents formation of mould stains on leather and cushions
- No more mouldy smell
- Minimises the formation of rust
- Prevents damage to electronic devices
- Can be reused and placed anywhere

Application

- Place the drying cushion into the wet room or fasten it with Velcro
- Remove after 1-2 month of exposure and place it in a microwave oven
- Set the microwave oven to 5 minutes at full power and switch it on
- Take the drying cushion out of the microwave oven and leave it to ventilate for 5 minutes (steam rises)
- Repeat the process twice and reuse the cushion
- It can also be dried on a heater



Article No.	Article Description	QTY
5410 500	DRYING CUSHION "WATER-EX"	1

Ice Scraper with Handle

- With rubber lip

Article No.	Article Description	QTY
6160 0172	ICE SCRAPER W.HANDLE 175X110MM	1



Ice Scraper

- Sorted by colour in display
- With 3 working surfaces
 - Smooth frost edge
 - Serrated scraping edge for ice
 - Water wipe-off lip

Article No.	Article Description	QTY
6160 0171	PK(25)ICE SCRAPER 130X110MM	1



Ice Scraper with Broom

- Ideal to remove ice and snow also at very cold conditions
- Dimension: 80 x 480 mm
- Material: PP/PVC
- Environmentally-friendly: made of recycled plastic
- Brush type: hard

Article No.	Article Description	QTY
6160 0182	ICE SCRAPER W. BROOM 80X480MM	1 z



Truck ice scraper with telescopic handle

- ideal for use with transporters, SUVs, buses, trucks construction machinery, etc.
- extendible telescopic handle 102 - 157 cm
- 90° angle-adjustable broom with locking mechanism
- dryer made from rubber
- non-slip soft handles
- material ice scraper: polycarbonate (PC)

Note:

The bristles must be kept clean in order to prevent scratching the paintwork! Only to be used on clean surfaces.

Article No.	Article Description	QTY
6160 0183	ICE SCRAP.TRUCK TELES.95-150CM	1



Premium Microfibre Cloth **FÖRCH*******

- voluminous microfibre cloth
- exceptionally absorbent
- ideal to use with wax sprays
- best absorption of polishes
- sewn satin edge to protect paintwork
- high quality microfibre fabric made from 70% polyester and 30% polyamide
- weight: approx. 650 g / m
- silicone-free, according to DIN EN ISO 1172 testing
- dimensions (L x W): 38 x 43 cm
- washable up to 60°C, (do not use fabric softener and do not tumble dry)



Article No.	Article Description	QTY
5410 75 6	PREM.MICROF.CLOTH 38X43CM 5*	1
5410 75 7	P(3)PREM.MICROF.CL. 38X43CM 5*	1

Microfibre Cloth “Borderless”

- high-quality microfiber cloth for professional vehicle preparation

Your Advantage / Benefit

- Consists of two different microfiber structures (low pile / high pile)
- Borderless
- Retains shape
- Sizeable grip
- Streak-free and thorough cleaning result
- 40 x 40
- Hot-wash up to 90°C



Application

- The coarser side is suitable for cleaning paint. It polishes and cleans without leaving any trace compared to cotton cloths
- The finer side removes polish residue and leaves a shiny finish
- For scratch-free polishing



Article No.	Article Description	QTY
5410 75 10	MICROF.CL."BORDERLESS"40X40 CM	1
5410 75 11	PCK(5)MICR.CLOTH"BL"40X40 CM	1

Related Products

- High Performance Grinding Paste Heavy P334 **FORCH** Art.-No. 6100 1714



- Finish-Paste Anti-Hologram P338 **FORCH** Art.-No. 6100 1764



- Spray Glaze P346 Art.-No. 6100 1791



- Wonder Wax P331 Art.-No. 6100 1792



Microfibre Cloth

- Handy, voluminous grip
- High-quality and excellent processing
- Smear-free cleaning results
- Removes soilings
- Long service life and hygienic
- Absorbs a lot of dirt
- Boil-proof up to 95°C (without softener)
- Weight: 340 g/m²

Article No.	Article Description	QTY
5410 75	PK(5)MICROFIB.CLO.BLUE 40X40CM	1
5410 75 1	MICROFIBRE CLOTH BLUE 40X40CM	1
5410 75 2	MICROFIBRE CLOTH WHITE 40X40CM	1



Micro Fibre Cloth **ECO**

- Hand, voluminous grip
- High-quality and excellent processing
- Smear-free cleaning results
- Removes tenacious stains
- Long service life and hygienic
- Absorbs a lot of dirt
- Boil-proof up to +60°C (without softener)
- Weight: 300 g/m²

Article No.	Article Description	QTY
5410N 75	PK(5)MICROFI.CLOTH ECO 40X40CM	1



Micro Fibre Cloth Combi

- Thick side is ideal for cleaning works
- Thin side is ideal for polishing and finishing works
- Wet and dry usable
- For all smooth and slightly structured surfaces
- Time-saving

Article No.	Article Description	QTY
5410 75 4	MICRO FIBRE CLOTH COMBI40X40CM	1

Note: When using the 'Combi' cloth, specific lint and dust residues may occur on the surface due to manufacturer process. These lints or dust disappear after wetting the cloth or after the first washing process at the latest.



Micro Fibre Polishing Gloves

- For all smooth and slightly structured surfaces
- Ideally suited for vehicle treatment
- Perfect for areas which are difficult of access
- Time-saving

Article No.	Article Description	QTY
5410 75 5	POLISH.GLOVES MICROFIB.20X28CM	1



Window Cloth “Shining”

- Knitted microfiber window cloth

Your Advantage / Benefit

- High-quality excellent workmanship
- Crystal clear cleaning result
- Retains shape
- Hot-wash up to 90°C (without conditioner)

Application

- Streak-free window cleaning
- For removing dust and grease residues



Article No.	Article Description	QTY
5410 85 40 1	FENSTERTUCH "SHINING"	1
5410 85 40 3	PCK(3) FENSTERTUCH "SHINING"	1

Related Products

- Glass Cleaner R564
Art.-No. 6100 1740
Art.-No. 6100 1745
Art.-No. 6100 1744

- Windscreen Foam Cleaner R530
Art.-No. 6100 1600

- Active Plus Multi Foam Cleaner R560
Art.-No. 6100 1660

- Cockpit Fresh Up
Art.-No. 6100 1737
Art.-No. 6100 1738



Wipe & Dry

- For protective drying of sensitive surfaces
- Smear and lint-free drying
- 3 times faster absorbency
- 50% more absorbency compared to conventional chamois
- Machine-washable up to 30°C
- Resistant to many chemicals, greases and oils
- Size: 66 cm x 43 cm

Article No.	Article Description	QTY
5410 300	ABSORB.TOWEL WIPE&DRY 66X43CM	1



Window Cloth

- For a smear-free window cleaning

Article No.	Article Description	QTY
5410 85	WINDOW CLOTH 40X35CM	1



Chamois - Window Cloth

- Top quality
- Solid material

Article No.	Article Description	QTY
5410 80	CHAMOIS LEATHER CLOTH 35X52CM	1
5410 81	CHAMOIS LEATHER CLOTH 40X62NM	1
5410 82	CHAMOIS LEATHER CLOTH 43X68CM	1



Washing and Polishing Gloves

- Made of high-value, soft synthetic fleece with each glove made of stretch fabric
- Cleans effeciently
- Easy to wash out, machine washable at +40 °C without softener

Article No.	Article Description	QTY
5410 158	WASHING AND POLISHING GLOVES	1



Car Polishing Cotton

- Special soft high-quality cotton

Article No.	Article Description	QTY
5410 70	CAR POLISHING COTTON 400G	1



Duster Sponge

- To remove dust and polishing residues without smearing
- Easy to wash out
- Long-lasting
- Colour: black

Article No.	Article Description	QTY
5410 59	DUSTER SPONGE BLA.175X120X50MM	1



Microfaser II polishing glove

- For all smooth and lightly textured surfaces
- Ideal for vehicle care
- Ideal for places that are difficult to reach
- Less time expenditure

Article No.	Article Description	QTY
5410 77	MICROFASER POLIS.GLOVE 21X28CM	1



Automobile Surface Washer

- For wet cleaning of all surfaces e.g. vehicles, commercial vehicles, tarpaulins etc.
- With water flow
- Suitable for Vikan telescopic rods/extensions
- Resistant to fuel, mineral oil, washing agent, antifreeze agent
- Dense and soft bristles made of polyester, permanently elastic
- With rubber edge to prevent damages of sensitive surfaces
- Material: Polyamide (PA) / Polyester (PBT)

Technical Data

Dimension LxW:	25 x 7 cm
Bristles sizes LxØ:	5 x 0.025 cm
Max. application temperature:	+50/-0°C
Weight:	0.41 kg



Article No.	Article Description	QTY
5410 102	SURFACE WASHER WF 25CM	1

Truck Surface Washer

- For wet cleaning of all surfaces e.g. commercial vehicles, busses, trucks, tarpaulins etc.
- With water flow
- Suitable for Vikan telescopic rods/extensions
- Resistant to fuel, mineral oil, washing agent, antifreeze agent
- High productivity of bigger surfaces due to longer bristle head
- Dense and soft bristles made of polyester, permanently elastic
- With rubber edge to prevent damages of sensitive surfaces
- Material: Polyamide (PA) / Polyester (PBT)

Technical Data

Dimension LxW:	35 x 7 cm
Bristle sizes LxØ:	5 x 0.025 cm
Max. application temperature:	+50/-0°C
Weight:	0.69 kg



Article No.	Article Description	QTY
5410 103	SURFACE WASHER TRUCK WF 35CM	1

Washing Brush Automobile Adjust. Angle

- For wet cleaning of all surfaces e.g. vehicles, commercial vehicles, tarpaulins etc.
- With water flow
- 90° adjustable angle bristle head due to swivel
- Suitable for Vikan telescopic rods/extensions
- Resistant to fuel, mineral oil, washing agent, antifreeze agent
- Inclined bristles to have access to all edges
- Bristles: soft/split made of polyester, permanently elastic
- With rubber edge to prevent damages of sensitive surfaces
- Material: Polyamide (PA) / Polyester (PBT)

Technical Data

Dimensions LxW:	24 x 7 cm
Bristle sizes LxØ:	5 x 0.025 cm
Max. application temperature:	+50/-0°C
Weight:	0.26 kg



Article No.	Article Description	QTY
5410 104	WASH.BRUSH ADJUS.ANGLE WF 24CM	1

Washing Brush Automobile High/Low

- For wet cleaning of all surfaces e.g. vehicles, commercial vehicles, tarpaulins etc.
- With water flow
- Angular form (High/Low) ensures efficient cleaning in every height
- Suitable for Vikan telescopic rods/extensions
- Resistant to fuel, mineral oil, washing agent, antifreeze agent, as well as to chemicals up to the PH-level 3-11
- Inclined bristles for accessing to all edges
- Bristles: soft/split made of polyester, permanently elastic
- Wit rubber edge to prevent damages of sensitive surfaces
- Material: Polyamide (PA) / Polyester (PBT)

Technical Data

Dimension L x W:	28 x 15 cm
Bristle sizes L x Ø:	5 x 0.025 cm
max. application temperature:	+50/-0 °C
Weight:	0.55 kg



Article No.	Article Description	QTY
5410 106	WASHING BRUSH AUT.HI/LOW 28CM	1

Washing Brush Automobile with Water Flow

- For clean and protective wet cleaning of all surfaces e.g. vehicle, commercial vehicle etc.
- With water flow
- Plastic hose connection for sockets (Gardena)
- Bristles: soft/split made of polyester
- Resistant against fuel, mineral oil, washing agent, antifreeze agent
- Material: Polypropylene (PP) / Polyester (PBT)

Technical Data

Dimensions LxW:	38 x 5 cm
Bristle sizes LxØ:	5 x 0.025 cm
Max. application temperature:	+50/-0°C
Weight:	0.24 kg



Article No.	Article Description	QTY
5410 121	WASH.BRUSH AUTOMOB.WF 38X5CM	1

Washing Brush Automobile

- For clean and protective wet cleaning of all surfaces
- Without water flow
- With ergonomic handle
- Bristles: soft/split made of polyester
- Resistant against fuel, mineral oil, washing agent, antifreeze agent
- With rubber edge at the front side to prevent damages of sensitive surfaces
- Material: Polypropylene (PP) / Polyester (PBT)

Technical Data

Dimensions LxW:	32 x 11 cm
Bristle sizes LxØ:	4 x 0.025 cm
Max. application temperature:	+50/-0°C
Weight:	0.27 kg



Article No.	Article Description	QTY
5410 122	WASH.BRUSH AUTOMOBILE 32X11CM	1

Wall Suspension Bracket

- For protection and storage of all tools with handle
- 2 hooks + 1 or 4 rubber brackets (depending on model)
- Individually extendable due to side connector system
- Supports max. weight of 10 kg
- Material: polypropylene (PP) / rubber (SEBS)
- Resistant to chemicals in pH range 2-10.5

Article No.	Article Description	QTY
5410 116 1	WALL SUPSPENSION BRACKET 160MM	1
5410 116 2	WALL SUPSPENSION BRACKET 395MM	1



Wall Suspension Universal

- For protection and storage of all tools with handle
- With 3 hangers with soft rubber edges
- Material: Polypropylene (PP) / Rubber (SEBS)

Technical Data	
Dimensions LxHxW:	24 x 5.5 x 16.5 cm
Max. ambient temperature:	+100/-20°C
Weight:	0.22 kg

Article No.	Article Description	QTY
5410 116	WALL SUSPENSION UNIVERSAL	1



Telescopic Hand Automobile/Truck Aluminium

- Ergonomic telescopic handle with water flow and insulated handle
- With 1/2" quick coupling brass chromated, Vikan system
- Handle made of robust, impact-resistant plastic
- Material: Aluminium / Polypropylene (PP)

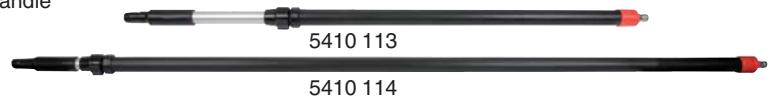
Art. No. 5410 113

- Automobile telescopic handle

Art. No. 5410 114

- Truck telescopic handle

Article No.	Article Description	QTY
5410 113	ALU-TELESC.HANDLE WF 100-160CM	1
5410 114	ALU-TELES.HA.TRUCK WF159-288CM	1



Technical Data		
Art. No.:	5410 113	5410 114
Max. water pressure:	6 bar	6 bar
Max. ambient temperature:	+50/-0°C	+50/-0°C
Max. washing temperature:	100 °C	100 °C
Handle-Ø:	5 cm	5 cm
Steplessly adjustable:	100 - 160 cm	159 - 288 cm
Weight:	0.64 kg	0.97 kg

Telescopic Hand Automobile/Truck Aluminium

- Ergonomic rod with insulated handle
- Handle made of robust, impact-resistant plastic
- Material: Aluminium / Polypropylene (PP)

Art. No. 5410 112

- With water flow
- With 1/2" quick coupling brass chromated, Vikan system

Art. No. 5410 117

- Without water flow

Art.-No. 5410 118

- Plastic rod with thread
- Material: Glass fibre reinforced polypropylene
- Resistant to chemicals up to a pH-level 2-10.5

Article No.	Article Description	QTY
5410 112	ALU-EXTENSION ROD WF 190CM	1
5410 117	ALU-EXTENSION ROD 150CM	1
5410 118	HYGIENIC ROD 150 CM	1



Technical Data			
Art. No.:	5410 112	5410 117	5410 118
Max. ambient temperature:	+50/-0°C	+50/-0°C	+80/-20 °C
Max. water pressure:	6 bar	-	-
Weight:	0.72 Kg	0.51 Kg	0.50 Kg
Rod-Ø:	3.4 cm	3.1 cm	3.4 cm
Length:	190 cm	150 cm	150 cm

Adapter Gardena with Hose Couling

- The adapter connects Vikan handles where water runs through with the Gardena socket system
- Quick coupling for rotation-free working
- Material: Brass chromated

Technical Data

Max. pressure:	25 bar
Max. ambient temperature:	+80/-0 °C
Weight:	0.13 kg



Article No.	Article Description	QTY
5410 167	ADAPTER GARDENA 1/2"	1

Adapter 1/2" with Quick Coupling

- The adapter connects Vikan handles where water runs through with a 1/2" hose
- Quick coupling for rotation-free working
- Material: Brass chromated

Technical Data

Max. pressure:	25 bar
Max. ambient temperature:	+80/-0 °C
Weight:	0.09 kg



Article No.	Article Description	QTY
5410 168	ADAPTER W.QUICK COUPLING 1/2"	1

Screen and Surface Dryer

- For protective drying of e.g. cars, tarpaulins, windscreens etc.
- With rubber lip
- For high surfaces the handle can be extended by the telescopic rod Art. No. 5416 1100

Article No.	Article Description	QTY
5410 140	SCREEN AND SURFACE DRYER L35CM	1



Screen and Surface Dryer Automobile

- For protective drying of e.g. cars, screens, tarpaulins etc.
- Soft rubber, protective to all surfaces
- Does not leave lime residues
- Suitable for Vikan handles
- Ideal application with extension rod Art. No. 5410 117
- Material: Polyacetal (POM) / Rubber (SEBS)

Technical Data

Width:	35 cm
Max. ambient temperature:	+100/-10°C
Weight:	0.21 kg

Article No.	Article Description	Artikel-Bezeichnung	QTY
5410 141	SCREEN AND SURFACE DRYER 35CM		1



Screen and Surface Dryer Truck

- For protective drying of big surfaces e.g. trucks, busses, tarpaulins, screens etc.
- High productivity of big surfaces due to wide wiper blade
- Does not leave lime residues
- Soft rubber, protective to all surfaces
- Suitable for Vikan handles
- Ideal application with rods Art. No. 5410 117 and Art. No. 5410 114
- Material: Polyacetal (POM) / Rubber (SEBS)

Technical Data

Width:	45 cm
Max. ambient temperature:	+100/-10°C
Weight:	0.23 kg

Article No.	Article Description	QTY
5410 142	SCREEN+SURFACE DRY.TRUCK 45CM	1



Rim Brush Truck

- For safe and effective cleaning of double and single steel rims e.g. trucks, busses etc.
- With water flow
- Suitable for Vikan telescopic rods/extensions
- Bristles: soft/split made of polyester
- Resistant against fuel, mineral oil, washing agent, antifreeze agent
- Material: Polyamide (PA) /Polyester (PBT)

Technical Data

Dimension LxW:	23 x 11 cm
Bristle sizes LxØ:	5 x 0.025 cm
Max. ambient temperature:	+50/-0°C
Weight:	0.5 kg

Article No.	Article Description	QTY
5410 133	RIM BRUSH TRUCK WF 23X11CM	1



Wheel and Rim Brush

- Hard-wearing brush
- Long, ergonomically designed, foamed handle
- Universally applicable (wheels, rims, sills, convertible tops etc.)
- Size of brush: LxW: 18 x 10 cm
- Total length: 45 cm



Article No.	Article Description	QTY
5410 131	WHEEL MAND RIM BRUSH - WIDE	1

Angled Rim Brush

- Made of PVC
- Strong brush top
- Length of wooden handle: 40 cm



Article No.	Article Description	QTY
6580 5951	ANGLED PAINT-BRUSH 14/50MM	1 z

Rim Brush

- For cleaning alloy or steel rims
- Flat design
- Easy to handle
- Size LxW: 12 x 6.5 cm
- Total length: approx. 23 cm



Article No.	Article Description	QTY
5410 205	RIM BRUSH 230MM	1

Rim Brush

- Very robust cleaning brush made of plastic
- Ergonomically formed handle
- Thorough and protective cleaning of all types of rims, also rims with small spoke distance
- Resistant against acid and alkalic rim cleaner
- Universally applicable brush due to its special slim construction



Article No.	Article Description	QTY
5410 132	RIM BRUSH 250MM	1

Wheel Rim Brush 330 mm / 65 mm

- For cleaning alloy wheels
- Ergonomically designed handle
- Cone-shaped design for optimal rim cleaning
- Resistant to chemicals to pH 3- 11



Article No.	Article Description	QTY
5410 134	WHEEL RIM BRUSH 330MM/65MM	1

Drinking water and food hose

- approved according to DVGW270 and KTW-A approval
- with approved Geka drinking water couplings
- operating pressure: 20 bar, burst pressure: 60 bar
- temperatures: -15°C to +50°C
- colour: blue

Article No.	Article Description	QTY
5428 6 12 50	RO(50M)DRINK.WATER HOSE 1/2"	1
5428 6 34 50	RO(50M)DRINK.WATER HOSE 3/4"	1



Water Hose PVC

- Working pressure: 10 bar, burst pressure: 30 bar
- Multi-layered PVC water hose
- High-quality design
- Flexible, buckling and torsion resistance
- Temperature range: -10°C to +60°C
- Colour: yellow

Article No.	Article Description	QTY
5428 3 10 25	RO(25M)PVC-WASSERSCHLAUCH 1"	1
5428 3 12 20	RO(20)PVC WATER HOSE 1/2"	1
5428 3 34 25	RO(25M)PVC WATER HOSE 3/4"	1
5428 3 10 50	RO(50M)PVC-WASSERSCHLAUCH 1"	1
5428 3 12 50	RO(50M)PVC WATER HOSE 1/2"	1
5428 3 34 50	RO(50M)PVC WATER HOSE 3/4"	1



Water Hose - No Torsion System®

- Working pressure: 10 bar (3/4" 8 bar), burst pressure: 30 bar (3/4" 24 bar)
- High-quality, 6-layered PVC water hose
- No Torsion System® - reinforcement
- Flexible, buckling and torsion-resistant
- Anti-algae and anti-UV-total protection
- Free of cadmium, barium and lead
- Temperature range: -20 to +60°C
- Full-year performance
- Colour: yellow

Article No.	Article Description	QTY
5428 4 12 50	RO(50M)WATER HOSE NO TORS.1/2"	1
5428 4 34 50	RO(50M)WATER HOSE NO TORS.3/4"	1



Water Hose Rubber

- Working pressure 12 bar
- Standard water hose
- Flexible and buckling resistant
- Temperature range: -20°C to +80°C
- Colour: red

Article No.	Article Description	QTY
5428 5 10 40	RO(40M)RUBBER WATER HOSE 1"	1
5428 5 12 40	RO(40M)RUBBER WATER HOSE 1/2"	1
5428 5 34 40	RO(40M)RUBBER WATER HOSE 3/4"	1



Water Hose EPDM

- Working pressure: 20 bar, burst pressure: 60 bar
- Professional-industry-water hose
- Weather and ozone resistant
- Full-year performance
- Resistant against mild acids and bases polluted water
- Form-resistant highly flexible, robust and universally applicable
- Ideally suited for hot water application
- Temperature range: -40 °C to +120 °C
- Colour: black / orange

Article No.	Article Description	QTY
5428 7 12 40	RO(40M)EPDM WATER HOSE 1/2"	1
5428 7 34 40	RO(40M)EPDM-WATER HOSE 3/4"	1



Water hose reels

- automatic water hose reel
- water hose temperature resistant up to 40°C
- strong, durable springs made from special steel guarantees even and complete rewinding of the hose due to the hose's layer winding system
- exact locking mechanism and stable wall and suspension support come as standard
- suitable for garden, home and hobby as well as for agriculture, car body shops and industry
- particular advantage: no need to drag the hose pipe any more
- quick assembly / disassembly of the wall holder (e.g. theft prevention and prevent freezing up during the winter months) using plug and socket device
- HxWxD: 450 mm x 220 mm x 600 mm
- Diameter inner hose: 11 mm ± 0,5 mm
- Diameter outer hose: 11 mm ± 0,5 mm
- Hose couplings: 1/2"

Article No.	Article Description	QTY
3920 20 3	WATER HOSE REEL II 1/2" 20M	1



Transparent PVC fibre hose

- Operating pressure: 12 bar, burst pressure 36 bar
- Material: PVC with high-strength composite twine insert
- Suitable for air, alkaline fluids, fresh water, sea water, oily water, dirty water
- Suitable for food contact in accordance with Directive 2007/19/EC and EU Ordinance 10/2011
- Rinse thoroughly before first use
- Temperature range: -20 °C to +65 °C



Article No.	Article Description	QTY
5428 8 13 50	RO(50M)PVC FIBRE HOSE TRA.1/2"	1

Construction tube

- Highly abrasion-resistant industrial construction tube with longitudinal ribs in the external rubber ring
- Resistant to solvents, oil and fuel, and to acids and alkalis of medium concentration
- With robust „C“ (52 mm) or „B“ (75 mm) Storz coupling
- For heavy loading throughout the construction sector
- Core: NBR, black, smooth; ceiling: NBR, black, longitudinal ribbing
- Pressure reinforcement: highly resistant white polyester yarn
- Temperature range: -20 °C to +80 °C
- Operating pressure: 17 bar, burst pressure: 50 bar



Article No.	Article Description	QTY
5428 80 52 20	RO(20M)CONSTRUCTION HOSE "C"	1
5428 80 75 20	RO(20M)CONSTRUCTION HOSE "B"	1

Standard construction tube

- Industrial construction tube for standard applications in the construction sector
- With long, reusable, protected Storz couplings

Technical Data

Exterior fabric:	Polyester yarn, 2F woven
Inner liner:	SBR rubber, black, smooth
Temperature range:	-20 °C to +80 °C
Operating pressure:	10 bar
Burst pressure:	30 bar

Article No.	Article Description	QTY
5428 50 20	RO(20M)CONSTR.TUBE.STANDARD"C"	1
5428 75 20	RO(20M)CONSTR.TUBE.STANDARD"B"	1



Coupling key

- Steel, with insulation from cold on handle section
- For B and C couplings

Article No.	Article Description	QTY
5428 10	COUPLING KEY F. C/B COUPLINGS	1



Hose Bridge for B and C Hoses

- Safety hose bridge made of black rubber
- With reflectors
- Robust and flexible
- Load capacity: 20 t
- Weight: 14 kg/pc.
- Dimensions (L x W x H): 865 x 300 x 90 mm

Article No.	Article Description	QTY
5428 84 30	(PAIR)HOSE BRIDGE F."B"+ "C"	1



Hose Element, Brass

- System: Geka
- Made of pressed brass
- With hose element

Article No.	Article Description	QTY
5428 10 10	HOSE ELEMENT BRASS 1"	e 10
5428 10 12	HOSE ELEMENT BRASS 1/2"	1 z
5428 10 34	HOSE ELEMENT BRASS 3/4"	1 z



Threaded Element, Brass

- System: Geka
- Made of pressed brass
- With inside thread

Article No.	Article Description	QTY
5428 10 10 1	THREADED ELEMENT BRASS 1"	e 10
5428 10 12 1	THREADED ELEMENT BRASS 1/2"	1 z
5428 10 34 1	THREADED ELEMENT BRASS 3/4"	1 z



External Threaded Element, Brass

- System: Geka
- Made of pressed brass
- With external thread

Article No.	Article Description	QTY
5428 10 10 3	EXTERN.THREAD.ELEM.BRASS 1"	e 10
5428 10 12 3	EXTERN.THREAD.ELEM.BRASS 1/2"	1 z
5428 10 34 3	EXTERN.THREAD.ELEM.BRASS 3/4"	1 z



Spray Nozzle, Brass

- System: Geka
- Made of pressed brass
- With quick coupling

Article No.	Article Description	QTY
5428 10 10 2	SPRAY NOZZLE BRASS 1"	e 10
5428 10 12 2	SPRAY NOZZLE BRASS 1/2"	1 ü
5428 10 34 2	SPRAY NOZZLE BRASS 3/4"	1 z



Replacement seals

- System: Geka
- made from nitrile rubber

Article No.	Article Description	QTY
5428 10 40	P(10)REPLACEM.SEALS 40MM	1



Water Tap Element

- Gardena connection to water tap
- Easy, problem-free handling without using tools

Article No.	Article Description	QTY
5428 20 12	GARDENA WATER TAP ELEMENT 1/2"	1
5428 20 34	GARDENA WATER TAP ELEMENT 3/4"	1
5428 20 1	GARDENA WATER TAP ELEMENT 1"	1



Hose Element

- Connector for the hose top
- Easy pulling loosens the connection

Article No.	Article Description	QTY
5428 20 12 1	GARDENA HOSE ELEMENT 1/2"	1
5428 20 34 1	GARDENA HOSE ELEMENT 3/4"	1 z



Water Stop / Hose Element

- Adapter for the end of the hose / device adapter
- Decoupling = water stops automatically / connect = water runs

Article No.	Article Description	QTY
5428 20 12 2	GARDENA WATER STOP 1/2"	1
5428 20 34 2	GARDENA WATER STOP 3/4"	1



Coupling

- Gardena coupling
- Hose element to hose element
- For trouble-free hose extension

Article No.	Article Description	QTY
5428 28 13 4	GARDENA COUPLING	1



Spray Nozzle

- Standard spray nozzle
- Steplessly adjustable water jet, from full jet to fine and atomized spray
- With captivated spray sleeve

Article No.	Article Description	QTY
5428 28 20	GARDENA SPRAY NOZZLE	1



Gardena stop regulator 1/2"

- Connection for hose end
- Simply pull off to disconnect
- Enables switching between different devices
- Easy adjustment of water flow
- Devices can be changed even with high water pressure

Article No.	Article Description	QTY
5428 20 12 3	GARDENA STOP REGULATOR 1/2"	1



Water Fitting-Set

- Gardena basic set for 1/2" water tube

Article No.	Article Description	QTY
5428 20 5	GARDENA WATER FITTINGS SET	1

Contents

- 1x water hose element
- 1x adapter
- 1x hose element
- 1x water stop
- 1x spray nozzle



Multi-flow spray- and blowgun

- spray- and blow gun for compressed air and liquid flow
- for the effective and quick cleaning and cooling of surfaces for CNC processing, metal work, car preparation etc.
- can be used with all water-based, non-explosive liquids (cooling lubricant etc.) and compressed air
- the adjustable jet nozzle guarantees a precisely regulated flow from the finest to the broadest jet
- the rate of flow is pre-set using the variable flow regulator
- energy and time are saved when used repeatedly
- the ergonomic and non-slip rubber handle means that work is both safe and fatigue-free
- suitable for long-term loads due to the tool's sturdy housing
- impact and break-resistant
- the integrated sound absorption reduces the noise level and the risk of rebound when uncoupling
- fulfils the safety standards (OHS) of the Agency for safety and health in the workplace
- suitable plug-in nipple:
 - air flow / cooling lubricants art. no. 3926 14 1
 - water: Art. no. 5410 165



3926 14 1



5410 165

Technical Data

connection:	1/4" IG
air flow rate:	200 – 1200 l/min
liquid flow rate:	5 – 25 l/min
air noise level:	79 – 101 dB(A)
max operating pressure:	16 bar
min burst pressure:	64 bar
material:	polyoxymethylene (POM) thermoplastic elastomere (TPE), aluminium nitrile(NBR)
sealing material:	nitrile(NBR)
temperature range (16 bar):	-20 to +60°C
temperature range (10 bar):	-20 to +80°C
medium:	air flow and non explosive water-based fluids

Article No.	Article Description	QTY
3945 3	MULTI-FLOW SPRAY- AND BLOWGUN	1



Bin Bags

- Delivery mode: Role per 25 pcs
Art.-No. 5419 92:
- Delivery mode: Role per 15 pcs
Art. No. 5419 98 1:
- For small bins, with strap
- Delivery mode: Role per 50 pcs



Technical Data						
Article-No.:	5419 92	5419 93	5419 95	5419 96	5419 97	5419 98 1
Colour:	blue	blue	blue	blue	transparent	white
Dimensions:	700 x 1,100 mm	700 x 1,100 mm	700 x 1,100 mm	700 x 1,100 mm	700 x 1,100 mm	500 x 600 mm
Volume:	120 l	120 l	120 l	120 l	120 l	30 l
Foil thickness:	0.075 mm	0.038 mm	0.060 mm	0.080 mm	0.060 mm	0.018 mm
Material:	LDPE-LLDPE New material + Regenerated	LDPE Regenerated	LDPE Regenerated	LDPE Regenerated	LDPE Regenerated	HDTE New material

Article No.	Article Description	QTY
5419 92	RO(15)BIN BAGS BLUE 75MM 120L	e 10
5419 93	RO(15)BIN BAGS BLUE 38MM 120L	e 10
5419 95	RO(25)BIN BAGS - BLUE 120L	e 10
5419 96	RO(25)BIN BAGS PROF.BLUE 120L	e 10
5419 97	RO(25)BIN BAGS TRANSPAR.120L	e 10
5419 98 1	RO(50)BIN BAGS WHITE 18MM 30L	e 30

60 litre rubble sack

- extra strong
- material: LDPE
- delivery mode: Box with 100 pieces



Technical Data	
colour:	blue
dimensions (mm):	500 x 850
litre:	approx. 60
foil thickness (mm):	0.15

Article No.	Article Description	QTY
5419 94	CT(100)RUBBLE BAGS BLUE 60L	1

Bin Bags for Paper Towels

- Material: LDPE
- For disposing of paper towels and light waste
- Suitable for wire mesh bins with a circumference of 1,260 mm
- Delivery: Box of 360 units

Technical Data	
Colour:	white
Dimensions (mm)	630 x 850
Litres:	approx. 60
Film thickness (mm)	0.013

Article No.	Article Description	QTY
5419 91	KT(360)HOSTESSBAG WHITE 60L	1



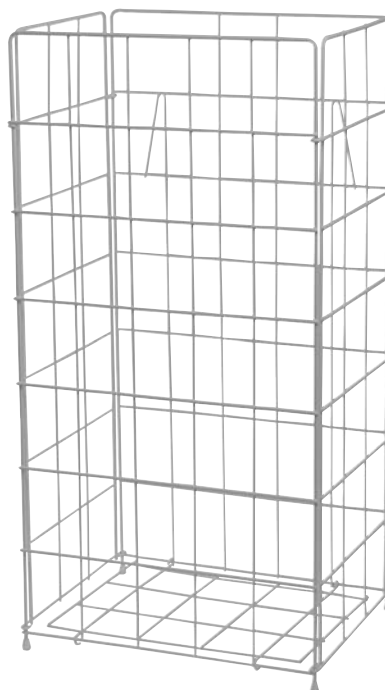
Mesh waste basket 52 litres

- Painted white
- Collapsible
- Wall-mounting possible

Technical Data

Volume:	52 l
Dimensions, (H x W x D):	640 × 330 × 255 mm

Article No.	Article Description	QTY
5413 92	MESH WASTE BASKET	1



240 litre recycling bag

- suitable for all normal bins
- for disposing of rubbish or gathering recyclable material
- material: LDPE
- delivery mode: Box with 50 pieces

Technical Data

Colour:	blue
Dimension (mm):	650 x 550 x 1350
Litre:	240
Foil thickness (mm):	0.08

Article No.	Article Description	QTY
5419 240	CT(50)RECYCLING BAG 240L	1



Recycling bags 1 m³ and 2.5 m³

- ideal for collecting recyclable material such as polystyrene, foil, insulations etc. and for disposing of light rubbish

Technical Data

Article-No.:	5419 1000	5419 2500
Colour:	clear-transparent	clear-transparent
Dimensions (mm):	900 x 600 x 2000	1250 x 850 x 2600
Volumes:	1 m ³	2.5 m ³
Foil thickness (mm):	0.08	0.08

Article No.	Article Description	QTY
5419 1000	CT(30)RECYCLING BAG 1M ³	1
5419 2500	CT(20)RECYCLING BAG 2.5M ³	1



BIG BAG

- Specially made for disposing of large volumes of construction waste
- Closed bottom
- 4 lifting straps
- Open top (Art.-No. 8774 2 2, Art.-No. 8774 2 3)
- Filling apron for tying up (Art.-No. 8774 2 1)

Technical Data

Art.-No.	Dimension (mm)	Load capacity (kg)	Safety factor
8774 2 1	900 × 900 × 1.100	1.000	5:1
8774 2 2	900 × 900 × 1.100	1.000	5:1
8774 2 3	900 × 900 × 900	1.500	5:1



8774 2 1

8774 2 2
8774 2 3

Article No.	Article Description	QTY
8774 2 1	BIG-BAG W.APRON 900X900X1100	10
8774Y 2 1	PAL(400)BB W.APR.900X 900X1100	1
8774 2 2	BIG-BAG B.OPEN 900X900X1100	10
8774Y 2 2	PAL(400)BB B.OPEN 900X900X1100	1
8774 2 3	BIG-BAG STONE 900X900X900	10
8774Y 2 3	PAL(400)BB STONE 900X900X 900	1

Mineral fibre sack

- specially made for disposing of mineral fibre insulation (KMF)
- sealing band in the seam
- meets the TRGS 521 guideline (working with hazardous particulate materials)

Article No.	Article Description	QTY
8774 3 1	MINERAL FIBRE SACK 1400X2200	20
8774Y 3 1	PAL(750)MINERAL FIBRE1400X2200	1



Asbestos BAG

- Specially made for disposing of asbestos debris and asbestos cement panels
- The BAGs satisfy TRGS 519 requirements (working with asbestos)
- Dust-proof using coated PP fabric
- Closed bottom
- Filling apron for tying up
- 4 lifting straps
- SF 5:1
- With asbestos imprint



8774 1 5

Technical Data

Art.-No.	Dimensions (mm)	Load capacity(kg)	Safety factor (SF)
8774 1 5	900 × 900 × 1100	1,000	5:1
8774 1 1	1,250 × 2,600 × 300	1,500	5:1
8774 1 2	1,250 × 3,200 × 300	1,500	5:1

Article No.	Article Description	QTY
8774 1 5	ASBESTOS BIG BAG 900X900X1100	10
8774Y 1 5	PAL(400)ASBE.BB 900X900X1100	1
8774 1 1	ASBESTOS BIG BAG1250X2600X300	5
8774Y 1 1	PAL(200)ASBE.BB 1250X2600X300	1
8774 1 2	ASBESTOS BIG BAG1250X3200X300	5
8774Y 1 2	PAL(200)ASBE.BB 1250X3200X300	1



8774 1 1

8774 1 2

Sweeping machine 355

- For use in trade and industrial operations up to 500 m²
- Inverse plate brushes sweep material directly into the collection container
- Turbo sweeping system for coverage of up to 1,600 m² per hour
- Variable height adjustment
- Large 20-litre container

Technical Data

Sweeping width: 55 cm
Container volume: 20 l
Brush drive: manual
Weight: 7.2 kg



Article No.	Article Description	QTY
5335 4 355	SWEEPING MACHINE 355	1

Workshop Broom Wood/PVC

- Bristle made of PVC
- With thread
- Resistant to petrol, mineral oil, detergent, anti-freeze agents, acid resp. alkaline solution
- pH value resistant in utility solution 3 – 11
- Handle: Art.-No. 5410 117, 5410 118

Article No.	Article Description	QTY
5410 44	WORKSHOP BROOM WOOD/PVC 44CM	1
5410 665	WORKSHOP BROOM WOOD/PVC 66.5CM	1



Plastic Broom Universal hard / soft

- Material: Polypropylene, Polyester, SS
- Bristle hardness: front hard / back soft
- Brushing and sweeping at the same time
- With threaded connection
- pH-value resistant in standard solution 2 - 10.5
- Handle: Art.-No. 5410 117, 5410 118

Article No.	Article Description	QTY
5410 41 1	BROOM UNI SOFT/HARD 41CM	1
5410 61 1	BROOM UNI SOFT/HARD 61CM	1



Broom plastic universal soft

- Material: Polypropylene, polyester, stainless steel
- Bristle type: soft
- With thread
- pH value constant in working solution 2 – 10.5
- Handle: Art.-No. 5410 117, 5410 118

Article No.	Article Description	QTY
5410 43 5	BROOM PLASTIC UNI SOFT 43.5CM	1
5410 61 2	BROOM PLASTIC UNI SOFT 61CM	1



Salon Broom Mixture

- 4-hole-system
- Black bristles
- Wood: red painted
- Fine

Article No.	Article Description	QTY
5417 5 28	SALON BROOM MIXT. 4-H-SYST28CM	1



Salon Broom

- 4-hole-system
- Mixture, fine and very sensitive

Article No.	Article Description	QTY
5417 5 40	SALON B.MIXTURE 4-H-SYSTEM40CM	1
5417 5 60	SALON B.MIXTURE 4-H-SYSTEM60CM	1



Street Broom Elaston

- 4-hole-system
- Flat wood

Article No.	Article Description	QTY
5417 5 29	STR.BROOM ELASTON 4-H-SYS.29CM	1



Hall Broom Elaston

- 4-hole-system

Article No.	Article Description	QTY
5417 5 40 1	HALL BROOM ELAS.4-H-SYS.40CM	1
5417 5 60 1	HALL BROOM ELAS. 4-H-SYS.60CM	1
5417 5 80 1	HALL BROOM ELAS. 4-H-SYS.80CM	1



Workshop Broom

- 4-hole-system
- For demanding conditions

Article No.	Article Description	QTY
5417 5 40 2	WORKSHOP B.ARENGA 4-H-SYS.40CM	1
5417 5 60 2	WORKSHOP B.ARENGA 4-H-SYS.60CM	1



Water Pusher - Wood

- 4-hole-system

Article No.	Article Description	QTY
5417 5 40 4	WATER PUSHER 4-H-SYSTEM 40CM	1
5417 5 60 4	WATER PUSHER 4-H-SYSTEM 60CM	1
5417 5 80 4	WATER PUSHER 4-H-SYSTEM 80CM	1



Swab 4-hole

- 4-hole-system

Article No.	Article Description	QTY
5417 5 22	SWAB 4-H-SYSTEM 22CM	1



Wiper 4-hole

- 4-hole-system
- 5 rows

Article No.	Article Description	QTY
5417 5 40 3	WIPER 4-HOLE-SYSTEM 40CM	1



Stem Aluminium/Wood

- 4-hole-system

Article No.	Article Description	QTY
5417 5 140	STEM ALU. 4-HOLE SYSTEM 130CM	1
5417 5 140 1	STEM WOOD 4-HOLE SYSTEM 140CM	1
5417 5 155	STEM WOOD 4-HOLE SYSTEM 155CM	1



Hall Broom Coco

- With thread
- Stem: Art.-No. 5417 9 120 1, 5417 9 120 2, 5417 9 120 3, 5417 9 140 3

Article No.	Article Description	QTY
5417 2 28 2	HALL BROOM WITH THREAD 28CM	1



Hall broom Elaston with metal holder

- Stem: Art.-No. 5417 9 140 4
- Metal holder: ø 24 mm

Article No.	Article Description	QTY
5417 3 40 2	HALL BROOM ELASTON 40CM	1
5417 3 60 2	HALL BROOM ELASTON 60CM	1



Salon broom with metal holder

- Bristles: mixture
- Fine, very sensitive
- Stem: Art.-No. 5417 9 140 4
- Metal holder: ø 24 mm

Article No.	Article Description	QTY
5417 2 40 1	SALON BROOM MIXTURE 40CM	1
5417 2 60	SALON BROOM MIXTURE 60CM	1



Workshop broom Arenga with metal holder

- For robust usage
- Stem: Art.-No. 5417 9 140 4
- Metal holder: ø 24 mm

Article No.	Article Description	QTY
5417 3 40 1	WORKSHOP BROOM ARENGA 40CM	1
5417 3 60 1	WORKSHOP BROOM ARENGA 60CM	1
5417 3 80	WORKSHOP BROOM ARENGA 80CM	1
5417 3 100	WORKSHOP BROOM ARENGA 100CM	1



Street Broom

- Synthetic bristles, red
- Flat wood
- Stem: 5417 9 140 5

Article No.	Article Description	QTY
5417 2 32	STREET BROOM RED 32CM	1
5417 2 40	STREET BROOM RED 40CM	1
5417 2 60 1	STREET BROOM RED 60CM	1



Piassava street broom

- Piassava bristles
- Head with handle hole
- Handle: Art.-No. 5417 9 140 5

Article No.	Article Description	QTY
5417 2 40 2	PIASSAVA STREET BOOM 40CM	1



Hand Brush Plastic

- Material: Polypropylene, PBT
- Bristle hardness: soft
- Length: 33 cm
- Resistant to chemicals in pH range 3 - 12

Article No.	Article Description	QTY
5410 33	HNADBRUSH PLASTIC LENGTH:33CM	1



Hand Brush

Art. No. 5417 40:

- Black
- Mixed bristles

Art. No. 5417 45:

- Coco
- Long stem

Article No.	Article Description	QTY
5417 40	HAND BRUSH MIXTURE	1
5417 45	HAND BRUSH COCO 45CM	1



Dustpan Plastic

- Material: Polypropylene
- Length: 33 cm
- Resistant to chemicals in pH range 2 – 10.5

Article No.	Article Description	QTY
5410 33 1	DUSTPAN PLASTIC LENGTH: 33CM	1



Dustpan

- Full-Metal
- Length: 24.5 cm
- Resistant to chemicals in pH range 2 - 12

Art.-No. 5417 22

- With wooden handle

Article No.	Article Description	QTY
5410 245	DUSTPAN METALLIC 24.5CM	1
5417 22	DUSTPAN 22CM	1



Stem - Wooden

Art.-No. 5417 9 120 1:

- Wooden Ø 24 mm with thread
- Length: 120 cm

Art.-No. 5417 9 140 4:

- Wooden Ø 24 mm
- Length: 140 cm

Art.-No. 5417 9 140 5

- Wooden cone Ø 28 mm
- Length: 140 cm
- Robust model



Article No.	Article Description	QTY
5417 9 120 1	STEM WOOD.W.METAL THREAD120CM	1
5417 9 140 4	STEM WOODEN 140CM	1
5417 9 140 5	STIEL WOODEN CONE Ø28 140CM	1

Stems - Metal/Aluminium

Art.-No. 5417 9 120 2:

- Metal with thread
- Plastic coating
- Length: 120 cm

Art.-No. 5417 9 140 3:

- Metal with thread
- Plastic coating
- Length: 140 cm

Art.-No. 5417 9 120 3

- Aluminium with thread
- Upper half plastic coated
- Length: 140 cm



Article No.	Article Description	QTY
5417 9 120 2	STEM - METAL WITH THREAD 120CM	1
5417 9 120 3	STEM - ALU.WITH THREAD 120CM	1
5417 9 140 3	STEM - METAL WITH THREAD 140CM	1

Plastic Scrubber

- With thread
- Material: Polypropylene, polyester, SS
- L x W: 30.5 x 8.5 cm
- Resistant to chemicals to pH2 - 10.5
- Handle: Art.-No. 5410 117, 5410 118



Article No.	Article Description	QTY
5410 305	PLAST.SCRUBBER W.THREAD 30.5CM	1

Swab

- With thread
- Natural fibre
- Stem: Art.-No. 5417 9 120 1, 5417 9 120 2, 5417 9 120 3, 5417 9 140 3



Article No.	Artikel-Bez	Article Description	eichnung	QTY
5417 7 22		SWAB WITH THREAD 22CM		1

Wiper

- With thread
- 5 rows
- Stem: Art.-No. 5417 9 140 4



Article No.	Article Description	QTY
5417 7 40	WIPER 5 ROWS 40CM	1

Pad mob

- Pads fixed by retractable stainless steel hooks
- For cleaning walls and floors
- Suitable for removing stubborn dirt
- Handle: Art.-No. 5410 117, 5410 118
- Material: polypropylene (PP), stainless steel
- Dimensions: 23.5x10 cm
- Resistant to chemicals in pH range 2-8
- Art.-No. 5410 235 1**
- Suitable for removing dirt on smooth surfaces or glass panes
- Material: polyester
- Dimensions: 24.5x12 cm



5410 235



5410 235 1

Article No.	Article Description	QTY
5410 235	PAD HOLDER 235 MM	1
5410 235 1	PAD SOFT	10

Hand-held Pad Mop

- Fixed in place by recessed stainless steel hooks
- For cleaning walls and floors
- Suitable for removing stubborn dirt
- Material: Polypropylene (PP), stainless steel
- Dimensions: 23.5 x 10 cm
- Resistant to chemicals in pH range 2-8
- Suitable pad: Art.-No. 5410 235 1



Article No.	Article Description	QTY
5410 235 2	HANDHOLDER HANDHELD 235MM	1

Plastic Rubber Squeegee

- Applicable for all smooth floor types
- Material: Polypropylene (PP)
- Handle: Art.-No. 5410 117, 5410 118
- Dimensions L x W: 70 x 8 cm
- resistant to chemicals to pH 2 - 10.5

Art. No. 5410 871:

- Material: Polypropylene, cellulose rubber
- Dimensions: L x B: 70 x 3 cm
- resistant to chemicals to pH2 - 10.5

Article No.	Article Description	QTY
5410 70 1	PLAST.RUBBER SQUEEGEE 70 CM	1
5410 70 2	REPLACEM.INSERT F.RUB.SQ.70CM	1



5410 70 1



5410 70 2

Rubber Wiper

- Metal
- Reinforced stem holder
- Stem: 5417 9 140 4 / 5417 9 140 5

Article No.	Article Description	QTY
5417 8 45 1	RUBBER WIPER 45CM	1 z
5417 8 75	RUBBER WIPER 75CM	1



Rubber Wiper - Wood

- With metal holder
- Stem: 5417 9 140 5

Article No.	Article Description	QTY
5417 8 60	RUBBER WIPER - WOOD 60CM	1



Hand Brush

Art.-No. 5410 10 45:

- Material: Polypropylene, Polyester, SS
- Bristle hardness: hard
- Length: 12 cm
- Resistant to chemical in pH range 3 - 11

Art.-No. 5417 10 3:

- Grip: plastic, bristles: nylon

Art.-No. 5410 90:

- Grip: plastic, bristles: nylon

Art.-No. 5417 10 2:

- Grip: wood, bristles: nylon

Article No.	Article Description	QTY
5410 10 45	HAND BRUSH PLASTIC 12X4.5CM	1
5417 10 3	HAND WASHING BRUSH PLASTIC	1
5410 90	HAND BRUSH PA/PP 9X4CM	1 z
5417 10 2	HAND WASHING BRUSH WOOD	1 z



5410 10 45



5417 10 3



5410 90



5417 10 2

Hand-cleaning rotation brush

- Innovative round hand-cleaning brush
- "3D finger-tip cleaning"
- All 5 finger-tips are simultaneously cleaned front and back by the movement of the rotation
- The removable inner section can be used as a conventional nail-brush
- Medium-hard nylon brushes ensure gentle but thorough cleaning
- Can be used with conventional hand-cleaners

Article No.	Article Description	QTY
5410 91	ROTATIONS-HANDREINIGUNGSBÜRSTE	1



Mudguard Brush Plastic

- Material: Polypropylene, PBT
- Bristle hardness: soft / frayed
- Length: 42 cm
- Resistant to chemicals in pH range 3 – 11

Article No.	Article Description	QTY
5410 42	MUDGUARD BRUSH PLASTIC 42CM	1



Mudguard Brush

- Natural fibre

Article No.	Article Description	QTY
5417 10	MUDGUARD BRUSH	1



Washing Brush S-Form

- Natural fibre

Article No.	Article Description	QTY
5417 10 1	WASHING BRUSH S-FORM	1



Animal Hairbrush

- Animal hairbrush with special rubber bristles for easy and fast removal of animal hair from all textile surfaces such as car seats, upholstery and carpets
- Provided with practical plastic handle
- Can vary in terms of colour

Article No.	Article Description	QTY
5410 210	ANIMAL HAIRBRUSH	1 z



Round Brush

- For all cleaning works (through holes, nozzles etc.)
- Length: 150 mm
- Brush length: 100 mm
- Diameter: 15 mm

Article No.	Article Description	QTY
5363 3	PK(3)CLEANING BRUSHES 100X15	1



Interior Brush

- Made from soft animal fibre
- For cleaning vents
- With brush guard

Article No.	Article Description	QTY
5410 5	INTERIOR BRUSH	1



Rechargeable Power Accu - VARTA

- Rechargeable nickel-metal-hydride batteries
- Higher performance than primary cells under extreme strain
- Rechargeable up to 1000 times
- Fast chargeable

Art.-No. 3883 12 1 and 3883 12 3:

- Immediately read-for-use on delivery

Technical Data

Art.-No.	Description:	Capacity mAh
3883 12	Mono (D)	3,000
3883 12 1	Mignon (AA)	2,100
3883 12 2	Baby (C)	3,000
3883 12 3	Micro (AAA)	800
3883 9	E-Block 9V	200



Article No.	Article Description	QTY
3883 12	MONO-ACCU(D) 1.2V	2
3883 12 1	MIGNON-ACCU(AA) 1.2V	i 20
3883 12 2	BABY-ACCU(C) 1.2V	2
3883 12 3	MICRO-ACCU(AAA) 1.2V	2
3883 9	E-BLOCK-ACCU 9V	1

Power Battery

- Pre-charged power battery!
- Unpack - Insert - Use!
- More than 1 year usable after every charging!
- Extremely low self-discharge!
- Ideal for all devices!
- Rechargeable nickel-metal-hydride batteries
- No memory effect
- Fast-chargeable
- Can be recharged up to 1000 times

Technical Data

Art.-No.	Description	Description
3883 12 4	Mono (D)	Mono (D)
3883 12 5	Mignon(AA)	Mignon(AA)
3883 12 6	Baby (C)	Baby (C)
3883 12 7	Micro (AAA)	Micro (AAA)
3883 9 1	E-Block 9V	E-Block 9V



Article No.	Article Description	QTY
3883 12 4	MONO-POWER-BATTERY(D) 1.2V	2
3883 12 5	MIGNON-POWER-BATTERY(AA) 1.2V	2
3883 12 6	BABY-POWER-BATTERY(C) 1.2V	2
3883 12 7	MICRO-POWER-BATTERY(AAA) 1.2V	2
3883 9 1	E-BLOCK-POWER-BATTERY 9V	1

USB Vehicle Charging Socket 12 / 24 V

- compact universal USB charging socket
- Power-LED

Technical Data

Input:	12 / 24V
Output voltage:	5V
Output current:	max. 1,000 mA



Article No.	Article Description	QTY
5423 53 3	USB VEH.CHARG.SOCK 12/24V 1A	1

Battery Charger LCD Ultra-Fast 15 Min.

- **Pre-charged batteries: unpack - insert - use**
- Blue LCD display with LED background lighting as charging status indicator
- 4 different functions: charging, discharging, refreshing and capacity test
- Chargeable batteries: 1-4 units Micro (AAA), Mignon (AA)
- Chargeable technologies: Ni-MH
- Single bay charging: individually controlled charging bays allow charging batteries of different design size and charging status simultaneously (each battery is separately monitored)
- Comprehensive safety properties: Minus Delta U switch-off, safety timer, short-circuit protection, alkaline detector
- Charging time: 15 minutes to max. 46 minutes
- Temperature control and fan function
- Lateral finger grip recess for safe removal of the battery
- With 12 Volt adapter for connection to car cigarette lighter for charging



Article No.	Article Description	QTY
3883 15	BATTERY CHARGER,LCD,ULTRA-FAST	1

Scope of delivery:

Battery charger with 4x Mignon battery (AA) 2,400 mAh, 230 V power adapter, 12 V adapter

LCD Battery Charger Plug

- **Pre-charged batteries: unpack - insert - use**
- Blue LCD display with LED background lighting: For charging status, 9 V and USB display
- Chargeable batteries: Micro (AAA), Mignon (AA), E-Block 9V, USB devices
- Chargeable technologies: NI-MH
- Comprehensive safety properties: Minus Delta U switch-off, safety timer, short-circuit protection, alkaline detector
- Charging time: approx. 1.5-9.0 hours
- Additional USB output
- Lateral finger grip recess for safe removal of the battery
- For Europe and other countries with 230V, 50 Hz



Article No.	Article Description	QTY
3883 16	BATTERY CHARGER,LCD,PLUG CHARG	1

Scope of delivery:

Battery charger with 4x Mignon battery (AA) 2400 mAh, 230 V power adapter

LCD Universal Charger

- Blue LCD display with LED background lighting: for charging status, 9 V and USB display
- Chargeable batteries: Micro (AAA), Mignon (AA), C (BABY), D (MONO), 9 V (E-Block), USB-Devices
- Chargeable technologies: Ni-MH
- Free loading bays may be used for AA or AAA batteries while 9 V batteries are charged
- Comprehensive safety properties: Minus Delta U switch-off, safety timer, short-circuit protection, alkaline detector
- Charging time: approx. 1,5 – 8,0 hours
- Detection of inappropriate or faulty cells
- Additional USB output
- **Designed for global use 110 - 240 V, 50/60 Hz**



Article No.	Article Description	QTY
3883 17	BATTERY CHARGER LCD UNIVERS.C	1

Scope of delivery:

Battery charger, 100 – 240 V power adapter

Batteries VARTA Alkaline

- Free of mercury and cadmium, for devices with high power consumption and continuous usage

Article No.	Article Description	QTY
3880 15	BATTERY ALKALINE MONO 1,5V	e 20
3880 15 1	BATTERY ALKALINE MIGNON 1,5V	v 40
3880 15 2	BATTERY ALKALINE BABY 1,5V	e 20
3880 15 3	BATTERY ALKALINE MICRO 1,5V	e 10
3880 15 4	BATTERY ALKALINE LADY 1,5V	1
3880 9	BATTERY ALKALINE E-BLOCK 9V	e 20
3880 12	BATTERY ALKALINE V 23 GA 12V	e 10
3880 45	BATTERY ALKAL.STAND. 4.5V	e 10



Batteries **ECO**

- Free of mercury and cadmium, for devices with high power consumption and continuous usage

Article No.	Article Description	QTY
3880N 15	BATTERY ALKAL.MONO 1,5V F-ECO	i 12
3880N 15 1	BATTERY ALKAL.MIGN.1,5V F-ECO	v 24
3880N 15 2	BATTERY ALKAL.BABY 1,5V F-ECO	i 24
3880N 15 3	BATTERY ALKAL.MICRO 1,5V F-ECO	v 24
3880N 9	BATTERY ALKAL.E-BLOCK 9V F-ECO	e 10
3880N 45	BATTERY ALKAL.NORM 4,5V F-ECO	e 12



VARTA Lithium Batteries

Art.-No.3886 2:

- for digital and analogue cameras as well as for flashes and electronic door closers

Art.-No. 3886 123:

- for digital and analogue cameras as well as for flashes



Technical Data	
description	capacity (mAh)
CR2	920
CR123A	1600

Article No.	Article Description	QTY
3886 2	VARTA LITHIUM CR2 3V	e 10
3886 123	VARTA LITHIUM CR123A 3V	e 10

Coin Cells

- Assignment of coin cells for vehicle key lamps
- Remote controls must be taken from the technical data of the car manufacturer



Article No.	Article Description	QTY
3882 20	COIN CELL VARTA V393 1,55V	e 10
3882 22	COIN CELL V357/SR44W 1.55V	e 10
3882 23	COIN CELL 625U 1,5V	e 10
3882 24	COIN CELL CR 1620 3V	e 5
3882 25	COIN CELL CR 2016 3V	e 5
3882 26	COIN CELL CR 2025 3V	e 5
3882 27	COIN CELL CR 2032 3V	e 5
3882 28	CT(10)COIN CELL AG 3/LR41 1,5V	1
3882 29	COIN CELL CR 1632 3V	e 10
3882 30	COIN CELL CR 1220 3V	e 5
3882 31	BLI(1)COIN CELL LR43 1,5V	1
3882 32	COIN CELL LR44/AG13 1.5V	i 10
3882 33	COIN CELL CR 1616 3V	e 5
3882 35	COIN CELL CR 2450 3V	1
3882 36	COIN CELL CR 2430 3V	e 10
3882 37	COIN CELL CR 1/3N/CR 11108 3V	1
3882 38	COIN CELL PANASON.CR. 2354 3V	e 12

Technical Data

Art.-No.	Outer-Ø x strength in mm
3882 20	7,75 x 5,3
3882 22	11,48 x 5,3
3882 23	15,44 x 5,86
3882 24	1594 x 2,0
3882 25	19,9 x 1,58
3882 26	20,0 x 2,42
3882 27	20,0 x 3,14
3882 28	7,8 x 3,5
3882 29	16,0 x 2,1
3882 30	12,46 x 2,0
3882 31	11,5 x 4,1
3882 32	11,4 x 5,3
3882 33	15,9 x 1,6
3882 35	24,4 x 4,9
3882 36	24,4 x 2,9
3882 37	11,5 x 10,5
3882 38	23,0 x 5,4

Explosion-proof classifications

Explosive zones – Explosion groups – Temperature classes

Introduction:

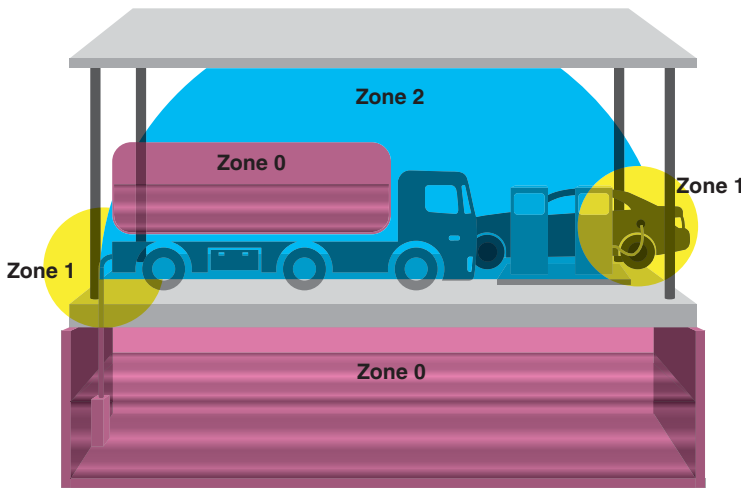
Explosive areas are divided up into zones based on the frequency and duration of dangerous explosive atmospheres. The operating equipment is divided into equipment groups and categories. A certified device's nameplate indicates the zones in which the explosion-proof operating equipment may be used.

Sub-division into equipment groups:

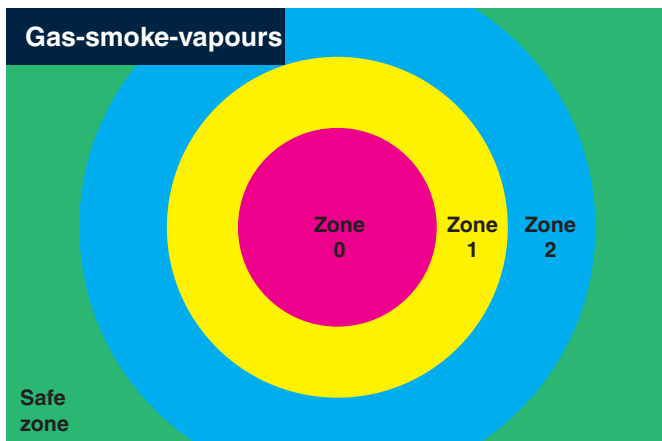
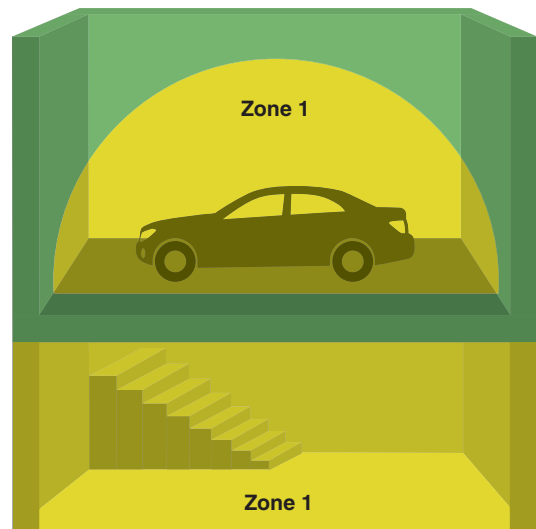
Devices designed for use in explosive atmospheres are divided into two groups. Group I includes devices for mining operations endangered by firedamp. Group II includes all devices which can be used in atmospheres with explosive gases and dusts.

Sub-division into zones:

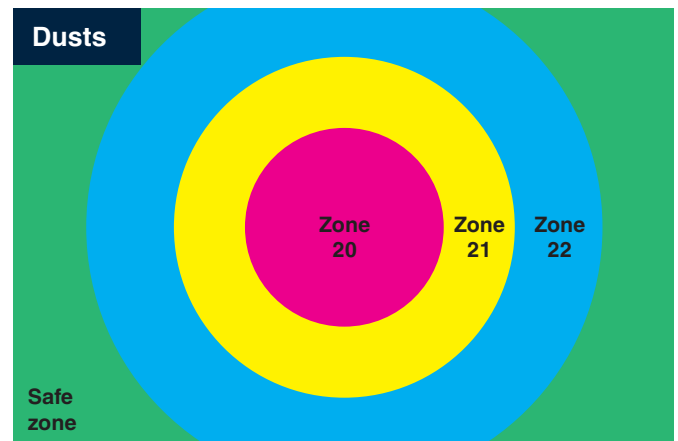
The explosive areas are sub-divided into six zones. The classification is based on the probability that a dangerous explosive atmosphere will occur and its expected frequency and duration. We differentiate between flammable gases, smoke, steam, and flammable dusts. Zones 0, 1 and 2 apply to gas-smoke-vapours, with the requirements on the operating equipment used there increasing from zone 2 to 0. The operating equipment for zone 0 must be built in a way that guarantees adequate explosion protection even if a type of ignition protection fails or if two faults occur. Zones 20, 21 and 22 apply to dusts, with the requirements on the operating equipment used there increasing from zone 22 to 20. The operating equipment for zones 20 and 21 must be specially certified for this application.



Example: Petrol station with explosive zones, garage with explosive zones



Typical zone progression, formed by a petrol drum with filling in a closed space.



Typical zone progression, formed by a grain silo with filling in a closed space.

Sub-division into equipment categories:

The equipment categories are used to determine which operating equipment may be used in which zones. We differentiate between a total of six equipment categories. Categories 1G, 2G and 3G are classifications for gas explosion protection. (G = Gas). Categories 1D, 2D and 3D form categories for dust explosion protection (D = Dust)

Equipment category	Zone suitability	Description
1G	0, 1, 2	Devices in this category must be designed in a way that guarantees a very high level of safety. Devices in this category must also ensure the required degree of safety for rarely occurring malfunctions. Ignition must not occur; not even if two faults occur simultaneously on the device.
1D	20, 21, 22	
2G	2, 1	Devices in this category must be designed in a way that guarantees a very high level of safety. Devices in this category must guarantee the required level of safety for frequently or typically expected malfunctions (device defects) and must avoid ignition sources.
2D	21, 22	
3G	2	Devices in this category must be designed in a way that guarantees a normal level of safety. Devices in this category must guarantee the required level of safety for foreseeable malfunctions (device defects) and must avoid ignition sources.
3D	22	

Explosion groups, temperature classes:

While the equipment group and category are used to determine the zones in which a device may be used, the explosion group and temperature class determine the media for which the device may be used within the zones. The type of ignition protection, however, does not represent a quality feature, but is rather a selected structural solution for achieving explosion protection.

Sub-division into explosion groups:

Depending on the type of ignition protection, explosion-proof operating equipment for gases, mist and vapours is divided into three explosion groups (IIA-IIB-IIC). The explosion group is a scale for measuring the potential of gases to ignite (explosive atmospheres). The requirements for the operating equipment increase from IIA to IIC (see Figure 1).

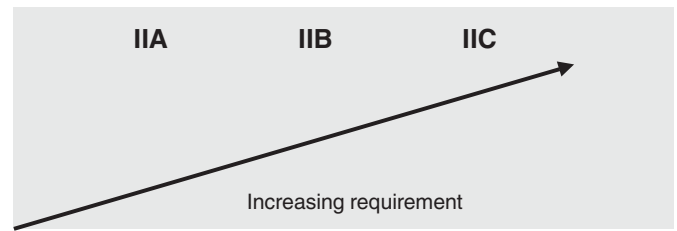


Figure 1: Sub-division into explosion groups

Sub-division into temperature classes:

Explosive operating equipment installed within explosive zones is sub-divided into six temperature classes (T1 to T6). The temperature class is not – as is often incorrectly interpreted – the usage temperature of the operating equipment, but rather the maximum surface temperature permitted on the equipment, which, based on + 40 °C ambient temperature, must not be exceeded anywhere on the surface at any time. The maximum surface temperature must always be lower than the ignition temperature of the surrounding medium. The requirements for the operating equipment increase from T1 to T6 (see Figure 2).

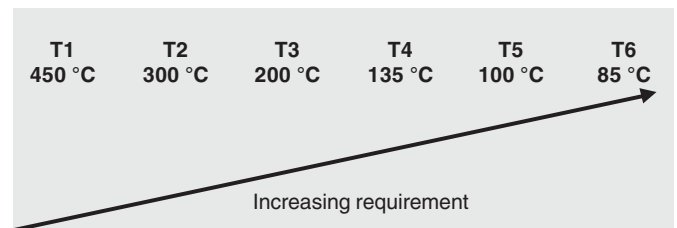


Figure 2: Sub-division of the temperature classes in the explosive area

Protection types

The abbreviation IP (International Protection) and a two-digit identifier define the protection class of a housing.

1. Numerical protection levels against the penetration of foreign bodies and dust

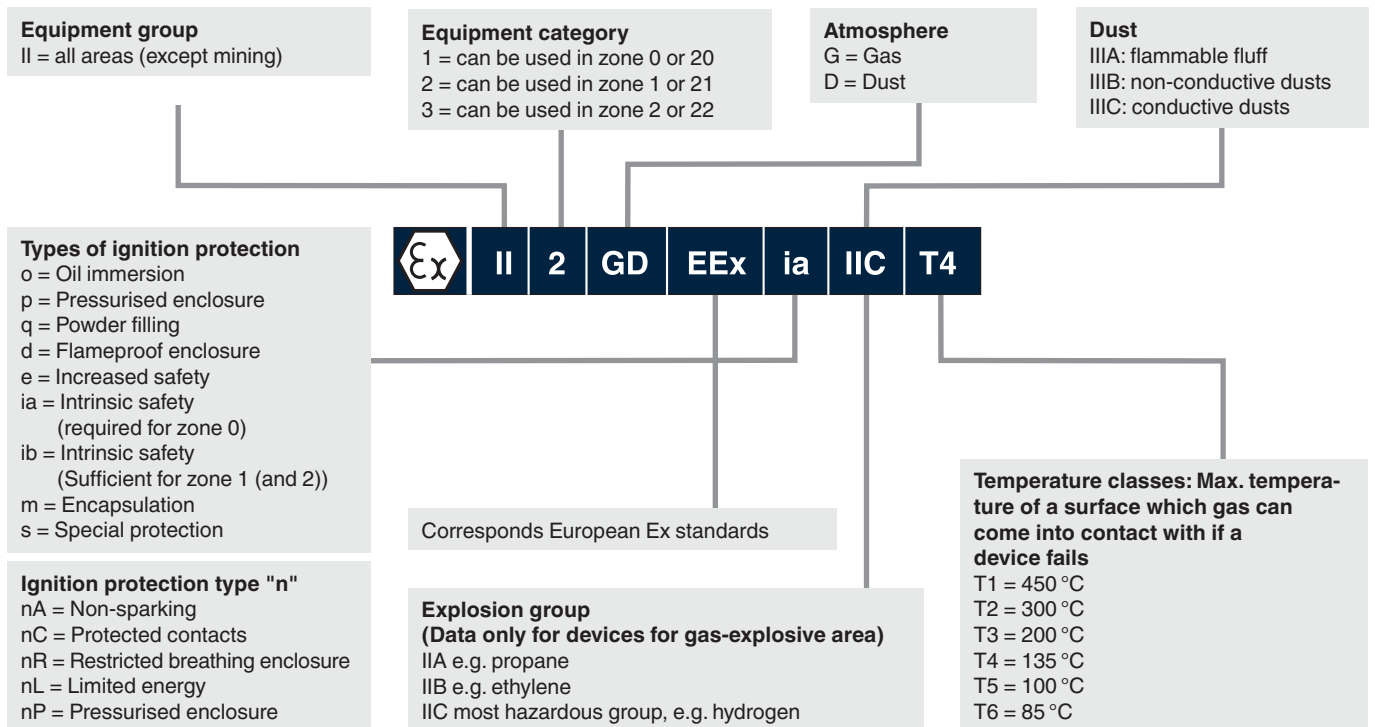
- 0 No protection.
- 1 Protection against the penetration of foreign bodies $\varnothing > 50$ mm. No protection for intentional access
- 2 Protection against small foreign bodies $\varnothing > 12.5$ mm. Keep fingers, etc., away.
- 3 Protection against small foreign bodies, $\varnothing > 2.5$ mm, keep tools, wires, etc., away.
- 4 Protection against granular foreign bodies, $\varnothing > 1$ mm, keep tools, wires, etc. away.
- 5 Protection against dust deposits (dust-resistant), complete contact protection.
- 6 Complete contact protection. Protection against dust penetration (dust-proof)(staubdicht), complete contact protection.

2. Numerical protection levels against the penetration of water

- 0 No protection.
- 1 Protection against dripping water, falling vertically. (Dripping water).
- 2 Protection against water falling at an angle (dripping water), 15° with respect to the normal operating position.
- 3 Protection against spray water, up to 60° with respect to the vertical.
- 4 Protection against splashing water from all directions.
- 5 Protection against hose water from all directions.
- 6 Protection against rough sea or strong water jet (flood protection)
- 7 Protection against immersion in water under defined pressure and time conditions.
- 8 Protection against continuous submersion in water.

Explosive areas

Flammable substances	Conditions and classification		Required equipment labelling			
	Temporary behaviour of the explosive atmosphere	Classification of explosive areas	Devices with reference to RL 94/9/EG	Equipment category with reference to RL 94/9/EG	Equipment group with reference to EN 60079-O	Equipment protection level (EPL) with reference to EN 60079-O
Gases Vapours Dusts	Is constantly or frequently occurring or is of long duration	Zone 0	II	1G	II	Ga
	Occurs occasionally in normal operation	Zone 1	II	2G or 1G	II	Gb or Ga
	Does not normally occur in normal operation or when it does, only occurs briefly	Zone 2	II	3G or 2G or 1G	II	Gc or Gb or Ga
Dusts	Is constantly or frequently occurring in the form of a cloud or occurs as a cloud for longer periods	Zone 20	II	1D	III	Da
	Occasionally forms a cloud in normal operation	Zone 21	II	2D or 1D	III	Db or Da
	Does not normally occur as a cloud in normal operation or when it does, only briefly	Zone 22	II	3D or 2D or 1D	III	Dc or Db or Da
Methane coal dust	Operation during risk of explosion	–	I	M1	I	Ma
	Shut-down when a risk of explosion occurs	–	I	M2 or M1	I	Mb or Ma



LED lamp explosion-proof sensor Z0

- Ex II 1 G Ex ia IIC T4 Ga
- Ex II 1 D Ex ia IIIC T 85 °C Da
- High light output from Power LED
- Long service life
- Shock-proof casing
- Sensor for automatic adjustment of the light intensity
- Battery charge indicator
- Antistatic thermoplastic
- Fluorescent lamp head
- Extremely versatile thanks to high light intensity and duration
- E.g. Chemical industry, oil industry, food industry, wood-processing industry, aerospace industry, tanker vehicle construction, petrol stations, fire brigades, German Technical Relief Service (THW)
- In accordance with DIN 14649

Note:

- Use Art.-No. 3880 15 3 batteries, otherwise no certification



Technical Data

Light colour:	white
Illuminant:	1× 3 Watt LED Cree XP-G2
Service life:	min. 50,000 operating hours
Luminous flux:	135 Lumen
Light ON time:	approx. 30 h
Lighting range:	approx. 80 m
Colour temperature:	6,500 Kelvin
Working temperature:	-20 °C to +80 °C
IP protection class:	IP 67
Battery type:	4× AAA
Length:	150 × 38 × 44 mm
Weight:	145 g
Head diameter:	44 mm



Article No.	Article Description	QTY
3885 260	LED INSPLAMP SENSOR Z0 EX	1

Scope of delivery Art.-No. 3885 260:

- 1× LED inspection lamp Z0
- Helmet adapter (e.g. Gallet, Casco, Bullard)
- Batteries (4× micro)

LED lamp, explosion-proof Z1

- Ex II 2 G Ex ib IIC T4 Gb
- Ex II 2 D Ex ib IIIC T 135 °C Db
- High light output from Cree LED
- Long service life
- Shock-proof casing
- Extremely versatile thanks to high light intensity and duration
- E.g. Chemical industry, oil industry, food industry, wood-processing industry, aerospace industry, tanker vehicle construction, petrol stations, fire brigades, German Technical Relief Service (THW)
- In accordance with DIN 14649

Note:

- Use Art.-No. 3880 15 1 batteries, otherwise no certification.



Technical Data

Light colour:	white
Illuminant:	1× 3 Watt Cree LED
Service life:	min. 50,000 operating hours
Luminous flux:	200 Lumen
Light ON time:	approx. 10 h
Lighting range:	approx. 150 m
Colour temperature:	7,000 Kelvin
Working temperature:	-20 °C to 40 °C
IP protection class:	IP 68
Battery type:	4× AA
Length:	172 × 41 mm
Weight:	167 g
Head diameter:	41 mm

Article No.	Article Description
3885 270	LED INSPECTION LAMP Z1 EX 1

Scope of delivery Art.-No. 3885 270:

- 1× LED inspection lamp Z1
- 4 x Batteries (4× Mignon)

LED torch Lenser® X21.2 FORCH*****

- X-lens technology: bundled, sharply focused searchlight beam
- Advanced Focus System(AFS): particularly uniform light cone in the defocused area (no shadow areas)
- 3 brightness settings due to dynamic adjustment knob
 - Press button 1x: full beam
 - Press button 2x: dimmed light
 - Press button 3x: high-frequency flashes
 - Press button again: switched off
- Use of rechargeable batteries is permitted

Your Advantage / Benefit

- Very good light output due to 7 ultra-bright, high-performance chips and 7 front lenses
- Light cone can be adjusted dynamically by Advanced Focus System, wide, circular near beam or bundled, sharply focused searchlight beam
- Versatile deployment as a result of the high light strength and lighting ON time (security and rescue services, police, hunters, etc.)
- Hard gold-plated contacts, giving optimal energy flow and corrosion resistance



7 ultra-bright, high-perf.chips



hard gold-plated contacts



Technical Data

Light colour:	White
Illuminant:	LED 7x 3W High End Power
Light flux:	
- High Power:	1.500 Lumen
- Low Power:	250 Lumen
Lighting duration approx.	
- High Power:	10 h
- Low Power:	50 h
Lighting range approx.:	
- High Power:	600 m
- Low Power:	250 m
Protection type:	IP X4
Length:	397 mm
Head diameter Ø:	95
Weight:	1.400 g
Material:	aluminium, black anodised

Application



Article No.	Article Description	QTY
3885 55	LED TORCH LENSER X21.2 5*	1

Scope of delivery:

- Plastic carrying-case
- Carrying strap
- Batteries (4x mono)

Related Products

- **LCD Universal Charger**
Art.-No. 3883 17



- **Rechargeable Power Accu - VARTA**
Art.-No. 3883 12



- **Power Battery 1,2 V**
Art.-No. 3883 12 4



LED torch Lenser P7R **FÖRCH*******

- Extremely high light output with ultra bright Xtreme Power LED
- Highly concentrated long-distance light (focused)
- Innovative charging system (Floating Charge System)
- Patented Advanced Focus System
- Speed Focus® (single-hand focusing)
- Fast Lock (infinitely variable focus adjustment)
- Durable sliding carriage mechanics
- New, matt coating minimises light reflexes
- Electronic control with microchip (SLT = Smart Light Technology)
 - In the event of weak batteries, the lamp starts to flash
 - Overheating protection regulates the light flow down to the next smaller mode when the maximum operating temperature has been reached

Technical Data

Light colour:	white
Light source:	1x High End Power LED
Luminous flux	
- High power:	1,000 lumen
- Power:	250 lumen
- Low power:	20 lumen
Lighting duration approx.	
- High power:	2 h
- Power:	5 h
- Low power:	40 h
Light range approx.	
- High power:	210 m
- Power:	150 m
- Low power:	40 m
Working temperature:	-20 °C to +40 °C
Protection type:	IPX4
Length:	166 mm
Weight:	210 g
Material:	Aluminium, black, anodised



Article No.	Article Description	QTY
3885 66	LED TORCH LENSER P7R 5*	1
3885 34 1	LITHIUM IONEN BATT.ICR 18650	1

Scope of delivery:

- Floating Charge System with USB connection
- Wrist strap
- Operating instructions
- Smart instruction card
- Intelligent clip
- Incl. lithium-ion battery
- Belt pocket

LED Torch Lenser® P7 **FÖRCH*******

- The latest LED technology
- Patented Advanced Focus System
- Rapid focus
- Durable sliding carriage mechanics

Your Advantage / Benefit

- Around four times higher light output than conventional, heavy torches with bulbs
- Indestructible technology with extreme durability
- Excellent illumination
- The red ring with holes shows that the lamp is still on when it is turned upside down
- Versatile applications thanks to high light strength and light ON time (workshops, security and rescue services, hunters, etc.)
- Splash-proof to IP X4
- Contacts hard gold-plated, ensuring optimal energy flow and higher corrosion resistance



hard gold-plated contacts



Splash water protection according to IP 54



Application

- One-handed focusing



Technical Data	
Light colour:	white
Light source:	High-power LED
Luminous flux	
- High power:	450 lumens
- Power:	250 lumens
- Low power:	40 lumens
Lighting duration approx.	
- High power:	1 h
- Power:	2 h
- Low power:	25 h
Light range approx.	
- High power:	300 m
- Power:	220 m
- Low power:	100 m
Protection type:	IPX4
Length:	130 mm
Head diameter Ø:	37 mm
Weight:	175 g
Material:	Aluminium, black, anodised

Article No.	Article Description	QTY
3885 62	LED TORCH LENSER P7 5*	1

Delivery includes:

- Belt pocket
- Carrying loop
- Batteries (4x micro)

LED Rechargeable Torch Lenser® P5R FÖRCH*****

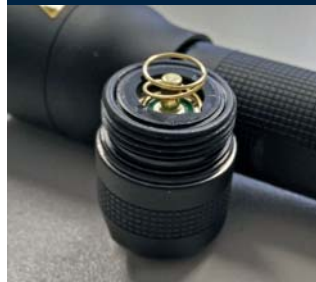
- Advanced Focus System (AFS)
- Electronic control with microchip (SLT = Smart Light Technology)
- Homogeneous light circle (defocused)
- Highly concentrated long-distance light (focused)
- Speed focus (single-hand focusing)
- Fast lock: can be fixed in any focusing position by turning the head
- Three brightness levels/functions:
 - 1: Power
 - 2: Low power
 - 3: High-frequency flashes



Your Advantage / Benefit

- Slim design, ideal for tight spaces
- Thanks to the red ring with holes you can see if the lamp is still on when it is turned upside down
- Contacts hard gold-plated, ensuring optimal energy flow and higher corrosion resistance

hard gold-plated contacts



Possibility of control due to red ring



Application

- Innovative charging system (floating charge system): the battery does not need to be removed for charging thanks to magnetic contacts
- USB charging system: suitable for charging via computer or other digital media, using a USB cable



Technical Data

Light source:	LED high power
Light colour:	White
Luminous flux	
- High power:	420 lumens
- Low power:	20 lumens
Light ON time	
- High power:	3 h
- Low power:	15 h
Lighting range	
- High power:	240 m
- Low power:	50 m
Protection type:	IPX 4
Battery type:	1x ICR 14500 Li-Ion
Energy tank:	2.59 Wh
Length:	117 mm
Weight:	75 g
Material:	Aluminium, black, anodised

Article No.	Article Description	QTY
3885 67	LED RECHAR.TORCH LENSER P5R 5*	1
3885 45 1	LITHIUM IONS BATTERY ICR 14500	1

Delivery includes:

- Charging station
- Intelligent clip, hand strap
- Operating instructions
- Smart instruction card
- Incl. lithium-ion battery

LED Rechargeable Torch Lenser® F1R FÖRCH*****

- extremely high light output due to ultra-bright Xtreme Power LED
- new mat coating minimises light reflection
- electronic regulation by microchip (SLT= Smart Light Technology)
 - lamp starts flashing when batteries low
 - overheating protection regulates light intensity: when it reaches max.operating temperature, torch switches down to next power level



Your Advantage / Benefit

- waterproof up to 2.5 metres depth (IPX8)
- slim design, ideal in confined spaces
- torch length of only 115 mm means it fits snugly in the hand thanks to SLT technology, power level can be suited to customer's needs
 1. Power levels= High Power / Power / Low Power
 2. Power levels= High Power / Power / Low Power

water-proof according to IPX8



USB-charging system is suitable for all digital media



Technical Data	
Lamps:	Xtreme Power LED
Luminous flux	
-High Power	1000 Lumen
-Power	250 Lumen
-Low Power	10 Lumen
Duration	
-High Power	3 hrs
-Power	6 hrs
-Low Power	60 hrs
Beam distance	
-High Power	160 m
-Power	80 m
-Low Power	20 m
Battery type:	1x ICR 18650
Energy capacity:	8.14 Wh
Type of protection:	IPX 8
Length:	115 mm
Weight:	120 g
Material:	Aluminium, HA III anodisation

Application



Article No.	Article Description	QTY
3885 58	LED-RECH.TORCH LENSER F1R 5*	1
3885 34 1	LITHIUM IONEN BATT.ICR 18650	1

Included in delivery:

- charging cradle with USB connection
- variable clip, wrist strap
- design ring, tactical ring
- lens cleaning cloth
- cleaning brush
- replacement O-ring
- instructions
- includes lithium-ion battery

LED Pocket Lamp-Lenser® P4 **FÖRCH*******

- High illumination performance
- Clip for shirt and coat pocket
- Can be focused by slight turning at the lamp head
- Use of accumulator not allowed

Technical Data

Light colour:	white
Illuminant:	LED 1x Nichia High End
Luminous flux:	14 Lumen
Illumination period approx.:	approx. 80 hrs
Luminous range approx.:	approx. 27 m
Protection class:	IP 54
Length:	140 mm
Material:	aluminium, black anodized



Article No.	Article Description	QTY
3885 23	LED POCKET LAMP-LENSER P4 5*	1 s
3885 23 1	PUSH BUTTON F. P3 AND P4	1

Scope of delivery:

- Belt bag, fixing clip, hand strap and batteries (2x Micro)

LED Pocket Lamp-Lenser® P3 **FÖRCH*******

- High illumination performance
- Clip for shirt or coat pocket
- Focusable
- Use of accumulator not allowed

Technical Data

Light colour:	white
Illuminant:	LED 1x Nichia High End
Luminous flux:	16 lumen
Illumination period approx.:	6.5h
Luminous range approx.:	31 m
Protection class:	IP 54
Length:	93 mm
Material:	aluminium, black anodized



Article No.	Article Description	QTY
3885 32	LED POCKET LAMP-LENSER P3 5*	1 s

Scope of delivery:

- Belt bag, fixing clip, hand strap and battery (1x Micro)

LED torch Lenser® i5

- very good light output
- clip for shirt and overall pocket
- can be focussed one-handed
- re-chargeable batteries may not be used

Technical Data

light colour:	white
illuminant:	1x LED High End Power
light flux:	80 lumen
lighting duration:	approx. 4 hrs.
lighting range:	approx. 110 m
protection type:	IPx4
battery type:	1x AA
length:	108 mm
weight:	60 g

Article No.	Article Description	QTY
3885 46	LED TORCH LENSER® I5	1 s

Scope of delivery:

- Belt bag, fastening clip, strap and battery (1 x Mignon)



LED torch Lenser® i6

- Very high light intensity
- Clip for shirt and overall pocket
- One-handed focussing
- Not approved for rechargeable batteries

Technical Data

Light colour:	white
illuminant:	1x Power LED
Luminous flux:	
Power:	140 lumen
Low power:	10 lumen
Lighting duration approx.:	
Power:	Approx. 5 h
Low power:	Approx. 25 h
Light range approx.:	
Power:	approx. 140 m
Low power:	approx. 30 m
Protection type:	IPX 4
Battery type:	3x AAA
Length:	167 mm
Weight:	75 g
Material:	Aluminium, HA III anodised

Article No.	Article Description	QTY
3885 47	LED TORCH LENSER® I6	e 12

Delivery includes:

- Belt pocket, fastening clip and batteries (3x micro)



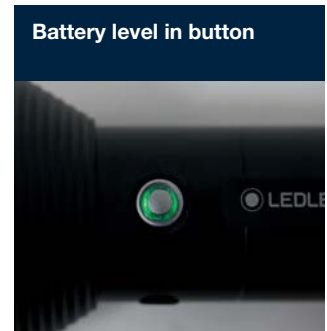
LED Rechargeable Torch Lenser® i18R FÖRCH*****

- X-lens technology: focused, sharp searchlight beam
- Advanced Focus System (AFS): particularly even light cone in the defocused area (no shadow rings)
- Micro-controller
- Temperature control
- 3 Brightness-levels via dynamic adjusting knob
 - Press button 1x: full light
 - Press button 2x: dimmed light
 - Press button 3x: strongly dimmed light
 - Press button once more: switch off
- High-frequency flashes:
 - Press button 1x: full light, then press and hold the button = light flashes
- Durable sliding carriage mechanics



Your Advantage / Benefit

- Extremely high light output through 3 ultra bright Xtreme Power LED chips
- Light cone can be adjusted dynamically via the Advanced Focus System, broad, circular low beam or high-focused, sharp searchlight beam
- Versatile deployment as a result of the extremely high light strength and light ON time (security and rescue services, police, hunters, etc.)
- Contacts hard gold-plated, ensuring optimal energy flow and corrosion resistance
- Charging / battery indicator
- Transport lock
- Roll-away protection



Technical Data

Light colour:	white
Light source:	Xtreme-LED
Luminous flux	
- High power:	3,000 lumens
- Power	600 lumens
- Low power:	30 lumens
Lighting duration approx.	
- High power:	5 h
- Power	9 h
- Low power:	96 h
Light range approx.:	
- High power:	540 m
- Power	260 m
- Low power:	80 m
Protection type:	IPX4
Length:	170 mm
Head diameter Ø:	85 mm
Battery type:	1x 1S3P 18650
Energy tank:	37.74 Wh
Weight:	620 g
Material:	Aluminium, black, anodised

Application



Article No.	Article Description	QTY
3885 68	LED RECHA.TORCH LENSER I18R 5*	1

Delivery includes:

- Includes lithium-ion battery
- Wrist strap
- Operating instructions
- Smart instruction card
- USB charging cable
- Charging device
- Roll-away protection

LED Torch Lenser® i²

- Very good light output
- Van be focused one-handed
- Re-chargeable batteries may not be used

Technical Data	
Light colour:	white
Illuminant:	1× LED High End Power
Light flux:	105 Lumen
Lighting duration:	approx. 6.5 hrs
Lighting range:	approx. 170 m
Protection type:	IPX 4
Battery type:	3× AAA
Length:	101 mm
Weight:	110 g



Article No.	Article Description	QTY
3885 48	LED TORCH LENSER® i ²	e 12

- Scope of delivery:**
- Belt bag, strap and batteries (3 x micro)

UV LED Torch 5-watt

- Ultra-bright UV high-power LED torch
- For locating leaks in air conditioning, water cooler, engine oil, gearbox oil and power steering systems
- Adjustable focus for identification of even the smallest leaks
- Suitable for contrast agent 134a and R1234yf
- Also suitable for curing of repair resin during laminated glass repairs
- MBS System:
 - Multi-battery system
 - Compatible with different battery types, e.g. AAA Alkaline, CR123, ICR18650, AAA Ni-MH

Technical Data	
Light colour:	violet
Light source:	UV high-power LED
Wavelength:	395 nm
Lighting duration approx.:	3.30 hrs
Lighting range:	28 m
Protection type:	IP X4
Working temperature:	-20 °C to +50 °C
Material:	Aluminium, black, anodised
Battery type:	3× AAA
Length:	145 mm
Weight:	140 g



Article No.	Article Description	QTY
3885 80	UV-LED TORCH UV 5	1

- Scope of delivery:**
- Belt pocket, battery sleeve, AAA battery magazine, blue roll stop, spare sealing rings,

LED Torch F-Series

- Very high light intensity
- Three brightness levels
- Highly robust
- Splash-proof

Art.-No. 3885 300:

- With retaining clip



3885 301



3885 302



3885 300



3885 303



3885 304



3885 305

Technical Data

Art.-No.:	3885 300	3885 301	3885 302	3885 303	3885 304	3885 305
Light source:	Toshiba High Performance LED	Toshiba High Performance LED	Cree XPG High Performance LED	Toshiba High Performance LED	Toshiba High Performance LED	Toshiba High Performance LED
Light colour:	white	white	white	white	white	white
Colour temperature:	7,700 K	7,700 K	4,700 K	4,700 K	7,700 K	7,700 K
Luminous flux:						
High power:	100 lm	200 lm	250 lm	600 lm	200 lm	200 lm
Power:	30 lm	60 lm	70 lm	200 lm	60 lm	60 lm
Flash:	100 lm	200 lm	250 lm	600 lm	200 lm	200 lm
Lighting duration approx.:						
High power:	1.5 h	2.0 h	1.5 h	8.0 h	7.0 h	22.0 h
Power:	3.0 h	4.0 h	3.0 h	15.0 h	15.0 h	45.0 h
Flash:	-	-	-	-	-	-
Light range approx.:	50 m	80 m	100 m	150 m	120 m	120 m
Protection type:	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Battery type:	2x AAA	3x AAA	3x AAA	3xC	2xD	3xD
Length:	140 mm	120 mm	120–135 mm	204–217 mm	245 mm	306 mm
Diameter max.	15.5 mm	32 mm	35 mm	41 mm	51 mm	51 mm
Diameter min.	15.5 mm	28.5 mm	28.5 mm	33 mm	40.5 mm	40.5 mm
Weight incl. batteries:	54 g	113 g	143 g	421 g	590 g	776 g
Material:	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised
Focusable:	No	No	Yes	Yes	No	No

Article No.	Article Description	QTY
3885 300	LED TORCH F300	1
3885 301	LED TORCH F301	1
3885 302	LED TORCH F302	1
3885 303	LED TORCH F303	1
3885 304	LED TORCH F304	1
3885 305	LED TORCH F305	1

Scope of delivery:

- Includes batteries

LED Pocket Lamp

- Super bright due to innovative CREE-high performance LEDs
- Made of aircraft-aluminium
- Extremely robust, long-life, impact and scratch resistant
- Splash-proof

Advantages of Cree-LED:

- Low operating costs
- Extreme brightness
- Long illumination time
- Extremely long service life
- High product reliability

Technical Data				
	CREE 282 mm	CREE 242 mm	CREE 175 mm	CREE 113 mm
illuminant:	CREE 3.0 W	CREE 3.0 W	CREE 3.0 W	CREE 3.0 W
Light flux:	200 Lumen	180 Lumen	160 Lumen	80 Lumen
Lighting duration:	approx. 30 hrs.	approx. 20 hrs.	approx. 4 hrs.	approx. 2 hrs.
illumination width:	approx. 250 m	approx. 160 m	approx. 150 m	approx. 80 m
Battery type:	3x Mono D	3x Baby	2x Mignon AA	1x Mignon AA
Length:	282 mm	242 mm	175 mm	113 mm
(Batteries included in delivery)				



Article No.	Article Description	QTY
3885 43	LED-POCKET LAMP "CREE" 282MM	1
3885 22	LED POCKET LAMP 'CREE' 242MM	1
3885 39	LED-POCKET LAMP "CREE" 175MM	1
3885 38	LED-POCKET LAMP "CREE" 113MM	1

LED Torch with Zoom

- Sturdy light metal housing
- Focusable
- Very compact
- 3 brightness levels:
Level 1: 110 lumen
Level 2: 70 lumen
Level 3: flash light



Technical Data	
Light colour:	white
illuminant::	1x LED CREE
Light flux:	level 1: 110 lumen level 2: 70 lumen level 3: flash light
Lighting duration:	level 1: 6 hrs. /level 2: 10 hrs. /level 3: 12 hrs.
Battery type:	3x micro (included in delivery)
Length:	104 mm

Article No.	Article Description	QTY
3885 37	LED-POCKET LAMP WITH ZOOM	1

4+1 LED Battery-operated Inspection Lamp

- Very good light emission
- Ideal in small spaces
- Clip with magnet for shirt and overall pockets

Technical Data

Luminous flux 1 CREE LED:	100 Lumen
Luminous flux 4 SMD LED:	120 Lumen
Input:	240 V, 50–60 Hz
Output:	5 V DC 500 mA
Lighting duration:	3 h
Charging duration:	4 h
Battery type:	li-ion battery 3.7 V / 1,400 mAh
Length:	175 mm
Weight:	110 g
Protection class:	IP 54

Article No.	Article Description	QTY
3885 53	LED BATT.INSPECTION LAMP 4+1	1
3885 53 1	CHARGER AND CABLE F.3885 53	1

Scope of delivery Art. no. 3885 53:

- 1x LED battery-operated inspection lamp
- 1x charger
- 1x USB connection cable
- 1x wrist strap

Scope of delivery Art. no. 3885 53 1:

- 1x charger
- 1x USB connection cable



LED Inspection lamp 5+1

- Very good light emission
- Ideal in small spaces
- Clip for shirt and overall pockets

Technical Data

Luminous flux 1 LED (Pointer):	20 Lumen
Luminous flux 5 SMD:	90 Lumen
Light duration:	up to 8 hrs.
Battery type:	3 x Micro (included in delivery)
Length:	172 mm

Article No .	Article Description	QTY
3885 56	LED-INSPECTION LAMP 5+1	1



3-in-1 LED Touch Pen Light

- High light output from CREE XPE2 spot LED light
- Very bright COB LED side light
- Push button function
- Rubberised switch cap for touchscreen application
- Shock-proof casing



Your Advantage / Benefit

- Low heat emission
- Clip for shirt and overall pocket
- Slim design, ideal for tight spaces
- Approved for use with rechargeable batteries
- Long service life

Application



Article No.	Article Description	QTY
3885 59	LED-TOUCH-PEN-LIGHT 3IN1	1

Scope of delivery:

- 1x touch pen light
- 1x battery

Technical Data

Light colour:	white
Luminous flux:	80 lumens
Light ON time:	2 h
Light source	
Spotlight:	CREE XPE2
Main light:	COB-LED
Material:	Aluminium, black, anodised
Weight:	35 g (incl. battery)
Length:	142 mm
Head diameter with belt clip:	17 mm
Head diameter without belt clip:	14 mm
Protection class:	IP 20
Battery type:	AAA LR03

Related Products

■ **Micro-Power-Battery 1,2**
Art.-No. 3883 12 7



■ **LCD Battery Charger Plug**
Art.-No. 3883 16



■ **Micro.Accu 1,2 V**
Art.-No. 3883 12 3



LED Lamp Multi-Fire

- Integrated plug for direct charging in any socket
- No overcharging and no memory effect of accumulators
- 4 LEDs and 4 lenses

Technical Data

Input:	230 V AC, 50 - 60 Hz
Output:	4.8 V
Charging time:	max. 30 hrs
Illumination period:	10 hrs
Weight:	152 g
Size (LxWxH):	135 x 48 x 48
Dimensions (L x W x H):	135 x 48 x 48
Weight:	152 g
Type of protection:	IP 54



Article No.	Article Description	QTY
3885 50	LED LAMP MULTI	e 10

LED-PEN-Light

- Required batteries: 2 x Micro (included in delivery)

Article No.	Article Description	QTY
3885 27	LED PEN-LIGHT	1 H



LED magnetic telescopic torch set

- Clip for shirt and overall pocket
- Octagonal lamp head prevents rolling away

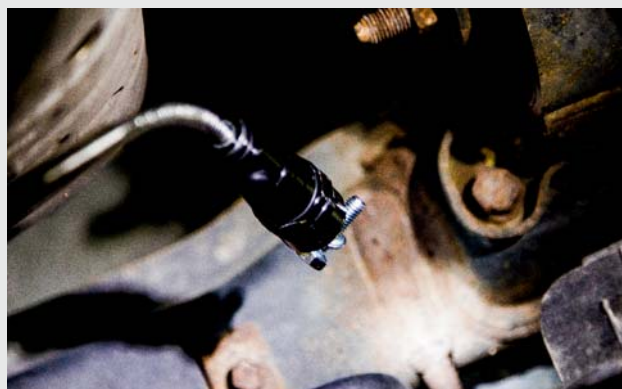
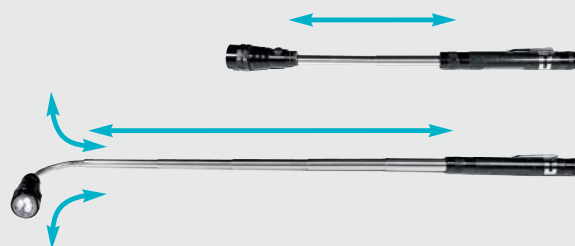


Your Advantage / Benefit

- Flexible, magnetic lamp head can be rotated through 360°
- Lamp head and handle end magnetic
- Telescopic from 170 mm - 560.5 mm

Application

- Load-bearing capacity of lamp head magnet: approx. 500 g
- To pick up small parts such as screws that are difficult to reach
- Optimum for lighting areas that are difficult to reach



Technical Data

Light intensity:	300 Lux
Length:	
min.:	170 mm
max.:	560.5 mm
Lamp head Ø:	23.0 mm
Battery type:	LR 44
Material:	Aluminium
Load-bearing capacity of magn.lamp head	approx. 500 g

Article No.	Article Description	QTY
3885 70	LED MAGNETIC TELESCOPIC TORCH	1

Scope of delivery:

- 1x magnetic telescopic torch
- 1x attachment clip
- 4x Art.-No. 3882 32: Button battery LR 44

LED Lamp Head Fire Cree

- Head lamp with Power-Chip and Cree LED
- LED service life up to 100.000 hours
- Lamp head 90° pivotable
- Application with batteries possible

Technical Data	
Light duration:	max. 36 hrs.
Weight:	140 g
Length:	29 mm
Diameter:	22 mm
Lumen:	100
Light distance:	approx. 145 m
Battery:	3 x Micro (included in delivery)

Article No.	Article Description	QTY
3885 29	LED LAMP HEAD FIRE CREE	1



LED headlamp Multi 5 W

- LED Cree XTE 5 Watt
- Extremely bright pivoting headlamp
- Broad illumination
- Red light
- 3 brightness levels
- 3 lighting modes
- Elastically adjustable headband
- SOS whistle
- Batteries may be used
- Suitable batteries (not included in the scope of delivery):
- 3x Art.-No. 3880N 15 3 Micro 1.5 V or
- 3x Art.-No. 3883 12 7 micro-power battery

Technical Data	
Illuminant:	1x 5 W Cree XTE
Light ON time:	
100 %	5 h
50 %	12 h
25 %	45 h
Luminous flux:	
100 %	200 Lumen
50 %	80 Lumen
25 %	40 Lumen
Lighting range:	
100 %	60 m
50 %	35 m
25 %	15 m
Protection type:	IP X5
Working temperature:	-15 °C to 55 °C
Battery type:	3x AAA
Dimensions (L x W x H):	57 x 37 x 43 mm
Weight:	50 g



Red light



SOS whistle



Article No.	Article Description	QTY
3885 60	LED HEADLAMP MULTI 5 WATT	1

LED Flat Lamp 4.5 V

- Faceted reflector
- Lamp body made of ABS plastic
- Foldable metal frame
- Adapter for Mignon-cells
- Red lens can attached
- Suitable batteries (not included in delivery): 1x Art. No. 3880N 45 or 3x Art. No. 3880N 15 1

Article No.	Article Description	QTY
3885 33	LED FLAT LAMP 4.5V	1



Halogen-Rechargeable-Floodlight Profi

- Lighting distance up to 100 m
- Lighting duration up to 5 hours
- 2 brightness steps
- Focus function
- Emergency light function
- Charging time 20 – 24 hrs (when battery is empty)
- Water-jet-proof

Technical Data	
Brightness levels:	Level 1: Illumination power 100% Level 2: Illumination power approx. 50%
Illumination time:	Level 1: approx. 2.5 hrs Level 2: approx. 5 hrs
Battery:	6 V/4 Ah maintenance-free, with depth discharge protection
Charging device:	9 V/300 mA
Dimension LxWxH:	200 x 120 x 170 mm
Weight:	approx. 1.3 kg

Article No.	Article Description	QTY
3885 100	HALO-RECHARGE.FLOODL.PROFI SET	1
3885 101	HALO-RECHARGE.FLOODLIGHT PROFI	1
3885 103	REPL.BATTERY F.HALO-LAMP PROFI	1
3885 104	REPL.LAMP 6V 10W F.3885 101	1
3885 105	POWER ADAPTER F.3885 101	1



Included in delivery:

- **Art. No. 3885 101:** 230 V power supply, 12 V automotive charging adaptor, shoulder strap
- **Art. No. 3885 100:** Additional wall holder with charging function (Art. No. 3885 102)

LED battery hand torch 27 W

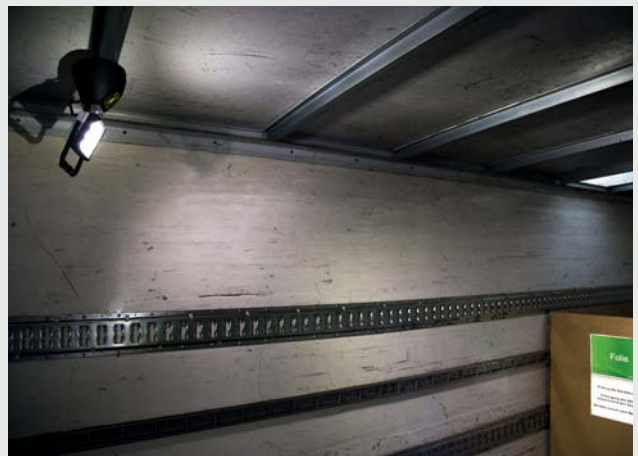
- Extremely bright tiltable work lamp
- Ideal for mobile applications in the automotive / commercial sector, building trade and industry
- Broad illumination
- 2 brightness levels
- 5 lighting modes
- 4 strong magnets in the lamp base



Your Advantage / Benefit

- Long service life
- Low heat emission
- Work independently of the mains
- Battery charge indicator
- USB interface for charging additional devices such as mobiles, tablets, etc.

Application



Technical Data	
Power connection:	230 V / 50 Hz
Light source:	High power Cree LED
LED service life:	approx. 30,000 hours
Luminous flux:	
100 %:	1,800 lumen
50 %:	900 lumen
Working temperature:	-20 °C to +50 °C
Battery performance:	Li-Ion 7.4 V, 8,800 mAh
Charging time:	6 h
Light ON time:	
100 %:	4.5 h
50 %:	9 h
USB connection:	5 VDC
Weight:	1,100 g
Dimensions:	130 x 120 x 270 mm
IP protection class:	IP 44

Article No.	Article Description	QTY
5424 27	LED BATTERY HAND TORCH 27W	1
5424 27 1	CHARGER F.LED HAND TORCH	1
5424 27 2	CHARGER 12/24V F.HAND TORCH	1

- 1x battery-powered work light
- 1 mains charger
- 1x charging cable 12/24 V

Battery-powered mini LED inspection lamp, dimmable

- Ultra bright, dimmable worklight with 4 W COB-LED
- Large and uniform illuminated area
- Low heat emission
- Long service life
- Shock-proof casing
- Ideal for tight spaces
- Magnetic base
- Battery charge indicator
- Ideal for repair work and inspection in the automotive, trade and industrial sectors
- USB charging cable including 220 V adapter



Technical Data

Light source:	COB-LED
Input:	230 V AC, 50–60 Hz
Output:	5 V DC, 1,000 mA
Charging time:	approx. 4.0 h
Light ON time	
- at 100%:	2.0 h
- at 50%:	8.0 h
Luminous flux:	300 lumen
Light colour:	5,500 K
Working temperature:	0°C to 45°C
Battery type:	Li-Ion, 3.7 V, 2,300 mAh
Weight:	130 g
Overall length:	213 × 26 × 27 mm
Protection class:	IP 20

Article No.	Article Description	QTY
3885 72	LED COB MINI INSP.LAMP DIMM.	1

Scope of delivery:

- 1 × Battery-powered mini LED inspection lamp, dimmable
- 1 × charging device
- 1 × USB connecting cable

Batt-pow.swan-neck LED inspection lamp, dimmable

- Ultra bright, flexible, dimmable worklight with 4 W COB-LED
- Large and uniform illuminated area
- Low heat emission
- Long service life
- Shock-proof casing
- Ideal for tight spaces
- Magnetic base
- Battery charge indicator
- Ideal for repair work and inspection in the automotive, trade and industrial sectors
- USB charging cable including 220 V adapter

Technical Data

Light source:	COB-LED
Input:	230 V AC, 50–60 Hz
Output:	5 V DC, 1,000 mA
Charging time:	approx. 4.0 h
Light ON time	
- at 100%:	2.0 h
- at 50 %:	8.0 h
Luminous flux:	260 lumen
Light colour:	5,500 K
Working temperature:	0 °C to 45 °C
Battery type:	Li-Ion, 3.7 V, 2,300 mAh
Weight:	130 g
Overall length:	445 x 40 x 34 mm
Protection class:	IP 20



Article No.	Article Description	QTY
3885 73	LED COB FLEX INSP.LAMP DIMM.	1

Scope of delivery:

- 1 x Battery-powered swan-neck LED inspection lamp, dimmable
- 1 x charging device
- 1x USB connecting cable

Ultra flat, battery-powered LED worklight, dimmable

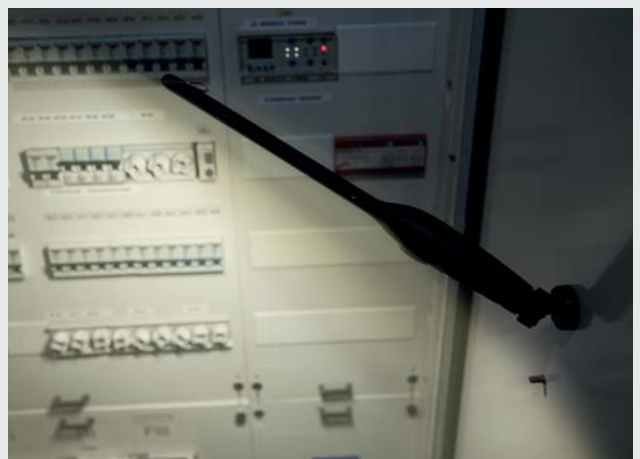
- Ultra bright, dimmable worklight with 7 W COB-LED
- Ideal for tight spaces
- Shock-proof casing
- Fold-out holding clip
- Magnetic base
- USB charging cable, including 220 V adapter
- Battery charge indicator
- 360° swivel range



Your Advantage / Benefit

- Slim design, ideal for tight spaces
- Infinitely variable light output
- Large and uniform illuminated area
- Low heat emission
- Long service life

Application



Technical Data	
Illuminant:	COB-LED
Input:	230 V AC, 50 – 60 Hz
Output:	5 V DC, 1.000 mA
Charging time:	approx. 4.0 h
Light ON time	
- at 100%:	2,5 h
- at 50%:	10 h
Luminous flux:	400 Lumen
Working temperature:	-5 °C to 50 °C
Battery type:	Li-Ion 3,7 V, 2.200 mAh
Weight:	198 g
Total length:	375 mm
Protection class:	IP 20

Article No.	Article Description	QTY
5423 54	LED BATT.WORK.LI.ULTR.FLAT 15W	1
5423 75 1 2	POW.SUPPL+MICRO-USB-CHAR.CABLE	1
5423 75 1	USB-POW.SUPP/CHARGER 1000MA	1
5423 75 2	MICRO-USB-CHARGING CABLE	1

Scope of delivery Art.-No. 5423 54:

- 1x Ultra flat, battery-powered LED worklight, dimmable, li-ion
- 1x Charger with USB cable

LED Cordless folding lamp COB, 2 Watt Li-Ion

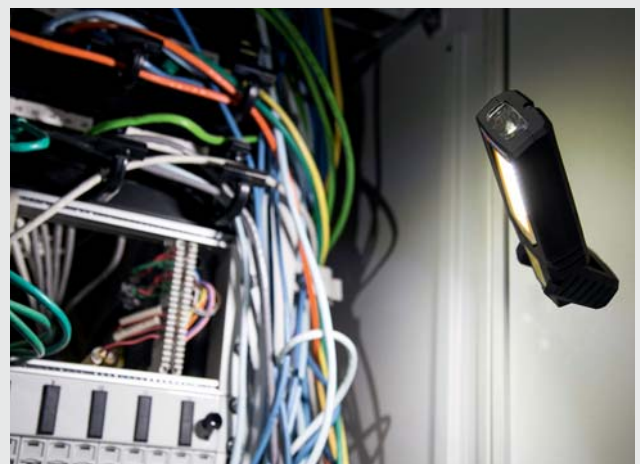
- High light output from COB LED
- 1 power LED as spotlight in the head
- Shock-proof casing
- Ideal for repair work and inspection in the automotive, trade and industrial sectors



Your Advantage / Benefit

- Large and uniform illuminated area
- Low heat emission
- Long service life
- 180° pivoting magnetic base
- 2 magnets on the back
- 1 fastening hook for additional light positions

Application



Technical Data

Illuminant:	COB-LED
Input:	230 V AC, 50–60 Hz
Output:	5 V DC, 1,000 mA
Charging time:	Approx. 3 h
Light ON time	
Main light:	Max. 3.0 h
Head light:	Max. 6.0 h
Luminous flux	
Main light:	200 lumen
Head light:	80 lumen
Working temperature:	-5 °C to 50 °C
Battery type:	Li-Ion, 3.7 V, 2,000 mAh
Weight:	204 g
Overall length:	193×49×32 mm
Protection class:	IP 20

Article No.	Article Description	QTY
5423 75	LED-CORDL.FOLD.LAMP COB 2WATT	1
5423 75 1 2	POW.SUPPL+MICRO-USB-CHAR.CABLE	1
5423 75 1	USB-POW.SUPP/CHARGER 1000MA	1
5423 75 2	MICRO-USB-CHARGING CABLE	1

Material supplied:

- 1 x charging device
- 1x USB connecting cable

Cordless LED folding lamp SMD 6+1 Li-Ion

- Extremely bright work lamp with 6 SMD LEDs
- Point illumination with 1 SMD LED in the lamp head
- Shock-proof housing
- Magnetic base
- Folding mounting bracket
- USB charging cable including 220 V adapter
- Can be swivelled through 120°



Technical Data

Input:	230 V AC, 50–60 Hz
Output:	5V DC, 1.000 mA
Charging time:	approx. 5.0 h
Light ON time:	
Main light:	max. 3,5 h
Head light:	max. 6,0 h
Luminous flux:	
Main light:	280 Lumen
Head light:	120 Lumen
Working temperature:	-5 °C to 50 °C
Battery:	Li-Ion, 3,7 V, 2.200 mAh
Weight:	226 g
Total length:	220 mm
Protection class:	IP 20

Article No.	Article Description	QTY
5423 53	LED-CORDL.FOLDING LAMP 6+1	1
5423 53 2	CHARGER FOR FOLDING LAMP	1
5423 53 3	USB VEH.CHARG.SOCK 12/24V 1A	1

Scope of delivery Art.-No. 5423 53:

- 1x Cordless folding lamp
- 1x USB charging socket 12 / 24 V, 1 A
- 1x Charger with USB cable

Your Advantage / Benefit

- Long service-life
- Low heat development
- Extensive and even illumination
- Can be swivelled through 120°

Application



Rechargeable LED pocket lamp II LI-Ion

- SMD LED provides high light output
- Large and uniform illuminated area
- 360° pivoting magnetic base
- With belt clip and attachment hook
- Micro USB charging cable including 220 V adapter
- Protected micro USB socket

Technical Data

Light source:	SMD LED
Input:	220 V AC, 50/60 Hz
Output:	5.0 V DC, 1,000 mA
Charging time:	3.0 h
Light ON time	
- Level 1:	4.5 h
- Level 2:	12 h
Luminous flux	
- Level 1:	220 lumen
- Level 2:	110 lumen
Battery type:	Li-Ion, 3.7 V, 1,500 mAh
Weight:	182 g
Dimensions (L x W x H):	126 x 66 x 28 mm
Protection class:	IP 20



Article No.	Article Description	QTY
5423 79	LED BATT.POCKET LAMP II LI-ION	1
5423 75 1 2	POW.SUPPL+MICRO-USB-CHAR.CABLE	1
5423 75 1	USB-POW.SUPP/CHARGER 1000MA	1
5423 75 2	MICRO-USB-CHARGING CABLE	1

Art.-No. 5423 79 delivery includes:

- 1 x rechargeable LED pocket lamp II LI-ION
- 1 x charger with USB cable

LED-Accu Handlamp 28 **ECO**

- Worklight with 28 LEDs
- Impact-resistant housing
- With magnet
- Plastic hook retractable and 360° rotatable
- Protection class IP 40

Technical Data	
Input:	230 V AC, 50 - 60 Hz
Output:	4.4 V DC, 800 mA
Charging time:	approx. 3 hrs
Illumination period:	max. 5 hrs
Working temperature:	-20°C to 50°C
Accu:	NiMH, 3.6 V, 1800 mAh
Weight:	241 g
Total length:	240 mm

Article No.	Article Description	QTY
5423N 28	LED-ACCU HANDLAMP 28 ECO	1
5423N 28 1	CHARG.DEVICE F.HANDLAMP 28 ECO	1

Included in delivery:

- 1x Accu handlamp
- 1x Charger



LED battery torch 2+5 **ECO**

- high light output with 2 x 0.5 W power LED
- extensive and even illumination
- 5 x 5 mm LED as spot in the head
- 1 toggle switch for both light functions
- 180° swivel base with magnet
- 1 fixing hook for additional light positions
- USB charging cable incl. 220 V adapter

Technical Data	
Input:	220 V AC, 50–60 Hz
Output:	5.0 V DC 1000 mA
charging time:	2.5 hrs.
lighting duration:	2.5 hrs. main light, 8 hrs. spot light
light flux:	90 lumen main light, 20 lumen spotlight
battery:	Li-Ion 3.7 V 650 mAh
weight:	140 g
total length:	190 x 47 x 28mm
protection class:	IP 20

Article No.	Article Description	QTY
5423N 52	LED-BATTERY FOLD.LAMP 2+5 ECO	1
5423N 52 1	CHARG.DEVICE F.FOLD.LAMP ECO	1



LED battery-powered portable lamp SMD 3W **ECO**

- Extremely bright work light with 6 SMD LEDs
- Shock-proof casing
- With magnet
- Folding plastic hooks, rotatable by 360°

Technical Data

Light source:	High-power SMD LED
Input:	230 V AC, 50–60 Hz
Output:	5V DC, 1,000 mA
Charging time:	approx. 4 hours
Light ON time:	
100%	2.5 h
50%	5.0 h
Luminous flux:	
100%	300 lumen
50%	150 lumen
Working temperature:	-10 °C to +40 °C
Colour temperature:	6,500 K
Battery type:	Li-Ion, 3,7 V, 2,200 mAh
Weight:	290 g
Overall length:	240 mm
Protection class:	IP 40



Article No.	Article Description	QTY
5423N 6	LED BATT.PORT.LAMP SMD 3W ECO	1
5423N 28 1	CHARG.DEVICE F.HANDLAMP 28 ECO	1

Delivery includes:

- 1x battery-powered portable lamp
- 1 x charging device
- 1x charging stand

Babypocket COB Li-Ion LED Battery Lamp

- High performance light emission from COB LED
- 180° swivelling base with magnet
- With belt clip and fastening hook
- USB charging cable incl. 220 V adaptor



Your Advantage / Benefit

- Slim, easy to handle design (smartphone format)
- 2 brightness settings to adjust light emission and light duration
- Lights up a large surface evenly

Application



Technical Data

Input:	220 V AC, 50/60 Hz
Output:	5,0 V DC, 1.000 mA
Charging time:	2,5 hrs.
Light duration	
- Level 1:	5 hrs.
- Level 2:	2,5 hrs.
Luminous flux	
- Level 1:	55 lumens
- Level 2:	110 lumens
Battery:	Li-Ion 3,7 V, 1.000 mAh
Weight:	112 g
Dimensions L x W x H:	120 x 59 x 25 mm
Protection class:	IP 20

Article No.	Article Description	QTY
5423 44	BABYPOCKET COB L-ION BATT.LAMP	1
5423 44 1	CHARGER FOR BABYPOCKET COB	1

Battery-powered LED Inspection Light 24+1 FORCH****

- Innovative LED inspection light with hook and magnet for the highest demands in light output, function and quality
- Prism-shaped extruded acrylic housing of the illuminant provides a focused light beam angle of 75°
- 24 high-quality SMD bulbs provide outstanding illumination
- 1 Cree LED in the head light provides bright and accurate illumination
- Ideal for repair work and inspections in trade and industry
- Small lamp diameter of 25 mm
- A shock-proof aluminium housing and water-tight construction ensure a long service life
- Removable, sliding hook with magnet offers universal fastening options
- Power supply with cable via mains (230 V) or the fitted battery (independent of mains power)

Matching accessories:

- Holder Art. No. 5423 5 26, 5423 5 28, 5423 5 31, 5423 5 24

Technical Data

Power connection:	230 V / 50 Hz
Connection cable:	5 m (1 mm ² H05RN-F)
Head light power consumption:	8 W
Spotlight power consumption:	2.5 W
Battery performance:	li-ion, 3.7 V, 5,200 mAh
Charging time:	4 h
Lighting time	
Main light:	2,5 h
Head light:	8 h
Light intensity at 50 cm	
- Main light:	1.300 Lux
- Head light:	1.500 Lux
Luminous flux	
- Main light:	600 Lumen
- Head light:	150 Lumen
Beam angle:	75°
Operating temperature:	-10 °C to +40 °C
Dimensions (Ø x L):	2.5 x 49 cm
Weight:	300 g
IP protection class:	IP 65

Article No.	Article Description	QTY
5423 5 37	LED CORDL.INSP.LAMP 24+1 5*	1
5423 5 37 3	CHARGER F. LED CORDL.INSP.LAMP	1

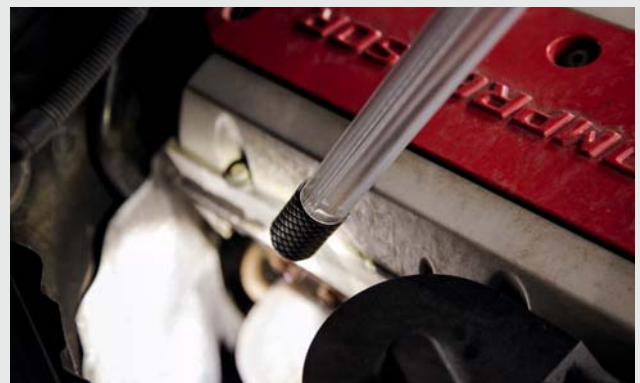
Scope of delivery:

- 1x cordless LED inspection lamp
- 1x charging cable
- 1x handle with battery

Your Advantage / Benefit

- Work independently of the mains
- Long service life
- Low heat generation and very low power consumption

Application



Cordl.LED Engine Compartm.Light w.Holder **FÖRCH*******

- Innovative cordless LED inspection lamp with holder for the highest demands of light intensity, function and quality
- Prism-shaped extruded acrylic housing of the illuminant provides a focussed light beam angle of 75 °
- Rotatable magnetic switch
- 48 high-quality SMD illuminants provide excellent light
- In and on vehicles and for assembly and manufacturing work Optimum solution for repairs, inspection
- A shock-proof aluminium housing and the provided watertightness ensure a long service life
- Holder with padded clamping hook for secure mounting and scratch protection
- Power supply with cable via mains (230 V) or the fitted battery (independent of mains power)

Matching accessories:

- Holder Art. No. 5423 5 26, 5423 5 28, 5423 5 31, 5423 5 24



Technical Data

Illuminant:	48 SMD LEDs
Power connection:	230 V/50 Hz
Connection cables:	5 m (1 mm ² H05RN-F)
Battery performance:	Li-Ion, 3,4 V, 5,200 mAh
Charging time:	4 h
Lighting duration	
50 %:	3 h
100 %:	1.5 h
Light intensity at 50 cm	
50 %:	1.000 Lux
100 %:	2.000 Lux
Luminous flux	
50 %:	500 Lumen
100 %:	1.000 Lumen
Power output	
50 %:	6.5 W
100 %:	13 W
Beam angle:	75 °C
Operating temperature:	#NAME?
Clamping range:	120 – 170 cm
IP-protection class:	IP 65
Colour temperature:	approx. 6.000 K
CRI-value:	>80
Dimensions (Ø x L):	2.5 x 102,7 cm
Weight	1,000 g

Article No.	Article Description	QTY
5423 5 100 1	LED BATT.ENGINE LIGHT 5*	1
5423 5 37 3	CHARGER F.LED CORDL.INSPLAMP	1

Scope of delivery Art.-No. 5423 5 100 1:

- 1x cordless LED engine compartment lamp
- 1x Art.-No. 5423 5 37 1: Charging cable
- 1x Art.-No. 5423 60 2 1: Quick Clamp device for inspection lamp.

Your Advantage / Benefit

- Work independently of the mains
- Low heat generation and very low power consumption
- Quick, simple and universal mounting
- Long service life

Application



LED SMD Flashlight

- 9 high-quality SMD illuminants provide outstanding illumination
- Robust LED inspection lamp with pivoting holder for the highest demands of light intensity, function and quality
- Ideal for repair work and inspections in the automotive, trade and industrial sectors
- Increased service life thanks to cable kink protection



Technical Data

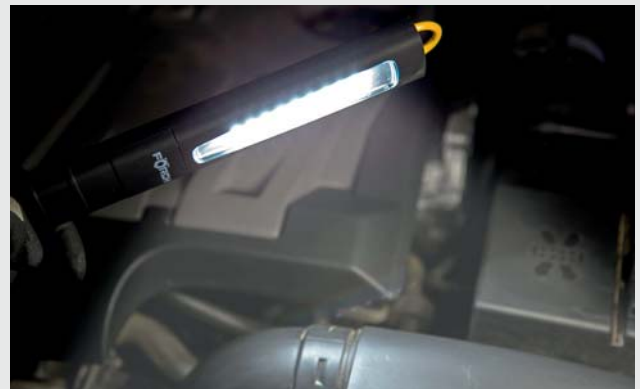
Power connection:	100–240 V 50/60 Hz
Connection cables:	5 m (1 mm ² HO5RN-F)
Power consumption:	4.0 W
Light intensity:	400 Lux
Luminous flux:	300 Lumen
IP protection class:	IP 40
Operating temperature:	-10 °C to +40 °C
Dimensions (Ø x L):	4.0 x 34 cm
Weight:	650 g

Article No.	Article Description	QTY
5423 26	LED SMD FLASHLIGHT 5M CABLE	1

Your Advantage / Benefit

- Long service life
- Very low heat generation
- Energy-saving, environmentally friendly and highly efficient

Application



Accessories Inspection Lamp CL 2065

- 190 lux
- 8 W

Article No.	Article Description	QTY
5423 12	FLUORESCENT TUBE CL 2065 8W	1



Flash light 8 Watt

- disposable lamp
- without protection level
- Rotable hook

Technical Data	
Fluorescent tube:	8 W
Power outlet:	230 V
Power cable:	5 m
Length flash light:	50 cm
Luminance at 60 cm:	180 Lux



Article No.	Article Description	QTY
5423 10	HANDY-LIGHT INSPECTION LAMP 8W	1

Worklights HLWC 109

- Robust and long-life worklights with rubber handle
- 9 Watt
- Intensive illumination, waterproof
- Dazzle-free light due to mounted reflectors
- Foldable suspension
- Degree of protection IP 67
- Cable length: 5 m
- Dimensions LxWxH: 195 x 50 x 40 mm
- Accessories: Art. No. 5423 19 2 Magnet holder for attaching on handle

Technical Data	
Fluorescent tube:	9 W
Power cable:	10 m
Length flash light:	19,5 cm
Degree of protection:	IP 67
Luminance at 60 cm:	300 Lux



Article No.	Article Description	QTY
5423 19	HAND LAMP HLWC 109 9W	1
5423 19 1	COMPACT FLUORESC.LAMP PL-9W	1
5423 19 2	MAGNET HOLDER	1

Inspection Lamp DUO 11 W

- Fluorescent tube and radiator in one
- Robust lamp with rubber handle and protective polycarbonate tube
- Ideal for inspections, repairs and other works around vehicles



Article No.	Article Description	QTY
5423 11 39 1	REPL.TUBE 11W INSP.LAMP DUO	1

LED workroom lamp FORCH*****



- innovative LED work room lamp with holding magnets for toughest demands on light performance, function and quality
 - prism-shaped extruded acrylic housing with illuminant provides a focussed light beam radiation angle of 75°
 - 156 high quality SMD illuminants provide excellent illumination
 - particularly suitable for assembly on lifting platforms, car and truck pits as well as for CNC processing centres and for lighting assembly and production location
 - shock-resistant aluminium housing and existing water tightness allow for a longer life
 - holder with rubberised magnets guarantees a quick, safe and universal mounting, even in narrow space
 - low heat emission and very low power consumption
 - LED work room lamps are supplied as construction set
- suitable accessories:**
- holder art. no. 5423 5 20, 5423 5 26, 5423 5 28, 5423 5 31



Technical Data		
	5423 5 120:	5423 5 120 2:
power supply:	230 V / 50 Hz	230 V / 50 Hz
working current:	24 V	24 V
power input:	20 Watt	40 Watt
connecting cable:	5 m (1 mm ² H05RN-F)	5 m (1 mm ² H05RN-F)
connecting cable:	-	8 m
light flux at 50 cm:	1100 Lux	2x 1100 Lux
operating temperature:	-10 to +40°	-10 to +40°
IP-protection class:	IP 67	IP 67
dimensions (Ø x L):	25 x 1234 mm	25 x 1234 mm

Article No.	Article Description	QTY
5423 5 120	LED WORKROOM LAMP L-120 5*	1

Lamp holder **FÖRCH*******

- suitable for Art.-No. 5423 5 37, 5423 5 120, 5423 5 120 2, 5423 5 100 1

Article No.	Article Description	QTY
5423 5 20	MOUNT.CLIP F.LED WORK LAMP 5*	1
5423 5 25	HOOKS W.MAGNET F.LED INSP.LAMP	1
5423 5 26	SUP.CLIP-FLEX W.SUCTION CUP 5*	1
5423 5 28	SUPP.CLIP-FLEX W.MAGNET 5*	1
5423 5 31	MAGNET CLIPØ31MM F.LED-LAMP 5*	1



Lamp holder

- Art.-No. 4523 9:suitable for Art.-No. 5423 4, 5423 5, 5423 10, 5423 25
- Art.-No. 5423 17: suitable for Art.-No. 5423 11 39

Article No.	Article Description	QTY
5423 9	ADHESIVE MAGNET FOR HANDLAMPS	1
5423 17	LAMP HOLD.D-4CM FLEX SUCT.BASE	1



Handheld Lamp

- Very robust handlamp for long duration
- Hard rubber handle
- Zinc-plated protective basket
- Protective glass
- For bulbs up to max. 60 W with socket E27
- 5 m cable supply line
- cable: 2 x 075 m² HO5RW-F



Article No.	Article Description	QTY
5423 600	HANDHELD LAMP 60 WATT E27	1

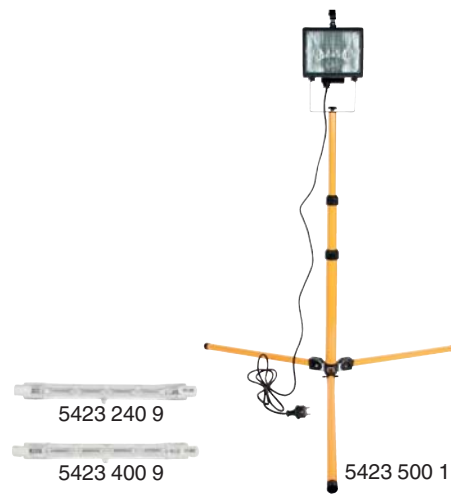
Tripod Halogen Lamp STF 400

- Mobile working and decoration lamp with high luminous power
- Rotatable lamp
- Halogen lamp, powder-coated, aluminium housing
- Protective glass cover
- Robust, long service life telescopic tripod
- Steplessly extendable up to 1.60 m
- 3.5 m connecting cable and halogen tube

Article No.	Article Description	QTY
5423 500 1	TRIPOD LAMP STF 400	1
5423 240 9	HALOG.ERGY.SAV.LIGHT 240W118MM	1
5423 400 9	HALOG.ERGY.SAV.LIGHT 400W118MM	1

Scope of delivery:

- Lamp with halogen energy-saving pipe 400 W



Mobile Halogen Lamp ML 400

- Transportable working lamp with high luminous power
- Halogen lamp, 500W, black-painted aluminium housing
- Can be tilted steplessly
- Robust tubular steel frame
- Bright zinc-plated
- 1.5 m connecting cable and halogen tube

Article No.	Article Description	QTY
5423 500	MOBILE HALOGEN LIGHT ML 400	1
5423 240 9	HALOG.ERGY.SAV.LIGHT 240W118MM	1
5423 400 9	HALOG.ERGY.SAV.LIGHT 400W118MM	1

Scope of delivery:

- Lamp with halogen energy-saving pipe 400 W



Halogen lamps 1000W

- length 189 mm
- 240 V
- 1000 W



Article No.	Article Description	QTY
5423 1000 9	HALOGEN LAMPS 1000W	1

Build Light Neon

- Soft, consistently wide dispersed Neon-light -an optimum illumination with low generation of heat
- Dust-proof housing made of robust, shock-proof plastic/rubber - impact-proof and therefore appropriate for permanent usage
- Winding mechanism for cable
- Compact design
- All-insulated according to degree of protection IP 44
- Dimensions (WxHxD): 370x420x125 mm

Art.-No. 5424 32 1:

- 32 Watt energy saving neon light

Art.-No. 5424 32:

- Integrated water-jet-proof 4-fold socket on the backside
- Integrated ON/OFF-switch
- 32 Watt energy saving neon light

Art.-No. 5424 56:

- 2 separate energy saving neon light tubes with a total illuminous power of 56 Watt (32 Watt and 24 Watt) - if one tube drops out, the other keeps on burning unchanged - maximum light efficiency
- Integrated water-jet-proof 4-fold socket on the backside
- Integrated ON/OFF-switch

Applicability

- With foot as support
- Various snap-on possibilities
- Can be mounted on roof
- Assembly on tripod



Article No.	Article Description	QTY
5424 32 1	NEON BUILD LIGHT BASIC 32W	1
5424 32	NEON BUILD LIGHT PROFI 32W	1
5424 56	NEON BUILD LIGHT PROFI/PLUS56W	1
5424 24 5	REPLACEMENT NEON TUBE 24W	1
5424 32 5	REPLACEMENT NEON TUBE 32W	1

Working lights COB LED 10/35 watt

- very stable and weather-resistant die-cast aluminium housing
- 100% light projection directly after switching on
- low heat development
- dust and waterproof
- suitable stand: article-no. 4716 162

article-no. 3408 7 5:

- 1 x 10 Watt COB high performance LED
- rubberised plastic handle
- Li-Ion battery

article-no. 3408 7 6:

- 1 x 35 Watt COB high performance LED
- with 5 m lead
- hook swivels by 180°



3408 7 5



3408 7 5 1

Technical Data		
Art.-No.:	3408 7 5	3408 7 6
Power connection:	230 V / 50 Hz	230 V / 50 Hz
Charging time:	approx. 3.5 hrs	-
Lighting duration:	max. 2.5 h	-
Service life:	approx. 50,000 hrs	approx. 50,000 hrs
Brightness:	850 lumen	2,800 lumen
Light beam:	120°	120°
Working temperature:	-10 °C to +50 °C	-10 °C to +50 °C
Battery:	Li-Ion, 11,1 V, 2,200 mAh	-
Weight:	1,350 g	2,500 g
Dimensions L x W x H:		
without holding bracket:	145 x 190 x 75 mm	185 x 250 x 85 mm
with holding bracket:	295 x 190 x 75 mm	-
IP-protection class:	IP 65	IP 65



3408 7 6



3408 7 6 1



3408 7 5 2

Article No.	Article Description	QTY
3408 7 5	WORKING LIGHTS COB LED 10W	1
3408 7 5 1	REPL.GLASS F.AS COB LED 10W	1
3408 7 5 2	CHARGER 230V F. COB LED 10W	1
3408 7 6	WORKING LIGHTS COB LED 35W	1
3408 7 6 1	REPL.GLASS F.AS COB LED 35W	1

Magnetic holder for work lights

- Magnetic holder for work lights Art.-No. 5423 95 5423 96
- Quick-release bolt to fit Ø: 10.0 mm
- Rubber-encapsulated magnets
- Holding force per magnet: approx. 10 kg
- Powder-coated
- Weight: 930 g
- Dimensions: 260 x 60 x 50 mm



Article No.	Article Description	QTY
5423 98	MAGNETIC HOLDER F.WORK LIGHTS	1



3-legged telescopic tripod

Art.-No. 4716 162:

- stable metal design
- stable 3-legged telescopic tripod
- seamless extension from 60 cm to 140 cm

Art.-No. 4716 163:

- stable plastic-coated steel tube
- extra long pedestal for extreme stability
- incl. traverse for 2 spotlights
- seamless extension from 115 cm to 300cm

Art.-No. 5423 91 0:

- stable powder-coated design
- stable 3-legged telescopic tripod
- seamless extension from 135 cm to 300 cm
- extended pedestals Ø 120 cm

Article No.	Article Description	QTY
4716 162	3-LEGGED TELESCOPIC TRIPOD	1
4716 163	TELESKOPSTATIV 3-BEIN ST300	1
5423 91 0	TRIPOD F.CRI COB 30W	1



Mobile telescopic tripod

- Strong, powder-coated design
- Ideal for low work heights
- Extendible to any length from 70 cm to 190 cm
- Lockable, stable, ball-bearing-mounted wheels
- Mounting thread screw: M10 x 1.5

Article No.	Article Description	QTY
5423 97	MOBILE TELESCOPIC TRIPOD	1
5423 97 1	DOUBLE BRACKET F.MOBILE TRIPOD	1



Battery Working Spotlight COB-LED Li-Ion 10W / 20W

- Powerful COB light
- Ideal for mobile use in cars, workshops and in industry

Your Advantage / Benefit

- Uninterrupted work thanks to exchangeable battery
- Integrated working light and red warning flashing light on the reverse side of the battery
- Charging state indicator
- Rugged aluminium housing with stable base and ergonomic handle
- Swivelling fastening bracket for optimal illumination angle
- Multi-level brightness adjustment to adjust the light strength and the lighting duration
- USB interface for loading of additional devices such as mobiles, tablets, etc.

Application



5424 20

5424 10

5424 10 1
5424 20 1

Technical Data

Art.-No.:	5424 10	5424 20
Power connection:	230 V / 50 Hz	230 V / 50 Hz
Illuminant:	COB-LED	COB-LED
Luminaire Service Life:	approx 30,000 hrs	approx 30,000 hrs
Light Strength:	approx 600 lm	approx 1,200 lm
Light Cone:	120°	120°
Working temperature:	0°C to +50°C	0°C to +50°C
Battery Performance:	Li-Ion 7,4 V, 4,400 mAh	Li-Ion 7,4 V, 8,800 mAh
Battery life:	approx. 500 load cycles	approx. 500 load cycles
Charging time:	approx. 5 hrs	approx. 7 hrs
Lighting duration:	approx. 4 hrs	approx. 6 hrs
USB connection:	5 VDC, max. 2,100 mA	5 VDC, max. 2,100 mA
Weight:	1,100 g	1,900 g
Dimension:	167×185×255 mm	230×185×275 mm
IP-protection class	IP 54	IP 54

Article No.	Article Description	QTY
5424 10	BATT.WORK.SPOTLIGHT COB LI 10W	1
5424 10 1	SPARE BATT.F.WORKING LIGHT 10W	1
5424 10 3	CHARGER F.BATT.WORK.LIGHT 10W	1
5424 20	BATT.WORK.SPOTLIGHT COB LI 20W	1
5424 20 1	SPARE BATT.F.WORKING LIGHT 20W	1
5424 20 3	CHARGER FOR BATT.WORK.LIGHT20W	1
5424 10 20	CHARGER 12V F.BATT.,AS 10W 20W	1

Scope of Delivery:

- 1× Working spot light battery
- 1× Mains charger
- 1× Charging cable 12V

Battery-powered work light COB-LED 26 W **FÖRCH**★★★★

- Dimmable, powerful 26 W high-efficiency battery-powered COB light
- IP67 classification: protected against dust and temporary immersion (up to 30 seconds at max. depth of one metre)
- Flexible foot for optimal illumination angle
- Strong, robust and impact-resistant aluminium housing
- Power supply with cable via mains (230 V) or the fitted battery (independent of mains power)



Your Advantage / Benefit

- Work independently of the mains
- Robust aluminium housing with ergonomic handle
- Long service life
- Low heat emission
- Strong, robust and waterproof

Control panel for luminous regulation



detachable power cord



Application



Technical Data

Charging cable:	100–240 V AC / 50–60 Hz
Cable length:	5 m (2x 0.75 mm ² H05RN-F)
Service life:	min. 100,000 operating hours
Battery capacity:	11.1 V / 4,400 mAh Li-Ion
Light strength:	
100%:	3,000 lumen
75%:	2,250 lumen
50%:	1,500 lumen
25%:	750 lumen
10%:	300 lumen
Light intensity:	5,000 lux at a distance of 50 cm
Light ON time:	1–14 hours
Charging time:	2 hours
Working temperature:	-10 °C to +40 °C
IP protection class:	IP 67
Shock resistance class:	IK 07
Dimensions:	235x233x88 mm
Weight:	2,200 g

Article No.	Article Description	QTY
5423 95	LED BATTERY WORK LIGHT 26W 5*	1
5423 95 1	CHARGER FOR BATT.WORK LIGHT	1

Delivery scope Art.-No. 5423 95:

- 1x work light
- 1 x charging device

Related Products

- **Mobile telescopic stand**
Art.-No. 5423 97



- **Double bracket for mobile tripod**
Art.-No. 5423 97 1



- **Magnetic holder for working lamps**
Art.-No. 5423 98



Work light COB-LED 42 W **FÖRCH*******

- Dimmable, powerful 42 W high-efficiency COB light
- Low heat emission
- IP67 classification: protected against dust and temporary immersion (up to 30 seconds at max. depth of one metre)
- Strong, robust and impact-resistant cast aluminium housing
- Flexible foot for optimal illumination angle

Your Advantage / Benefit

- Robust aluminium housing with ergonomic handle
- Long service life
- Low heat emission
- Strong, robust and waterproof



dimmmable light



Application

- Suitable for outdoor work in all weather conditions
- Multi-level brightness adjustment to adjust the light strength
- For universal use, with or without telescopic tripod



Technical Data

Power connection:	100 – 240 V AC / 50 – 60 Hz
Cable length:	5 m (2× 0.75 mm ² HO5RN-F)
Service life:	min. 100,000 operating hours
Light strength:	
100%:	5,000 lumen
75%:	3,750 lumen
50%:	2,500 lumen
25%:	1,250 lumen
10%:	500 lumen
Light intensity:	8,000 lux at a distance of 50 cm
Working temperature:	-10 °C to +40 °C
IP protection class:	IP 67
Shock resistance class:	IK 07
Dimensions:	267×262×88 mm
Weight:	2,660 g

Article No.	Article Description	QTY
5423 96	LED WORK LIGHT 42W 5*	1

Related Products

- Telescopic tripod for LED working lights
Art.-No. 5423 91 0



- Mobile telescopic tripod
Art.-No. 5423 97



- Magnetic holder for working lamp
Art.-No. 5423 98



CRI COB-LED 30 W working lights

Article No.	Article Description	QTY
5423 91 3	GLASS LENS	1
5423 91 4	REAR HANDLE	1
5423 91 5	ADJUSTMENT LEG	1
5423 91 6	RUBBER PROT.EDGE	1
5423 92 1	CHARGER FOR WORK.LI 5423 92	1
5423 92 2	ADJ.FOOT F.WOR.L.20W/MULIM 25W	1
5423 92 3	GLASS LENS F.COB20W/MULTIM.25W	1
5423 92 4	RUBBER EDGE PROT.F.COB 20W/25W	1

Work Light 25W Multitmatch **FÖRCH*******

- Powerful 25W CRI COB-LED
- IP 67-classification: safe from dust and water during temporary immersion (up to 30 seconds in max. one metre depth)
- Power supply with cable from mains (230 V) or through the built-in battery (independent of the mains)
- Extremely stable, sturdy, shock-resistant aluminium housing
- Flexible base for the best illumination angle



Your Advantage / Benefit

- Work independently of mains power
- Long service life
- Low heat
- Stable, sturdy and waterproof
- Colour temperature close to daylight
- Glass lens resistant to solvents, can be cleaned daily

Application

- For optimal colour recognition in the evaluation of various paint mixtures of a hue
- Ideal for use at in cleaning/polishing and painting preparatory work as the lamp makes sanding marks, polishing holograms and other surface defects visible



Technical Data

Charging cable:	100 – 240 V AC / 50 – 60 Hz
Cable length:	5 m (2x 0.75 mm ² HO5RN-F)
Service life:	min. 100.000 operating hours
Battery capacity	11.1 V / 4.400 mAh Li-Ion
Light strength:	
Stage 1:	2.000 Lumen / 3.500 lux at 50 cm distance
Stage 2:	
Burn time:	600 Lumen / 1.400 lux at 50 cm distance
Stage 1:	
Stage 2:	1.5 hours
Charging time:	6 hours
CRI value:	3 hours
Colour temperature:	> 95
Operating temperature:	4.500 Kelvin
	-10 °C to +40 °C
IP protection class:	IP 67
Shock resistance class:	IK 07
Dimension:	220 x 235 x 75 mm
Weight:	2.140 g

Article No.	Article Description	QTY
5423 93	LED BATT.WORK LIGHT MULTI.5*	1
5423 92 1	CHARGER FOR WORK.LI 5423 92	1
5423 92 2	ADJ.FOOT F.WOR.L.20W/MULIM 25W	1
5423 92 3	GLASS LENS F.COB20W/MULTIM.25W	1
5423 92 4	RUBBER EDGE PROT.F.COB 20W/25W	1



Work Light 5W Sunmatch FÖRCH*****

- Powerful 5 W CRI COB-LED
- IP 65 classification: safe from dust and protected against water jets directed against the housing from any direction
- Flexible lamp head rotatable up to 180°
- Freely positionable magnetic foot or swivel hook on the back for hanging up
- Easy to carry in your pocket or on your belt thanks to integrated belt clip
- To protect the battery from overheating at full light output, after about 3 min., the lamp switches to stage 2



Your Advantage / Benefit

- Long service life
- Stable, sturdy and protected against water jets
- Colour temperature close to daylight
- Glass lens resistant to solvents, can be cleaned daily

Application

- For optimal colour recognition in the evaluation of various paint mixtures of a hue
- Ideal for use at in cleaning/polishing and painting preparatory work, as the lamp makes sanding marks, polishing holograms and other surface defects visible



Technical Data

Charger:	100 – 240 V AC 50 / 60 Hz
Service life:	min. 100.000 operating hours
Battery capacity:	3.7 V / 2.200 mAh Li-Ion
Light strength	
Stage 1:	400 Lumen / 1.100 lux at 50 cm distance
Stage 2:	distance
Burn time:	180 Lumen / 550 lux at 50 cm distance
Stage 1:	distance
Stage 2:	
Charging time:	1 hour
CRI value:	3 hours
Colour temperature:	4 hours
Operating temperature:	> 95
IP protection class:	4.500 Kelvin
Dimension:	-10 °C to +40 °C
Weight:	IP 65
	60 x 190 x 40 mm
	300 g

Article No.	Article Description	QTY
5423 94	LED BATT.WORK LIGHT SUNMATCH5*	1



Battery-powered LED spotlight DISC 15 W

- Dimmable, powerful 15 W battery-powered COB light
- Ideal for mobile applications in the automotive / commercial sector, building trade and industry
- Low heat emission
- Broad illumination
- 2 brightness levels
- Battery charge indicator
- Power supply with cable via mains (230 V) or the fitted battery (independent of mains power)

Technical Data

Power connection:	230 V / 50 Hz
Light source:	COB-LED
Luminous flux	
100 %:	1,200 lumen
50 %:	600 lumen
Working temperature:	-20 °C to +60 °C
Battery performance:	Li-Ion 7.4 V, 4,000 mAh
Charging time:	6 h
Light ON time	
100 %:	2.5 h
50 %:	7.5 h
Weight:	775 g
Dimensions:	195 x 55 mm
IP protection class:	IP 44



Article No.	Article Description	QTY
5423 99	BATT.POW.LED SPOTLIGHT 15W	1
5423 99 1	REPL.BATT.POW.LED.SPOTLIGHT15W	1
5423 99 2	CHARGER F.LED SPOTLIGHT 15W	1
5423 99 3	MAGN.HOLDER F.WORK SPOTLIGHT	1
5424 10 20	CHARGER 12V F.BATT.,AS 10W 20W	1

Scope of delivery:

- 1x battery-powered work light
- 1 mains charger
- 1x hook



Battery-powered LED spotlight DISC 15 W

- Dimmable, powerful 15 W battery-powered COB light
- Ideal for mobile applications in the automotive / commercial sector, building trade and industry
- Low heat emission
- Broad illumination
- 2 brightness levels
- Battery charge indicator
- Power supply with cable via mains (230 V) or the fitted battery (independent of mains power)

Technical Data

Power connection:	230 V / 50 Hz
Light source:	COB-LED
Luminous flux	
100 %:	1,200 lumen
50 %:	600 lumen
Working temperature:	-20 °C to +60 °C
Battery performance:	Li-Ion 7.4 V, 4,000 mAh
Charging time:	6 h
Light ON time	
100 %:	2.5 h
50 %:	7.5 h
Weight:	775 g
Dimensions:	195 x 55 mm
IP protection class:	IP 44



Article No.	Article Description	QTY
5423 99	BATT.POW.LED SPOTLIGHT 15W	1
5423 99 1	REPL.BATT.POW.LED.SPOTLIGHT15W	1
5423 99 2	CHARGER F.LED SPOTLIGHT 15W	1
5423 99 3	MAGN.HOLDER F.WORK SPOTLIGHT	1

Scope of delivery:

- 1x battery-powered work light
- 1 mains charger
- 1x hook



Cable Drum Sheet Steel / Armoured Cable

- Heavy, yellow armoured cable K35 AT-N07V3V3-F3 G1.5
 - Resistant against acid, oil and embrittlement, 100% weather-resistant
 - Temperature resistant from -35°C to +80°C
 - Approved for continuous or long-term use for outdoor and wet areas, protection type IP44
 - Signal colour yellow
- Big winding form made of hot-dip galvanized sheet steel
 - Stable design for construction sites
- Shock-absorbing, stable and zinced base frame
- Plastic-covered, ergonomic carrying handle
 - Comfortable carrying
- Turnable winding handle
- With patented conduit guides
- Low centre of gravity
 - Extremely stable
- Effective parking brake prevents unintentional unwinding of the cable
- 3 electric safety sockets 230 V, with thermal overload protection and self-locking protective covers, tested according to VDE
 - Splashproof according to VDE 0620

Art. No. 5425 40:

- With printing

Article No.	Article Description	QTY
5425 40	CABLE DRUM ST./ARMOU.C.220V40M	1
5425 40 1	CABLE DRUM ST./ARMOU.220V40M	1



Extension Armoured Cable

- Extension cable with splashproof solid rubber coupling and solid rubber plug, tested according VDE
- impact- and pressure resistant plug and coupling - continuous use in outdoor and wet areas
- Heavy, yellow armoured cable K35 AT-N07V3-V3F3 G1.5

Art.-No. 5425 25 3 1:

- with customized printing

Article No.	Article Description	QTY
5426 25 3	EXTENSION ARMOURED C. 230V 25M	1
5426 25 3 1	EXTENS.ARM.CA."CUS.PR."230V25M	1



Armoured Cable, Endless

- Yellow heavy armoured cable K35 AT-N07V3-V3F3 G1.5
- Endless without plug and coupling
- Customized printing

Article No.	Article Description	QTY
5426 100	RO(100)ARMOURED CABLE CUSTOM.	1
5426 200	RO(200)ARMOURED CABLE CUSTOM.	1

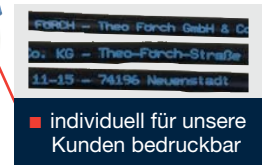
Cable drum, sheet steel, hot-dip galv. With insula

- For use outdoors and on commercial building sites
- Complies with BGI 608
- Meets the requirements of EN 61242
- Protected against foreign objects and splashed water, IP44
- Metal cable drum of hot-dip galvanised sheet steel
- With insulating covering
- Shock-absorbing, galvanised steel frame
- Locking brake
- Heavy rubber-sheathed cable H07RN-F 3G1.5
- VDE thermal safety switch with automatic function unit
- 3 protective contact sockets 230 V / 16 A, with hinged safety covers

Art.-No. 5425 44:

- With printing to individual customer requirements

Article No.	Article Description	QTY
5425 44	KABELTR.ST."KD DRUCK" FVZ ISO.	1
5425 44 1	KABELTR.ST. FVZ ISO. 230V 40M	1



Cable Drum Sheet Steel / Plastic Cable

- Plastic sheathed covering H05VV-F3 G1,5
- Hot-dip galvanized winding form, turnable winding handle
- Shock-absorbing, stable and zinc base frame
- Comfortable carrying due to ergonomic handle
- Low centre of gravity, extremely stable
- Effective parking brake prevents unintentional unwinding of the cable
- With patented conduit guide
- Thermal protection switch with restart protection according to VDE 0620
- 4 electric safety sockets 230 V, tested according to VDE
- For use in indoor and dry areas
- **not approved on commercial construction sites in Germany according to the Professional Association**

Technical Data

Power connection:	230 V, 16 A
Protection type:	IP 20
Rolled up performance:	1000 W
Unrolled performance:	3500 W

Article No.	Article Description	QTY
5425 1	CABLE DRUM ST/PVC 230V 25M	1
5425 2	CABLE DRUM ST/PVC 230V 50M	1



Cable Drum Sheet Steel / Rubber-Sheathed

- Low weight and flexible rubber-sheathed cable H05RR-F3 G1.5
- Hot-dip galvanized winding form, turnable winding handle
- Shock-absorbing, stable and zinc base frame
- Comfortable carrying due to ergonomic handle
- Low centre of gravity, extremely stable
- Effective parking brake prevents unintentional unwinding of the cable
- With patented conduit guide
- Thermal protection switch with restart protection according to VDE 0620
- 4 electric safety sockets 230 V, tested according to VDE
- For indoor and dry areas
- **not approved on commercial construction site in Germany according to the Professional Association**

Technical Data

Power connection:	230 V, 16 A
Protection type:	IP 20
Rolled up performance:	1000 W
Unrolled performance:	3500 W

Article No.	Article Description	QTY
5425 5	CABLE DRUM ST/RUBBER 230V 25M	1
5425 6	CABLE DRUM ST/RUBBER 230V 50M	1



Cable Drum Sheet Steel / Neoprene

- Heavy neoprene rubber cable H07RN-F3 G1.5 for continuous outdoor use, highly-flexible, resistant against, oil, fuel and UV radiation
- Zinced and long-lasting steel drum made of 1.5 mm sheet steel
- Especially stable and steel tube frame
- Comfortable carrying due to ergonomic handle
- Plug-parking station
- Effective parking brake due to rotational stop switch
- Can be used horizontal and upright
- 3 electric safety sockets 230 V, with safety hinged lid and thermal overload protection according to VDE 0620
- Cable drum diagnosis system „DiagS“ for fast error diagnosis by coloured control lamps
- For indoor and outdoor use
- **not approved on commercial construction site according to the Professional Association**

Technical Data

Power connection:	230 V, 16 A
Protection type:	IP 44
Rolled up performance:	1000 W
Unrolled performance:	3500 W



Article No.	Article Description	QTY
5425 4	CABLE DRUM ST/NEOPRENE 230V25M	1
5425 8	CABLE DRUM ST/NEOPRENE 230V40M	1

VAROBOXX Power Distributor 230 V

- Made of shock- and impact-proof ABS polymer
- Compatible with all VARPBOXXes
- Supply voltage: 230 V, 50 Hz, 16 A
- Access via add-on device connectors 230 V, 16 A, 3-pin, 6 h
- Output via 5 grounded power sockets 250 V, 16 A
- Fusing: Fault current circuit breaker 25 A, 0,03 A, 2-pin for all outputs under transparent, impact-resistant Makrolon cover
- Please use adapter line with Art-No. 9005 11 for the 230 V grounded power socket
- Outside dimensions (WxDxH): 442 x 359 x 252 mm
- Inside dimensions (WxDxH): 378 x 227 x 209 mm
- Protection type: IP20
- Weight: 4.2 kg



Article No.	Article Description	QTY
9003 11	VAROBOXX POWER DISTRIB. 230V	1

VAROBOXX Power Distributor 400 V

- Made of shock- and impact-proof ABS polymer
- Compatible with all VARPBOXXes
- Supply voltage: 400 V, 50 Hz, 16 A
- Access via add-on device connectors 400 V, 16 A, 5-pin, 6 h
- Output via 5 grounded power sockets 250 V, 16 A
- 1 CEE socket 400 V, 16 A, 5-pin, 6 h
- Fusing: Fault current circuit breaker 40 A, 0,03 A, 4-pin for all outputs under transparent, impact-resistant Makrolon cover
- Outside dimensions (WxDxH): 442 x 359 x 252 mm
- Inside dimensions (WxDxH): 378 x 227 x 209 mm
- Protection type: IP20
- Weight: 4.6 kg



Article No.	Article Description	QTY
9003 12	VAROBOXX POWER DISTRIB. 400V	1

Cable Drum Plastic / Plastic Cable

- Plastic-sheathed cable H05VV-F3 G1,5
- Robust, highly break-resistant special plastic
- Shock-absorbing, stable and zinc-plated base frame
- Effective parking brake prevents unwinding of the cable
- 4 electric safety sockets 230 V, tested according to VDE
- Thermal protection switch according to VDE 0620
- For indoor dry areas

Technical Data

Power connection:	230 V, 16 A
Protection type:	IP 20
Rolled up performance:	1000 W
Unrolled performance:	3500 W

Article No.	Article Description	QTY
5425 21	CABLE DRUM PLAST./PVC 230V 25M	1
5425 22	CABLE DRUM PLAST./PVC 230V 40M	1



Cable Drum Plastic / Rubber-Sheathed Cable

- Low weight and flexible rubber-sheathed cable H05RR-F3 G1.5
- Robust, break-resistant special plastic
- Shock-absorbing, stable and zinc-plated base frame
- Comfortable carrying due to ergonomic handle
- Low centre of gravity, extremely stable
- With patented conduit guide
- 4 electric safety sockets 230 V, tested according to VDE
- Thermal protection switch according to VDE 0620
- For indoor and dry areas

Technical Data

Power connection:	230 V, 16 A
Protection type:	IP 20
Rolled up performance:	1000 W
Unrolled performance:	3500 W

Article No.	Article Description	QTY
5425 10	CABLE DRUM PLASTIC/RUB.220V25M	1
5425 19	CABLE DRUM PLASTIC/RUB.230V50M	1



Cable Drum Plastic / Neoprene 1.5 mm²

- Heavy neoprene-rubber cable H07RN-F3 G1.5 for continuous outdoor use, highly-flexible, resistant against oil, fuel and UV-radiation
- Winding form made of special plastic, break-resistant and shock-absorbing
- Very stable and robust steel pipe frame, low centre of gravity
- Comfortable carrying due to ergonomic handle
- Plug-parking station
- Effective parking brake due to rotational stop switch
- Can be used horizontal and upright
- 3 electric safety sockets 230 V, with safety hinged lid and thermal overload protection according to VDE 0620
- Cable drum diagnosis system „DiagS“ for fast error diagnosis by coloured control lamps
- For indoor and outdoor use as well as for construction and assembly frames
- Approved according to BGI 608



Technical Data

Power connection:	230 V / 16 A
Protection type:	IP X4
Rolled up performance	1000 W
Unrolled performance	3500 W

Article No.	Article Description	QTY
5425 18	CAB.DRU.PLA/NE 1.5MM ² 230V 25M	1
5425 17	CAB.DRU.PLA/NE 1.5MM ² 230V 40M	1

Cable Drum KST / Neoprene Cable 1.5 mm²

- Heavy-duty neoprene rubber hose line H07RN-F3 G1.5 for long-term outdoor use, highly flexible, resistant to oil, petrol and UV-radiation
- Winding reel made from special plastic, shatter and impact resistant
- Shock-absorbing, stable, galvanized base
- With locking brake
- Ergonomically designed handle
- Three protective contact sockets 230 V, with hinged safety covers
- VDE thermal safety switch
- For use in indoor and outdoor applications as well as for construction and assembly sites
- **Approved according to BGI 608**



Technical Data

Power connection:	230 V / 16 A
Protection type:	IP 44
Rolled up power:	1,000 W
Unrolled power:	3,500 W

Article No.	Article Description	QTY
5425 2 3 15 25	CABLE DRUM KST/NEO.1.5MM ² 25M	1

Cable Drum Plastic / Neoprene 2.5 mm²

- Heavy neoprene-rubber cable H07RN-F3 G2.5 for continuous outdoor use, highly-flexible, resistant against oil, fuel and UV radiation
- Winding form made of special plastic, break-resistant and shock-absorbing
- Comfortable carrying due to ergonomic handle
- Plug-parking station
- Effective parking brake due to rotational stop switch
- Can be used horizontal and upright
- 3 electric safety sockets 230 V, with safety hinged lid and thermal overload protection according to VDE 0620
- Cable drum diagnosis „DiagS“ for fast error diagnosis by coloured control lamps
- Ideal for welding devices or other devices with high power performances
- For indoor and outdoor use as well as construction and assembly frames

• **Approved according to BGI 608**



Technical Data

Power connection:	230 V, 16 A
Protection type:	IP X4
Rolled up performance:	1000 W
Unrolled performance:	3500 W

Article No.	Article Description	QTY
5425 13	DRUM.PLASTIC/GU 2,5MM ² 220V25M	1
5425 14	DRUM.PLASTIC/GU 2,5MM ² 220V40M	1

Roofer Cable Drum Plastic / Neoprene

- Heavy neoprene-rubber cable H07RN-F3 G1.5 for continuous outdoor use, highly-flexible, resistant to oil, fuel and UV radiation
- Cable drum especially for the use on roof and scaffold. No activation of the thermal protective switch in case of intensive solar radiation
- Flexible extension cable without need to transport the cable drum since it is positioned nearby the socket and you only take the cable with the impact resistant solid rubber triple socket to your working place
- Winding form made of special plastic, break-resistant and shock-absorbing
- Especially stable steel pipe frame, low centre of gravity
- Comfortable carrying due to ergonomic handle
- Effective parking brake due to rotational stop switch
- Can be used horizontal and upright
- Thermal protection switch according to VDE 0620
- For indoor and outdoor use as well as for construction and assembly frames
- Approved according to BGI 608



Technical Data

Power connection:	230 V, 16 A
Protection type:	IP X4
Rolled up performance:	1000 W
Unrolled performance:	3500 W

Article No.	Article Description	QTY
5425 24	ROOF.CABLE DRUM PLA/NE 230V40M	1

Cable Drum Plastic / CEE 400 V

- Heavy neoprene-rubber cable H07RN-F5 G1.5, for continuous outdoor use, highly-flexible, resistant to oil, fuel und UV radiation
- Robust, highly break-resistant special plastic
- Shock-absorbing, stable and zinced base frame
- Comfortable carrying due to ergonomic handle
- Low centre of gravity, extremely stable
- Effective parking brake prevents unintentional unwinding of the cable
- With patented conduit guide
- 3-pole thermal protection switch according to VDE
- 2 electric safety sockets 230 V and 1 CEE socket 5-pole, 400 V, 16 A with safety hinged lid according to VDE
- For indoor and outdoor use as well as for construction and assembly frames



Technical Data

Power connection:	400 V / 230 V, 16 A
Protection type:	IP 44
Rolled up performance:	3x 1000 W
Unrolled performance:	3x 3500 W

Article No.	Article Description	QTY
5425 9	CABLE DRUM PLAST./NEOP.400V25M	1

Cable Box

- Shock-absorbing ABS-housing
- 4 electric safety sockets 230 V, with overload protection, accident and overheat-resistance
- Practical handle
- Plastic-sheathed H05VV-F3 G1.5
- For indoor and dry areas

Article No.	Article Description	QTY
5425 15	CABLE BOX PLASTIC/PVC 230V7.5M	1



Power outlet strips

- colour white
- child-proof plugs rotated 45°
- for indoor use
- 1.4 m plastic sheathed cable H05VV-F3G1.5
- Art.-No. 5425 50: with switch and control light

Article No.	Article Description	QTY
5425 51	POWER OUTL.STRIPS TRIPLE WHITE	1
5425 50	POW.OUTL.STRIP.5-S.W.SWI.WHITE	1



Cable Drum Plastic, Empty

- Safety empty drum made of highly break-resistant special plastic for up to 50 m cable
- Shock-absorbing, stable and zinc-plated base frame
- Effective parking brake to prevent unintentional unwinding
- Thermal protection switch according to VDE 0620
- 3 electric safety sockets 230 V, with safety hinged lid according to VDE
- Component parts tested according to TÜV/GS, with corresponding connection, is to be connected by a skilled electrician

Technical Data

Power connection:	230 V, 16 A
Protection type:	IP 44
Rolled up performance:	1000 W
Unrolled performance:	3500 W



Article No.	Article Description	QTY
5425 23	CABLE DRUM PLAST.EMPTY FOR 50M	1

Rubber Cable, Lightweight, Endless

- Lightweight rubber cable H05RR-F3 G1.5 and H05RR-F3 G2.5
- Endless without socket and coupling

Article No.	Article Description	QTY
5426 100 1	RI(100M)RUBBER CALBE 1,5MM ²	1
5426 100 2	RI(100M)RUBBER CALBE 2,5MM ²	1



Rubber Cable Heavy, Endless

- Heavy neoprene-rubber cable H07RN-F3 G1.5 and H07RN-F3 G2.5
- Endless without socket and coupling
- For continuous outdoor use, highly-flexible, resistant to oil, fuel and UV radiation

Article No.	Article Description	QTY
5426 100 3	RI(100M)NEOPR.RUB.CABLE 1,5MM ²	1
5426 200 3	RI(200M)NEOPR.RUB.CABLE 1,5MM ²	1
5426 100 4	RI(100M)NEOPR.RUB.CABLE 2,5MM ²	1



Power Cubes

- Available in any working height
- No cable entanglement at the working place
- Impact-proof plastic housing
- Practical hook for tools at the bottom side of the distributor
- Galvanised steel chain 3 m
- Connecting cable 5 m with protection contact or CEE version

Art.-No. 3920 41

- Version: 2x 4 protection contact sockets 230 V

Art.-No. 3920 42

- Version: 3x protection contact sockets 230 V
- 1 CEE socket 5-pole 400 V splash-proof

Art.-No. 3920 43

- Version: 3x protection contact sockets 230 V splash-proof
- 2x compressed air coupling, connecting hose 5 m Ø 6x 12 mm



3920 41

3920 42

3920 43

Article No.	Article Description	QTY
3920 41	ENERGY BLOCK1 PROT.CONT.SOCKET	1
3920 42	ENERGY BLOCK2PROT.CON.SOCK.CEE	1
3920 43	ENERGY BLOCK3 PROT.CONT.HOSE	1



3920 41

3920 42

3920 43

Cable Reel

- Traversable and thus mountable on both wall and ceiling - optimum operating range
- Short pull is enough to tighten the cable - allows working without cable entanglement
- Rubber cable with thermo overload protection - accident and over-heat-resistant
- IP 20, not suitable for use in exterior and moistened areas
- Cable: H05 VV-F / 3x1.5 mm²

Article No.	Article Description	QTY
5425 30 1	CABLE REEL PLASTIC/RUB.230V10M	1



Cable Reel 25 m

- Swivelling, ensuring optimal range
- With thermal overload protection
- Blocking device can be switched off
- Cable: H05VV-F / 3 × 1.5 mm²
- Cable length: 25 m
- Capacity, rolled up: 800 Watt
- Capacity, unrolled: 2000 Watt
- Protection class IP 24 (not for use in outside and wet rooms)
- „Slow-Motion“ recoil brake can be used (optional, Art.-No. 5425 25 2)

Article No.	Article Description	QTY
5425 25 1	CABLE REEL 230V 25M	1



Recoil Brake Slow Motion

- Safety issues are now more important than ever for day-to-day operation in a workshop. The Slow Motion System slows down the cable intake speed and thereby increases health and safety.
- The slow motion recoil brake prevents injuries or damage, e.g. to vehicles
- Slow motion can be mounted with just a few easy moves.

Article No.	Article Description	QTY
5425 25 2	SLOW MOTION FOR ART. 5425 25 1	1



Extension Cable

- VDE-tested 220 V extension cable with coupling and plug
- Version with rubber cable - IP44, admitted for short usage outside and in humid rooms
- PVC H05VV-F3G1,5 Colour red, IP 20
- Rubber H05RR-F3G1,5, Colour black

Article No.	Article Description	QTY
5426 10	EXTENSION PVC 220V 10M	1
5426 25	EXTENSION PVC 220V 25M	1
5426 10 1	EXTENSION RUBBER 220V 10M	1
5426 25 1	EXTENSION RUBBER 220V 25M	1



Extension Cables

- VDE-tested 220 V extension cable with splash-proof solid rubber coupling and solid rubber plug
 - impact and pressure-resistant
 - permanent usage outside and in humid rooms
- Heavy neoprene rubber cable H07RN-F3G1,5, resistant against oil, benzine and UV-ray
- Colour: black
- according to BGI 608

Article No.	Article Description	QTY
5426 10 2	EXTENSION NE.RU. 220V 10M	1
5426 25 2	EXTENSION NE.RU. 220V 25M	1



Extension with 3-fold Coupling

- VDE-tested 220 V extension cable with solid rubber plug and splash-proof 3-fold coupling - impact and pressure-resistant - permanent usage outside and in humid rooms
- Heavy neoprene rubber cable H07RN-F3G1,5 - resistant against oil, benzine and UV-ray
- according to BGI 608
- self-closing hinged lid

Article No.	Article Description	QTY
5426 10 3	EXTENSION 3-FOLD NE.RU.220V10M	1



Rotary Current Extension

- Heavy rubber cable
- Colour: black
- With high-grade screwed CEE-plug and CEE-coupling
- Resistant against oil, benzene and UV-ray
- Approved for the application on construction side and agricultural farms

Technical Data		
Cross section	Max. strain	Max. constant strain
5 × 1,5mm	16 A	<16 A
5 × 2,5mm	16 A	<16 A
5 × 2,5mm	32 A	23 A
5 × 4,0mm	32 A	30 A

Article No.	Article Description	QTY
5426 25 16	EXTENSION NE.GU.400V/16A 25M	1
5426 25 16 1	EXTENS. NE.GU.400V/16A 5X2.5MM	1
5426 25 32	EXTENSION NE.GU.400V/32A 25M	1
5426 25 32 1	EXTEN.NE.GU.400V/32A/5X4MM 25M	1



Extension Cable with PRCD-S Protective Switch

- VDE-tested 230 V extension cable with water-jet solid rubber coupling and plug – permanent usage outside and in humid rooms
- With PRCD-S protective switch
- required on each customer service and each small construction site, according to TRBS 2131/BGI 608 & GUV-V C53
- heavy neoprene rubber cable H07RN-F3G1,5
- in practically and stable transport case
- Colour: black



Article No.	Article Description	QTY
5426 45	EXTENSION PRCD-S 230V 3,0M	1

Spiral Extension

- Length: 1 m
- Flexible up to 5 m
- Delivery with coupling
- No dangerous stumbling any more
- Safety class: IPX4
- Colour: orange
- VDE tested: 220V spiral extension with coupling and plug
- Version with PU cable authorized for the use of the inside, outside and damping area

Technical Data

Cable type	Plug/coupling	Cable-Ø	Spiral-Ø outside
H07BQ-F3G1.5	Schuko/basic	9.5 mm	approx. 32 mm

Article No.	Article Description	QTY
5426 5	SPIRAL EXTENSION PU 220V 5M/1M	1



Spiral Extension with Triple Coupling

- Length: 1 m
- Flexible extendible up to 5 m
- Delivery with coupling
- No dangerous stumbling any more
- Safety class: IPX4
- Colour: orange
- VDE tested: 220V spiral extension with triple coupling and plug
- Authorized for inside, outside and damp areas

Technical Data

Cable type	Plug/coupling	Cable-Ø	Spiral-Ø outside
H07BQ-FG1.5	Schuko/triple	9.5 mm	approx. 32 mm

Article No.	Article Description	QTY
5426 5 3	SPIRAL EXT.PU 220V TRIPL.5M/1M	1



Rubber Coupling/-Plug 250 V

- 250 V according to VDE/ÖVE
- 10/16 A
- Plug: Water-jet-proof - for outside area usage

Article No.	Article Description	QTY
3890 1	RUBBER COUPLING 250V	e 10
3890 11	RUBBER PLUG 250V	1



Solid Rubber Coupling/-Plug 250 V

- 250 V according to VDE/ÖVE
- 10/16 A
- Coupling with cap/ plug: water-jet-proof, outside area usage
- Impact-resistant

Article No.	Article Description	QTY
3890 2	SOLID RUBBER COUPLING 250V	1 z
3890 20	SOLID RUBBER COUPL.W.CAP 250V	1
3890 21	SOLID RUBBER PLUG 250V	1



All-rubber 250 V 3-way plugs/sockets

- 250 V /16 A/max. 3500 W. as per VDE/ÖDE
- Splash-proof as per IP 44 - for use outdoors
- With rotating, self-closing hinged covers
- Made from impact-resistant plastic
- With an eyelet for hanging

Article No.	Article Description	QTY
3890 3	SOLID RUBBER PLUG TRIP. 250V	e 5



CEE-Wall/-Surface Mounted Socket 400 V

- 400 V acc. to VDE/ÖVE
- 5-pole
- Water-jet-proof, outside area usage
- Impact-resistant plastic



Article No.	Article Description	QTY
3891 16 2	CEE-WALL SOCKET 400V 16A	1
3891 32 2	CEE-WALL SOCKET 400V 32A	1

CEE-Plug / Phase Turning 400 V

- 400 V according to VDE/ÖVE
- 5-pole
- Water-jet-proof, outside area usage
- Impact-resistant plastic



Article No.	Article Description	QTY
3891 16 3	PLUG W.PHASE REVERSER 400V 16A	1
3891 32 3	PLUG W.PHASE REVERSER 400V 32A	1

CEE-Coupling/-Plug 400 V

- 400 V acc. to VDE/ÖVE
- 5-pole
- Water-jet-proof, outside area usage
- Impact-resistant plastic



Article No.	Article Description	QTY
3891 16	CEE-COUPLING 400V 16A	1
3891 16 1	CEE-PLUG 400V 16A	1
3891 32	CEE-COUPLING 400V 32A	1
3891 32 1	CEE-PLUG 400V 32A	1

Plastic Socket Distributor

- compact and handy plug distributors for carry, hanging-up and wall mounting use
- special construction of the handles - protect the installed plug- serve as a holder for cable rewind
- high quality neoprene rubber connecting cable H07 RN-F 5G2,5 with CEE-plug 16A 5p 400V; length: 2,5m
- colour: black

Technical Data

Art.-No.	5427 1	5427 1 1
Dimension B x H x T:	480 x 130 x 260 mm	480 x 130 x 260 mm
Protection classification:	IP 44	IP 44
Tipping:	4x Schuko 16A 250 V 2x CEE 16A 5p 400 V	4x Schuko 16 A 250 V 2x CEE 16 A 5p 400 V
Degree of protection:	-	1x Fi 40/0,03 A over all outputs



Article No.	Article Description	QTY
5427 1	PLASTIC SOCKET DISTRIB.4/2 16A	1
5427 1 1	PLAST.SOCK. DISTRIB.4/2 16A FL	1

Plastic mobile distributor

- handy, sturdy distributor made from shock-proof polyamide
- with stainless steel handle
- use as power or light flux supply for trade, construction industry, agriculture, etc.
- may be stacked, with taking-up motion for cable connection
- high quality neoprene-rubber flex H07 RN-F 5G2.5; length: 2 m
- colour: black

Article No.	Article Description	QTY
5427 3	SOCK.DISTR.PLAS. 5/2 16A	1
5427 3 1	SOCK.DISTR.PLAS. 5/2 16A FL	1
5427 4 1	SOCK.DISTR.PLAS. 16A/32A FL	1



Technical Data

	art. no. 5427 3	art. no. 5427 3 1	art. no. 5427 4 1
dimensions W x H x D:	200 x 197 x 197 mm	200 x 197 x 197 mm	200 x 197 x 197 mm
protection type:	IP 44	IP 44	IP 44
mounting:	5x Schuko 16A 250V 2x CEE 16A 5p 400V	5x Schuko 16A 250V 2x CEE 16A 5p 400V	3x Schuko 16A 250V 1x CEE 16A 5p 400V 1x CEE 32A 5p 400V
protection:	-	1x Fi 40/4/0,03A across all outputs	1x LS 16A 3p-C 1x LS 16A 1p-C 1x Fi 63/4/0,03A across all outputs

Socket Distributor (Solid Rubber), 3-Phase

- portable and handy three-phase solid rubber distributor
- unbreakable, halogen-free and non aging solid rubber housing
- folding hinged lid with snap closure for modular devices
- closed housing bottom part with high clearance height - against water penetration
- resistant to various oils, greases, petrol and acid; insensitive to weld spatter and shower of sparks
- long-term temperature resistance: -30°C to +100°C, UV- and ozone resistance
- colour: black

Technical Data

	Art.-No. 5427 2	Art.-No. 5427 2 1
Dimension B x W x D:	235 x 280 x 285 mm	235 x 280 x 285 mm
Protection type:	IP 44	IP 44
Mounting:	3x Schuko 16A 250V 2x CEE 16A 5p 400V 1x CEE 32A 5p 400V	3x Schuko 16A 250V 2x CEE 16A 5p 400V 1x CEE 32A 5p 400V
Protection:	1x LS 16A 3p-C 1x LS 16A 1p-C	1x LS 16A 3p-C 1x LS 16A 1p-C 1x Fi 63/0,03A across all outputs



Article No.	Article Description	QTY
5427 2	SOCKET DISTRIBUT.3/1 16A 1/32A	1
5427 2 1	SOCK.DISTRIBUT.3/1 16A /32A FL	1

Tension Straps

- One-way strap made of high tear-proof polyester thread as a perfect alternative for steel straps
- Weather proof, no corrosion, no damages to sensitive surfaces
- Shock absorbent, can be repeatedly retightened if the packaged good loses volume



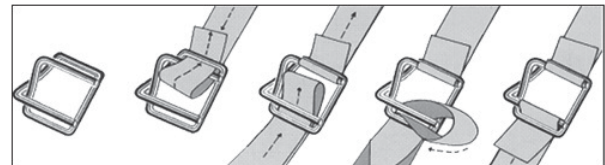
Technical Data			
Art. No.	Traction	Running meters per reel m	Bandwidth mm
5446 13	408	1000	13
5446 16	495	850	16
5446 19	579	600	19
5446 25	1020	400	25

Article No.	Article Description	QTY
5446 13	RO(1000M)TENS.STRAP 375KG 13MM	2
5446 16	RO(850M)TENS.STRAP 450KG 16MM	2
5446 19	RO(600M)TENS.STRAP 550KG 19MM	2
5446 25	RO(400M)TENS.STRAP 1020KG 25MM	2

Tension Strap Fastener

- Robust wire bending clamp for durable hold in the strapping
- Material: galvanized steel

Article No.	Article Description	QTY
5446 13 1	PK(1000)TEN.STR.FASTEN.GA 13MM	1
5446 16 1	PK(1000)TEN.STR.FASTEN.GA 16MM	1
5446 19 1	PK(1000)TEN.STR.FASTEN.GA 19MM	1
5446 25 1	PK(500)TEN.STR.FASTEN.GA 25MM	1



Tension Strap Dispenser

- for achieving the required preload forces with low effort

Art.-No. 5446 13 19:

- for straps between 13-19 mm strength

Art.-No. 5446 19 32:

- for straps between 19-32 mm strength

Article No.	Article Description	QTY
5446 13 19	TENS.STRAP TIGHTEN.FOR 13-19MM	1
5446 19 25	TENS.STRAP TIGHTEN F.19-25MM	1



5446 13 19



5446 19 25

Portable roll-up lashing belt

- Stable sturdy design
- Easy to carry or roll
- Both lashing-belt rollers are equipped with belt brakes
- Storage crate for accessories

Article No.	Article Description	QTY
5446 100 1	MOBILE ROLL-UP LASHING BELT	1
5446 200 1	PORTABL.ROLL-UP LASHING BELT	1

- Delivery without lashing belt
- Delivery without lashing belt



Manual Stretch Films

- For rapid packaging without cutting or sticking
- Different items are packaged, bundled, protected and secured
- Handy type, manual dispenser ensures comfortable processing

Article No.	Article Description	QTY
5444 100	RO(150M)MAN.STRETCH FILM 100MM	e 40
5444 500	RO(300M)MAN.STRETCH FILM 500MM	e 6
5444 500 3	RO(250M)MAN.STRE.FI.BK 500MM	e 6

Technical Data
Material strength μ :
23
17
23



Handles for Stretch Films

Article No.	Article Description	QTY
5419 22 3	MANUAL DISPENS.F.STRETCH FILM	1
5444 500 1	MET.MANUAL DISP.FOR 500MM FILM	1
5444 500 2	HANDLE FOR PACK.FILM 500MM	1



Sliding sleeves for stretch film

- for rapid fixing of products onto pallets
- for wrapping that is kind to your hands
- for all conventional hand rollers with inner core diameter 50 mm

Article No.	Article Description	QTY
5419 22 4	PCK(2)SLIDING SLEEV.F.STR.FILM	1



Bubble wrap

- 2-ply bubble wrap, transparent
- thickness: 60 μ
- bumps: \varnothing 10 mm
- chemically neutral



Article No.	Article Description	QTY
5444 1000	RO(100M)BUBBLE WRAP 1M	1

PVC Packaging Tape Embossed

- Adhesive packing tape made of embossed polyvinyl chloride (PVC)
- High quality natural rubber adhesive
- Lightly structured surface

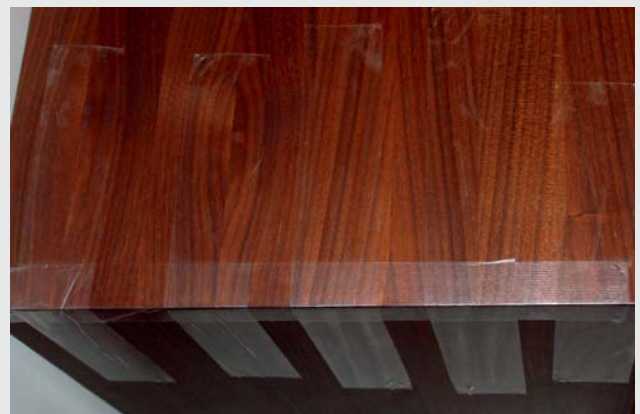
Your Advantage / Benefit

- High tear resistance in longitudinal direction
- Very good transverse
- Stretching
- Insensitive to moisture
- Easy to work with thanks to structured surface rolls out particularly quickly and easily



Application

- For sealing light to medium-weight packaging boxes
- Carpentry / Joinery work



Technical Data

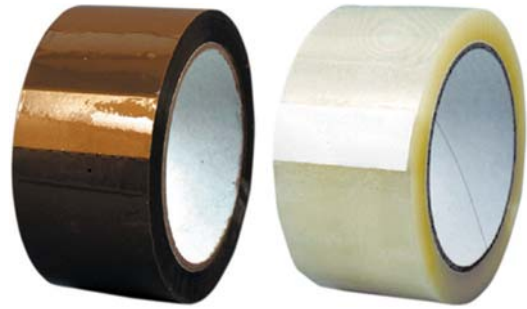
Colour:	transparent
Tape:	Polyvinyl chloride (E-PVC) embossed
Adhesive:	Natural rubber
Tape thickness:	31 µm
Total thickness:	54 µm
Adhesive strength / steel	4.5 N / 25 mm
Tear resistance:	115 N / 25 mm
Elongation at break:	60 %
Temperature resistance:	up to 65 °C (with reference to backingtape)

Article No.	Article Description	QTY
5444 6	RO<66M>PVC PACK.TAPE TP 50MM	s 36

Sealing Tapes

- Self-adhesive
- Art.-No. 5444 1, 5444 2:**
- Material: plastic
- Adhesive: acrylate adhesive
- Art.-No. 5444 4, 5444 5:**
- Material: plastic
- Adhesive: natural rubber-solvent-adhesive

Article No.	Article Description	QTY
5444 1	RO(66M)SEAL.TAPE PP BROWN 50MM	e 6
5444 2	RO(66M)SEAL.TAPE PP TRANS.50MM	e 6 x
5444 4	RO(66M)SEAL.TAPE PVC BWN 50MM	e 6
5444 5	RO(66M)SEAL.TA.PVC TRANSP 50MM	e 6



Kraft Paper Self-adhesive

- Environmentally friendly, self-adhesive sealing tape with excellent adhesive glue made of natural rubber
- Reusable together with the paperboard containers

Article No.	Article Description	QTY
5444 3	RO(50M)KRAFT PAP.SELF-ADH.50MM	e 6



Tape Unwinder

- Up to band width 50 mm

Article No.	Article Description	QTY
5444 9	TAPE UNWINDER	1



Adhesive Tapes for Carpets

- Two-sided self-adhesive
- To glue carpets

Article No.	Article Description	QTY
5445 38	RO(25M)SEAL.TAPE F.CARPET 38MM	e 32
5445 50	RO(25M)SEAL.TAPE F.CARPET 50MM	e 30



Dual lock tape

- high quality, tough self-adhesive acrylate foam adhesive with locking system by pressing a button
- elastic adhesive with increased adhesive strength
- noise and vibration-reducing properties
- lock made from polyolefin support with small hemispherical heads on short stems
- can be easily connected with one another
- a stable, strong and removable lock by pressing together two components
- excellent alternative to conventional mounting opportunities such as e.g. screwing, locking etc.
- the ideal solution for use in cars, buses, transporters, trains and boots as e.g. roof liner, roof covering, side panel fixing, column covering, instrument panel, centre console, inspection panels, seats, interior fittings
- different instruments and accessories

Technical Data

basic material:	
- carrier material:	polyamides coated with polyurethane
- material mushrooms:	Polypropylen
colour:	plain
mushrooms per cm²:	approx. 56
breadth:	25 mm
thickness:	approx. 30 N/mm ²
adhesive strength:	ca. 30 N/mm ²
adhesive:	acrylate foam, transparent
peel strength:	approx. 17 N/cm
shear strength:	approx. 43 N/cm ²
temperature range:	-30°C to +160°C (short-term)
to be glued materials:	
	metals, stone, ceramic, glass, painted parts and plastics such as PVC, ABS



Article No.	Article Description	QTY
5420 25 25	RO(25M)DUAL LOCK TAPE 25MM	1
5420 25 3	CT(3M)MUSHR.TAPE SK WH 25MM	1

ONE Velcro band

- hook and fleece band in one so that they are self-closing
- versatile and repeated use, can be easily opened and closed
- can be shortened to the desired length

applications:

- to bundle and sort cables in the field of electronics and in the car industry
- trade fair construction, light or stage technology
- to fix plants in garden centres
- for hobbies and leisure

Technical Data

Material:	PP / velour
colour:	black
breadth:	20 mm
length:	25 m
thickness:	1.35 mm
peel strength:	0.4 N/cm ²
shear strength:	7.0 N/cm ²
tensile strength:	120 N/cm ²
temperature resistance:	up to +150 °C

Article No.	Article Description	QTY
5420 20 10	RO(25M)VELCRO TAPE ONE BL.20MM	1



Velcro Tape

- Self-adhesive
- Polyamide 6.6 black
- In a dispenser cardboard box
- To fix and close several car parts and carpeting, e.g. car mats, labeling, etc.
- Velcro tape consists of: Hook and frieze band
(VELCRO and V VELCRO design are owned by Velcro Industries B.V.)



Technical Data		
	Art.-No. 5420 20:	Art.-No. 5420 20 1:
Material:	Polyamide 6.6	Polyamide 6.6
Temperature resistance:	-15 °C up to +90 °C	-15 °C up to +90 °C
Adhesive:	Acrylate Polymer/water base	Acrylate Polymer/water base
Colour:	RAL 9004/black	RAL 7046/light grey
Width:	20 mm	20 mm
Length:	10 m	10 m
Thickness:	2 mm	2 mm
Peel strength:	2,0 N/cm	2,0 N/cm
Shear strength:	10,3 N/cm ²	10,3 N/cm ²
Breaking strength:	210 N/cm	210 N/cm

Article No.	Article Description	QTY
5420 20	KT(10M)VELCRO TAPE BLACK2X20MM	1
5420 20 1	CT(10M)VELCRO TAPE GR 2X20MM	1



5420 20



5420 20 1

Felt Band Vibro-Soft

- Self-adhesive, black
- Band height: 1 mm
- The tape for '1001' options for vibration, sound and noise insulation (chattering)
- For all mounting parts, which are exposed to vibrations and oscillations due to natural vibration of the car e.g. hat half, headlining, running board, interior carpeting clips, cell phone car mount holder etc.
- In a dispenser cardboard carton

Article No.	Article Description	QTY
5420 20 8	RO(20M)VIBRO-SOFT 8MM	1
5420 20 20	RO(20M)VIBRO-SOFT 20MM	1



Compri Sealing Tape for Car

- Self-adhesive, pre-compressed, black sealing tape
- Sealing and vibration protection purposes in the area of ventilation and heating, bearing areas, cross bracing in the rear lid etc.
- Installation aid to protect against vibrations for car radios, loudspeakers etc.
- To wrap car aeriels (e.g. VW, Ford)
- After releasing the compression a reset force is developing which firmly presses against the gap flank and compensates flatness imperfections
- Temperature resistance from -30°C to 100°C (short-term up to 130°C)
- Material: PUR flexible foam carrier with acrylic dispersion impregnation

Technical Data			
Art.-No.	Width mm	Height compressed mm	Height expended joint width *) mm
5420 40	10	1	1-4
5420 41	15	2	2-6
5420 42	15	4	4-9
5420 43	20	1	1-4

Article No.	Article Description	QTY
5420 40	RO(13M)KOMPR.SEAL.TAPE 10/1-4	1
5420 41	RO(12M)KOMPR.SEAL.TAPE 15/2-6	1
5420 42	RO(8M)KOMPR.SEAL.TAPE 15/4-9	1
5420 43	RO(13M)KOMPR.SEAL.TAPE 20/1-4	1



*) Component movement and temporary length changes of the existing joints have to be considered on determining the appropriate band size

Clamp for Compressed Foam Tape

- For the fixation of compressed foam tape ends to the rolls
- Tape end is clamped to the roll and swelling of the tape end is prevented
- Also suitable for edge veneer rolls
- Clamp opening: 0 – 30 mm

Article No.	Article Description	QTY
8800 30	CLAMP F.COMPR.FOAM TABE 30MM	1
8800 95	CLAMP F.COMPR.FOAM TABE 95MM	1



Adhesive textile tape, flexible

- high quality textile tape
- PE-coated
- water-repellent
- thickness 170 µ
- adhesive on one side
- very flexible
- wide colour range: silver, black, white, red, blue

Art.-No. 3745 1 38 1:

- narrow type 38mm width

Technical Data

Adhesive:	Hotmelt
Mesh:	27
Thickness:	0,17 mm
Colours:	silver, black, white, red, blue
Ductility:	3 %
Tensile force:	50 N / 25 mm
Temperature resistance:	up to 60 °C



silver 3745 1 48 1	black 3745 1 48 2	white 3745 1 48 3	red 3745 1 48 4	blue 3745 1 48 5
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Article No.	Article Description	QTY
3745 1 38 1	RO(50M)ADH.TAPE FLEX.SILV 38MM	s 24
3745 1 48 1	RO(50M)ADH.TAPE FLEX.SILV 48MM	s 24
3745 1 48 2	RO(50M)ADH.TAPE FLEX.BLACK48MM	s 24
3745 1 48 3	RO(50M)ADH.TAPE FLEX.WHITE48MM	s 24
3745 1 48 4	RO(50M)ADH.TAPE FLEX.RED 48MM	s 24
3745 1 48 5	RO(50M)ADH.TAPE FLEX.BLUE 48MM	s 24

Adhesive textile tape, rugged

- high quality textile tape
- PE-coated, shiny surface
- excellent adhesion at low and high temperatures
- good performance on rough surfaces
- excellent tearing and unreeling properties
- leaves no residues
- suitable for indoor and outdoor applications
- very good UV-resistance
- water-repellent
- thickness 300 µ
- adhesive on one side
- wide colour range: silver, black, white, red, blue

Technical Data

Adhesive:	natural caoutchouc
Mesh:	70
Thickness:	0,30 +/- 0,03 mm
Bond strength:	5,95 N / 25 mm
Tensile force:	59 N / 50 mm
Rewinding force:	19,6 N / 50 mm
Colours:	silver, black, white, red, blue
Ductility:	10 %
Temperature resistance:	-35 °C up to +80 °C



silver 3745 2 50 1	black 3745 2 50 2	white 3745 2 50 3	red 3745 2 50 4	blue 3745 2 50 5
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Article No.	Article Description	QTY
3745 2 50 1	RO(50M)ADH.TAPE RU.SILVER 50MM	e 24
3745 2 50 2	RO(50M)ADH.TAPE RU.BLACK 50MM	e 24
3745 2 50 3	RO(50M)ADH.TAPE RU.WHITE 50MM	e 24
3745 2 50 4	RO(50M)ADH.TAPE RU.RED 50MM	e 24
3745 2 50 5	RO(50M)ADH.TAPE RU.BLUE 50MM	e 24

Tesa-Power Strip

- Absolutely tear-proof strapping tape on a PP-film basis with rubber adhesive masses
- Self-adhesive and extreme longitudinal resistance to tearing
- Resistant to heat and cold

Application:

- Fixing of glued screens
- Gluing of lacquered surfaces when cutting / sawing (installation of sun roof)
- Bundling of heavy tubes, strapping of heavy goods, gluing of steel coils (thin steel sheet)



Article No.	Article Description	QTY
3741 50 66	RO(66M)TESA-POW.STR.YELLOW50MM	1

Duct Tape

- Tape with smooth PE-surface coating
- Steam and water-proof
- Silicone-free

Application:

- Fixing of glued screens
- Gluing of lacquered surfaces when cutting / sawing (installation of sun roof)
- Bundling of heavy tubes, strapping of heavy goods, gluing of steel coils (thin steel sheet)



Article No.	Article Description	QTY
3741 19	RO(50M)DUCT TAPE BLACK 19MM	1
3741 38	RO(50M)DUCT TAPE BLACK 38MM	1
3741 50	RO(50M)DUCT TAPE BLACK 50MM	1
3741 75	RO(50M)DUCT TAPE BLACK 75MM	1
3741 90	RO(50M)DUCT TAPE BLACK 90MM	1
3741 50 1	RO(50M)DUCT TAPE WHITE 50MM	1

Duct tape universal, silver

- Textile adhesive tape with integrated woven fabric
- Tear-resistant under tension - hard-wearing
- Easy to tear by hand from the side
- Versatile range of applications
- Leaves no residues - adhesion tests are recommended
- Water-resistant

Art.-No. 3745 38 10:

- Narrow version, width: 38 mm

Types of applications:

- Sticking to stone, plaster, masonry and foamed materials
- Sticking to pipe insulation, foils, films, etc.
- Universal use as repair tape



Technical Data	
Base material:	Polyester fabric
Adhesive:	Natural rubber
Thickness:	0,20 mm (200µ)
Adhesive strength:	3,5 N/cm
Tear strength:	47,1 N/cm
Elongation at fracture:	12,5 %
Colour:	silver, black
Temperature resistance:	up to 80 °C

Article No.	Article Description	QTY
3745 38 10	RO(50M)ADH.TAPE UNI SILV. 38MM	e 32
3745 50 1	RO(50M)ADH.TAPE UNI SILV. 48MM	ev 24
3745 50 20	RO(50M)ADH.TAPE UNI BLACK 38MM	ev 24

Cover Adhesive Tape Fine Crepe „WET“ **FÖRCH*******

- Cover tape for automotive industry and metal trade



Your Advantage / Benefit

- very good adhesion
- compatible with the most common paints and lacquers
- removable without residue
- can be torn manually
- bonds on uneven surfaces
- resistant to moisture and water
- suitable for repetitive drying cycles, infrared drying
- can be used with heat lamps
- wet-grinding and filler proof

Application

- car body painting
- for vehicle repair
- painting works



Technical Data

Adhesive:	dry rubber - solvent based
Substrate material:	water-proof saturated paper backing
Colour:	blue
Total thickness:	0,130 mm
Adhesive power on steel:	4,8 N (25 mm)
Tear resistance:	90 N (25 mm)
Breaking elongation:	8 %
Temperature resistance:	90 °C (30 min) / 100 °C (15 min)
Storage:	clean and dry (15 – 25 °C)

Article No.	Article Description	QTY
5448 5 19 1	RO(50M)FINE CR.MASK.TA 19MM 5*	e 12 p
5448 5 25 1	RO(50M)FINE CR.MASK.TA 25MM 5*	e 9 x
5448 5 30 1	RO(50M)FINE CR.MASK.TA 30MM 5*	e 8
5448 5 38 1	RO(50M)FINE CR.MASK.TA 38MM 5*	e 6 D
5448 5 50 1	RO(50M)FINE CR.MASK.TA 50MM 5*	es 24

Fine Crepe Masking Tape **ECO**

- masking tape for automotive use and house painters

Note

- not suitable for infrared drying



Your Advantage / Benefit

- very good adhesion
- compatible with the most common paints and lacquers
- removable without residue
- can be torn manually
- bonds on uneven surfaces
- resistant to moisture and water
- suitable for repetitive drying cycles, infrared drying
- can be used with heat lamps
- wet-grinding and filler proof

Application



Technical Data

Adhesive:	natural caoutchouc and chemical resins
Backing:	saturated crepe paper
Colour:	green
Total thicknesses:	0.125 mm
Adhesion to steel:	4.3 N (25 mm)
Tear resistance:	75 N (25 mm)
Elongation at break:	8.5 %
Temperature resistance:	80 °C (30 min)
Storage:	clean and dry(15 – 25 °C)

Article No.	Article Description	QTY
5440N 19	RO(45M)FINE CREPE MASK.19MMECO	e 12 p
5440N 25	RO(45M)FINE CR.MASK.TA 25MMECO	e 9 x
5440N 30	RO(45M)FINE CR.MASK.TA 30MMECO	e 8
5440N 38	RO(45M)FINE CR.MASK.TA 38MMECO	e 6 D
5440N 50	RO(45M)FINE CR.MASK.TA 50MMECO	e 6 D

Masking Tapes Fine Crepe **FÖRCH*******

- masking tape for the automotive, metal and construction trade / industry
- suitable for repetitive drying cycles, infrared drying and the use of heat lamps
- can stand wet grinding and filler contact
- good adaptation and tear resistance
- removable without residues



Technical Data	
Adhesive:	Natural rubber
Carrier material:	Latex, impregnated slight crepped paper
Colour:	brown
Total strength:	0,175 mm
Bond strength on steel:	4 N/cm
Tensile strength:	44 N/cm
Elongation at break:	10,5 %
Temperature resistance:	+15 °C up to +140 °C

Article No.	Article Description	QTY
5448 5 19	RO(50M)FIN CR.MAS.TA.18MM 5*	e 12 p
5448 5 25	RO(50M)FIN CR.MAS.TA.24MM 5*	e 9 x
5448 5 30	RO(50M)FIN CR.MAS.TA.30MM 5*	e 8
5448 5 38	RO(50M)FIN CR.MAS.TA.36MM 5*	e 6 D
5448 5 50	RO(50M)FIN CR.MAS.TA.48MM 5*	e 5 w

Masking Tesa Fine Crepe Paper - Adhesive Tapes

- Standard masking tape for automobile-, metal- and construction sector
- suitable for repeating drying cycles, infrared-drying and for the usage of heat lamps
- wet grinding resistant and filler-resistant
- good adaption and tear resistance
- can be removed without residues



Technical Data	
Adhesive:	Natural rubber
Carrier material:	slight crepped paper
Colour:	brown
Total strength:	0,170 mm
Bond strength on steel:	3,5 N/cm
Tensile strength:	47 N/cm
Elongation at break:	12 %
Temperature resistance:	120 °C

Article No.	Article Description	QTY
5442 15	RO(50M)TESA FINE HEAT-RES.15MM	e 20
5442 19	RO(50M)TESA FINE HEAT-RES.19MM	e 16
5442 25	RO(50M)TESA FINE HEAT-RES.25MM	e 12
5442 30	RO(50M)TESA FINE HEAT-RES.30MM	e 10
5442 38	RO(50M)TESA FINE HEAT-RES.38MM	e 8
5442 50	RO(50M)TESA FINE HEAT-RES.50MM	e 6
5442 75	RO(50M)TESA FINE HEAT-RES.75MM	e 4

Masking Adhesive Tape 3M Type 2328

- Standard masking tape for automobile- and construction sector
- ideal adaption on curves and forms
- good paint-adhesion
- can be removed without residues
- not suitable for long outdoor-work
- not suitable for long treatment with water

Technical Data

Adhesive:	Natural rubber
Carrier material:	Latex, impregnated slight crepped paper
Colour:	beige
Total strength:	0,135 mm
Bond strength on steel:	2,6 N/cm
Tensile strength:	35 N/cm
Elongation at break:	12%
Temperature resistance:	120°C



Article No.	Article Description	QTY
5440 2328 19	RO(50M)MASK.ADH.T.3M 2328 18MM	e 12 p
5440 2328 25	RO(50M)MASK.ADH.T.3M 2328 24MM	e 9 x
5440 2328 30	RO(50M)MASK.ADH.T.3M 2328 30MM	e 8
5440 2328 38	RO(50M)MASK.ADH.T.3M 2328 36MM	e 6 D
5440 2328 50	RO(50M)MASK.ADH.T.3M 2328 48MM	e 6 D

Masking Fine Crepe Paper - Adhesive Tapes

- masking tape for the automobile industry
- can be removed without residues
- can stand wet grinding and filler contact

Technical Data

Adhesive:	Natural rubber
Carrier material:	crepped paper
Colour:	beige
Total strength:	0,130 mm
Bond strength on steel:	2 N/cm
Tensile strength:	36 N/cm
Elongation at break:	8 %
Temperature resistance:	100 °C



Article No.	Article Description	QTY
5440 15	RO(50M)MASK.TAPE HEAT-RES.15MM	e 15 l
5440 19	RO(50M)MASK.TAPE HEAT-RES.19MM	e 12 p
5440 25	RO(50M)MASK.TAPE HEAT-RES.25MM	e 9 x
5440 30	RO(50M)MASK.TAPE HEAT-RES.30MM	e 8
5440 38	RO(50M)MASK.TAPE HEAT-RES.38MM	e 6 D
5440 50	RO(50M)MASK.TAPE HEAT-RES.50MM	e 6 D

Masking Abrasive Crepe Paper - Adhesive Tape

- high stretchable masking tape

Technical Data

Adhesive:	Natural rubber
Carrier material:	crepped paper
Colour:	beige
Total strength:	0,280 mm
Bond strength on steel:	2 N/cm, 36 N/cm stretched
Tensile strength:	30 N/cm
Elongation at break:	38 %
Temperature resistance:	50 °C



Article No.	Article Description	QTY
5441 15	RO(50M)MASK.ABR.CREPE PAP.15MM	1
5441 19	RO(50M)MASK.ABR.CREPE PAP.19MM	1
5441 25	RO(50M)MASK.ABR.CREPE PAP.25MM	1
5441 30	RO(50M)MASK.ABR.CREPE PAP.30MM	1
5441 38	RO(50M)MASK.ABR.CREPE PAP.38MM	1
5441 50	RO(50M)MASK.ABR.CREPE PAP.50MM	1 D

Masking Tape for Trim Lines - Fine Line

- To mask when painting trim lines, creates low and neat lacquer edges, can be removed without trace
- Also appropriate for repeated sending through the furnace
- Flexible shape and solvent-resistant
- can be removed without residues

Technical Data

Adhesive:	Natural rubber
Carrier material:	Cadmium-free polymer-film
Colour:	green
Total strength:	0,130 cm
Bond strength on steel:	2,6 N/cm
Tensile strength:	30 N/cm
Elongation at break:	140%
Temperature resistance:	150°C



Article No.	Article Description	QTY
5419 450 3	RO(55M)MASK.TAPE FINE-LINE 3MM	1
5419 450 6	RO(55M)MASK.TAPE FINE-LINE 6MM	1
5419 450 9	RO(55M)MASK.TAPE FINE-LINE 9MM	1
5419 450 12	RO(55M)MASK.TAPE FINE-LINE 12MM	1

FOAM TAPE

- Self-adhesive finely poured foam profile
- For filling or masking of opening at doors, hoods, boot lids etc. prior to paintworks
- Excellent absorption and thus no lacquer edges
- The adhesive layer may not get in contact with paint in order to avoid chemical reactions
- After hardening immediately remove the tape to prevent residues
- Art. No. 5420 25: oval form
- In contrast to the round profile the oval formed profile is being attached inside directly to the door which has decisive advantages:
- No contact of paint and adhesive layer
- Can be pressed on exactly to the opening after closing the door
- Ideally suited for smooth transition when spraying

Article No.	Article Description	QTY
5420 13	CARTON(50M)FOAM TAPE 13MM	1
5420 17	CARTON(40M)FOAM TAPE 17MM	1
5420 25	CARTON(37M)FOAM TAPE 25MM	1



5420 13
5420 17



5420 25



- Specially modified polyethylene films for repeated use
- Easy handling with important time saving - cost reduction up to 62 %
- very good adaptability
- Absolutely water-proof, tear-proof, lint-free, micropore-sealed film
- 2-coloured functional separation:
- Grey inside safely adheres the vehicle by slightly pressing on
- Green outside is dust-binding (avoids dust inclusions) and guarantees outstanding lacquer adhesion
- Heat-resistant up to +105°C
- For full covering of vehicles: simply cut out the surfaces to be treated

Art.-No. 5419 19:

- Roll holder not equipped, for 3 rollers
- Max. width of roll 75 cm

Article No.	Article Description	QTY
5419 52	RO(25)LACQ.COV.HOLDER630X400CM	1
5419 19	ROLL HOLD.NON-EQUIPP.F.3 REELS	1

(Ro=Piece per roll / length x width cm)



Lacquer Protection Film

- very good adaptability
- absolutely water-proof, lint-free and micropore-sealed
- no spotting with residual moisture
- the printed outside of the film is lacquer-adhesive
- the inside slightly adheres to the vehicle
- Material: PE(Polyethylene)

Art.-No. 5419 2000, Art.-No. 5419 4000 1

- Colour: light-green - transparent
- Heat resistant up to +150°C
- Cover film: 17µ

Art. No. 5419 6000 1:

- Colour: white - transparent
- Heat resistant up to +150°C
- Cover film: 17µ

Article No.	Article Description	QTY
5419 2000	RO(500M)LACQUER FILM 200CM	1
5419 4000 1	RO(150M)LACQUER FILM 400CM	1
5419 6000 1	RO(100M)LACQUER FILM 600CM	1



5419 2000; 5419 4000 1



5419 6000 1

3M plastic squeegee 10 x 7 cm, gold-coloured

- Squeegee suitable for wet and dry gluing
- Ideal for precise application of adhesive films, tinted films, stickers
- For transferring vinyl lettering
- For bubble-free gluing
- PTFE-coated and therefore with excellent sliding properties
- Due to its sharp edges, film can be worked especially well into beading and edges
- Particularly strong and elastic
- Colour: gold



Note:

- To stick a felt edge onto the 3M plastic squeegee, we recommend the Vibro-Soft felt band, art.no. 5420 20 20

Article No.	Article Description	QTY
5419 90	3M PLAST.SQUEEGEE GOLD 10X7CM	1



Foil Cutter

- Foil cutter 4-fold with rotatable blade
- integrated plastic spring
- the blades can be changed without tools

Article No.	Article Description	QTY
5419 99	FOIL CUTTER	1 z
4751 9 0 2	PK(10)BLADES F.FOIL CUTTER	1



Lacquer Protection Film **ECO**

- Specially modified HDPE-film with high tear resistance
 - White-transparent colour, makes easy notice of contours possible and enables precise cutting
 - Very flexible
 - Absolutely water-proof, lint-free and micropore-sealed film
 - The printed outside of the film is lacquer-adhesive
 - The inside slightly adheres to the vehicle
 - Heat resistant up to +150°C
 - Cover film: 10µ
- Art. No. 5419 68:**
- Lacquer protection film holder with film cutter, max. width of roll 100 cm



Article No.	Article Description	QTY
5419N 4000	RO(300M)LACQUER FILM ECO 400CM	1

Masking Paper

Application:

- fix the paper with the smooth side upward
- In order to prevent a strike of paints, the paper must be doubled on the edge of the paint or propound a small paper (22 cm)



Technical Data

Paper weight: 50 g/m³
Roll length: 300 m

Article No.	Article Description	QTY
5443 22	RO(300M)MASKING PAPER MP 22CM	1
5443 38	RO(300M)MASKING PAPER MP 38CM	1
5443 60	RO(300M)MASKING PAPER MP 60CM	1
5443 90	RO(300M)MASKING PAPER MP 90CM	1
5443 150	RO(300M)MASKING PAPER MP 150CM	1

Tyre Covers

- Specially modified polyethylene films for repeated use
- Easy handling with important time saving - cost reduction up to 62 %
- High flexibility
- Absolutely water-proof, tear-proof, lint-free and micro-sealed film
- 2-coloured functional separation:
 - inside safely adheres the vehicle by slightly pressing on
 - labelled outside is dust-binding (avoids dust inclusions) and guarantees outstanding lacquer adhesion
- Heat-resistant up to 105°C
- Light blue - transparent
- For normal and wide base tyres



Article No.	Article Description	QTY
5419 56	RO(250)TYRE COVER 100X70CM	1

(Ro=Piece per reel / length x width in mm)

Rim Lacquer System Fix

- Easy and precise processing due to highly flexible material
- No demounting of tyre necessary
- Suitable for all vehicles from 13 to 23 inches
- High adaptability
- Saving of time and material compared to conventional processes
- Lacquer-adhesive
- Water-proof, tear-proof, micropore-sealed
- Heat resistant up to +105°C

Application:

- Deflate the tyres
- Remove the tyres from the rim
- Cover the rim with the tyre lacquer system
- Tighten the foil and fix the covering tape



Article No.	Article Description	QTY
5419 57	RO(80)RIM LACQUER SYSTEM FIX	1



Paintshop Mask

- With active coal filter, protects against organic gases and vapours up to 0.1 % volume or up to the limit value x 30 (MAC, TRK etc.)
- E.g. paintshop emission, adhesive vapours, acetone, aether, hydro-carbon, benzene, toluene etc.
- Filters are fixed to the mask and not changeable
- Particle filter class complies with EN 405: FFA 1 with active coal filter

Article No.	Article Description	QTY
5403 6601	PAINTSHOP MASK AC	1



Filter-Set for Painters

Article No.	Article Description	QTY
5403 6801 1	PAINT SPRAYING FILTERSET A2	1

Contents:

- 1x Art.-No. 5403 6801: Half mask
- 2x Art.-No. 5403 6804: Gas filter A 2
- 2x Art.-No. 5403 6811: Pre-filter cashing cover
- 20x Art.-No. 5403 6804 1: Spray-paint pre-filters



Duster 50 x 80 cm

- For pre-treatment of paint works
- Highly abrasion-proof and lint-free
- Impregnated with latex resin for total removal of superfine particles
- Close material structure - front and back side can be used
- In order to protect against contaminants, individually sealed
- Easy-to-use dispenser box
- Version: medium



Article No.	Article Description	QTY
5408 10	DUSTER 50X80 CM WHITE	10

Anti-static Cloth 40 x 40 cm

- Both sides are usable
- Little amount of humidity
- For the pre-treatment of paintings



Article No.	Article Description	QTY
5410 71	ANTI-STATIC CLOTH 40X40CM	1

Paint Mixing Cups and Lids

- Transparent disposable cups for mixing and storing of all kinds of paint material
- Clearly visible printing of filling quantity and mixing ratio
- Available in four volumes sizes, 400 ml / 600 ml / 1100 ml / 2300 ml
- Solid and flexible design
- Solvent-resistant
- Makes long storage time possible due to air-tight closing with suitable lid
- Bottom of cup with edge, no sticking on even surfaces

Technical Data

Filling capacity	Measurable quantity
385 ml	300 ml
750 ml	550 ml
1400 ml	1100 ml
2300 ml	1900 ml



Article No.	Article Description	QTY
5421 2 400	PK(200)PAINT MIXING CUP 400ML	1
5421 2 600	PK(200)PAINT MIXING CUP 600ML	1
5421 2 1100	PK(200)PAINT MIXING CUP 1100ML	1
5421 2 2300	PK(100)PAINT MIXING CUP 2300ML	1
5421 2 400 1	PK(200)LID FOR MIX.CUP 400ML	1
5421 2 600 1	PK(200)LID FOR MIX.CUP 600ML	1
5421 2 1100 1	PK(200)LID FOR MIX.CUP 1100ML	1
5421 2 2300 1	PK(100)LID FOR MIX.CUP 2300ML	1

Disposable paint pot set

- quick, safe and simple - the DeKup paint pot set
- an extremely flexible disposable pot guarantees consistent paint flow, small material residue as well as enormous time savings
- stable and ideal design of the pot system on the paint gun
- special nano coating inside the pot
- solvent-resistant
- user-friendly 710 ml pot format provides an ideal balance between material and weight
- packaging can be hung on the wall
- paint from any position - even above your head

Article No.	Article Description	QTY
5421 111	DISPOSABLE PAINT POT SET	1

Contents:

- 32x disposable pots
- 32x disposable lids



5421 111

5421 100 4

Multi-Purpose Lid and Cup Housing

- Stable and secure grip on paint gun
- Fast and safe fixing
- Optimum attachment on paint gun
- No thread at the outside part of the cup lid, thus low cleaning effort
- Painting from every position possible - also overhead
- Solvent-resistant

Article No.	Article Description	QTY
5421 110	PK(2)MULTI-PURP.CUP HOUSING	1



Adapter for Paint Guns Cup System

Adapter for usage of disposable paint cup systems

- Screw-in adapter suitable for all standard paint guns
- Ultralight aluminium alloy
- Fast and secure fixing of multipurpose lid due to Spirale-Bayonet-Joint

Areas of use:

Adapter suitable for paint guns

Art.-No. 5421 100 1:

- DeVilbiss GTI, PRI, GFG, Binks M14, Sharpe Cobalt

Art.-No. 5421 100 2:

- SATA 3000, 2000, KLC, Jet 90 & MC-B Serie, Sata QCC Pistolen & 96719

Article No.	Article Description	QTY
5421 100 1	ADAPTER-CUP SYSTEM F.DEVILBISS	1
5421 100 2	ADAPTER-CUP SYSTEM F.SATA	1



5421 100 1



5421 100 2

Filter Screen

- To screen paints and base coats
- Because of special adhesive applicable for all paints (also water-based paints)
- Lossless draining because of patented special top



Article No.	Article Description	QTY
5408 125	FILT.SCREEN F.WAT.LACQ.125MY	250
5408 190	FILT.SCREEN F.LACQ. FINE 190MY	250
5408 226	FILT.SCREEN.F.LACQ.MIDDLE226MY	250
5408 280	FILT.SCREEN.F.LACQ.COARSE280MY	250

Paint Filter Screen

- Suitable for all standard paint guns
- Mesh size: 226 µ



Article No.	Article Description	QTY
5408 20	PAINT FILT.SCR.PAINT GUN 275MY	g 100

Stirring Rods

- For fast mixing of all thin and flowing materials
- Perforated rod ends for optimum mixing results
- Bevelled ends for less frictional resistance
- High displacement of material due to special „S“ form
- Clean wiping due to sharp edges

Article No.	Article Description	QTY
5408 200	PK(100)STIRRING ROD 20CM	1
5408 290	PK(50)STIRRING ROD 29CM	1



Brush Bottles

- For filling paints for small repairs
- Solvent-resistant
- With mixing ball and integrated brush
- Leakproof
- Sticker for labelling enclosed

Article No.	Article Description	QTY
5408 020	PK(100)BRUSH BOTTLE 20ML	1
5408 050	PK(60)BRUSH BOTTLE 50ML	1



Dosing Bottle 100 ml

- For mixing and filling of lacquers in small containers for small repairs
- With splash insert cap for optimum dosage
- Solvent-resistant

Article No.	Article Description	QTY
5408 100	DOSING BOTTLE(4) 100ML	1



Paint Dabber Regular

- For precise repair work of stone impacts, scratches etc.

Article No.	Article Description	QTY
5416 20	PCK(100)DABBER REGULAR	1



Paint Slicer Hard Metal

- Paint run remover made of hardened and polished chrome-vanadium steel
- Ideal for the removal of hardened paint runs and dust embeddings
- Delivered in protection case

Article No.	Article Description	QTY
5408 40	PAINT SLICER HARD METAL30X25MM	1



Magnet Holder for Paint Slicer

- With Velcro for sanding discs

Article No.	Article Description	QTY
5408 41	MAGNET HOLDER FOR PAINT SLICER	1



Control black powder set

- For finding faults and checking ssnaded surfaces
- Reduces rework time
- Easy application by means of hand-held block with fine foam material
- Only use on dry surfaces
- Control powder colour: black

Article No.	Article Description	QTY
5408 60	CONTROL BLACK POWDER SET	1
5408 60 1	PK(6) CONTRL BL.POWDER SET	1

Contents Art.-No. 5408 60:

- 1x handheld block with PVC cover
- 2x cartridges of black powder, 30 g ea.



Door Foam Film

- PE-foam film, white
- Optimum protection against dirt and moisture between door cavity and door lining
- Absolutely waterproof
- Very flexible
- Sound-dampening
- Easy mounting - breakproof
- Self-adhesive - no glue or double-sided adhesive tape needed

Storage: Dry, +15 to +25°C, can be stored to 12 months

Fulfills the following specifications:

- Ford WSS - M99 P 9999 - A1 / Renault 00 - 10 - 050
- Opel Q 00001 / VW 50 115
- Sizes LxWxH: 10 m x 90 cm x 1.5 mm



Article No.	Article Description	QTY
5419 76	RO(10M)SPEC.DOOR FOAM FILM90CM	1

Door Covering Film

- Strong polyethylene film, transparent
- Optimum protection against dirt and moisture between door cavity and door lining
- Delivery: One roll with 100 pieces



Article No.	Article Description	QTY
5419 75	RO(100)DOOR COV.FILM 70CMX100M	1

Protection Film, Self-Adhesive

- Inside self-adhesive, outside even surface
- 90 µm thickness, extremely tear-proof
- Can be removed easily
- Sizes LxW: 100 m x 60 cm

Fields of application:

- Sealing of windows when screens or glass roofs are broken or missing
- As door lining
- When changing screens
- Step-in protection for door sills
- Protection of accident vehicles
- Carpet and interior protection
- Mudguard and radiator hood protection

Article No.	Article Description	QTY
5419 79	RO(100M)SPEC.PROT.FILM SA.60CM	1
5419 82	RO(100M)SP.PR.FILM SA.GREEN.60	1
5419 83	RO(100M)SP.PR.FILM SA.GREEN.90	1



5419 79



5419 82



5419 83

Paint protection film

- Innovative protective coat for endangered vehicle parts (car, motorcycle, boat)
- Free of yellowing
- Prevents invisible rust formation
- Assembly in the wet adhesive process
- Free of residues, removable
- UV Stable
- Caution: Film must be replaced after 2 years

Article No.	Article Description	QTY
5419 77	PAINT PROT.FI.TRANSP. 17X165CM	1
5419 77 1	PAINT PROT.FI.BLACK 17X165CM	1



5419 77



5419 77 1

Edge Protection Profile

- Material: PVC black with metal insert
- For defusing and covering metal plate edges

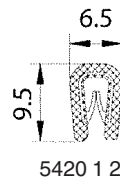
Art.-No. 5420 1 2:

- Clamping range: 1.0 - 2.0 mm

Art.-No. 5420 1 4:

- Clamping range: 1.0 - 4.0 mm

Article No.	Article Description	QTY
5420 1 2	RO(10M)EDGE PROT.PROFILE 1-2MM	1
5420 1 4	RO(10M)EDGE PROT.PROFILE 1-4MM	1



5420 1 2



5420 1 4



Protective foil Optset 3 in 1

- 3 in 1 seat covers for vehicle maintenance / customer service
- dust-protected in a practical dispenser with 250 sets
- 3 seat covers in a roll **seat cover:** 790 mm x 1330 mm **steering wheel protection:** 490 mm x 150 mm **foot mats:** 550 mm x 550 mm



Article No.	Article Description	QTY
5419 8	RO(250)SEAT COVERS OPTISET3IN1	1
5419 19 2	ROLL HOLD.F.OPTISET 3IN1	1

Protective foil Clean-Set 5 in 1

- Set with each 1x cover for seat, steering wheel, gear lever, hand-brake and foot mats
- protection against dirt on service- and repair work, as well as transport, storage etc.
- Material: environmental-friendly Polyethylene (PE)



Article No.	Article Description	QTY
5419 14	P(100)PROTECT.FOILS'CLEAN SET'	1

Truck 5 in 1 set of protection film

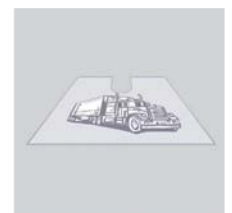
- Protective cover for commercial vehicles
- Each bag contains 5 protective covers, 1 each for steering wheel, seat cover, handbrake, foot mat with recess for steering column and gear lever
- Practical set of 100 in a box
- **Steering wheel protector:** Ø 550 mm
- **Seat protector:** 850 x 1400 mm
- **Floor mat:** 450 x 500 mm
- **Handbrake:** 130 x 140 mm
- **Gear lever:** 130 x 140 mm



Steering wheel protector



Seat protector



Foot mat



Handbrake



Gear lever

Article No.	Article Description	QTY
5419 25	P(100)PROT.FOIL'CLEAN SET'5IN1	1

Protective Foils for Automotives

- Protects from dirt during maintenance and repair works as well as transport, warehousing etc.
- Material: environmental-friendly polyethylene (PE)

Art.-No. 5419 9:

- Seat covers „Standard“ 800 x 1300 mm, white

Art.-No. 5419 10:

- Seat covers „Professional“ 800 x 1300 mm, special coating prevents sliding of the foil on the seat, white/blue

Art.-No. 5419 15:

- signal colour „yellow“
- made of strong polyethylene, antistatic equipped DIN IEC 93
- protects electronic devices of electrostatically discharge
- suitable for all single-seats
- Dimension: 840 mm x 1400 mm

Art.-No. 5419 11:

- Anti-skid foot mats, 400 x 550 mm, grey/black

Art.-No. 5419 12:

- Highly elastic steering wheel protection, anti-skid, blue

Art.-No. 5419 19:

- Roll holder for 3 rolls, non-equipped

Art.-No. 5419 1:

- Roll holder with 1 roll á 500 pieces:
 - Art. No. 5419 10 seat covers
 - Art. No. 5419 12 steering wheel protection
 - Art. No. 5419 11 foot mats

Art.-No. 5419 13:

- Gearshift protection made of PE 130 x 140 mm

Art.-No. 5419 22:

- Roll - endless steering wheel protection 330 m x 125 mm, can be expanded, anti-skid adhesion foil with all-purpose handle, also for steering wheels of big commercial vehicles

Art.-No. 5419 22 2:

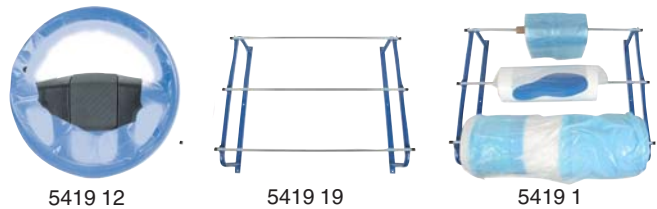
- Roll - endless steering wheel protection 330 m x 125 mm

Art.-No. 5419 22 3:

- All-purpose handle; by pressing the handle together at the front side, it can be removed out of the foil pipe

Art.-No. 5419P 22:

- Package with 6 rolls - endless steering wheel protection 330 m x 125 mm and all-purpose handle



Article No.	Article Description	QTY
5419 9	RO(500)SEAT COVERS PE	1
5419 10	RO(500)SEAT COVER PE ANTI-SKID	1
5419 11	RO(500)FOOT MATS PE 400X550MM	1
5419 12	RO(500) STEER WHEEL PRO.PE	1
5419 15	RO(250)SEAT COVERS PE ANTIST.	1
5419 19	ROLL HOLD.NON-EQUIPP.F.3 REELS	1
5419 1	ROLL HOLD.W.3RO.VEH.PROT.FOIL	1
5419 13	C(500)GEARSHIFT PROTECTION	1
5419 22	RO(330M)STEER.WH.PROT.W.HANDLE	1
5419 22 2	RO(330M)STEER.WH.PROTECT.125MM	1
5419 22 3	MANUAL DISPENS.F.STRETCH FILM	1
5419P 22	PK(6)RO STEER.WH.PROT.W.HANDLE	1
5419 16	P(100PCS)WIPER BL.PROT.COVER	1

Foot Mats - Crape

Art.-No. 5419 21:

- Dimension (L x W): 38 x 50 cm
- Weight: 70 g/m²

Art.-No. 5419 23:

- Dimension (L x W): 50 x 70 cm
- Weight: 180 g/m²
- With beveled corner

Art.-No. 5419 26:

- Dimension (L x W): 38 x 50 cm
- Weight: 70 g/m²
- Roll Ø: 20.5 cm



Article No.	Article Description	QTY
5419 21	C(500)CRAPE-FOOT MATS 38X50CM	1
5419 23	C(250)CRAPE-FOOT MATS 50X70CM	1
5419 26	RO(500)CRAPE-FOOT MATS 38X50CM	1

Foot Mats Paperplast

- Size LxW: 38 x 50 cm
- Paper laminated with foil on one side
- Water-resistant

Article No.	Article Description	QTY
5419 24	C(500)FOOT MATS PAPERP.38X50CM	1



Foot Mats PE

- Dimension (L x W): 40 x 50 cm
- Non-slip
- Colour: grey / black
- Material: environmental-friendly Polyethylene (PE)

Article No.	Article Description	QTY
5419 11	RO(500)FOOT MATS PE 40X550MM	1



Nylon Seat and Steering Wheel Cover

- Lightweight, thin and smooth
- Easy and space-saving storage and transport, e.g. repair service
- Washable: re-usable
- Oil and fuel resistant, water-proof
- Color: blue



Article No.	Article Description	QTY
5419 200	NYLON SEAT COVER	1
5419 210	STEERING WHEEL COVER NYLON	1

Synthetic Leather Seat Covers

- All strongly utilised parts are double-sewed
- Water-proof
- Color: blue



Article No.	Article Description	QTY
5419 30	SYNTHETIC LEATHER SEAT COVERS	1

Seat Cover with Airbag Approval Artificial Leather

- with technical report (Nr. 133XS0091-00) of the TÜV Rheinland
- complies with ABE (acc. to. §22 StVZO) for seat covers, replacement seat covers for vehicles equipped with side airbag systems
- meets at -40 °C the requirements of the inflation test (spatial behaviour of the side airbag when unfolding)
- complies with the requirements of flammability test acc. to 95/28/EG Anh,IV
- the seat cover had been tested on the vehicles stated on the application list
- watertight
- colour: black



Article No.	Article Description	QTY
5419 31	SEATCOVER-AIRBAGAPPR.ARTIF.LEA	1

Manufacturer	Model	Official Type Designation	BE-No. (EU - Approval Number)
Alfa Romeo	156	932	e3*96/27*0034
			e3*98/14*0034
Audi	A3, S3	8L	e1*95/54*0042
			e1*98/14*0042
			e1*93/81*0013
Audi	A4, -Avant, S4	B5	e1*98/14*0013
			e1*98/14*0002
Audi	Audi Cabrio	89	e1*98/14*0002
Audi	A6, -Avant, Allroad	4B	e1*96/27*0051
			e1*98/14*0051
			e1*98/14PD0051
			e1*2001/116*0051
Audi	TT	8N	e1*93/81*0005
			e1*98/14*0005
			e2*93/81*0104
Citroen	Xsara, -Break, -Coupe	N6	bis ...*0115
			e2*98/14*0104
			bis ...*0111
			e2*98/14*0115

Workshop Requirements, Workshop Devices



Manufacturer	Model	Official Type Designation	BE-No. (EU - Approval Number)
Citroen	Xsara, -Break, -Coupe		e2*93/81*0175
			e2*98/14*0175
			e2*93/81*0189
			e2*98/14*0189
Fiat	Brava, Bravo	182	e3*96/27*0019
Fiat	Marea, -Weekend	185	e3*95/54*0003
			e3*96/79*0039
Fiat	Multipla	186	e3*96/79*0042
			e3*98/14*0042
			e3*98/14D0050
			e3*98/14D0090
Fiat	Punto	188	e3*98/14*0048
Ford	C-Max, Kuga	DM2	e13*2001/116*0109
		DM2-LPG	e13*2001/116*1000
		DM2-CNG	e13*2001/116*1018
Ford	Cougar	BCV	e9*96/79*0027
Ford	Focus	DBW	e13*97/27*0038
		DFW	e13*97/27*0039
		DAW	e13*97/27*0037
		DNW	e13*97/27*0040
		DBX	e13*98/14*0058
		DAX	e13*98/14*0057
		DNX	e13*98/14*0056
		DA1	e13*98/14*0081
		DB1	e13*98/14*0082
		DN1	e13*98/14*0095
Ford	Galaxy `06 / S-MAX	WA6	e1*2001/116*0185
Ford	Mondeo	BFP	e1*95/54*0045
		BAP	e1*95/54*0046
		BNP	e1*95/54*0047
		BFW	e1*98/14*0125
		BAW	e1*98/14*0124
		BNW	e1*98/14*0126
Ford	Galaxy `00	WGR	e1*95/54*0024
			e1*2001/116*0024
Ford	Transit / Tourneo Connect	PH2	e1*2001/116*0206
		PJ2	e1*2001/116*0207
Honda	Accord	CG7	e11*98/14*0103
		CG8	e11*98/14*0104
		CG9	e11*98/14*0105
		CH1	e11*98/14*0106
		CH2	e11*98/14*0116
		CH5	e11*98/14*0117
		CH6	e11*98/14*0118
		CH7	e11*98/14*0119
		CH8	e11*98/14*0120
		CL3	e11*98/14*0165
		CL4	e11*98/14*0166
Hyundai	Sonata	EF	e4*97/27*0032
			e4*98/14*0032
Mazda	Premacy	CP	e1*98/14*0116
Mazda	323, -F	BJ	e1*97/27*0094
			e1*98/14*0094
		BJD	e1*98/14*0181
Mazda	626	GF / GW	e1*96/27*0055
			e1*98/14*0055
Mercedes-Benz	A-Klasse	169	e1*2001/116*0288
Mercedes-Benz	B-Klasse	245	e1*2001/116*0314
Mercedes-Benz	C-Klasse, -Kombi	204	e1*2001/116*0431
		204 K	e1*2001/116*0457
Mercedes-Benz	E-Klasse, -Kombi	211	e1*98/14*0183
			e1*2001/116*0183
Mercedes-Benz		211 K	e1*2001/116*0213
Mitsubishi	ASX	GA0	e1*2007/46*0368
Mitsubishi	Carisma	DA0	e4*93/81*0005
			e4*98/14*0005
Mitsubishi	Colt, Lancer	CJ0	e1*93/81*0031
Mitsubishi	Galant	EA0	e4*95/54*0014
Mitsubishi	(Pajero) Pinin	H60W	e1*98/14*0123
Mitsubishi	Space Star	DG0	e4*97/27*0030
			e4*98/14*0030
Mitsubishi	Space Wagon, -Runner	N50	e1*97/27*0103
Nissan	Almera	N15	e1*93/81*0025
		N16	e11*98/14*0129
Nissan	Micra	K11	e11*93/81*0021
			e11*98/14*0021

Workshop Requirements, Workshop Devices



Manufacturer	Model	Official Type Designation	BE-No. (EU - Approval Number)
Nissan	Primera, -Traveller	P11	e11*93/81*0060 ab Nt. 04
Opel	Astra-G	T98/NB	e1*97/27*0101 e1*98/14*0101
Opel	Astra-G-CC	T98	e1*97/27*0086 e1*98/14*0086
Opel	Astra-G-Caravan	T98 / Kombi	e1*97/27*0087 e1*98/14*0087
Opel	Astra-G-Lieferwagen	Astra-G-Van	K182
Opel	Astra-G-Coupé, -Cabrio	T98C	e1*98/14*0132
Opel	Astra-H	A-H	e1*2001/116*0261 e1*2007/46*0344
		GMIH	e50*2001/116*0007
Opel	Station Wagon	A-H / SW	e1*2001/116*0293 e1*2007/46*0341
		GMIJ	e50*2001/116*0008
Opel	Astra-H GTC, - Cabrio, -Twin Top	A-H / C	e4*2001/116*0094
Opel	(Stufenheck)	A-H / NB	e1*2001/116*0454 e1*2007/46*0340
Opel	Corsa-B	S93	e1*96/27*0053 e1*98/14*0053
Opel	Corsa-B-Caravan	S93 / Kombi	e1*97/27*0098 e1*98/14*0098
Opel	Combo-B	S93P-PBV	e1*96/27*0052 e1*98/14*0052
Opel	Omega-B	V94	e1*96/79*0077 e1*98/14*0077
Opel	Omega-B-Caravan	V94 / Kombi	e1*96/79*0078 e1*98/14*0078
Opel	Sintra	GM 200-GME	e13*95/54*0018 e13*98/14*0018
Opel	Vectra-B, Vectra-B-CC	J96	e1*95/54*0030 e1*98/14*0030
Opel	Vectra-B-Caravan	J96 / Kombi	e1*95/54*0044 e1*98/14*0044
Opel	Zafira-A	T98MONOCAB	e1*98/14*0110
Opel	Zafira-A-CNG	T98MONOCAB / CNG	e1*98/14*0200
Peugeot	206 (alt)	2..HFZ	e2*93/81*0168
		2..KFX	e2*93/81*0170
		2..NFZ	e2*93/81*0171
		2..RFR	e2*93/81*0172
		2..WJZ	e2*93/81*0173
		2..RHY	e2*93/81*0174
		2..WJY	e2*93/81*0085
Peugeot	306, -Break	7..RHY	e2*93/81*0081 e2*98/14*0081
		7..WJY	e2*98/14*0086
		7..A9A	e2*93/81*0144
		7..DHY	e2*93/81*0145
		7..DJY	e2*93/81*0146
		7..KFX	e2*93/81*0147
		7..LFY	e2*93/81*0148 e2*98/14*0148
		7..LFZ	e2*93/81*0149
		7..NFZ	e2*93/81*0150
		7..RFV	e2*93/81*0151
		7..RFS	e2*93/81*0152
		7..DHV	e2*93/81*0167
		7..WJZ	e2*93/81*0190
		7..NFT	e2*98/14*0241
		7..KFW	e2*98/14*0240
Peugeot	406, -Break	8..DHW	e2*93/81*0023
		8..BFZ	e2*93/81*0024 e2*98/14*0024
		8..RFV	e2*93/81*0025 e2*98/14*0025
		8..LFY	e2*93/81*0026 e2*98/14*0026
		8..DHX	e2*93/81*0027
		8..D8B	e2*93/81*0028
		8..P8C	e2*93/81*0029
		8..RGX	e2*93/81*0073
		8..RHY	e2*93/81*0087 e2*98/14*0087
		8..RFR	e2*93/81*0088 e2*98/14*0088

Workshop Requirements, Workshop Devices



Manufacturer	Model	Official Type Designation	BE-No. (EU - Approval Number)
Peugeot	406,- Break	8..3FZ	e2*98/14*0089
		8..XFX	e2*98/14*0090
		8..6FZ	e2*98/14*0092
		8..XFZ	e2*93/81*0101
			e2*98/14*0101
		8..LFX	e2*93/81*0155
			e2*98/14*0155
		8..RHZ	e2*93/81*0188
			e2*98/14*0188
			8..RLZ
	8..RHS	e2*98/14*0264	
Renault	Clio, Thalia	B	e2*93/81*0126
			e2*98/14*0126
		6	e4*98/14*0046
Renault	Espace	JE	e2*93/81*0084
			e2*98/14*0084
Renault	Mégane	BA	e2*93/81*0010
			e2*98/14*0010
Renault	Mégane Break	KA	e2*98/14*0192
Renault	Classic	LA	e2*93/81*0072
			e2*98/14*0072
Renault	Mégane Scenic	JA	e2*93/81*0068
			e2*98/14*0068
Renault	Mégane Coupé	DA	e2*93/81*0009
			e2*98/14*0009
Renault	Mégane Cabriolet	EA	e2*93/81*0103
			e2*98/14*0103
Renault	Twingo	C06	e2*93/81*0071
			e2*98/14*0071
Seat	Arosa	6H	e1*95/54*0049
			e1*98/14*0049
		6HS	e9*98/14*0037
Seat	Ibiza	6K	e9*98/14*0001
Seat	Toledo, Leon	1M	e9*97/27*0026
			e9*98/14*0026
Skoda	Fabia, - Combi	6Y	e11*98/14*0123
Skoda	Octavia, - Combi	1U	e11*95/54*0066
Subaru	Forester	SF	e13*96/79*0029
		SF / SFS	e1*97/27*0088
			e1*98/14*0088
Toyota	Avensis	T22	e11*96/79*0077
Toyota	Avensis Verso	M2	e6*98/14*0083
Toyota	Camry	V2	e6*93/81*0029
Toyota	Corolla	E11	e6*95/54*0043
		E11 U	e11*98/14*0102
Toyota	Yaris	P1	e6*98/14*0064
			e6*2001/116*0064
Toyota	Yaris Verso	P1F	e2*98/14*0248
			e2*2001/116*0248
		P2	e6*98/14*0066
			e6*2001/116*0066
Volvo	S 40, V 40	V	e4*96/27*0007
			e4*98/14*0007
Volvo	S 80, S 70, V 70 S 70-, V 70 BIFUEL	L	e9*93/81*0002
		G	e9*97/27*0027
Volvo	940, S 90, V 90	9	e4*95/54*0006
VW	Amarok	2H	e1*2007/46*0356
		2HS2	e1*2007/46*0750
VW	Caddy, -Life	2K	e1*2001/116*0252
VW	Caddy, (LKW)	2KN	L320
VW	Golf, Vento	1H	e1*96/79*0068
VW	Golf, Vento syncro	1HX1	e1*92/53*0004
VW	Golf (III) Cabriolet	1E	e1*96/79*0070
VW	Golf	1J	e1*96/79*0071
			e1*98/14*0071
VW	Golf (IV) Cabriolet	1E	e1*96/79*0070
			e1*98/14*0070
VW	Golf (V / VI)	1K	e1*2001/116*0242
VW	Golf (V / VI) Plus	1KP	e1*2001/116*0304
VW	Jetta, Golf (V / VI) Kombi	1KM	e1*2001/116*0328
VW	Lupo	6X	e1*97/27*0085
			e1*98/14*0085
			e1*2001/116*0085
VW	Lupo GTi	6ES	e1*98/14*0147
VW	New Beetle	9C	e1*97/27*0106
			e1*98/14*0106

Workshop Requirements, Workshop Devices



Manufacturer	Model	Official Type Designation	BE-No. (EU - Approval Number)
VW	New Beetle	9C	e1*2001/116*0106
VW	New Beetle Cabriolet	1Y	e1*2001/116*0205
VW	Passat	3B	e1*95/54*0043
			e1*98/14D0043
			e1*98/14*0043
		3BG	e1*98/14*0157
		3BL	e1*98/14PD0162
		3BS	e1*98/14*0173
VW	Polo	6N	e1*98/14*0069
		6NF	G951
VW	Polo Classic	6KV	e9*98/14*0008
VW	T5	7HC	e1*2001/116*0220
		7HCA	e1*2001/116*0286
		7HM	e1*2001/116*0218
		7HMA	e1*2001/116*0289
		7JO	L225
		7HK	L148

Mudguard Cover Anti-Slip Artificial Leather

- Dimension: 110 x 60 cm
- Colour: black

Your Advantage / Benefit

- No magnets, thereby no scratching of the paint surface
- With suction cups (detachable) and round sling (Velcro)
- Anti-slip coating on the reverse side
- Resistant to gasoline, coolant and brake fluid drops

Application

- Mudguard cover can be mounted on the headlight thanks to the suction cups
- Put the round sling on an appropriate point
- The anti-slip mat ensures a secure grip on the painted surface



Article No.	Article Description	QTY
5419 45	PAIR-MUDGUARD COVERS ANTI-SLIP	1

Scope of delivery:

- 2x Mudguard covers– anti-slip made of artificial leather

Synthetic Leather Mudguard

- Optimum adhesion due to magnets
- Length: 110 cm
- Color: blue

Article No.	Article Description	QTY
5419 40	(PK2) WING PROTECTION COVERS-M	1



Front Cover Artificial Leather

- optimum protection against damage during repair and maintenance
- the cut-out for headlights covered by a burlled mesh allow to control the headlights without risk of overheating
- suitable for small cars, upper middle class cars (MB S-class / VW Phaeton) and transporters (MB VIANO / VW T4/T5)
- width of the cover can be adjusted by centrally sewn Velcro
- with straps for side mirrors and hooks for the engine compartment
- without magnetic adhesion - no adhesion of metal cuttings
- quick and simple mounting on the vehicle
- high-quality leatherette coated with foam
- resistant to petrol, coolant and brake fluid drops
- colour: black

Article No.	Article Description	QTY
5419 226	FRONT COVER UNIVERSAL LEATHER	1



Nylon front protector

- overall protection when working in the engine compartment
- adjustable Velcro strips for fixing on to the wing mirrors and inside the vehicle
- can be washed at 40° after removing the slip-resistant padding in the mud guard
- possible to work on the wheels and brakes via the wheel arches
- network coverage in the area of the headlights and radiator enables the motor to be test run and the lights to be tested
- durable nylon fabric
- water-proof, oil and grease-repellent
- colour: blue

Article No.	Article Description	QTY
5419 225	FRONT PROTECTOR UNI-NYLON	1



Anti-Slipping Mats

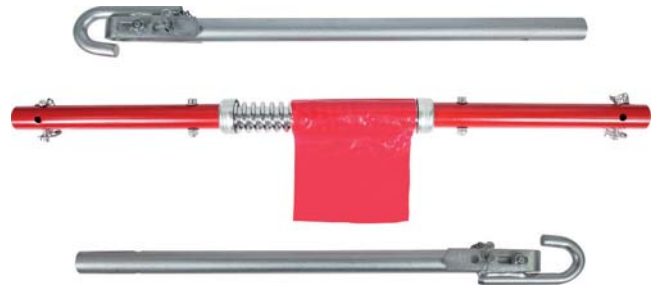
- Strongly adhesive on metal, wood, glass, plastic, concrete, natural stone, carpets etc.
- Prevents transport damages
- Fixing of workpieces to be processed without clamping or stretching-tools
- Lightweight and flexible, optimally adjustment to different contours
- Easy to cut, washable
- Hardly inflammable



Article No.	Article Description	QTY
5420 30 182	ANTI-SLIPPING MAT 30X180CM	1
5420 45 182	ANTI-SLIPPING MAT 45X180CM	1
5420 61 122	ANTI-SLIPPING MAT 60X120CM	1
5420 91 122	ANTI-SLIPPING MAT 90X120CM	1

Tow Bar

- For cars up to a max. total weight of 2500 kg
- Towing without shocks and accident risk
- Snaps on automatically
- Easy to use
- 3-part
- With signal red central part
- Made of corrosion-protective high-grade steel
- Also suitable for spherical trailer coupling



Article No.	Article Description	QTY
5411 13	TOW BAR 2.0T	1

Tow Rope

- For cars and estate cars up to a max. total weight of 2500 kg
- One-hand operation by the use of 2 load hooks
- Length: 4 m

Article No.	Article Description	QTY
5411 10	TOW ROPE 2.5T	1



Warning Triangle

- Acc. to Euronorm
- Space-savingly packed
- L 475 mm x W 85 mm x H 35 mm

Article No.	Article Description	QTY
5411 21	WARNING TRIANGLE EURONORM	e 30



Warning Lights / Warning Lights LED

- With automatic twilight switch, turn-signal and constant lighting system
- Working process with 2 power block batteries 6 V 4R25
- Double-sided
- Installed Secura-lock
- Delivery without batteries
- Blinking frequency: 60/min

Art.-No. 5424 2:

- With LED's

Technical Data

Working process with 2x 7 Ah

Turn-signal approx.: 720 min

Continuous illumination approx.: 180 min

Weight: approx. 1 kg



Article No.	Article Description	QTY
5424 1	WARNING LIGHTS YELLOW	e 6

Hand Flood Lights F. 6 V/ 7Ah 4R25 Pow.BI.Batt.

- High luminous power due to krypton-bulb
- Housing made of impact resistant plastic

Article No.	Article Description	QTY
5424 6	HAND FLOOD LIGHTS 6V 4R25	1
5424 6 1	REPLACE.BULB F.HAND FLOODLIGHT	ü 10

Delivery:

- Included hand loop and replacement lamp
- Without battery



Power Block Battery 6 V / 7 Ah 4R25

- For highest load
- Without toxic elements like mercury or cadmium
- Incl. free of cost disposal with GRS

Article No.	Article Description	QTY
3884 6 7	POWER BLOCK BATTERY6V/7AH 4R25	e 24



First-Aid Bag - Automotive

- Content according to DIN 13164 and legal regulations of the StVZO § 35 h with rescue blanket
- Handy and space-saving
- Water-proof nylon fabric
- Dimension (L x W x H): 22 x 14 x 7.5 cm

Article No.	Article Description	QTY
5411 32	AUTOMOT.FIRST-AID-BAG DIN13164	1



First-Aid Kit - Automotive

- Content according to DIN 13164 and legal regulations of the StVZO § 35 h with rescue blanket
- ABS hard plastic
- Dimension (L x W x H): 22 x 14 x 7.5 cm

Article No.	Article Description	QTY
5411 30	AUTOM.FIRST-AID KIT DIN13164	1



First-Aid Bag (Warn.Triangle+High Visibility Vest)

- Water-proof nylon fabric
- with attached Velcro strips to prevent slipping on the boot mat
- Dimensions (L x W x H): 44 x 10 x 15 cm

Article No.	Article Description	QTY
5409 14	FIRST A.BAG W.WAR.T.+H.VI.VEST	e 5



Fire Blanket and Container

Art.-No. 5400 1800:

- Approved according to DIN EN 1869
- Approval is only valid in connection with the Fire Blanket Container, no approval, if blanket is stored separately
- Flame retardant fiberglass fabric
- With two grey handle bags and fringed cut edges
- Dimensions L x W: 1600 x 1800 mm (2.88 m²)

Art.-No. 5400 1800 1:

- Steel container with label „Fire Blanket“
- RAL-colour 3000 (red)
- Opens to the front
- Dimensions H x L x W: 300 mm x 240 mm x 200 mm



Article No.	Article Description	QTY
5400 1800	FIRE BLANKET 1600X1800MM	1
5400 1800 1	FIRE BLANKET CONT. 30X20X24CM	1

Tool Box for Small Parts

- Stable plastic design
- Suitable padlock Art. No. 5438 35, 5438 40, 5438 50
- Dimension LxWxH: 48,6 x 26,2 x 24,8 cm

Article No.	Article Description	QTY
9027 19	TOOL BOX FOR SMALL PARTS 19"	1



Mobile Workshop 190 I

- Volume: 190 l
- Shock-resistant, solid plastic
- Two smooth running wheels which master even rough flooring
- Locking options
- Teleskopic handle
- Fixing option for saw and spirit level in the inside lid
- Removable tray to keep small tools organised
- Dimension LxWxH: 96.2 x 57.8 x 59 cm
- Delivery without tools

Article No.	Article Description	QTY
4993 190	MOBILE WORKSHOP 190 L	1



Mobile Workshop

- 20" removable tool box with removable supporting member
- Big, rust-free clasps - can be locked via padlock (Art. No. 5438 40)
- Two deep drawers with ball bearing rails
- Big storage compartment for electronic tools
- Upper part can be pushed backwards
- Full access to the lower storage compartment
- Big 7" wheels
- Dimension LxWxH: 82 x 56.8 x 38.9 cm



Article No.	Article Description	QTY
4993 4	MOBILE WORKSHOP	1

Tool Box for Small Parts

- Stable plastic design
- Suitable padlock Art.-No. 5438 35, 5438 40, 5438 50
- Dimension LxWxH: 48,6 x 26,2 x 24,8 cm

Article No.	Article Description	QTY
9027 19	TOOL BOX FOR SMALL PARTS 19"	1



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- Removable tray to keep small tools organised
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Article No.	Article Description	QTY
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Mobile Workshop

- 20" removable tool box with removable supporting member
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- Two deep drawers with ball bearing rails
- Big storage compartment for electronic tools
- Upper part can be pushed backwards
- Full access to the lower storage compartment
- Big 7" wheels
- Dimension LxWxH: 82 x 56.8 x 38.9 cm



Article No.	Article Description	QTY
4993 4	MOBILE WORKSHOP	1

Tool Case ABS

- Case halves made of robust ABS-material
- Robust aluminium frame with edge protection (1)
- 4 floor rails protects the case from scratches and ensures a better stand (2)
- 2 lockable metal latches (3)
- 1 combination lock (4)
- Ergonomic handle (5)
- Safety latch cover
- Dokument compartment (DIN A4) in the upper case halve
- Aluminium system for variable cases (6)
- Art. No. 4993 15 with easily rolling wheels and extendable telescope handle



4993 13



4993 14



4993 15



Technical Data

Art.-No.:	49993 13	4993 14	4993 15
Inner dimensions (L x W x H):	46 x 35,5 x 17 cm	47 x 37 x 19 cm	48,5 x 37,5 x 20 cm
Outer dimensions (L x W x H):	49,5 x 41,5 x 19,5 cm	50 x 42,5 x 21 cm	51,5 x 44 x 25,5 cm
Volume:	28 l	33 l	36 l
Dead weight:	4,6 kg	4,8 kg	6,6 kg
Load:	25 kg	30 kg	30 kg
Colour:	black	black	black
Material:	ABS	ABS	ABS
Telescope handle:	no	no	yes

Article No.	Article Description	QTY
4993 13	ABS-TOOL CASE 455X345X160	1
4993 14	ABS-TOOL CASE 480X370X180	1
4993 15	ABS-TOOL TROLLEY 485X350X195	1

„Pilot“ tool bag

- high quality pilot tool bag
- material: synthetic leather
- side parts made from ABS
- front side can be folded out
- two combination locks
- removable central panel
- with 35 tool loops and 10 drawers
- ergonomic handle
- dimensions H x L x W: 330 x 430 x 190 mm



Article No.	Article Description	QTY
4993 22	"PILOT" TOOL BAG W.CENTR.PANEL	1

Insulation bag with shoulder strap

- ergonomically shaped handle
- with attachable handle
- aluminium foil sewn in to insulate the contents and for easy cleaning
- double zip for opening and closing the bag
- material: polyester
- dimensions H x L x W: 230 x 280 x 170 mm
- contents: 7.5 litres



Article No.	Article Description	QTY
4993 16	INSULATION BAG W. SHOULD.STRAP	1

Shoulder bag for tools

- ergonomic handle
- attachable strap with padding and quick closure
- ergonomic design
- tape measure insert for tape measure with belt clip
- chain with holder to attach insulation straps etc.
- net pouches on the side
- pouches inside and outside in various sizes, with plastic inner coating easy to clean
- dimensions H x L x B: 220 x 290 x 285 mm

Article No.	Article Description	QTY
4993 17	SHOULDER BAG F.TOOLS	1



Tool Case

- Spacious tool case for tools and accessories
- Removable and adjustable shoulder strap with soft padding
- Edge protection due to robust aluminium rails
- Lockable metal buckle
- Robust and reinforced textile fabric
- Integrated front bag for e.g. documents
- Tool strap at the inside of the case to maintain order of screwdrivers, pliers, spanners etc.
- Dimension (LxWxH): 50 x 28 x 26 cm

Article No.	Article Description	QTY
4993 8	TOOL CASE 500/280/260	1



Tool Bag

- Robust steel rod with ergonomic foam rubber handle
- Removable and adjustable shoulder strap with soft padding
- Numerous small pockets at the outside of the bag
- Stable plastic base for optimum tool protection
- Tool strap at the inside of the bag to maintain order of screwdrivers, pliers, spanner etc.
- Dimension (LxWxH): 45 x 27 x 36 cm

Article No.	Article Description	QTY
4993 9	TOOL BAG 450/270/360	1



Trolley bag for tools

- Material: synthetic leather
- 23 compartments for various hand tools
- dimensions H x L x B: 445 x 1050 x 4 mm

Article No.	Article Description	QTY
4993 23	TROLLEY BAG F.TOOLS 23 COMPAR.	1

Scope of delivery:

- 1 trolley bag without contents



Belt

- Made of robust cowhide
- Thickness: 3–4 mm
- Width: 50 mm
- Colour: black exterior, light interior
- No buckle

Article No.	Article Description	QTY
4993 50 95	BLACK BELT 95CM	1
4993 50 105	BLACK BELT 105CM	1



Belt buckles

- Dimensions (H x W): approx. 50 mm x 65 mm

Article No.	Article Description	QTY
4993 50 110	BELT BUCKLES NEUTRAL SILVER	1
4993 50 111	BELT BUCKLES CARPENTER	1
4993 50 112	BELT BUCKLES ROOFER	1



4993 50 110



4993 50 111



4993 50 112

Belt with double pin

- Work belt made of cowhide
- Colour: black exterior, neutral interior
- Thickness: 3 mm
- Width: 40 mm

Article No.	Article Description	QTY
4993 50 95 1	BLACK BELT WITH DOUBLE PIN 95	1
4993 50 105 1	BLACK BELT WITH DOUBLE PIN 105	1



Nail bag

- High-grade belt bag made of robust cowhide

Article No.	Article Description	QTY
4993 50	NAIL BAG SIMPLE BLACK	1
4993 51	NAIL BAG DUAL BLACK	1



4993 50



4993 51

Fitter's bag, universal

- Material: high-quality suede
- 1 large storage compartment, 2 medium-sized compartments, 2 small compartments
- 1 hammer loop

Article No.	Article Description	QTY
4993 58	FITTER'S BAG "UNI"	1



Hammer holder, black

- Material: Cowhide, black
- Art.-No. 4993 54 with swinging metal bracket

Article No.	Article Description	QTY
4993 53	BLACK HAMMER HOLDER	1
4993 54	BLACK HAMMER HOLDER "SWING"	1



4993 53



4993 54

Hammer chain

- 3 robust link chains
- 2 leather loops for belt widths up to 55 mm
- Chain length: approx. 24 cm

Article No.	Article Description	QTY
4993 55	HAMMER CHAIN 3 PCS.	1



Sheath for serrated knife

- Material: Cowhide, black
- Sheath length: approx. 33 cm

Article No.	Article Description	QTY
4993 57	SHEATH F. SERRATED KNIFE BLACK	1



Knife pocket

- Material: Cowhide, black
- Pocket depth: approx. 10 cm

Article No.	Article Description	QTY
4993 52	KNIFE POCKET SHORT BLACK	1



Plier holder

- Material: Cowhide

Article No.	Article Description	QTY
4993 56	PLIER HOLDER BLACK	1



Power Carbine

- 10'er universal carbine hook
- With leather noose

Article No.	Article Description	QTY
4993 59	POWER CARBINE	1



Quality characteristics of FÖRCH ladders

The quality characteristics of FÖRCH ladders can be measured according to the following points:

More load:

- Extruded, triangular rungs
- Resulting in better anti-twist protection
- 4-times-pressed – high lateral stability
- Section profile designed for ideal force transmission



More stability:

- Triangular aluminium profiles with generous corrugation for optimal slip resistance when climbing



More safety:

- Tear-resistant polyester belts for force transmission up to 3 kN



More stability:

- Ladder feet with a shore hardness of 75° provide optimum, slip-proof stability



More mechanical stability:

- Plastic-coated steel hinges without play and detachment-proof screw connections
- Additional strengthening elements at the stile end exceed specifications in accordance with DIN EN 131



More comfort:

- Optimal protection of the projecting bulge during loading, due to flanged stiles



More guarantee:

- 5-year warranty for material and manufacturing faults on all aluminium and steel parts

Ladder test:

- Each ladder bears a mini-AuV label
- The next test date of the ladder must be indicated on a test label
- A visual check for damage must be performed before each use

Aluminium Ladder

- The easy solution to reach heights
- profiled, triangular rungs for comfortable, safe stance
- Rungs joined to siderails with 4-fold crimp
- Anti-skid plastic feet for secure standing
- Clear width: 390 mm
- rung spacing: 280 mm

Technical Data						
Art. No.	Length m	Stand. height m	Number of steps	Weight approx. kg	Rail mm	
4986 1 240	2,40	1,35	8	4.6	64	
4986 1 295	2,95	1,85	10	5.6	64	
4986 1 350	3,50	2,40	12	6.4	64	
4986 1 405	4,05	2,90	14	7.8	64	

Article No.	Article Description	QTY
4986 1 240	ALU LADDER 8 STEPS 2,40M	1
4986 1 295	ALU LADDER 10 STEPS 2,95M	1
4986 1 350	ALU LADDER 12 STEPS 3,50M	1
4986 1 405	ALU LADDER 14 STEPS 4,05M	1



Aluminium Sliding Ladder

- Two part sliding ladder for greater heights
- Short transport and storage length
- Length is adjustable per ladder step
- Safeguard against draw out and lift out
- Top and bottom ladder can be used separately

Technical Data						
Art. No.	Extended length m	Slided-in length m	Stand. height m	Number of steps	Weight approx. kg	Rail mm
4986 2 530	5,20	2,95	3,95	2 x 10	11,6	64
4986 2 610	6,05	3,50	4,75	2 x 12	15,4	76
4986 2 720	7,15	4,10	5,80	2 x 14	19,2	84
4986 2 830	8,30	4,65	6,85	2 x 16	21,6	84

Article No.	Article Description	QTY
4986 2 530	SLIDINGLADDER 2X10STEPS. 5,20M	1
4986 2 610	SLIDINGLADDER 2X12STEPS 6,05M	1
4986 2 720	SLIDINGLADDER 2X14STEPS 7,15M	1
4986 2 830	SLIDINGLADDER 2X16STEPS 8,30M	1



Wooden Stepladder

- Accessible on both sides
- Rungs made of stable beech wood
- Rail made of solidly knot-free yellow pine
- especial square mortise joint of rail and rung for continuous connection
- transport security made of wooden on the ladder base
- Solid construction and zinc coated steel hinges including a bucket hook
- fixed tool bag on the upper rungs
- two tear-resistant polyester-belt for the safety strut
- Rung spacing: 280 mm



Technical Data						
Art. No.	Bar length m	Stand. height m	Width m	Steps	Weight approx. kg	
4986 40 122	1,25	0,55	0,50	4	7,4	
4986 40 150	1,50	0,80	0,53	5	8,9	
4986 40 178	1,85	1,05	0,56	6	10,4	
4986 40 206	2,10	1,30	0,59	7	12,5	
4986 40 234	2,35	1,60	0,62	8	14,3	
4986 40 290	2,95	2,10	0,68	10	17,5	

Article No.	Article Description	QTY
4986 40 122	WOODEN STEP LADDER4STEPS 1.25M	1
4986 40 150	WOODEN STEP LADDER5STEPS 1.50M	1
4986 40 178	WOODEN STEP LADDER6STEPS 1.85M	1
4986 40 206	WOODEN STEP LADDER7STEPS 2.10M	1
4986 40 234	WOODEN STEP LADDER8STEPS 2.35M	1
4986 40 290	WOODEN STEP LADD.10STEPS 2.95M	1

Aluminium Stepladder

- Anti-skid plastic feet
- plastic coated steel hinges
- metal transport security on the ladder base
- tear-proof polyester belts for the safety strut
- rung spacing: 280 mm



Technical Data						
Art. No.	Length m	Stand. height m	Width m	Number of steps	Weight approx. kg	
4986 10 130	1.85	1.05	0.54	6	8.0	
4986 10 160	2.10	1.30	0.57	7	9.2	
4986 10 185	2.40	1.60	0.60	8	10.4	
4986 10 235	2.95	2.10	0.65	10	13.2	
4986 10 290	3.50	2.65	0.72	12	16.0	

Article No.	Article Description	QTY
4986 10 130	ALU STEPLADDER 6STEPS 1,85M	1
4986 10 160	ALU STEPLADDER 7STEPS 2,10M	1
4986 10 185	ALU STEPLADDER 8 STEPS 2,40M	1
4986 10 235	ALU STEPLADDER 10STEPS 2,95M	1
4986 10 290	ALU STEPLADDER 12STEPS 3,50M	1

Stepladder, aluminium, single-sided access

- stability always guaranteed due to extended stringers and support legs
- wide steps for fatigue-free stance
- knee rail in shape of utensil shelf
- support legs fold up for transport
- spreaders made of unbreakable polyester webbing
- steps spacing: 250 mm
- steps width: 80 mm



Technical Data						
Art.-No.	Length m	Standing height m	Width m	Number of rungs	Weight approx. kg	Stringer
4986 15 195	1,95	1,20	0,51	5	8	76
4986 15 220	2,20	1,40	0,53	6	9,2	76
4986 15 245	2,45	1,65	0,57	7	10,4	76
4986 15 270	2,70	1,90	0,60	8	11,6	76

Article No.	Article Description	QTY
4986 15 195	STEPLADDER ALU,5STRINGER 1,95M	1
4986 15 220	STEPLADDER ALU,6STRINGER 2,20M	1
4986 15 245	STEPLADDER ALU,7STRINGER 2,45M	1
4986 15 270	STEPLADDER ALU,8STRINGER 2,70M	1



Aluminium Step Ladder with Wide Steps

- 4-times pressed steps-rail-connection
- wide steps allow long standing
- skid-secure ribbed step surface
- anti-skid plastic feet
- plastic coated steel hinges
- metal transport security on the ladder base
- two tear-proof polyester belts for safety strut
- the both upper steps form a platform
- steps spacing: 250 mm
- Steps width: 80 mm



Technical Data					
Art. No.	Length m	Stand. height m	Width m	Steps	Weight approx. kg
4986 30 050	0.75	0.25	0.46	3	5.6
4986 30 070	1.00	0.50	0.48	4	6.8
4986 30 095	1.25	0.70	0.51	5	8.4
4986 30 120	1.50	0.95	0.53	6	9.8
4986 30 165	2.00	1.40	0.60	8	13.4
4986 30 215	2.50	1.90	0.66	10	16.2

Article No.	Article Description	QTY
4986 30 050	ALU LADDER WIDE STEPS 0.75M	1
4986 30 070	ALU LADDER WIDE STEPS 1.00M	1
4986 30 095	ALU LADDER WIDE STEPS 1.25M	1
4986 30 120	ALU LADDER WIDE STEPS 1.50M	1
4986 30 165	ALU LADDER WIDE STEPS 2.00M	1
4986 30 215	ALU LADDER WIDE STEPS 2.50M	1



Double Stepladder, Aluminium

- sturdy structure
- optimum handling due to clever, novel features
- professional solution for uneven ground
- continuously variable levelling
- plastic-coated steel hinges on the inside
- spreaders made of unbreakable polyester webbing
- rung spacing: 280 mm



Your Advantage / Benefit

- toolless adjustment of extensions due to ready-fitted adjusting knobs
- 2 extensions with an adjustment range on the one side up to 44 cm and on the other side up to 102 cm
- ideal for stair treads and other uneven base surfaces

Application



Technical Data

Art.-No.	Length m	Stand height m	Width m	Steps	Weight approx. kg
4986 45 155	1,55	0,80	0,51	5	12,3
4986 45 185	1,85	1,05	0,54	6	13,5
4986 45 210	2,10	1,30	0,57	7	14,7
4986 45 240	2,40	1,60	0,60	8	15,9

Article No.	Article Description	QTY
4986 45 155	STEPLADDER ALU 5 STRINGER1,55M	1
4986 45 185	STEPLADDER ALU 6 STRINGER1,85M	1
4986 45 210	STEPLADDER ALU 7 STRINGER2,10M	1
4986 45 240	STEPLADDER ALU 8 STRINGER2,40M	1

Related Products

- **MaxiFlex Ultimate Gloves**
FÖRCH
Art.-No. 5405 5 305 6 – 12



- **Safety Shoe "Rio Low"**
Art.-No. 5406 351 39 – 47



- **Construction Hemet**
Art.-No. 5404 1 – 7



Folding ladder, aluminium



- sturdy structure
- optimum handling due to clever, novel features
- with just a few simple adjustments can be turned from a stepladder into a free-standing ladder
- profiled, triangular rungs for comfortable, safe stance
- rungs joined to siderails with 4-fold crimp
- securely latching steel hinges for adjusting to different work positions
- with 890 mm wide foot stabiliser on one side for safe stance
- rung spacing: 280 mm

Technical Data					
Art.-No.	Length m	Stand height Stepladder m	Stand height Free-standing m	No. of Rungs	Weight approx. kg
4986 25 247	2,47	0,80	1,32	2 x 4	8,6
4986 25 359	3,59	1,34	2,37	2 x 6	10,2
4986 25 471	4,71	1,90	3,42	2 x 8	11,0

Article No.	Article Description	QTY
4986 25 247	FOLDING LADDER,ALU 2,47M	1
4986 25 359	FOLDING LADDER,ALU 3,59M	1
4986 25 471	FOLDING LADDER,ALU 4,71M	1



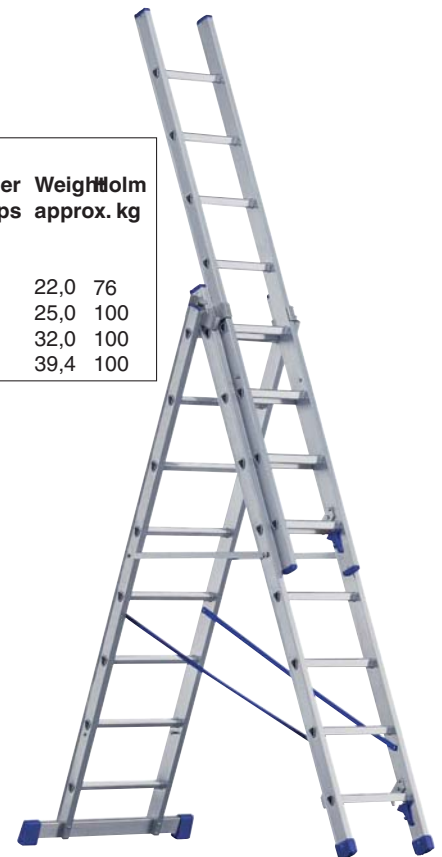
Aluminium Multi-Purpose Ladder



- Can be used as sliding ladder, leaning ladder, step ladder or extendable step ladder due to its special joints
- Safe, free standing ladder due to crossbars
- Length is adjustable per ladder step
- Safeguard against draw out and lift out
- All variations are easy to use

Art. No.	Length m	Stand. height as step ladder 2-parts m	Height with extended of top ladder m	Stand. height sliding ladder m	Sliding ladder total height leiter m	Number of steps	Weight approx. kg	Holm m
4986 20 530	2,45	1,60	2,35	4,55	5,30	3 x 8	22,0	76
4986 20 700	3,00	2,10	3,40	6,05	7,20	3 x 10	25,0	100
4986 20 870	3,55	2,65	4,50	7,65	8,80	3 x 12	32,0	100
4986 20 1040	4,15	3,15	5,60	9,20	10,35	3 x 14	39,4	100

Article No.	Article Description	QTY
4986 20 530	ALU ALLROUND 3X 8 STEPS 5,30M	1
4986 20 700	ALU ALLROUND 3X 10 STEPS 7,00M	1
4986 20 870	ALU ALLROUND 3X 12 STEPS 8,70M	1
4986 20 1040	ALU ALLROUNG 3X 8 STEPS 10,40M	1



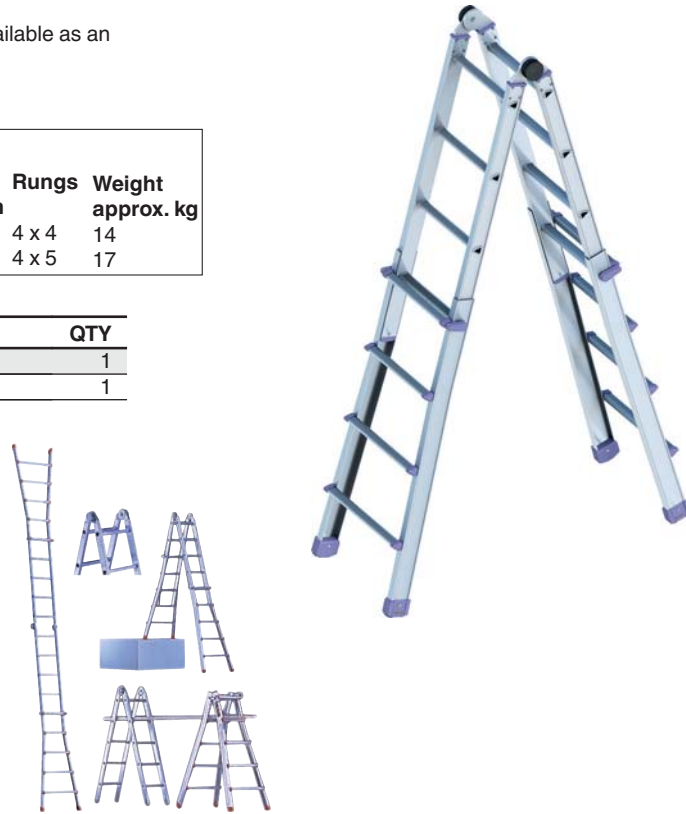
Multi Functional Telescopic Ladder

- If used as a step ladder or a leaning ladder you always have the optimal standing or working height
- Adjustable height of the rungs
- Solid hinged joints secure the selected position
- The rail extension telescope Art.-No. 4986 50 333 is available as an accessories



Technical Data					
Art.-No.	Length m	Stand.height leaning ladder m	Stand.height step ladder m	Rungs	Weight approx. kg
4986 50 200	4,20	2,99	1,63	4 x 4	14
4986 50 255	5,30	4,07	2,17	4 x 5	17

Article No.	Article Description	QTY
4986 50 200	MULTI-LADDER-TELESCOPE 4.20M	1
4986 50 255	MULTI-LADDER-TELESCOPE 5.30M	1



Car boot ladder, aluminium

- sturdy structure
- optimum handling due to clever detail solutions
- versatile in use as a stepladder, free-standing ladder, free-standing ladder away from wall
- profiled, triangular rungs for comfortable, safe stance
- rungs joined to siderails with 4-fold crimp
- securely latching steel hinges for adjusting to different work positions
- rung spacing: 280mm
- car boot ladder, aluminium Art.-No. 4986 50 237 can be used in combination with platform set Art.-No. 4986 50 334 as a working platform (operating height:0,99 m)



Technical Data							
Art.-No.	Max. Length m	Standing height free-standing ladder m	Standing height free-standing ladder distance from m	Standing height stepladder m	Number of rungs	Use as work platform (standing height of 0,99 m) possible	Weight approx. kg
4986 50 237	3,66	2,37	1,62	1,35	4 x 3	yes	14,5
4986 50 342	4,71	3,42	2,37	1,90	4 x 4	no	16,5

Article No.	Article Description	QTY
4986 50 237	CAR BOOT LADDER ALU 3,66M	1
4986 50 342	CAR BOOT LADDER ALU 4,71M	1

Telescopic Aluminium Ladder

- Lightweight, space-saving telescopic ladder for occasional basic work
- One-click automatic system: Ladder can be retracted with a handle
- Non-slip square profiled rungs
- 13 rungs
- Length: 3.80 m (extended)
- Length: 0.92 m (retracted)
- Foot stabiliser width: 80 cm
- Weight: 13 kg
- Maximum load: 150 kg
- manufactured and tested in accordance with EN-131

Article No.	Article Description	QTY
4986 380	ALU TELESC.LEAN.LADDER3.80M	1



moved out pushed together

Safe Assembly Platform

- 2 security locking positions
- Space saving storage
- Plastic edges on the feet protect the platform and the floor
- Non slip, rubberised tread
- Load capacity up to 150 kg
- Dimension of surface area : LxW: 100 x 30 cm
- Total dimensionLxWxH: 134.5 x 40.5 x 40.8 cm
- Weight: 7.4 kg

Article No.	Article Description	QTY
5436 2	SAFE ASSEMBLY PLATFORM	1



Double Folding Steps

- Compact aluminium steps for all kinds of assembly work
- Very large top platform of 420 x 250 mm
- Anti-slip, convenient 125 mm deep treads
- Sturdy, easily operated folding steps for rigid linkage and secure footing
- Slip-resistant and floor-friendly plastic end caps
- Compact and easily stowed away

Technical Data

Treads:	2 x 3
Height:	0.65 m
Length:	0.75 m
Width:	0.51 m
Depth:	0.25 m
Weight:	3.8 kg

Article No.	Article Description	QTY
4989 65 3	DOUBLE FOLDING STEPS 2X3 STEPS	1

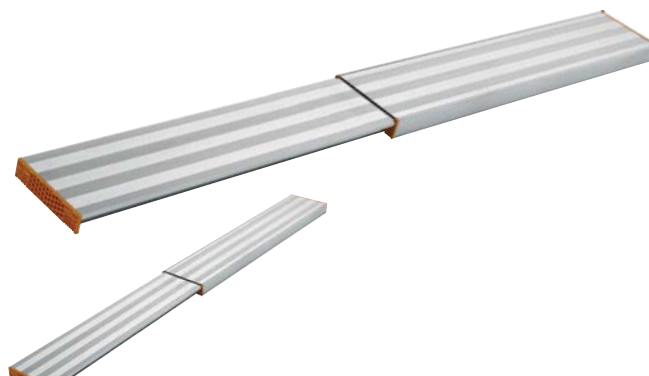


Telescopic Alu Footbridge

- Width: 31.0 cm
- Durable up to 150 kg
- Can be extended stepless
- Locking function in telescopic condition for a safe transport
- Can be used with trestles or all other step ladders from our range



Technical Data			
Art.-No.	min. length m	max length m	weight kg
4986 88 290	1.64	2.90	13.0
4986 88 350	1.92	3.5	16.0
4986 88 440	2.27	4.40	20.0



Article No.	Article Description	QTY
4986 88 290	ALU TELESCOP.BRIDGE 2.90M	1
4986 88 350	ALU TELESCOP.BRIDGE 3.50M	1
4986 88 440	ALU TELESCOP.BRIDGE 4.40M	1



Ladder Extension

- suitable for Multifunctional Telescope Aluminium Ladder (Art.-No. 4986 50 200 as well as Art.-No. 4986 50 255)
- can be also used as travers
- permissible max. extension: 450 mm

Article No.	Article Description	QTY
4986 50 333	TELESCOP LADDER EXTENSION	1



Bar Extension

- Suitable for all ladders without travers (except Wooden Ladder), selection by bar width
- Adjustable range max. 400 mm

Article No.	Article Description	QTY
4986 88 108	BAR EXTENSION 64MM BAR	1
4986 88 109	BAR EXTENSION 76MM BAR	1
4986 88 110	BAR EXTENSION 84MM BAR	1
4986 88 111	BAR EXTENSION 100MM BAR	1



Crossbar Spur

- For soft ground

Article No.	Article Description	QTY
4986 88 013	CROSSBAR SPUR	1



Roof Gutter Mount

- Secure mounting for all ladders with square bars

Article No.	Article Description	QTY
4986 88 006	ROOF GUTTER MOUNTING	2



Steel Tips

- For soft underground

Article No.	Article Description	QTY
4986 88 001	PAIR(2)STEEL TIPS	1



Top-Box

- Ideal tool storage

Article No.	Article Description	QTY
4986 88 021	TOP BOX	1



Attachment Hooks

- For axles up to Ø 50 mm

Article No.	Article Description	QTY
4986 88 050	ATTACHMENT HOOK	1



Solid Platform

- This solid platform is ideal for use with the trestle Art. No. 4986 88 004
- Using 2 trestles and one platform you can create a flexible working platform, which allows you to carry out ceiling works while standing safe and comfortably



Article No.	Article Description	QTY
4986 60 073	SOLID PLATFORM 0,73 X 0,61 M	1
4986 60 109	SOLID PLATFORM 1,09 X 0,61 M	1
4986 60 157	SOLID PLATFORM 1,57 X 0,61 M	1
4986 60 207	SOLID PLATFORM 2,07 X 0,61 M	1
4986 60 257	SOLID PLATFORM 2,57 X 0,61 M	1
4986 60 307	SOLID PLATFORM 3,07 X 0,61 M	1



Platform

- can be used as a working platform
- suitable for the Car Boot Ladder Aluminium, Art.-No. 4986 50 237

Article No.	Article Description	QTY
4986 50 334	PLATFORM FOR 4986 50 171	1



Mobile scaffolding- the Safety Structure P2

P2 stands for platforms at a vertical distance of 2 m and a safe design within intergrated, collective side protection. Due to the platforms, the rear guardrails can already be fitted from the level below, so that when the next platform up is accessed there is already simple side protection in place on all sides.

Safety Structure P2:

Platforms a intervals of 2 m

- provide maximum safety during ascent and descent, at work or during assembly of the mobile scaffolding

- easy to pass work materials or mobile scaffolding parts from one level to the next

- **ensures safe use of the scaffolding**

simple to assemble

- all-round side protection from the moment you enter the top platform
- more stability in the mobile scaffolding due to additional stiffeners

the innovative Uni assembly hook

- simplifies assembly
- ensures smooth assembly and disassembly
- **modular system: can be extended**

Assembly principle

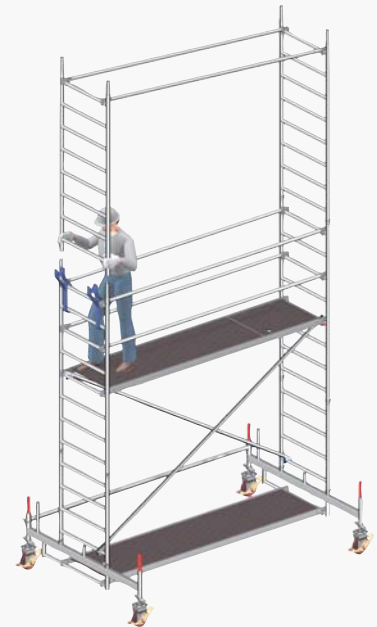
1st step

Insert the first ladder frame
Attach the Uni assembly hook and position ladder frame to assemble the rear guardrails



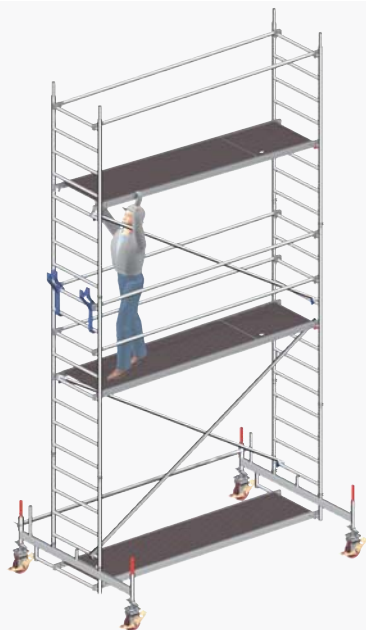
2nd Step:

Swing up the ladder frame with rear guardrails and insert



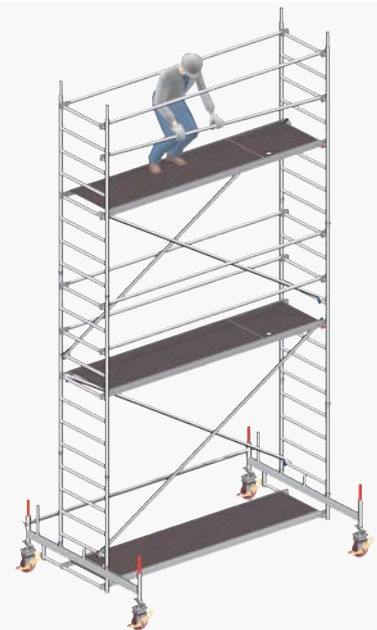
3rd Step

Fit diagonals and access deck into place



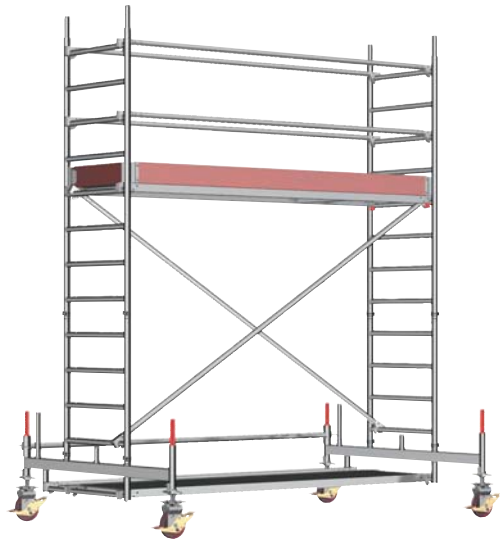
4th Step

Climb up to the next level and fit additional rear guardrails at a height of 0.5 m



Mobile scaffolding Uni Standard P2

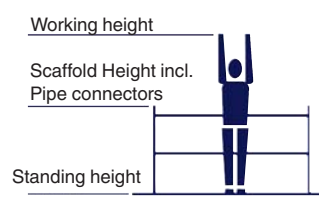
- flexible mobile scaffolding for the greatest heights
- allows safe and comfortable working in indoor and outdoor areas
- maximum working height: 7.35 m
- permitted working load: 2 kN/m²
- working height from 3.20 m to 7.35 m
- maximum total load: 380 kg
- comfortable ascent
- highest quality and safety standards
- work platform surface: 0.75 x 2.85 m
- for work on walls and on ceilings, on machines, on technical equipment, factories and warehouses, indoors and outdoors
- Safety Structure P2
- rapid assembly
- chassis beam, rigid, steel with pipe connectors
- robust swivel castors with centric load application after locking for extra stability
- long steel spindles for levelling
- depending on the application, frame parts can be fitted centred or off-set,
 - permitted for comfortable working on a wall or ceiling
- rear guardrails and diagonals made of aluminium simply snap into place
- working decks made of aluminium frame and plywood inserts
- working decks with trapdoor for safe internal access
- as per DIN EN 1004: Scaffolding Group 3
- the modular system made for easy extension of your mobile scaffolding



Uni Standard P2 working height 3.2 m

- 2x double railing 2.85 m (Art.-No. 4988 1206 802)
- 1x Uni Standard access deck 2.85 m (Art.-No. 4988 1242 803)
- 4x Uni Standard swivel castors 700 – 7 kN (Art.-No. 4988 1259 801)
- 2x ladder frames 75/8 – 2.00 m (Art.-No. 4988 1297 804)

Technical Data	
	Ballasting in Confined Spaces
Centre Assembly:	2l, 2r (ladder frame)
Sideways Assembly:	not possible
	Ballasting for Outdoor Use
Centre Assembly:	2l, 2r (ladder frame)
Sideways Assembly:	not possible
Working Height:	3.2 m
Scaffold Height:	2.43 m
Standing Height:	1.20 m
Weight:	81.9 kg





Article No.	Article Description	QTY
4988 1501 101	SF UNI STAND.P2 WORK-HE-3.2M	1

(Ballast weight of 10 kg)

r: right; l: left

E.g.: 2l: 2 ballast weights on the left

Right: the side facing away from the frame (if assembled sideways)

Left: the side facing the frame (if assembled sideways)

Note:

Please observe the Assembly & Instruction Manual supplied (AIM)

Uni Standard P2 working height 4.35 m

- 4x Uni Standard guardrails 2.85 m (Art.-No. 4988 1205 803)
- 2x Uni Standard diagonals 3.35 m (Art.-No. 4988 1208 804)
- 1x Uni Standard base tube 2.85 m (Art.-No. 4988 1211 802)
- 2x end of toe boards 0.75 m (Art.-No. 4988 1238 801)
- 2x Uni Standard toe boards 2.85 m with hook (Art.-No. 4988 1239 801)
- 1x Uni Standard deck 2.85 m (Art.-No. 4988 1241 805)
- 1x Uni Standard access deck 2.85 m (Art.-No. 4988 1242 803)
- 8x spring clips 11 mm (Art.-No. 4988 1250 801)
- 4x Uni Standard swivel castors 700 – 7 kN (Art.-No. 4988 1259 801)
- 2x ladder frames 75/4 – 1.00 m (Art.-No. 4988 1297 803)
- 2x ladder frames 75/8 – 2.00 m (Art.-No. 4988 1297 804)
- 2x chassis beam with strap 1.80 m (Art.-No. 4988 1323 801)
- 1x pair of Uni assembly hooks (Art.-No. 4988 1300 802)

Technical Data

Ballasting in Confined Spaces	
Centre Assembly:	no ballast required
Sideways Assembly:	no ballast required
Ballasting for Outdoor Use	
Centre Assembly:	no ballast required
Sideways Assembly:	left no ballast required, 2r (chassis beam)

Working Height:	4.35 m	
Scaffold Height:	3.58 m	
Standing Height:	2.35 m	
Weight:	181.5 kg	



Article No.	Article Description	QTY
4988 1501 102	SF UNI STAND.P2 WORK-HE-4.35M	1

(Ballast weight of 10 kg)

r: right; l: left

E.g.: 2l: 2 ballast on the left

Right: the side facing away from the frame (if assembled sideways)

Left: the side facing the frame (if assembled sideways)

Note:

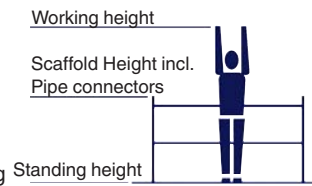
Please observe the Assembly & Instruction Manual supplied (AIM)

Uni Standard P2 working height 5.35 m

- 9x Uni Standard guardrails 2.85 m (Art.-No. 4988 1205 803)
- 2x Uni Standard diagonals 3.35 m (Art.-No. 4988 1208 804)
- 2x Uni Standard diagonals 2.95 m (Art.-No. 4988 1208 805)
- 1x Uni Standard base tube 2.85 m (Art.-No. 4988 1211 802)
- 2x end toe boards 0.75 m (Art.-No. 4988 1238 801)
- 2x Uni Standard toe boards 2.85 m with hook (Art.-No. 4988 1239 801)
- 2x Uni Standard access decks 2.85 m (Art.-No. 4988 1242 803)
- 8x spring clips 11 mm (Art.-No. 4988 1250 801)
- 4x Uni Standard swivel castors 700 – 7 kN (Art.-No. 4988 1259 801)
- 4x ladder frames 75/8 – 2.00 m (Art.-No. 4988 1297 804)
- 2x chassis beam with strap 1.80 m (Art.-No. 4988 1323 801)
- 1x pair Uni assembly hooks (Art.-No. 4988 1300 802)

Technical Data

Centre Assembly:	Ballasting in Confined Spaces
Sideways Assembly:	no ballast required
	no ballast required
	Ballasting outdoors
Centre Aufbau:	1l, 1r (ladder frame)
Sideways Aufbau:	left no ballast required, 6r (chassis beam)
	Working height
	Scaffold Height incl. Pipe connectors
Working Height:	5.35 m
Scaffold Height:	4.58 m
Standing Height:	3.35 m
Weight:	216.4 kg



Article No.	Article Description	QTY
4988 1501 103	SF UNI STAND.P2 WORK-HE-5.35M	1

(Ballast weight of 10 kg)

r: right; l: left

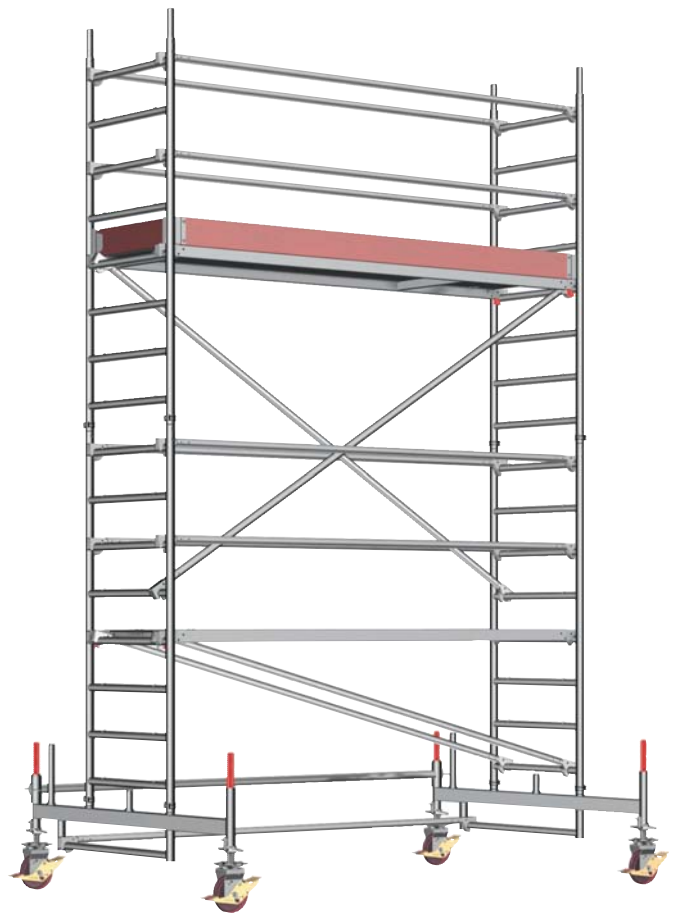
E.g.: 2l: 2 ballast on the left

Right: the side facing away from the frame (if assembled sideways)

Left: the side facing the frame (if assembled sideways)

Note:

Please observe the Assembly & Instruction Manual supplied (AIM)

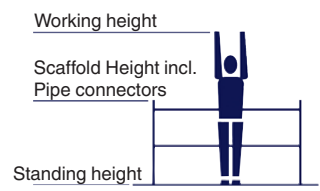


Uni Standard P2 Working Height 6.35 m

- 8x Uni Standard guardrails 2.85 m (Art.-No. 4988 1205 803)
- 4x Uni Standard diagonals 3.35 m (Art.-No. 4988 1208 804)
- 1x Uni Standard base tube 2.85 m (Art.-No. 4988 1211 802)
- 2x end toe boards 0.75 m (Art.-No. 4988 1238 801)
- 2x Uni Standard toe boards 2.85 m with hook (Art.-No. 4988 1239 801)
- 1x Uni Standard deck 2.85 m (Art.-No. 4988 1241 805)
- 2x Uni Standard aces decks 2.85 m (Art.-No. 4988 1242 803)
- 12x Federstecker 11 mm (Art.-No. 4988 1250 801)
- 4x Uni Standard swivel castors 700 – 7 kN (Art.-No. 4988 1259 801)
- 2x ladder frames 75/4 – 1.00 m (Art.-No. 4988 1297 803)
- 4x ladder frames 75/8 – 2.00 m (Art.-No. 4988 1297 804)
- 2x chassis beam with strap 1.80 m (Art.-No. 4988 1323 801)
- 1x pair Uni assembly hooks (Art.-No. 4988 1300 802)

Technical Data

	Ballasting in Confined Spaces
Centre Assembly:	no ballast required
Sideways Assembly:	left no ballast required, 4r (chassis beam)
	Ballasting for Outdoor Use
Centre Assembly:	5l, 5r (ladder frame)
Sideways Assembly:	left no ballast required, 10r (chassis beam)
Working Height:	6.35 m
Scaffold Height:	5.58 m
Standing Height:	4.35 m
Weight:	243.3 kg



Article No.	Article Description	QTY
4988 1501 104	SF UNI STAND.P2 WORK-HE-6.35M	1

(Ballast weight of 10 kg)

r: right; l: left

E.g.: 2l: 2 ballast on the left

Right: the side facing away from the frame (if assembled sideways)

Left: the side facing the frame (if assembled sideways)

Note:

Please observe the Assembly & Instruction Manual supplied (AIM)



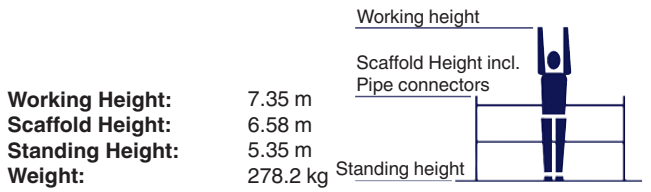
Uni Standard P2 working height 7.35m

- 13x guardrails 2.85 m (Art.-No. 4988 1205 803)
- 4x diagonals 3.35 m (Art.-No. 4988 1208 804)
- 2x diagonals 2.95 m (Art.-No. 4988 1208 805)
- 1x base tube 2.85 m (Art.-No. 4988 1211 802)
- 2x end toe boards 0.75 m (Art.-No. 4988 1238 801)
- 2x toe boards 2.85 m with hook (Art.-No. 4988 1239 801)
- 3x access decks 2.85 m (Art.-No. 4988 1242 803)
- 12x spring clips 11 mm (Art.-No. 4988 1250 801)
- 4x swivel castors 700 – 7 kN (Art.-No. 4988 1259 801)
- 6x ladder frames 75/8 – 2.00 m (Art.-No. 4988 1297 804)
- 2x chassis beam with strap 1.80 m (Art.-No. 4988 1323 801)
- 1x pair Uni assembly hooks (Art.-No. 4988 1300 802)

Technical Data

Centre Assembly: **Ballasting in Confined Spaces**
no ballast required
Sideways Assembly: left no ballast required, 4r (chassis beam)

Centre Assembly: **Ballasting Outdoors**
9l, 9r (ladder frame)
Sideways Assembly: 4l, 16r (chassis beam)



Article No.	Article Description	QTY
4988 1501 105	SF UNI STAND.PS WORK-HE-7,5M	1

(Ballast weight of 10 kg)

r: right; l: left

E.g.: 2l: 2 ballast on the left

Right: the side facing away from the frame (if assembled sideways)

Left: the side facing the frame (if assembled sideways)

Note:

Please observe the Assembly & Instruction Manual supplied (AIM)



Mobile Scaffolding Uni Standard P2

Select the required height in the mobile scaffold's part list

Retrofit to:

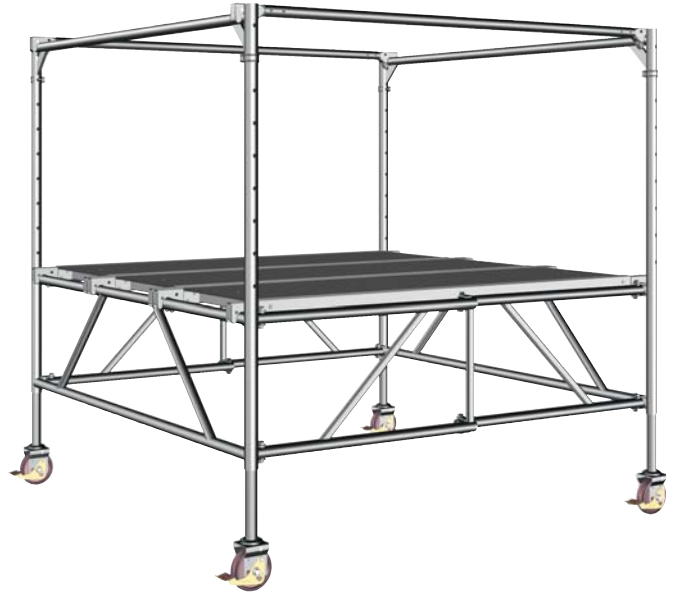
Tower Model and Art.-No.	Uni Standard P2 working height 8.35 m	Uni Standard P2 working height 9.83 m	Uni Standard P2 working height 10.38 m	Uni Standard P2 working height 11.38 m	Uni Standard P2 working height 12.83 m	Uni Standard P2 working height 13.38 m
Rear Guardrails 2.85 m Art.-No. 4988 1205 803	12	17	16	21	20	25
Double Rear Guardrails 2.85 m Art.-No. 4988 1206 802	0	0	0	0	0	0
Diagonals 3.35 m Art.-No. 4988 1208 804	6	6	8	8	10	10
Diagonals 2.95 m Art.-No. 4988 1208 805	0	2	0	2	0	2
Base Tube 2.85 m Art.-No. 4988 1211 802	1	1	1	1	1	1
End Toe Board 0.75 m Art.-No. 4988 1238 801	2	2	2	2	2	2
Toe Board 2.85 m with Hook Art.-No. 4988 1239 801	2	2	2	2	2	2
Deck 2.85 m Art.-No. 4988 1241 805	1	0	1	0	1	0
Access Deck 2.85 m Art.-No. 4988 1242 803	3	4	4	5	5	6
11 mm Spring Clips Art.-No. 4988 1250 801	16	16	20	20	24	24
Swivel Castor 700 - 7kN Art.-No. 4988 1259 801	4	4	4	4	4	4
Ladder Frame 75/4 - 1.00 m Art.-No. 4988 1297 803	2	0	2	0	2	0
Ladder Frame 75/8 - 1.00 m Art.-No. 4988 1297 804	6	8	8	10	10	12
Chassis Beam with Strap Art.-No. 4988 1323 801	2	0	0	0	0	0
Chassis Beam with adjustable Strap	0	2	2	2	2	2
Uni Assembly Hook Art.-No. 4988 1300 802	1	1	1	1	1	1

Mobile Scaffolding Staro Rollbock

- ready-to-use scaffolding tower
- Scaffolding Group 2
- maximum working height: 3.90 m*
- permitted working load: 1.5 kN/m²
- comfortable ascent
- highest quality and safety standards
- work platform surface: 1.95 x 1.95 m
- space for storing tools and materials on the work surface
- basic unit made of aluminium
- upright (length: 1.95 m) with holes at a distance of 11 cm for height adjustment
- ideal for fast working on large ceiling surfaces or for assembly of components or installation under the ceiling
- freedom of movement through the large working platform
- sturdy swivel castors (Ø 150 mm) with centric load application after locking for extra stability
- rear guardrails and the immediate railings made of aluminium simply snap into space
- working decks made of aluminium frame and plywood inserts

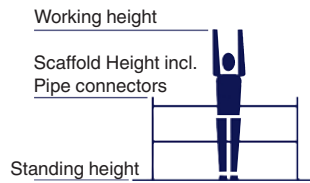
Staro Rollbock basic equipment:

- 1x Staro basic unit (Art.-No. 4988 1224 801),
- incl. 4 x insert (Art.-No. 4988 1250 801)
- 2x Staro guardrails 1.90 m
- 3x Staro decks 1.90 m (Art.-No. 4988 1241 804)
- 4x uprights with swivel castor



Technical Data

Working Height: 2.8-3.9 m*
Scaffold Height: 1.89 - 2.78 m*
Standing Height: 0.8 - 1.9 m*
Weight: 99.9 kg



* above a standing height of 1.0m, additional equipment is required

Article No.	Article Description	QTY
4988 150 7000	SF STARO BASIC EQUIPMENT	1

Mobile Scaffolding ZIFA P2 - working height 2.86 m

- according to DIN EN 1004: Scaffolding Group 3
- ready-to-use scaffolding for working at low heights
- scaffolding made of aluminium
- allows safe and comfortable working
- maximum working height: 3.61 m
- permitted working load: 2 kN/m²
- highest quality and safety standards
- work platform surface: 0.75 x 1.80 m
- for work at low heights indoors and outdoors
- Safety Structure 2
- simple and rapid assembly: unfold and insert the deck
- can be easily folded together and unfolded
- low space requirements due to folding
- easy to transport
- base unit can be manoeuvred through any door even assembled and fully loaded
- basic unit made of aluminium for alternating insert assembly
- sturdy swivel castors for extra stability
- rear guardrails and diagonals made of aluminium simply snap into place
- working decks made of aluminium frame and plywood inserts
- working decks with trapdoor for safe internal access



Mobile Scaffolding ZIFA P2 - working height 2.86 m

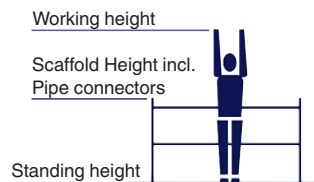
- 1x Zifa P2 basic unit (Art.-No. 4988 1300 803)
- 1x Zifa P2 deck 1.80 m (Art.-No. 4988 1241 803)
- 4x swivel castors 400 - 4kN (Art.-No. 4988 1308 801)

Technical Data

Ballasting in Confined Spaces
Centre Assembly: 4l*, 4r* (ladder frame)
Sideways Assembly: not possible

Ballasting for Outdoor Use
Centre Assembly: 4l*, 4r* (ladder frame)
Sideways Assembly: not possible

Working Height: 2.86 m
Scaffold Height: 1.83 m
Standing Height: 0.86 m
Weight: 42.0 kg



Article No.	Article Description	QTY
4988 1506 200	SF ZIFA P2 WORK.HEIGHT 2.86M	1

* The stated ballast weights are required only if the ladder frame is used as the outer access ladder (e.g.: pivoting the upright strut).

Note:

Please observe the assembly & Instruction Manual supplied (AIM).



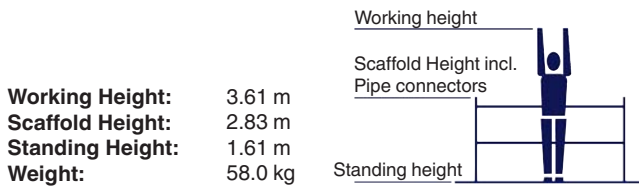
Mobile Scaffolding ZIFA P2 – working height 3.61 m

- 1x Zifa P2 basic unit (Art.-No. 4988 1300 803)
- 2x guardrails 1.80 m (Art.-No. 4988 1205 802)
- 1x Zifa access deck 1.80 m (Art.-No. 4988 1242 802)
- 4x 11 mm spring clips 11 mm (Art.-No. 4988 1250 801)
- 2x ladder frames 75/4 – 1.0 m (Art.-No. 4988 1297 803)
- 4x swivel castors 400 – 4kN (Art.-No. 4988 1308 801)

Technical Data

Ballasting in Confined Spaces
Centre Assembly: 6l, 6r (ladder frame)
Sideways Assembly: nicht möglich

Ballasting for Outdoor Use
Centre Assembly: 6l, 6r (ladder frame)
Sideways Assembly: not possible



Article No.	Article Description	QTY
4988 1506 210	SF ZIFA P2 WORK. HEIGHT 3.61M	1

(Ballast weights of 10 kg)

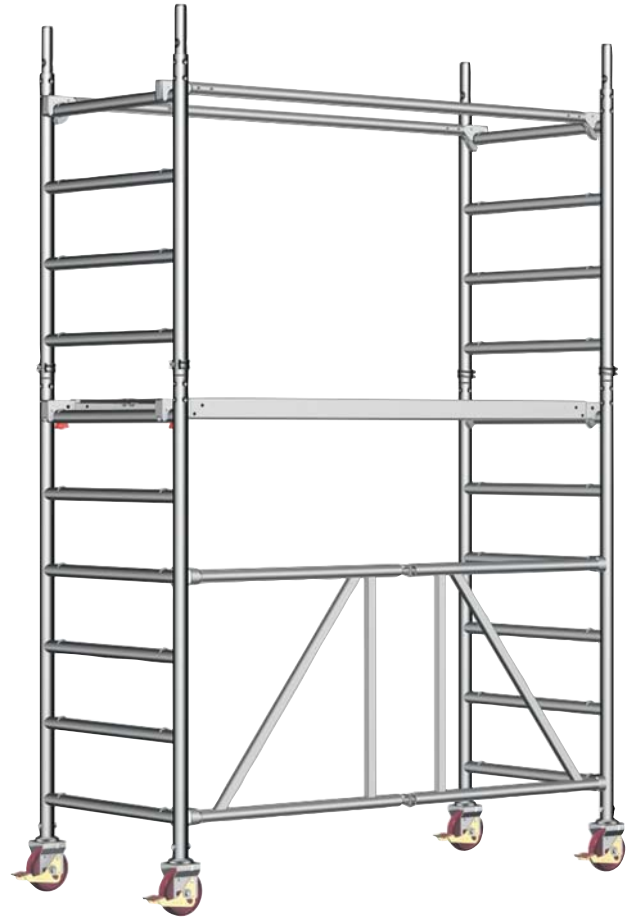
r: right; l: left

E.g.: 2l: 2 ballast weights on left

Right: the side facing away from the frame (if assembled sideways)

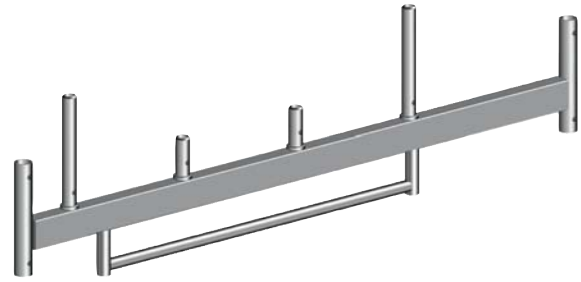
Note:

Please observe the Assembly & Instructions Manual supplied (AIM).



Chassis Beam with Strap 1.8 m

- chassis beam with reinforced strap
- suitable for mobile scaffolding Uni Standard P2
- rectangular steel pipe
- hot-dip galvanised
- for widening the base for scaffolding up to 6.6 m standing height
- Width: 1.8 m
- Weight: 16.8 kg



Article No.	Article Description	QTY
4988 1323 801	SF CHASSIS BEAM W. STRAP 1.8M	1

Chassis Beam with Strap, Adjustable 3.2 m

- Suitable for mobile scaffolding Uni Standard P2
- Rectangular steel pipe
- Hot-dip galvanised
- For widening the base for scaffolding from 9.38 m
- Width: 2.30 – 3.20 m
- Weight: 42.5 kg



Article No.	Article Description	QTY
4988 1323 320	CHASSISB.W.STRAP ADJUST. 3.2M	1

Swivel Castors for Mobile Scaffolding

Art.-No. 4988 1308 801:

- suitable for Zifa P2
- plastic wheel
- permissible load: 4 kN
- with single brake lever

Art.-No. 4988 1259 801:

- suitable for Uni Standard P2
- plastic wheel
- permissible load: 7 kN
- wheel and slew ring fitted with brakes
- with double brake lever and load centring with braked condition
- adjustment range from 0.3 to 0.6 m

Art.-No. 4988 1302 801:

- upright with swivel castor
- suitable for Staro Rollbock
- wheel and slew ring fitted with brakes
- with single brake lever and load centring with braked condition



4988 1308 801



4988 1259 801



4988 1302 801

Article No.	Article Description	QTY
4988 1308 801	SF FÖRCH ZIFA SW. CASTOR 4KN	1
4988 1259 801	SF UNI STANDARD SW. CASTOR 7KN	1
4988 1302 801	SF FÖRCH STARO SW. CASTOR 4KN	1

Uni Standard Base Tube 2.85 m

- steel pipe
- hot-dip galvanised
- Length: 2.85 m
- Weight: 12.2 kg

Article No.	Article Description	QTY
4988 1211 802	SF UNI STAND. BASE TUBE 2.85M	1



11 mm Spring Clips

- made of steel
- Weight: 0.1 kg

Article No.	Article Description	QTY
4988 1250 801	SF FÖRCH SPRING CLIPS 11MM	1



Uni Assembly Hook, Pair

- necessary for Safety Structure P2
- simplifies assembly and ensures quick and smooth assembly and disassembly
- set of 2 pieces
- Weight: 1.2 kg

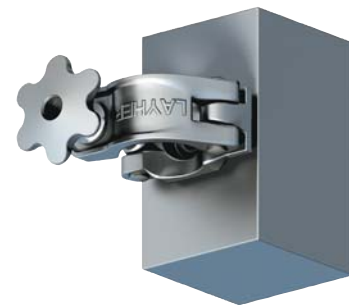
Article No.	Article Description	QTY
4988 1300 802	SF FÖRCH UNI ASSEM. HOOK PAIR	1



Weight for Ballasting

- Weight: 10 kg
- made of steel
- hot-dip galvanised with half coupling
- **for ballasting the scaffolding see Assembly & Instruction Manual**

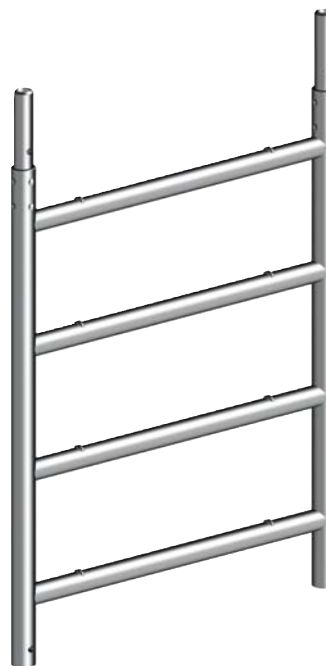
Article No.	Article Description	QTY
4988 1249 801	SF FÖRCH WEIGHT FOR BALLASTING	1



Ladder Frame 75/4 Height 1.0 m

- made of aluminium
- suitable for mobile scaffolding Uni Standard P2 and Zifa P2
- rungs with non-slipping ribbing
- Height: 1.0 m
- Width: 0.75 m
- Weight: 4.7 kg

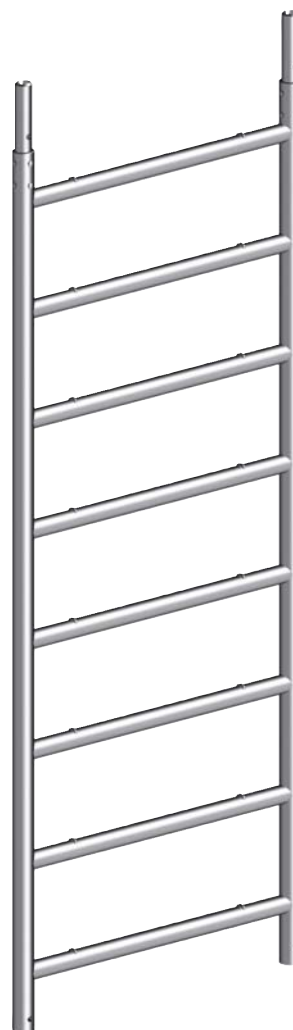
Article No.	Article Description	QTY
4988 1297 803	SF FÖRCH LADDER FR. 75/4 1.0M	1



Ladder Frame 75/8 Height 2.0 m

- made of aluminium
- with crimped pipe connector
- suitable for mobile scaffolding Uni Standard P2 and Zifa P2
- rungs with non-slipping ribbing
- Height: 2.0 m
- Width: 0.75 m
- Weight: 8.6 kg

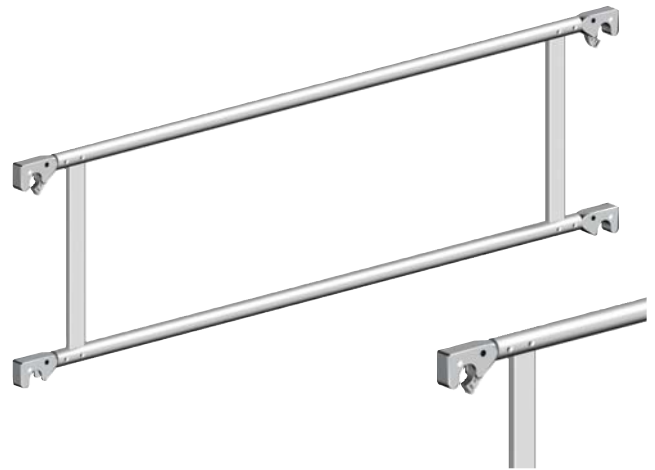
Article No.	Article Description	QTY
4988 1297 804	SF FÖRCH LADDER FR. 75/8 1.8M	1



Uni Standard Double Railing 2,85 m

- Made of Aluminium
- Length: 2,85 m
- Height: 0,5 m
- Weight: 8,0 kg

Article No.	Article Description	QTY
4988 1206 802	UNI STAND.DOUBLE RAIL.2,85M	1



Railing Mobile Scaffold

- Made of Aluminium
- Art.-No. 4988 1205 802:**
- suitable for Zifa P2
- Art.-No. 4988 1205 803:**
- suitable for Uni Standard P2
- Art.-No. 4988 1227 801:**
- suitable for Staro railing

Article No.	Article Description	QTY
4988 1205 802	SCAFF.ZIFA P2 RAIL. 1,80 M	1
4988 1205 803	SCAFF.UNI STAND.RAIL.P2 2,85M	1
4988 1227 801	SCAFF.FÖRCH STARO RAIL 1,90M	1



Uni Standard Diagonal Line

- made of Aluminium

Article No.	Article Description	QTY
4988 1208 804	SCAFF.UNI STAND.DIAG.L.3,35 M	1
4988 1208 805	SCAFF.UNI STAND.DIAG.L.2,95 M	1



Decks for Mobile Scaffolding

- aluminium frame with plywood floor with phenolic resin coating

Art.-No. 4988 1241 803:

- suitable for Zifa P2

Art.-No. 4988 1241 805:

- suitable for Uni Standard P2

Art.-No. 4988 1241 804:

- suitable for Staro Rollbock



Article No.	Article Description	QTY
4988 1241 803	SF ZIFA P2 DECK 1.80M	1
4988 1241 805	SF UNI STANDARD DECK 2.85M	1
4988 1241 804	SF FÖRCH STARO DECK 1.90M	1

Access Decks for Mobile Scaffolding

- aluminium frame with plywood floor with phenolic resin coating

Art.-No. 4988 1242 802:

- suitable for Zifa P2

Art.-No. 4988 1242 803:

- suitable for Uni Standard P2

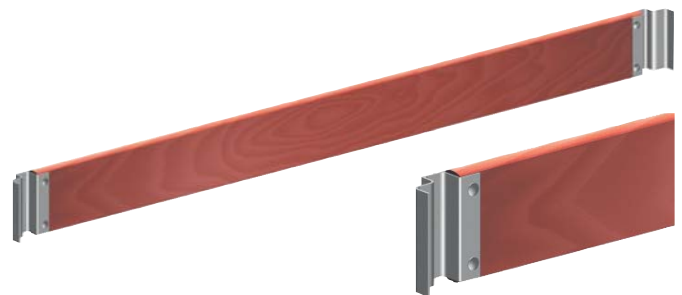


Article No.	Article Description	QTY
4988 1242 802	SF ZIFA ACCESS DECK 1.80M	1
4988 1242 803	SF UNI STAND.ACCESS DECK 2.85M	1

Uni Standard Toe Board 2.85 m with Hook

- made of wood
- Length: 2.86 m
- Height: 0.15 m
- Weight: 5.6 kg

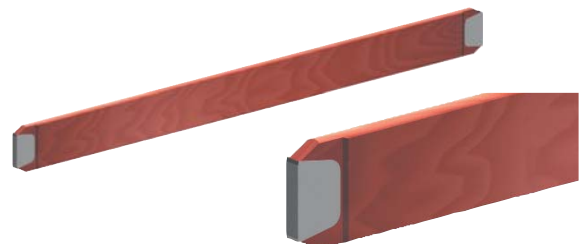
Article No.	Article Description	QTY
4988 1239 801	SF UNI STA.TOE BOARD WITH HOOK	1



End Toe Board 0.75 m

- suitable for mobile scaffolding Uni Standard P2
- made of wood
- Length: 0.73 m
- Height: 0.15 m
- Weight: 1.6 kg

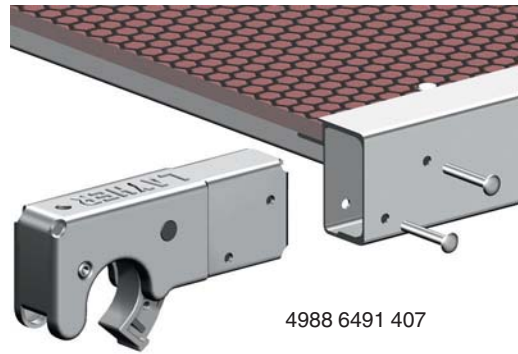
Article No.	Article Description	QTY
4988 1238 801	SF FÖRCH END TOE BOARD 0.75M	1



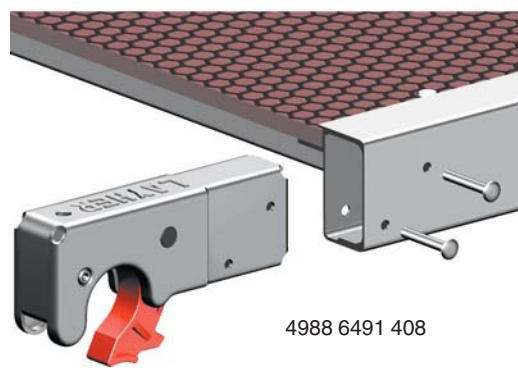
Hook-on claw for Access Decks and Platforms

- Hook-on claw for access decks and platforms
- Including suitable nivets
- Art.-No. 4988 6491 407:**
- Hook-on claw with grey catch
- Art.-No. 4988 6491 408:**
- Hook-on claw with red catch

Article No.	Article Description	QTY
4988 6491 407	HOOK-ON CLAW CATCH GREY	1
4988 6491 408	HOOK-ON CLAW CATCH RED	1



4988 6491 407



4988 6491 408

Work trestle

- Folding work trestle in steel/wood
- Space-saving and handy for transport and storage
- Height-adjustable from 0.59 m to 0.87 m working height
- Feet individually adjustable
- Quick to set up and take down
- Load-bearing capacity up to 300 kg/pair
- Easily replaceable wooden beam
- Weight: 5.6 kg

Article No.	Article Description	QTY
5435 350	WORK TRESTLE WOOD/STEEL	1



Props

- professional craftsman design
- made from glass fibre reinforced plastic and toughened steel pipes
- patented „quick feed“
- ceiling height by one press of a button
- can also be used on roof pitches
- ball joint with anti-slip base plates on both sides

Technical Data

load: 70 kg
length: 155 - 310 cm

Article No.	Article Description	QTY
5433 70 310	PROP	1



Universal spanner

- easy to handle thanks to the feed lever
- can be used for transport and cargo securing in cars
- ball joint with non-slip base plate on both sides

Technical Data

load: 60 kg
length: 87 - 148 cm

Article No.	Article Description	QTY
5433 87 148	UNIVERSAL SPANNER	1



Hydraulic Car Jack Flat 2 t

- Intelligent hydraulic: with one stroke at position point of the vehicle
- Ideally suitable for lowered vehicles
- Shaft transmission
- Pumping rod protection
- Steel wheels

Technical Data

Load capacity:	2 t
Weight:	51.5 kg
Stroke height A min.:	63 mm
Stroke height B max.:	508 mm
Dimension LxW:	1072 x 349 mm
Frame height H:	160 mm

Article No.	Article Description	QTY
5430 2 3	CAR JACK FLAT 2T	1
5430 2 31	DIST.RUBBER F.CAR JACK FLAT	1



Hydraulic car jack 2 t

- hydraulic car jack with quick foot pedal to quickly span the lifting point
- protection against uncontrolled dropping (dead man's control)
- built-in safety valve to prevents overloading
- quiet polyurethane wheels
- ergonomic handle

Technical Data

lifting capacity:	2 t
weight:	49 kg
lift height A min:	80 mm
lift height D max:	795 mm
dimensions LxW:	950 x 500 mm
chassis height H:	220 mm
length lever C:	950 mm

Article No.	Article Description	QTY
5430 2000	HYDRAULIC CAR JACK 2 T	1
5430 2001	DIST.RUBB. F.CAR JACK 2T.	1



Trolley jack 2 t with PU tandem rollers

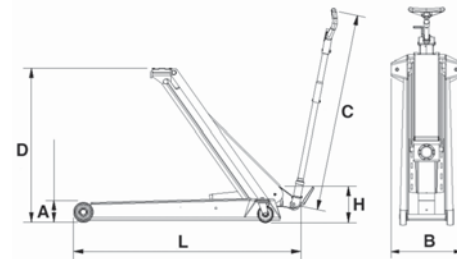
- hydraulic trolley jacket with quick-lift foot pedal
- Lifting point 100% protected thanks to rubber protective plates
- Impact protection on pump rod
- Secured against uncontrolled release (dead man's control)
- suitable for use in restricted spaces thanks to compact design
- low-noise PU wheels
- automatically adjustable tandem wheels at the front enable optimum handling, even on uneven ground

Technical Data

Load-bearing capacity:	2 t
Weight:	37.2 kg
Lifting height A min.:	85 mm
Lifting height D max.:	490 mm
Dimensions (L x W):	795 x 370 mm
Chassis height H:	180 mm
Pump lever length C:	980 mm
Total height with lever:	1,070 mm



Article No.	Article Description	QTY
5430 3002	TROLL.JACK PU-TANDEM ROLL.2T	1



Hydraulic Car Jack 3 t

- With quick lift and protective rubber plate
- With impact protection on pumping rod
- Colour: anthracite

Technical Data

Loading capacity:	3 t
Weight:	41 kg
Stroke height A min.:	130 mm
Stroke height B max.:	490 mm
Dimension LxW:	795 x 385 mm
Frame height H:	170 mm

Article No.	Article Description	QTY
5430 3001	SHORT JACK 3T	1
5430 3001 1	DIST.RUBB.F.HYDRAULIC CAR JACK	1



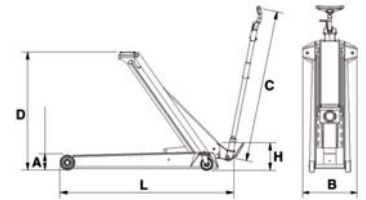
Hydraulic car jack 5t

- hydraulic car jack with quick foot pedal to quickly span the lifting point
- protection against uncontrolled dropping (dead man's control)
- built-in safety valve to prevent overloading
- ergonomic handle

Technical Data

lifting capacity:	5 t
weight:	170 kg
lift height A min:	140 mm
lift height D max:	975 mm
dimensions LxB:	1290 x 525 mm
chassis height H:	265 mm
length lever C:	1200 mm

Article No.	Article Description	QTY
5430 5000	HYDRAULIC CAR JACK 5T	1



rubber wheel air filled

- for easy manoeuvring and for better steering
- suitable with 5 t trolley jack art. no. 5430 5000

Article No.	Article Description	QTY
5430 5001	P(2)RUBB.WHEELS F.CAR JACK 5T	1



Jack 10 t

- Solid, blue steel frame
- Oil and acid resistant plastic wheels
- With pump lever for load and foot pedal for bridging idle stroke
- Patented LCS lowering valve guarantees the lowering with a controlled rate of descent when working with heavy loads

Technical Data

Art. No.	Load cap.y t
5430 10	10

Article No.	Article Description	QTY
5430 10	JACK 10T	1



Air-Hydraulic Lifter for Truck/Bus 20 t

Technical Data

Load cap.:	20 t
Weight:	53 kg
Pressure:	7 - 10 bar
Air required:	270 l/min.
Hydraulic lifting:	110 mm
Extension 1 (Ø x height in mm):	70 x 20
Extension 2 (Ø x height in mm):	50 x 20
Extension 3 (Ø x height in mm):	50 x 60
Extension 4 (Ø x height in mm):	50 x 100
Min. height in mm:	235
Max. height in mm:	
- with adapter 1 + 2	365
- with adapter 3	405
- with adapter 4	445
Dimension LxW:	530 x 320 mm

Article No.	Article Description	QTY
5430 20 1	AIR-HYDRAUL.LIFT.TRUCK/BUS 20T	1



Truck / bus lever air hydraulics can lift 10 - 25

- handy design and low weight (27 kg) for mobile use
- hard chrome-plated piston rod for long product life
- built-in safety valve to prevent overloading
- protection against uncontrolled lowering (dead man control)
- standard 2 extensions 50 / 100 mm
- air connection: ¼" inner thread

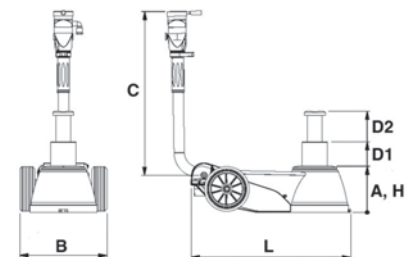
Technical Data

weight:	27 kg
lift height A min:	161 mm
dimensions L x W:	534 x 292 mm
chassis height H:	161 mm
operating pressure:	9 x 12 bar
min. air consumption:	350 l/min
length lever C:	550 mm
extensions:	50 / 100 mm

1. level:	
lifting capacity:	25 t
lift height D1 max:	234 mm

2nd level:	
lifting capacity:	10 t
lift height D2 max:	317 mm

Article No.	Article Description	QTY
5430 10 25	TRUCK-/BUS LEV.AIR HYDR.10-25T	1



Hydraulic Jack

- Colour: anthracite

Technical Data		
Art. No.	Min. height mm	Max. height mm
5431 2	158	308
5431 4	180	350
5431 6	197	382
5431 8	205	390
5431 12	214	399
5431 20	242	449

Article No.	Article Description	QTY
5431 2	HYDRAULIC JACK 2T	1
5431 4	HYDRAULIC JACK 4T	1
5431 6	HYDRAULIC JACK 6T	1
5431 8	HYDRAULIC JACK 8T	1
5431 12	HYDRAULIC JACK 12T	1
5431 20	HYDRAULIC JACK 20T	1



Distance Rubber

Article-No. 5430 1 1:

- suitable for Hydraulic Car Jack Art.-No. 5430 15, Art.-No. 5430 2 2 and Art.-No. 5430 3
- Rubber-ø: 93 mm

Article-No. 5430 2 31:

- suitable for Hydraulic Car Jack Art.-No. 5430 2 3
- Rubber-ø: 107 mm

Article-No. 5430 2001:

- suitable for Hydraulic Car Jack Art.-No. 5430 2000
- Rubber-ø: 109 mm

Article-No. 5430 3001 1:

- suitable for Hydraulic Car Jack Art.-No. 5430 3001
- Rubber-ø: 138 mm

Article No.	Article Description	QTY
5430 1 1	DISTANCE RUBBER F. JACK	1
5430 2 31	DIST.RUBBER F.CAR JACK FLAT	1
5430 2001	DIST.RUBB. F.CAR JACK 2T.	1
5430 3001 1	DIST.RUBB.F.HYDRAULIC CAR JACK	1



5430 1 1



5430 2 31



5430 2001



5430 3001 1

Hydraulic Wheelpan

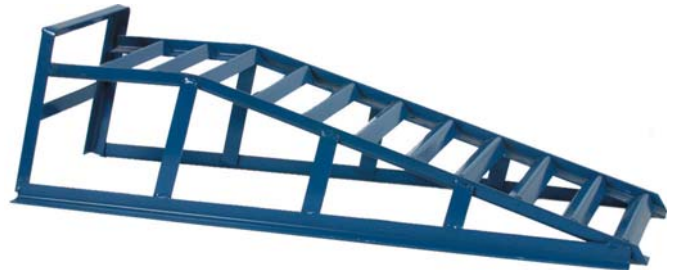
- With only a few pedal strokes the lifting arms retract and the wheel is lifted upwards
- Easy controlling of vehicles to all directions
- Tyre width: max. 300 mm
- Tyre diameter: max. 650 mm
- Areas of use: Workshops, car dealerships, multi-storey car parks, exhibition halls and show rooms



Article No.	Article Description	QTY
5430 600	HYDRAULIC WHEELPAN 600KG	1

Access Ramp

- TÜV tested
- Long service life
- Tyre width up to max. 195 mm
- Provides safe operation for repairs, care and maintenance work under the vehicle
- Also suitable for car shows



Technical Data

Load capacity/ piece Kg	Length mm	Height mm	Width base mm	Width top mm
1000	840	260	270	200

Article No.	Article Description	QTY
5432 1	ACCESS RAMP	1

Axle Stands

- The employer's liability insurance association: Vehicles lifted by lifting tools have to be supported by appropriate axle stands immediately
- Robust and proved 3-leg-design
- 4-fold adjustable

Technical Data

Article No.	Load capacity kg	Min. height mm	Max. height mm
5432 18	1500	260	405
5432 3	3000	320	530
5432 5	5000	365	590
5432 8	8000	360	590

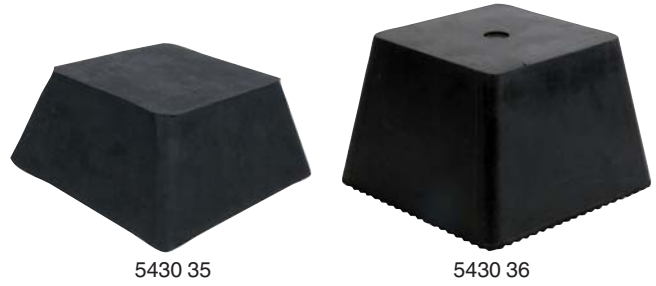
Article No.	Article Description	QTY
5432 18	AXLE STAND 1.5T	1
5432 3	AXLE STAND 3T	1
5432 5	AXLE STAND 5T	1
5432 8	AXLE STAND 8T	1



Rubber Block

- OEM-quality for use as support for lifting platforms
- Made of very robust natural and special rubber with Shore hardness A 75 +/-5
- The bottom is napped to prevent sliding

Article No.	Article Description	QTY
5430 35	RUBBER BLOCK 70X150X150	1
5430 36	UNTERLEGKLOTZ GUMMI100X150X150	e 4 a



Plastic Block

- As support for lifting platform

Article No.	Article Description	QTY
5430 45	PLASTIC BLOCK 340X150X45	1
5430 95	PLASTIC BLOCK 340X150X95	1



Telescopic Multi-Purpose Trolley

- With anti-skid rubber coating
- Height and width adjustable
- With robust 4-wheel-chassis (2 with parking brake)
- Can be telescoped after use

Fields of application:

- Paint preparation
- Component part completion
- Glazier
- Storage of other bulky items



Technical Data

Width	257-1.380 mm
Height	845-1.320 mm
Load capacity	100 kg

Article No.	Article Description	QTY
5437 50	TELESC.MULTI-PURPOSE TROLLEY	1

Foldable Trolley

- Revolving edge and impact protection
- The sliding bow can be folded to 90°
- Plastic wheels
- Load capacity: 150 kg
- Weight: 12.5 kg
- Dimension LxWxH: 740 x 480 x 860 mm

Article No.	Article Description	QTY
4990 150	FOLDABLE TROLLEY 150KG	1
4990 150 1	PK(2)STEE.ROLL.F.FOLD.4990 150	1
4990 150 2	PK(2)FIX.CASTOR F.FOL.4990 150	1



Trolley

- Easy and quick height adjustment due to button
- Extra big profile wheel for exterior works
- Small folding measure
- Big transport space
- Sponge rubber covered grips with foldable extra grips
- Mobile and safe at the same time

Technical Data

Load capacity:	200kg
Dead weight:	9.8kg
Folded up:	50 x 9 x 101cm
Opened:	60 x 6 x 112cm
Platform size:	59 x 40cm

Article No.	Article Description	QTY
4990 200 10	TROLLEY 200KG FOLDABLE	1



Car tyre trolley 200 kg

- tyre trolley to lift and transport tyres and complete wheels with a diameter of 540 - 820 mm
- designed for up to 8 tyres (using 205 mm tyre breadth)
- easy to transport using the fold-out stabilizers
- broad fixed castors reduce the risk of tipping
- stop mechanism on the support arms ensure that the arms do not slide under the pile
- support arms and stabiliser are opened, closed and fixed using a gas pressure damper
- soft plastic coatings
- foot control pedal to tip the trolley safely as well as to fold the stabilizers in and out

Technical Data

lifting capacity:	200 kg
capacity:	up to 8 tyres (using 205 mm tyre breadth) 540 - 820 mm tyre diameter
dimensions HxWxD:	1600 x 723 x 772 mm
painting:	powder coating
wheel bearing:	maintenance-free and sealed precision ball bearing
2 fixed castors:	Ø 260 mm, with pneumatic tyres
2 stabilizers:	Ø 125 mm, solid tyres with steering bearing

Article No.	Article Description	QTY
3530 200	TYRE TROLLEY CAR W. DEPTH.WHE.	1
3530 200 2	AIR WHEEL RUBBER 260X85 MM	1



Powerwash Organic Parts-Washing Device

- Biological parts cleaner and degreasing bath without solvent and VOC for rapid cleaning of mechanical parts
- Filling level indicator at the tank



Your Advantage / Benefit

- significantly extended cleanser change intervals
- free of labels, pH neutral and non-flammable cleaning fluid
- Breakdown of carbon hydroxides and regeneration of the cleaning baths with pH-neutral organic liquid and specific micro-organism tablets
- Boost and energy savings mode for cleaning of very resistant dirt and to reduce power consumption
- Brush and dip system

Application



Technical Data

Tank Volume:	80 l
Tray Volume:	11 l
Throughput Flow:	1,140 l / h
Quantity of Liquid Required:	45 l
Weight:	22 kg
Colour:	black

Article No.	Article Description	QTY
5378 8	POWERWASH ORGAN.PARTS-WASH DEV	1
6110 1200	PCK(4)ORGANIC TABS CONC. R591	1
6110 1205	KA(20L)BIO-CLEANER R590	1

Related Products

- Nitrile Gloves, Long
Art.-No. 5405 51 7 - 10



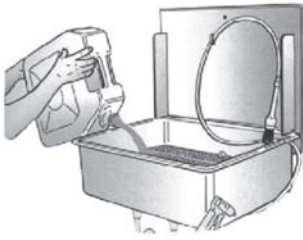
- Full Vision Goggle 'Comfort'
Art.-No. 5400 4



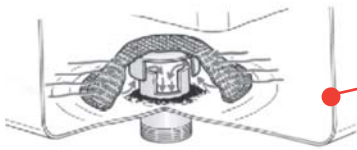
- Roll of Cleaning Cloth-3 Layer
Art.-No. 5413 10



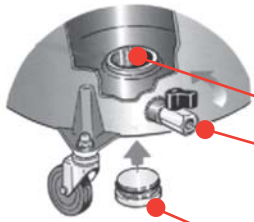
Parts Washing Device



The washing tray only works correctly when 48 - 52 litres of washing solution are poured in the tray

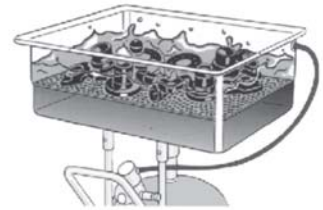
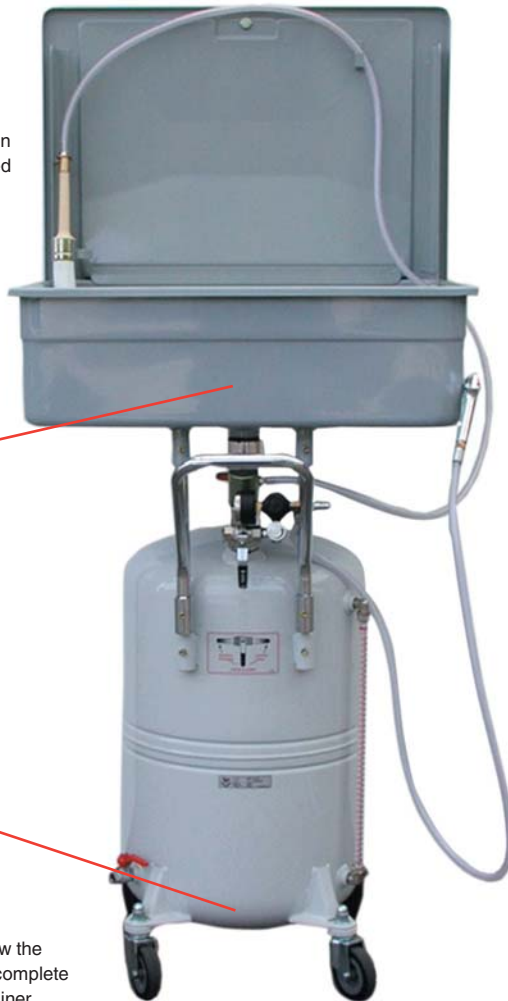


Screen to filter dirt



Drainage

Drainage screw (below the container to facilitate complete emptying of the container)



Washing in a bath, i.e. the parts can be placed directly in the washing solution



Washing with a brush that continuously dispenses washing solution

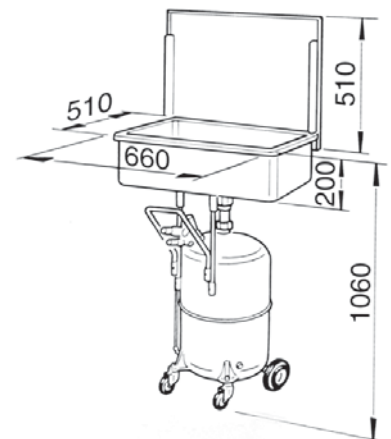


Compressed air system works with lower pressure (0.5 bar) and very little air



Lever to switch between washing with brush or in a bath

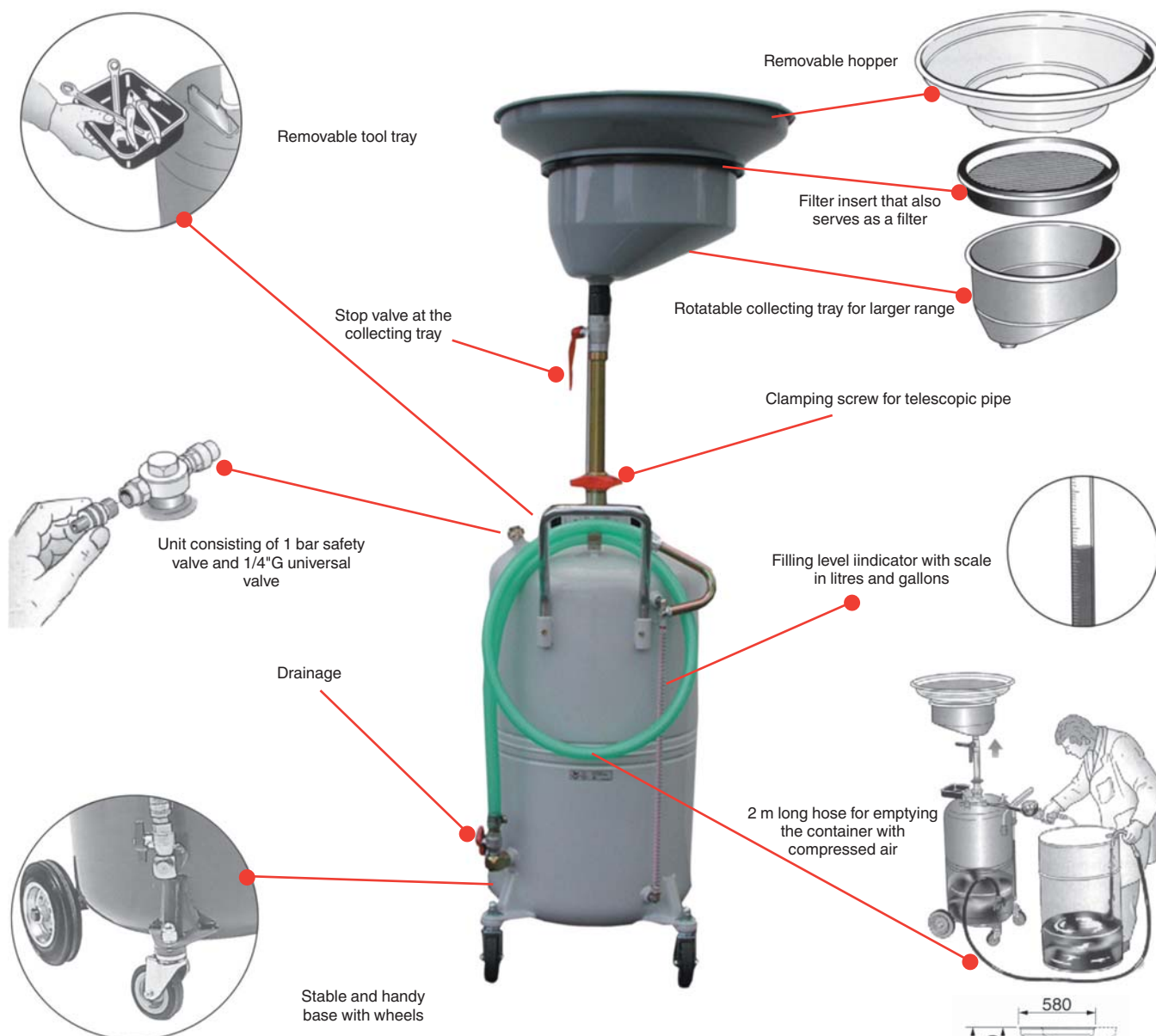
- rollable Förch-Parts Cleaning System - especially appropriate for mobile and flexible use, for fast cleaning of mechanical parts and small parts in general
- pressure system working with low pressure causes the washing solution to flow, which makes it possible to do the washing process in 2 different ways
- using a washing brush, with washing-solution being sprayed out from top, which can be perfectly used to carry out thorough cleaning processes
- in the solution, that means putting the parts directly into the tray with the washing solution - "whirlpool-effect"
- cost-effective due to the multiple usage of the washing solution
- liquid level display with scale printed on the body
- integrated blow gun for the blowing of the parts



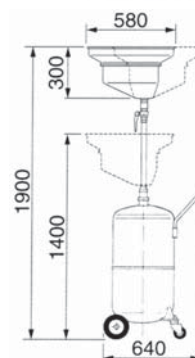
Article No.	Article Description	QTY
5378 3	PARTS WASHING SYSTEM 65L 70365	1
5378 2	WASHING BRUSH W. STEM	1
6110 0975	ENG/GEARB/CHASIS-P.CL.R521 60L	1

Technical Data	
Container capacity:	65 l
Trail capacity:	50 l
Max. operating pressure:	0,5 bar
Needed amount of liquid:	50 l
Max. pressure on the compressed air-gun:	12 bar
Weight:	47 kg
Colour:	grey

Waste Oil Collector



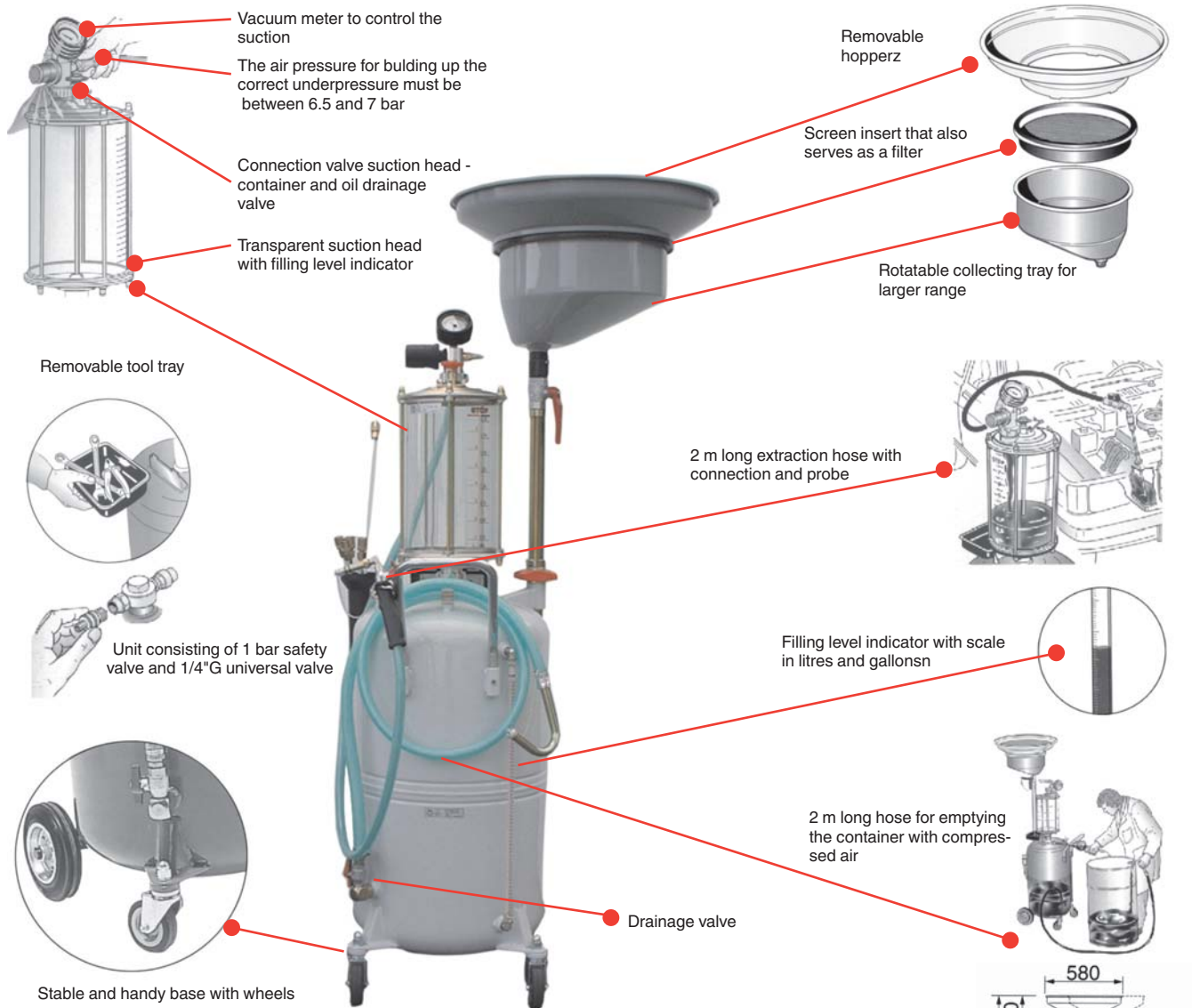
- Förch-Waste Oil Collector with a 90 l container, to proceed a simple and flexible oil change, appropriate to collect waste oil, which has to be drained out from motors, gears or differentials of any kind of vehicles on a lifting platform
- Disposal by a pressure cushion, simple and fast pumping with compressed air into the waste oil tank
- **Equipped with:** - Liquid level display with scale printed on the caudron - Collector tray with funnel top is adjustable in height - Screen insert/filter and removable tool basin



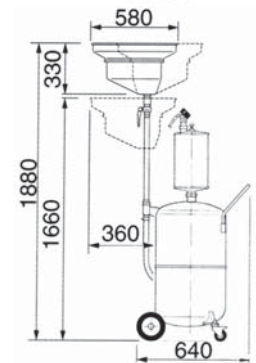
Technical Data	
Container capacity	90 l
max. capacity of waste oil	75 l
Collector tray capacity	13 l
Funnel top diameter	Ø 580 mm
Length drain tube	2 m
Maximum height	1900 mm
Minimum height	1400 mm
Drain pressure	0,5 bar
Weight	34 kg
Colour	grey

Article No.	Article Description	QTY
5375 8	WASTE OIL COLLECTOR 90L	1

Waste Oil Collection Equipment



- Combined waste oil collection equipment for used oil, suitable for draining off engine oil of all types of vehicles which are positioned on a platform or pit as well as for draining off used oil with suction pipe
- Suction head enables immediate control of quantity and quality of the sucked of oil
- Oil to be sucked of must be hot (70-80°C)
- Evacuation by pressure buffer, is being pumped into the used oil tank fast and easy by air-pressure
- The suction adapter for Mercedes is firmly fixed at the suction hose



Article No.	Article Description	QTY
5375 9	WASTE OIL EXTRACT./COLLECT.90L	1

Included in delivery:

- Art.-Nr. 5375 9 Waste oil collection equipment for used with suction head, receptacle and 90l container, with filling level
- Equipped with standard pipes as follows:
 - Art. No. 5375 10 Plastic suction pipe flexible D = 5 L = 700 mm - Art. No. 5375 11 Plastic suction pipe flexible D = 6 L = 700 mm - Art. No. 5375 12 Plastic suction pipe flexible D = 7 L = 1000 mm - Art. No. 5375 13 Plastic suction pipe flexible D = 8 L = 700 mm - Art. No. 5375 14 Metal suction pipe rigid D = 5 L = 700 mm - Art. No. 5375 15 Metal suction pipe rigid D = 6 L = 700 mm - Art. No. 5375 16 Suction adapter VW D = 5 L = 60 mm

Technical Data	
Capacity of container:	90 l
Max. capacity of used oil:	75 l
Suction head capacity:	8 l
Receptacle capacity:	13 l
Air-pressure for vacuum devel.:	7 bar
Vacuum development:	2.5 - 3 min
Noise pollution:	75 dB
Suction speed:	1.5 - 2 l/min
Oil temp. 70-80°C, pipe 6 mm	
Total suction performance:	60 - 65 l
Length of suction hose:	2 m
Length of drain hose:	2 m
Max. drain pressure:	0.5 bar
Weight:	42 kg
Colour:	grey

Spraying Device - Inox

- Wheeled atomizer made of stainless steel with filling level display
- Usable for all alkali medias
- Mobile usage without connection to compressed air
- With over-pressure security valve
- Not suitable for acidic products containing more than 15% acids contents

Technical Data

Capacity of container:	24 l
Length distributor hose:	5 m
Max. working pressure:	10 bar
Length of spray lance:	0.65 m
Security valve:	10 bar

Article No.	Article Description	QTY
5378 6	SPRAYING DEVICE - INOX 24L	1



Vacuum pump

- Manual vacuum pump for withdrawing and filling vehicle operating fluids
- Temperature resistance between 0 - 150 °C

Suitable for the following media:

- Diesel fuels
- Petrol
- Brake cleaner without acetone / A2 / A3 cleaner
- Brake fluids
- Power steering oil
- Engine oil
- Gearbox oil
- Radiator antifreeze
- Window cleaner



Your Advantage / Benefit

- Transparent container with measuring scale for viewing the fill level and contents
- Rotating isolator valve on the hose for sealing off the vacuum pump
- Support leg on the container serves as roll-away protection
- Various hose adapters for clean and direct extraction on the vehicle and container

Application

- Extraction and filling of all suitable operational fluids in all areas of the vehicle
- Easy and fast ventilation of the fuel system after changing hoses and filters



Technical Data

Capacity:	1.5 l
Length of pump:	380 mm
Ø of pump:	89 mm
Length of SAE main hose:	510 mm
Length of hose adapter:	165 mm
Ø of SAE hose adapter:	8 mm / 10 mm
Length of metal adapter:	85 mm

Article No.	Article Description	QTY
5375 77	VACUUM PUMP 1.5L	1

Note:

When applying brake fluid, the pump may not be used for any other medium to avoid mixing the brake fluid (risk of damage to the brake system).

Related Products

■ Brake Cleaner Premium R510 Art.-No. 6110 0914



■ Disposable gloves, nitrile Art.-No. 5405 40 1 1 - 5 1



■ Roll of Cleaning Cloth Art.-No. 5413 10



Suction Pump - Transparent

- Working volume 1000 ml
- Pipe and hose made of resistant PVC, grip, caps and nozzle tube made of metal

Application fields:

- For exact filling of suctioning of liquids in the workshop e.g. engine oil, gear oil, brake fluid, fuels
- Transparent body with measuring scale make exact dosgae possible
- 600 mm long hose makes operation at areas difficult of access easier

Article No.	Article Description	QTY
5375 78	SUCT.FILL.PUMP W.INSPT.GLASS1L	1



Suction Pump - Single Active

- Capacity: 0.5l or 1l
- With flexible tube
- Tube length: 350 mm
- Tube diameter: 13 mm

Article No.	Article Description	QTY
5375 72	SUCTION PUMP ZP 500ML	1
5375 73	SUCTION PUMP ZP 1000ML	1



Emergency Pump

- For decanting liquids e.g. oils, water, anti-freeze protection, etc.
- Hose length approx. 2 m
- Hose-ø:
 - inner: 9 mm
 - outer: 13 mm
- not suitable for fuel and other flammable liquids

Article No.	Article Description	QTY
5375 70	EMERGENCY PUMP	1



Oil Filling Pump VAG

- For fast and easy filling of transmissions, differentials, power divider etc. via special adapter
 - Capacity: 3 l
 - **Not suitable for fuels or solvents!**
- Art.-No. 5375 76 9:**
- for Haldex-Coupling on VW Tiguan, Passat, etc.

Article No.	Article Description	QTY
5375 76	OIL FILLING PUMP VAG	1
5375 76 1	ADAPTER VAG 103	1
5375 76 2	ADAPTER VAG 104	1
5375 76 3	ADAPTER VAG 105	1
5375 76 4	ADAPTER VAG 106	1
5375 76 5	ADAPTER VAG 107	1
5375 76 6	ADAPTER FORD 1/8"-27NPT	1
5375 76 7	ADAPTER BMW BUCKLED FORM	1
5375 76 9	ADAPTER VAG 105 ANGLED M10X1.0	1
5375 76 10	ADAPTER MB M12X1.5	1
5375 76 11	SEAL.RING F.HANDGRIP,2-PIECE	1

Scope of Delivery Art.-No. 5375 76:

- 1 x Art.-No. 5375 76 1 Adapter VAG 103
- 1 x Art.-No. 5375 76 2 Adapter VAG 104
- 1 x Art.-No. 5375 76 3 Adapter VAG 105
- 1 x Art.-No. 5375 76 4 Adapter VAG 106
- 1 x Art.-No. 5375 76 5 Adapter VAG 107



Oil Filling Device **ECO**

- 8-part adapter set with various outlet angles and screw-in sockets
- For filling gearboxes and differentials with oil
- Hose length: 150 cm
- Tank capacity: 7.5 ltr
- 1 pump stroke approx. 80 cm³
- Can be used up to oil viscosity SAE 140
- **Not suitable for fuels or solvents!**

Art.-No. 5375 79 3:

- 3-part adapter set Mercedes 722.9 / VAG DSG/CVT



Article No.	Article Description	QTY
5375 80	OIL FILLER 7.5 LITER	1
5375 79 3	ADAPTER SET VAG/MB 3PCS	1

Barrel Pump

- Barrel pump with steplessly adjustable telescopic pipe for all containers from 60 l to 200 l with G2-thread
- For oil, diesel, radiator anti-freeze protection etc. (not suitable for, grease, acid, fuel)

Art.-No. 5375 31:

- Special pump with Viton seal for use in AUS 32 urea solution, acids and mild alkalis

Technical Data			
Art.-No.	5375 6	5375 30	5375 31
Connection:	G2" top / 2" Buttres (55 x 4 mm) base	G2" top / G1 1/2" base	G2"
Telescopic pipe:	min. 49,0 cm max. 91,5 cm	min. 33,0 cm max. 90,0 cm	min. 47,0 cm max. 88,0 cm
Delivery rate:	0.33 l per stroke	3 phases adjustable from 0.3 l to 0.37 l up to 0.45 l per stroke	0,3 l per stroke
Application:	oil, diesel, radiator anti-freeze metal	oil, diesel, radiator anti-freeze, alcohol (max. 50% conc.) water, pretroleum plastic	Urea solution AUS 32, Acids and mild alkalis Plastic with Viton seal
Design:			



Article No.	Article Description	QTY
5375 6	BARREL PUMP F.60-200L BARREL	1
5375 30	PLAST.HANDPUMP F.60-200L BARR.	1
5375 31	PLA.HAND PU.VITON F.60-200L BA	1

Oil-Spraying Can

- Oils in any situation
- Filling volume: 0.3 l
- Container made of zinc diecasting

Article No.	Article Description	QTY
5421 1	OIL-SPRAYING CAN 0.3L	1



Bin with outlet and scale

- 10.5 l capacity
- made from acid-resistant polyethylene (HD-PE)
- with shaped scale and plastic brackets
- industry bin with outlet for safe handling

Article No.	Article Description	QTY
5421 10	BIN W. OUTLET AND SCALE 10.5L	1



Measuring Cup PP

- Transparent with calibration
- Material: polypropylene

Article No.	Article Description	QTY
5421 3 500	MEASURING CUP 500 ML	1
5421 3 1000	MEASURING CUP 1000 ML	1
5421 3 2000	MEASURING CUP 2000 ML	1
5421 3 5000	MEASURING CUP 5000 ML	1

(Filling and measuring range in ml)



Measuring Can - Tinplate

- Calibrating, in accordance with the calibration regulations, with stamping: „Only for mineral oils“

Article No.	Article Description	QTY
5421 5 500	TINPLATE MEASURING CAN 500 ML	1
5421 5 1000	TINPLATE MEASURING CAN 1000 ML	1
5421 5 2000	TINPLATE MEASURING CAN 2000 ML	1

(Filling and measuring range in ml)



Measuring Can PE

- Transparent with calibration and funnel outlet
- Material: polyethylene
- Connecting thread for flexible outlet pipe
- inclusive covering caps

Article No.	Article Description	QTY
5421 4 500	MEASURING CAN 500 ML	1
5421 4 1000	MEASURING CAN 1000 ML	1
5421 4 2000	MEASURING CAN 2000 ML	1
5421 4 3000	MEASURING CAN 3000 ML	1
5421 4 5000	MEASURING CAN 5000 ML	1

(Filling and measuring area in ml)



Flexible Pipe for Measuring Cans

- Material: polyethylene
- Art. No. 5421 4 1:**
 - Length: 160 mm
 - For measuring cans Art. No. 5421 4 500, 5421 4 1000 and 5421 4 2000
- Art. No. 5421 4 2:**
 - Length: 300 mm
 - For measuring cans Art. No. 5421 4 3000 and 5421 4 5000



Article No.	Article Description	QTY
5421 4 1	FLEX PIPE F.MEASU.CAN 0.5+1+2L	1
5421 4 2	FLEX PIPE F.MEASURING CAN 3+5L	1
5421 4 3	FLEX PIPE F.MEASURING CAN 2.0L	1

Can for Cooling Water

- Secure against tilting due to big stand space
- Easy filling due to freely accessible opening
- No overflow when carrying, specially angled outlet, two grips for safe pouring

Article No.	Article Description	QTY
5421 7	CAN FOR COOLING WATER GREY8.5L	1



Petrol Can

- Complies with the highest security requirements
- TÜV-tested
- Suitable for fuel, Diesel and E10
- Inclusive outlet pipe and children-safety lock
- Material: Polyethylene
- With UN-approval according to ADR/GGVSEB for transporting dangerous goods
- UN-No: 3H1/Y/150/09/PL COBRO 1174/FGB (5 L)
- UN-No: 3H1/Y/150/10/PL COBRO 1177/FGB (10 L)
- UN-No: 3H1/Y/150/09/PL COBRO 1188/FGB (20 L)
- Included label for labelling the cans according to the GHS-regulation (Dangerous Goods regulation)

Article No.	Article Description	QTY
5421 5 1	PLAS.CONT.BLACK W.OUTL.PIPE 5L	1
5421 10 1	PLAS.CONT.BLACK W.OUTL.PIPE10L	1
5421 20 1	PLAS.CONT.BLACK W.OUTL.PIPE20L	1



5421 20 1

5421 10 1

5421 5 1

Outlet pipe for diesel vehicles

- suitable for all vehicles with diesel misfuelling protection
- suitable for:
 - Art.-No. 5421 5 1
 - Art.-No. 5421 10 1
 - Art.-No. 5421 20 1

Article No.	Article Description	QTY
5421 5 10	OUTLET PIPE F. DIESEL VEHICLES	1



Double canister

- suitable for petrol, diesel and E10
- fuel canister (5l)
- with separate oil container (3l)
- outlet pipe included
- for operating small motors in motor saws, lawnmowers etc.
- transparent
- with UN approval according to GGVS no. 3H1W/Y1.OZ1.0/150/13

Article No.	Article Description	QTY
5421 5 3	DOUB.CANIST. PLAST.WHITE 5+3L	1



Fuel filling system

- integrated ventilation for smooth pouring
- with automatic fill stop mechanism
- for all canisters with a 29 mm opening
- nozzle Ø 21 mm
- length: 130 mm
- made from polyethylene
- suitable for both connecting threads Art.-No. 5421 5 3



Article No.	Article Description	QTY
5421 29 130	FUEL FILLING SYSTEM	1

Tin petrol canister

- suitable for petrol, diesel and E10
- can be closed using the fastener with locking pin
- material : coated sheet metal
- UN-no.: 3A1/Y/100/13/D/BAM 6210-VP (10 L)
- UN-no.: 3A1/Y/100/13/D/BAM 6210-VP (20 L)
- TÜV and GS tested

Art.-No. 5421 10 12:

- For petrol canisters 10 l and 20 l
- Included label for labelling the canisters according to the GHS-Regulation (Dangerous Goods regulation)



Article No.	Article Description	QTY
5421 10 10	TIN PETROL CANISTER 10L	1
5421 10 20	TIN PETROL CANISTER 20L	1
5421 10 12	OUTLET PIPE FLEX F.CANISTER	1
5421 10 12 1	SEAL.RING F.CANISTER&OUTLET P.	5

Funnel

Art. No. 5421 20 and 5421 23:

- With removable brass filter
- Material: polyethylene

Article No.	Article Description	QTY
5421 20	FUNNEL 200/25MM	1
5421 23	FUNNEL WITH HANDLE 160/22MM	1
5421 27	FUNNEL 120/15MM	1

(Fill-in-Ø in mm/ outlet-Ø in mm)



Funnel Set

- Small diameter, without filter
- Material: polyethylene
- Fill-in-Ø 50, 75, 100, 120 mm
- Outlet-Ø 9, 10, 11, 15 mm

Article No.	Article Description	QTY
5421 26	FUNNEL-SET 4-PART	1



Funnel Angled

- With removable brass filter
- Material: polyethylene
- Outlet displaced to 200 mm

Article No.	Article Description	QTY
5421 24	FUNNEL 160/24MM	1

(Fill-in-Ø mm / outlet-Ø mm)



Funnel with Bellow

- With flexible bellow hose and removable brass filter
- Material: polyethylene
- Hose length 420 mm

Article No.	Article Description	QTY
5421 22	FUNNEL 205/22MM	1

(Fill-in-Ø in mm/ outlet-Ø in mm)



Funnel with Angled Outlet

- With removable brass filter
- Material: polyethylene
- 30° angled

Article No.	Article Description	QTY
5421 21	FUNNEL 205/20MM	1

(Fill-in-Ø in mm/ outlet-Ø in mm)



Flexible Funnel

- Resistant against petrol, diesel, oil, cooling fluids, hydraulic fluid
- Flexible, freely mouldable

Article No.	Article Description	QTY
5421 8	FLEXIBLE FUNNEL	1



Urea Tank System for Cars 60/210

- Mobile filling station for urea solution AUS 32
- Wheels can be adjusted to accommodate 60 l and 210 l containers
- ISO output connector for safe refuelling
- Filling process stops automatically
- Drip-free refuelling
- Digital flow meter for monitoring the refuelled quantity

Technical Data

Length:	800 mm
Width:	860 mm
Height:	1200 mm
Weight:	36 kg
Voltage:	230 V
Frequency:	50 / 60 Hz
Power:	400 W
Current consumption:	1.35 A
Operating temperature:	5 – 40 °C
Feed rate:	3 / 11 l/min
hose length:	2 m

Article No.	Article Description	QTY
5373 210	UREA TANK SYSTEM CARS 60/210	1



Stationary Exhaust-System

- Single exhaust-system with ventilator, hose and funnel
- Stainles steel funnel

Technical Data

Art. No.:	5360 15	5360 21
Motor:	400 V / 0.,35 KW	400 V / 1.1 KW
Air flow:	400-600 m ³ /h	1200-1400 m ³ /h
Hose-Ø:	100 mm	150 mm
Hose length:	5 m	5 m
Sound level (LpA):	68 dB (A)	72 dB (A)

Article No.	Article Description	QTY
5360 15	EXHAUST SYSTEM CPL.100MM/5M	1
5360 21	EG2-EXHAUST SYST.CPL.150MM/5M	1



Mobile Extraction Unit

- with adjustable extraction funnel (from 250 to 680 mm)
- Power line 6 meters

Technical Data

Motor:	220 V / 0,75 PS
max. torque:	2.800 1/min
Air flow:	750 m ³ /h
Hose-Ø:	125 mm
Hose length:	6 m
Sound level (LpA):	73 dB(A)

Article No.	Article Description	QTY
5360 5000	MOBILE EXTRACTION UNIT 220V	1



Exhaust Hose

- Robust material, withstands multiple ride overs
- Light and very flexible spiral hose made of TPE
- Coated polyester fabric
- Scouring protection
- High chemical resistance, especially against oil and petrol-vapours
- For an exhaust-gas analysis the hose-diameter has to be minimum 100 mm and the hose has to be used in combination with a metal funnel
- Temperature resistant up to max. +150°C
- Minimum length 2 m or a multiple of it (is delivered in one piece)

Article No.	Article Description	QTY
5360 75	MTR EXHAUST HOSE 75MM	2
5360 100	MTR EXHAUST HOSE 100MM	2
5360 125	MTR EXHAUST HOSE 125MM	2
5360 150	MTR EXHAUST HOSE 150MM	2



Exhaust pipe Y connector

- for vehicles with 2 exhaust pipes or 2 tail mufflers
- clean discharge of exhaust fumes in the workshop's exhaust extractor system
- simple to mount the exhaust pipes to the hosepipe

Article No.	Article Description	QTY
5360 75 75 75	EXHAUST Y-CONNECT. 75X 75X 75	1
5360 100 75 75	EXHAUST Y-CONNECT. 100X 75X 75	1
5360 100 100100	EXHAUST Y-CONNECT. 100X100X100	1
5360 125 100100	EXHAUST Y-CONNECT. 125X100X100	1
5360 150 100100	EXHAUST Y-CONNECT. 150X100X100	1
5360 150 125125	EXHAUST Y-CONNECT. 150X125X125	1



Exhaust Funnel Rubber

Technical Data		
Art. No.	For hose-Ø mm	Air intake-Ø mm
5360 9	75	140
5360 16	100	140

Article No.	Article Description	QTY
5360 9	BG 140/75 RUBBER FUNNEL	1
5360 16	BG 140/100 RUBBER FUNNEL	1



Exhaust funnel rubber, inner clamping

- problem solver for modern mufflers that are built in to the bumper panel and where conventional funnel deadlocks do not fit
- suitable for individual and double mufflers
- deadlock of the funnel in the inner pipe due to gradual spreader for-caps
- incl. exhaust probe opening

Technical Data	
exhaust temperature:	max. 150°C
total length:	585 mm
weight:	2.7 kg
min king pin angle:	20 mm
max king pin angle:	230 mm
blade length:	190 mm
suction port Ø:	200 mm

Article No.	Article Description	QTY
5360 22	EXH.FUN.RUB. W.IN. CLAMP. 75MM	1
5360 23	EXH.FUN.RUB. W.IN. CLAMP.100MM	1
5360 24	EXH.FUN.RUB. W.IN. CLAMP.125MM	1

(hose Ø mm)



Exhaust Funnel Rubber, Oval

- For all cars with double branch exhaust systems
- 45° angled
- with opening for exhaust gas probe

Technical Data

Art. No.	For hose-Ø mm	Air intake-Ø mm
5360 17	75	165 x 88



Article No.	Article Description	QTY
5360 17	BRG01/75 OVAL RUBBER FUNNEL	1

Exhaust funnel rubber, oval, internal clamp

- For all cars with double exhausts
- Clamping jaws for good hold in vehicles with built-in end mufflers in the bumper
- Angled 45°
- With opening for exhaust gas probe

Technical Data

Exhaust gas temperature:	max. 150°C
Total length:	430 mm
Weight:	2,2 kg
spacing:	45 mm
max. spacing:	240 mm
blade length:	100 mm
suction opening:	167 mm x 87 mm
for hose-Ø:	100 mm



Article No.	Article Description	QTY
5360 25	EXH.FUN.RUBBER W.INT.CLAMPS	1

Special Funnel

- Height adjustable

Technical Data

Art. No.	For hose-Ø mm	Air intake-Ø mm
5360 13	75	180
5360 14	100	180

Article No.	Article Description	QTY
5360 13	BS TEST 75 FUNNEL	1
5360 14	BS TEST 100 FUNNEL	1



Special Funnel AU II

- For exhaust-gas analysis II
- Stainless steel
- Height adjustable

Technical Data

Art. No.	For hose-Ø mm	Air intake-Ø mm
5360 20	100	B 200 x H 120

Article No.	Article Description	QTY
5360 20	EG2 FUNNEL 100MM	1



Universal Brake Bleeding Adapter-Set

- 95% of all vehicles can be bled with this adapter-set

Article No.	Article Description	QTY
5379 091	UNIVERSAL-ADAPTER-KIT BEG II	1

Included in delivery:

- **1 adapter 38:** adequate for VW Sharan, Ford Galaxy, Seat Alhambra, Renault Espace, Peugeot 806
- **1 adapter 77:** adequate for Chrysler, Ford, Nissan, Subaru
- **1 adapter 55:** universally applicable for different vehicles with chain fixing
- **1 adapter 67:** clutch bleeding
- packed in a robust case



Brake Bleeding Device BEG 204

- Electrically operated brake bleeding device for the maintenance of hydraulic brake and coupling systems on vehicles
- Portable version for original 5 l containers
- Automatic switch-off when containers are empty
- Not suitable for mineral oil-based brake fluid

Technical Data

For 5 L container	
Working pressure	0 - 4.0 bar
Filling hose	approx. 3.4 m
System voltage	220 V
Electronic cable	4.8 m
Dimension HxWxD	310 x 220 x 260 mm
Net weight	7.7 kg

Article No.	Article Description	QTY
5379 2	BEG 204 BRAKE BLEEDING DEVICE	1

Included in delivery:

- 1x Collecting bottle 1,0 l
- 1x Adapter 20 (for all european vehicles)



Brake Bleeding Device BEG 210

- electrically operated brake bleeding device for the maintenance of hydraulic brake and coupling systems on vehicles
- with pressure regulator
- especially appropriate for vehicles with ABS brake systems
- brake fluid remains in the container and doesn't have to be poured
- applicable for all original containers up to 12 l content
- automatic switch-off at a remaining quantity of approx. 0,3 l brake fluid, which is displayed additionally by a red control lamp
- simple filling hose bleeding due to quick coupling nipple
- perfect flexibility due to big wheels
- not suitable for mineral oil-based brake fluid

Technical Data

For 5, 10 and 12 L containers

Working pressure:	0 – 3,5 bar
Filling hose:	ca. 3,4 m
System voltage:	220 V
Electronic cable:	ca. 4,9 m
Dimension HxWxD:	980 x 340 x 340 mm
Net weight:	20 kg

Article No.	Article Description	QTY
5379 1	BEG 210 BRAKE BLEEDING DEVICE	1

Included in delivery:

- 1x collecting bottle 1.5 l
- 1x adapter 20 (for all European vehicles)



Brake Bleeding Device BEG 212

- Electrically operated brake bleeding device for the maintenance of hydraulic brake and coupling systems on vehicles
- Both extracting and refilling with only one device
- With pressure regulator
- Because of the integrated extraction function, the old brake fluid can be taken out of the fluid reservoir by dint of spiral hose and extraction tube in a short space of time. It is collected in a container integrated in the device and gets disposed from there into a collecting tank.
- Because the old brake fluid does not have to be pushed through the system any more, one is saving 0,5 litres brake fluid with each refilling procedure.
- Optimally adequated for vehicles with an ABS-brake system
- Low pressure test possible
- Pressureless uncoupling from the vehicle
- For 5, 10, 12 l containers
- Automatic deactivation at approx. 0,2 l
- not suitable for mineral oil-based brake fluid

Technical Data

For 5, 10 and 12 l container

Working pressure:	0 – 4,0 bar
Filling hose:	3,5 m
Spiral hose:	4,5 m
Collect. container:	1 Liter
Electronic cable:	4,8 m
System voltage:	230 V
Dimension HxWxD:	960 x 270 x 290 mm
Net weight:	12 kg

Article No.	Article Description	QTY
5379 1 12	BEG 212 BRAKE BLEEDING DEVICE	1

Scope of delivery:

- 1x Collecting bottle 1 l
- 1x Universal adapter (for all european vehicles)



Brake Bleeding Device BEG 260

- Electrically-operated brake bleeding device for the maintenance of hydraulic brake and coupling systems on vehicle
- With pressure regulator
- Two large wheels and one castor for outstanding manoeuvrability
- For original brake fluid container with 60 l volume
- Approved by Mercedes Benz, also suitable for „Actros“ heavy-duty trucks due to higher pump delivery rate
- Special bracket for collecting trays
- Not suitable for mineral oil-based brake fluid
- The integral suction feature with extraction probes removes the old brake fluid from the expansion tank through a spiral hose. The fluid is then collected in a container on the device and discharged into the collecting tank

Art.-No. 5379 260 1:

- Filter for suction of new brake fluid

Art.-No. 5379 260 2:

- Filter for extraction of old brake fluid



Technical Data	
Brake fluid container	30-60 l
Working pressure:	0-3.5 bar
Filling hose:	approx. 3.5 m
System voltage:	220 V
Electronic cable:	4.5 m
Dimension HxWxD:	920 x 450 x 560 mm
Net weight:	33 kg
Output:	approx 40 l / hrs

Article No.	Article Description	QTY
5379 260	BEG 260 PRO BRAKE VENTING DEV.	1
5379 260 1	SUCTION FILTERS F.BEG 260 PRO	1
5379 260 2	EXTRACT.FILTERS F.BEG 260 PRO	1

Included in delivery:

- 1x collecting bottle 1,5l
- 1x adapter 20 (for all European vehicles)

Brake Bleeder - Set

- Compressed-air/vacuum driven aspirating device for the maintenance of hydraulic brake and coupling systems on vehicles
- The old brake fluid gets extracted through the wheel brake cylinders
- Refilling system for the fluid reservoir

Technical Data	
Container volume:	0,75 l
Working pressure:	6 - 12 bar
Max. air consumption:	180 l/ min.
Vacuum:	60 %
Adapter:	1/4" IG
Suitable plug nipple:	3926 14 1

Article No.	Article Description	QTY
5379 7	BRAKE BLEEDER - SET	1
5379 7 12	REPLACE.HOSE WITH RUBBER PIPE	1



Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
ALFA ROMEO			
All Vehicles		5379 20	
Guiletta	2007	5379 76	
Guiletta	2011 –	5379 20	
156 + Sports car		5379 20	
Mito	2010 –	5379 20	
ASTON MARTIN			
Cygnnet	2011 –	5379 31 1	
DB7 Vantage		5379 20	5379 20
DB9 Volante	2011 –	5379 20	
V8 Vantage	2011 –	5379 20	
V12 Vanquish		5379 20	
AUDI			
All Vehicles		5379 20	
Q7		5379 50	
BENTLEY			
All Vehicles		5379 20	
BMW			
All Vehicles		5379 20	
5er GT Gran Turismo		5379 20	
BOVA			
Busse with HGS (Kongsberg)		5379 103	
BRILLIANCE			
BC-3	2007 –	5379 20	
BS-4	2007 –	5379 20	
BS-6	2007 –	5379 20	
BUGATTI			
Veyron	2006 –	5379 20	
BYD CARS			
F3 DM	2011 –	5379 20	
e6	2011 –	5379 86	
CADILLAC			
32V Northstar	1996 –	5379 61	
ATS	2013 –	5379 61	
BLS	2005 –	5379 20	
CTS (DOT3)	2001 –	5379 61	
Eldorado TC	1996 –	5379 61	
Escalade	2007 –	5379 61	
Seville SLS	1996 –	5379 61	
Seville STS	1996 –	5379 61	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
CADILLAC			
SRX	2003 –	5379 61	
XLR	2003 –	5379 61	
CHEVROLET			
Alero	1999 –	5379 61	
Astro-Van	1996 –	5379 12	
Aveo	2007 – 2010	5379 20	
Aveo	2011 –	5379 61	
Blazer	1996 – 1998	5379 61	
Blazer	1999 –	5379 61	
Camaro	1999 –	5379 61	
Captiva	2007 –	5379 61	
Corvette	1996 –	5379 61	
Cruze	2009 –	5379 20	
Epica	2007 –		
HHR	2007 –	5379 61	
Hummer H2 + H3	2003 –	5379 61	
Kalos	2007 –	5379 20	
Lacetti	2007 –	5379 20	
Malibu	2012 –	5379 20	
Matiz	2007 –	5379 35	
Nubria	2007 –	5379 20	
Orlando	2011 –	5379 20	
S10 PickUP 2WD + 4WD	1996 –	5379 13	
Spark	2009 –	5379 9 01	
Tahoe	1996 – 2002	5379 12	
Tahoe	2003 –	5379 61	
Trans Sport	1999 –	5379 61	
Trail Blazer	2001 –	5379 61	
Trax	2013 –	5379 61	
Volt	2011 –	5379 61	
CHRYSLER			
Crossfire	2003 –	5379 20	
300C Touring + Sedan	2005 –	5379 22	
for cast containers		5379 13	
300M 2.7 Executive	1999 –	5379 77	
Jeep Cherokee	– 1995	5379 77	
Jeep Cherokee	1996 –	5379 22	
Jeep Wrangler	2003 –	5379 22	5379 20
Jeep Wrangler Sport	1999 –	5379 22	
Jeep Grand Cherokee	1996 –	5379 22	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
CHRYSLER			
Neon Sport 16 V	1996 –	5379 77	
Neon LE 1,6	2001 –	5379 22	5379 20
New Yorker		5379 77	
PT Cruiser	2001	5379 22	5379 20
Stratus	1999 –	5379 77	
Sebring	2001 – 2009	5379 77	
Sebring	2010 –	5379 22	
Viper	2003 –	5379 22	
Vision		5379 61	
Grand Voyager	1999 – 2002	5379 77	
Grand Voyager	2002 –	5379 22	
Voyager LE	1996 –	5379 22	
Voyager SE	1994 –	5379 22	
Voyager SE 2,4	2001 –	5379 22	5379 31
Voyager LX 2,5	2001 –	5379 22	5379 31
CITROËN			
AX		5379 20	
Berlingo		5379 20	
Berlingo	1998 –	5379 38	
Berlingo	1996 –	5379 38	
Cabrio	2013 –	5379 20	
2CV		5379 20	
2CV4 Drum Brakein Front		5379 54	
C1	2005 –	5379 50	
C2	2003 –	5379 20	
C3	2003 –	5379 20	
C3 + Picasso	2002 – 2010	5379 20	
C3 + Picasso	2011 –	5379 20 2	
C4	2005 –	5379 20	
C4 Aircross	2012 –	5379 77	
C4 + Picasso	2004 –	5379 20	
C5	2001 –	5379 20	
C5 + Tourer	2001 –	5379 20	
C6	2005 –	5379 20	
C8	2003 –	5379 50	
C-Crosser	2007 –	5379 77	
DS 3	2009 –	5379 20	
DS 4	2011 –	5379 20	
DS 5	2012 –	5379 20	
Evasion		5379 20	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
CITROËN			
Jumper	1998 –	5379 50	
Jumpy	1998 –	5379 20	
Saxo		5379 20	
Visa		5379 20	
Xsara	2003 –	5379 38	
ZX		5379 20	
DACIA			
All Vehicles		5379 20	
1210/1310/1410	– 2004	5379 20	
Dokker	2013 –	5379 20	
Duster	2010 –	5379 20	
Lodgy	2012 –	5379 20	
Logan	2005 –	5379 20	
Sandero	2009 –	5379 20	
DAEWOO			
Aveo	2005 –	5379 20	
Espero		5379 20	5379 67
Evanda	2003 –	5379 61	
Kalos	2003 –	5379 20	
Lacetti	2003 –	5379 20	
Lanos		5379 20	
Leganza	1999 –	5379 35	
Matiz + ABS	1999 –	5379 35	
Nexia		5379 20	5379 67
Nubira	1999 – 2001	5379 20	
Nubira	2001 – 2006	5379 61	
Nubira WTCC R+	2005 –	5379 20	
Rezzo CDX	2001 –	5379 27	5379 27
DAF			
CF + XF			5379 38
Typ 45		5379 20	
45 Series = 150 / 160 / 180 / 210	1998 –		5379 38
65-85CF Series	1998 –	5379 38	
95 + F Series	1998 –		5379 38
V400		5379 74	
DAIHATSU			
Applause	1989 – 2000	5379 79	
Applause (A101)	1995 – 2000	5379 73	
Charade G200	1994 – 2000	5379 73	
Copen	2002 – 2007	5379 82	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
DAIHATSU			
Copen	2007 –	5379 9 01	
Cuore L501	1995 – 1999	5379 73	
Cuore L7	1999 – 2003	5379 82	
Cuore L251	2003 – 2007	5379 82	
Cuore L275	2007 –	5379 31 1	
Feroza	1990 – 1997	5379 73	
Hijet 4WD / Station Wagon	1989 –	5379 73	
Hijet S8	1995 –	5379 73	
Materia	2007 – 2010	5379 82	
Materia	2011 –	5379 85	
Move L600	1987 – 1999	5379 73	
Move	2001 – 2003	5379 85	
Move L901	1999 – 2001	5379 54	
Gran Move G303	1997 – 1999	5379 73	
Gran Move (G301)		5379 55	
Rocky (Rugger) F7, F8	1984 – 1997	5379 73	
Sirion	1998 –	5379 73	
Sirion M100, M101		5379 54	
Sirion M101	2001 – 2010	5379 85	
Sirion M101	2011 –	5379 85	
Sirion M100, M101, M111	2003 – 2010	5379 82	
Sirion M100, M101, M111	2011 –	5379 85	
Terios	1997 – 2007	5379 79	
Terios J102		5379 79	
Terios	2007 –	5379 31	
Trevis	2007 –	5379 82 1	
YRV M201		5379 54	
YRV M201	2001 – 2006	5379 85	
DODGE			
Charger	2012 –	5379 22	
Durango	2012 –	5379 22	
SRT Challenger	2011 –	5379 22	
RAM		5379 22	
FERRARI			
All Vehicles		5379 20	
328 GTB		5379 20	
328 GTS		5379 20	
F40		5379 20	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
FERRARI			
Mondial T + convertable top		5379 20	
Testarossa		5379 20	
FIAT			
All Vehicles		5379 20	5379 20
500	2007 –	5379 20	
Bachetta	1995 – 2005	5379 76	
Bravo	2007	5379 20	
Coupé	1994 – 2000	5379 76	
Cinquecento	1991 – 1997	5379 76	
Daily 241, 238; Ø 45		5379 27	
Daily 241, 238; Ø 26,5		5379 71	
Doblo	2001 –	5379 20	
Ducato	1998 –	5379 50	
Ducato II	1993 –	5379 50	
Fiorino II	1984 – 2000	5379 20	
Fiorino	2009	5379 20	
Fiorino	1998 –	5379 20	
Freemont	2011 –	5379 22	
Julietta			
Marea	1998 –	5379 20	
Multipla	1998 –	5379 27	
Palio		5379 20	
Palio / Strada / Siena / Albea	1996 –	5379 20	
Panda	2003 –	5379 20	
Punto	1993 – 1998	5379 76	
Punto	1998 –	5379 20	
Punto	2003 –	5379 20	
Qubo	2011 –	5379 20	
Scudo	1998 –	5379 20	
Sedici	2010 –	5379 20	
Seicento	1998 – 2006	5379 76	
Stilo	2001 – 2006	5379 20	
Strada	2005 –	5379 20	
Ulysee	2003 –	5379 50	
FORD			
All Vehicles		5379 20	
B-Max	2012 –	5379 61	
Cargo		5379 56	
Connect	2009 –	5379 20	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
FORD			
Continental ABS (USA)		5379 18	
Cougar	1999 –	5379 20	
Courier	1995 –	5379 20	
C-Max		5379 50	
Econovan		5379 17	
Escort	1996 –	5379 20	
Explorer		5379 77	
Fiesta	1996 – 2008	5379 20	
Fiesta	2009 –	5379 61	
Focus	1988 – 2003	5379 20	
Focus II	2004 –	5379 50	
Focus C-Max	1995 – 2003	5379 50	
Fusion	2002 –	5379 20	
Galaxy	1995 – 2005	5379 20	
Galaxy II	2005 –	5379 50	
Grand C-Max	2011 –	5379 50	
KA	1996 –	5379 20	
Maverick + Ranger	1993 –	5379 77	5379 43
Mondeo	1996 –	5379 20	
Mustang	2004 – 2009	5379 61	
Navigator (USA)	2001 –	5379 77	
Probe	1992 – 1997	5379 20	
Ranger	1999 –	5379 49	5379 20
S-Max	2011	5379 20	
Transit Van	1998 –	5379 20	
Tourneo Connect	2004 –	5379 20	
Truck Series 813 – 815		5379 56	
Truck Series N		5379 68	
Windstar	1995 – 2003	5379 77 1	
GENERAL MOTORS			
Vehicles with ITT ABS MkIV		5379 61	
HONDA			
Accord	1999 –	5379 80	
Accord	1993 – 2002	5379 80	
Accord	2002 – 2003	5379 86	5379 27
Accord	2003	5379 86	5379 17
Civic	1996 –	5379 81	5379 31
Civic (EJ 9)	1999 –	5379 81	5379 47
Civic	2012	5379 86	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
HONDA			
CRX 1,6	1997 –	5379 81	5379 47
CRV	1996 – 2001	5379 81	
CRV	2001 – 2011	5379 86	
CRV	2012 –	5379 86	5379 17
CR-Z	2009 –	5379 86	5379 17
FCX	2013 –	5379 86	
FR-V	2005 –	5379 86	
HR-V	1999 –	5379 81	5379 47
Insight	1999 – 2006	5379 81	
Insight	2009 –	5379 86	
Jazz	2003 – 2012	5379 86	
Jazz	2013 –	5379 86	
Legend	1991 –	5379 81	
Legend V6 2,7		5379 38	
Logo	1999 –	5379 81	
Motorcycle 205 – 1.000 ccm		5379 48	
NSX-T (1981 – =DOT3)	1999 –	5379 80	5379 47
Odyssey (US-Minivan)	1999 –	5379 81	
Prelude	1992 –	5379 81	
Prelude 2,0		5379 55	
S 2000	1999 –	5379 81	5379 47
S 2000	2001 –	5379 86	
Shuttle	1997 –	5379 80	
Stream	2000 –	5379 86	5379 17
HYUNDAI			
Accent	1995 –	5379 77	5379 43
Atos	1997 –	5379 77	
Centenial	1999 –	5379 77	
Coupé	1999 –	5379 77	
Elantra	2000 – 2006	5379 77	5379 43
Galopper	1991 – 2003	5379 77	5379 43
Genesis	2011 –	5379 77	
Getz	2003 –	5379 90	
Grandeur	2005 –	5379 77	
H-1 STRAREX	1998 –	5379 77	
H100	1995 – 1996	5379 14	
H100	1996 –	5379 63	
i10	2009 –	5379 77 1	
i20	2009 –	5379 77	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
HYUNDAI			
ix20	2011 –	5379 77	
i30	2009 – 2011	5379 77	
i30	2012 –	5379 77	
ix35	2009 –	5379 77	
i40	2011 –	5379 77	
ix55	2011 –	5379 77	
Lantra II	1996 –	5379 77	5379 43
Matrix	2001 –	5379 90	
Santa Fe	2001 –	5379 77	
Sonata	1989 –	5379 77	
Terracan	2002 –	5379 77	
Trajet	1999 –	5379 77 1	
Tucson		5379 77	
Veloster	2011 –	5379 77	
XG 30 / XG 350		5379 77	
INFINITI			
EX30d	2009 –	5379 77	
FX30d	2009 –	5379 77	
G37	2009 –	5379 77	
M35h	2012 –	5379 77	
QX50	2013 –	5379 77	
QX70	2013 –	5379 77	
ISUZU			
D-Max	2005 – 2011	5379 82	
D-Max	2012	5379 85	
Midi		5379 24	
MU Wizard	1989 – 2003	5379 82	
NPR 65 + 69	1998 –	5379 43	
NPR 69	1998 –	5379 43	
NQR 70	1998 –	5379 43	
Quasar	2013 –	5379 85	
Solar	2013 –	5379 85	
Trooper	1992 – 1999	5379 82	
IVECO			
Daily 30.8-35.8		5379 20	
M-Series 155.14 – 175.24		5379 20	
MK 75.9		5379 20	
Type 30.8 – 49.10		5379 20	
Type 80.13 – 130.13		5379 20	
Zeta 50.9 109.14		5379 37	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
IVECO			
Euro-Cargo	2009 –		5379 20
Euro-Cargo ML8015		5379 37	
60E10, E12, E14		5379 32	
65E10, E12, E14		5379 32	
75E12, E14, E15		5379 32	
80E15, E18, E21		5379 32	
100E15, E18, E21		5379 32	
Turbo-Daily			
59-12, 35-10, 49-12, 35-12, 30-8		5379 20	
All Euro-Cargo Models		5379 20	
JAGUAR			
Daimler Super V8		5379 20	
E-Type		5379 74	
F-Type	2013 –	5379 20	
Jaguar XJ 40 + XJ6		5379 38	
XJ 12 Series III		5379 57	
XJ6 Series III + XJS		5379 57	
Jaguar XJ Twin TD	2005 –	5379 20	
Jaguar XKR	1999 –	5379 20	
XJL	2009 –	5379 20	
Jaguar XJR	1999 –	5379 20	
Jaguar Sovereign 4.0		5379 20	
Jaguar S-Type V8	1999 –	5379 77	
Jaguar S-Type R	2003 –	5379 20	
Jaguar X-Type	2001 –	5379 20	
Jaguar Daimler Super V8		5379 20	
XF	2009 –	5379 20	
JEEP			
Jeep		5379 15	
Jeep Cherokee	1997 –	5379 77	
Jeep Cherokee	1997 – 2001	5379 22	
Jeep Wrangler	1996 –	5379 22	
Jeep Wrangler Sport	1999 –	5379 22	
Jeep Wrangler	2003 –	5379 22	
Jeep Grand Cherokee	1993 – 1998	5379 22	
Jeep Grand Cherokee	2011 –	5379 22	
Jeep Compass	2007 –	5379 22	
Jeep Commander	2006 –	5379 22	
Jeep Patriot	2007 –	5379 22	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
KIA			
Besta	1997 –	5379 17	
Carens	1999 –	5379 77	
Carens	1999 – 2007	5379 20	
Carens	2007 –	5379 77	
Carnival	– 1999	5379 17	
Carnival	1999 –	5379 77	
cee'd	2007 – 2011	5379 77	
cee'd	2012 –	5379 77 1	
cee'd sw	2011 – 2012	5379 77	
cee'd sw	2013 –	5379 77 1	
Cerato	2005 –	5379 77	
Clarus	1997 –	5379 20	
Joice		5379 77	
K2500	2012 –	5379 17	
Magentis	2001 – 2006	5379 77	5379 43
Magentis	2007 –	5379 77	
Opirius	2003 –	5379 20	
Optima	2012 –	5379 77	
Picanto	2004 – 2010	5379 77	
Pregio	1997 –	5379 15	
Pride	1995 –	5379 55	
pro Cee'd	2007 –	5379 77	
pro Cee'd GT	2013 –	5379 77 1	
Rio	2000 – 2003	5379 55	
Rio	2003 – 2010	5379 77	
Rio	2011 –	5379 77 1	
Sephia	1994 – 1999	5379 20	
Shuma	1999 – 2004	5379 20	
Sorento	2002 – 2009	5379 20	
Sorento	2010 –	5379 77	
Soul	2009 –	5379 77	
Sportage	1994 – 2002	5379 20	
Sportage	2005 –	5379 77	
Venga	2010 –	5379 90	
LADA			
Niva-off Road Vehicles		5379 27	
Nova		5379 27	
Samara 1,3	1989 –	5379 27	
Samara 1100	1989 –	5379 27	
Samara 1500	1989 –	5379 27	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
LADA			
Samara Happy Eco	1997 –	5379 27	
Type 1118	2005 –	5379 38	
Type 2101, 2104, 2105, 2107		5379 27	
Type 2110, 2111, 2112		5379 38	
Type 110, 111, 112 GLI		5379 27	
1119, 2170, 1118	2007 –	5379 27	
LAMBORGHINI			
All Vehicles		5379 20	
LANCIA			
All Vehicles	– 1991	5379 20	
Delta	2012 –	5379 20	
Flavia	2011 –	5379 22	
Lybra	2010 –	5379 20	
Musa	2003 –	5379 20	
Phetra	2002 –	5379 50	
Thema	2012 –	5379 22	
Thesis	2001 –	5379 20	
Model K	1996 –	5379 20	
Model Y	1996 – 2003	5379 20	
Voyager	2011 –	5379 22	
Ypsilon	2012 –	5379 20	
LAND ROVER			
Land Rover Discovery	1995 –	5379 20	5379 20
Land Rover Discovery XS	2001 –	5379 28	
Land Rover Discovery XS	2007 –	5379 20	
Land Rover Discovery 4	2011 –	5379 20	
Land Rover Defender	1999 –	5379 20	
Range Rover Evoque	2011 –	5379 20	
Land Rover Freelander	1999 –	5379 28	
Land Rover Freelander + Sport	2001 –	5379 20	
Range Rover		5379 20	
Range Rover 4.6 HSE	1999 –	5379 20	
Range Rover Vogue/EFI		5379 20	5379 71
LDV			
Convoy	1998 –	5379 52 5379 27	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
LEXUS			
CT 200h	2011 –	5379 31 1	
GS 300 / 400 / 430	1998 – 2005	5379 31	
GS 300 / 350 / 430 / 450 h / 460	2005 –	5379 31 1	
GS 300, GS 430	1995 –	5379 31	
IS 200 / 300	1999 – 2005	5379 31	
IS 220 d / 250 / 300 / 350	2006 –	5379 31	
IS F	2009 –	5379 31	
LS 460 / 460 L / 600 h / 600 hL	2007 –	5379 31	
LS 400, LS 430	1995 –	5379 31	5379 31
IS 200	1999 –	5379 31	
RX 330 / 350 / 400 h / 450 h	2003 –	5379 31	
RX 300	1999 – 2003	5379 31	
SC 300 / 400	1992 – 2000	5379 31	
SC 430	2001 –	5379 31	
LOTUS			
All Vehicles		5379 20	
MAN			
TGA with Kongsberg switch (Attention: hydraulic mineral oil!)			5374 2 98
F2000			5379 67
TGM (mineral oil!)	2009 –		5379 38
MASERATI			
3200 GT	1999 –	5379 20	
Gran Turismo	2007 –	5379 50	
Quattroporte	1999 –	5379 20	
Spyder Camiocorsa	2001 –	5379 50	
MAZDA			
121	1995 –	5379 77	
121 LX		5379 54	
2	2003 – 2006	5379 20	
2	2007 –	5379 61	
3	2003 –	5379 20	
3 MPS	2007 –	5379 20	
323	1991 –	5379 49	
323 C + F		5379 49	
323 P1.5 Luxury	1999 –	5379 49	
323 + LX / GLX / C / F / P1.5 / S1.5	1977 – 2003	5379 49	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
MAZDA			
323 S1.5 Exclusive	1999 –	5379 49	
5	2005 –	5379 20	
6	2003 –	5379 61	
626	1995 –	5379 49	
626 + GE / Kombi	1979 – 2002	5379 49	
626 GD		5379 27	
626 LX / GLX		5379 54	
626 GE	1992 –	5379 49	
626 Kombi	1998 –	5379 49	
B2500 PickUp 4WD	1998 –	5379 20	5379 20
B-Series 2.5L TD	2000 – 2006	5379 49	
BT 50	2009 –	5379 20	
B2500		5379 49	
CX-5	2012 –	5379 61	
CX-7	2007 –	5379 20	
Demio	1998 – 2003	5379 55	
E2000 + E2200 mini van		5379 17	
E2200 Transporter	1998 –	5379 17	
MPV	– 1998	5379 49	
MPV	1999 – 2001	5379 77	
MPV	2001 – 2005	5379 61	
MX-3		5379 49	
MX-5	1995 – 1998	5379 72	
MX-5	2001 – 2005	5379 55	5379 49
MX-5	2005 –	5379 20	
MX-6		5379 49	
Premacy	1999 – 2005	5379 61	
RX7-Turbo		5379 49	
RX-8	2003 –	5379 61	
Tribute	2001 – 2006	5379 77	
Xedos-6	1995 –	5379 49	
Xedos-9	1995 –	5379 49	
MERCEDES-BENZ			
All Vehicles		5379 20	
Actros mit HPS (Dot-4)		5379 97 (Set)	
Actros MPII + MPIII (mineral oil!)	2003 –		102 (Set)
207 / 209 / 310 / 609 Van		5379 20	
Citan	2013 –	5379 20	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
MERCEDES-BENZ			
G-Model		5379 27	5379 27
G-Model	2011 –	5379 20	
for type 1814 truck			5379 38
Unimog (with twin hose)		2x 5379 38	
MB 100	Up to chassis number 021971 a ventilation with bleeding devices is not possible, it has to be ventilated by pumping with the pedal from chassis number 021972 with bleeding device, max. pressure 0.5 - 1.0 bar!		
SLK	2011 –	5379 20	
Smart		5379 20	
Smart ForFour		5379 38	
Sprinter		5379 38	
Typ 1814 Lkw			
MINI			
All Vehicles		5379 20	
MITSUBISHI			
ASX	2009 –	5379 77	
Canter	1996 –	5379 69	
Canter 35 / 60 / 75		5379 19	
Carisma	1995 –	5379 34	
Carisma Fließheck	1999 –	5379 37	5379 43
Carisma Stufenheck	1999 –	5379 37	
Colt 1300 Cl		5379 37	
Colt CLXi		5379 37	5379 43
Colt	2004 –	5379 38	
Eclipse		5379 37	5379 43
Galant 1800 GLS Kat.		5379 37	
Galant GTI / GLSI + Kombi		5379 37	5379 43
Galant	1997 – 2003	5379 41	5379 43
Galopper	1991 – 2003	5379 77	5379 43
Grandis	2004	5379 89	
L200	1993 –	5379 37	
L200	1996 – 2001	5379 41	
L200	2011 –	5379 41	
L400 Space Gear	1996 – 2003	5379 62 1	
Lancer (all types)		5379 37	5379 43
Lancer	2003 –	5379 77	
Outlander	2003 –	5379 77	
Pajero	1990 –	5379 37	5379 43
Pajero Sport	1999 –	5379 41	5379 43

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
MITSUBISHI			
Pajero 3,2	2001 –	5379 77	
Pajero Pinin	1999 – 2005	5379 77	5379 43
Santamo		5379 77	5379 43
Sapporo 2400		5379 37	
Sigma		5379 41	
Space Gear (L400)	1996 – 2003	5379 62	
Space Runner	1991 – 2000	5379 77	
Space Star	1999 – 2000	5379 34	
Space Star	2000 – 2005	5379 37	
Space Star	2013 –	5379 77	
Space Wagon	1983 – 1992	5379 41	
Space Wagon	1990 – 1998	5379 37	5379 43
Space Wagon (GDI)	1999 –	5379 77	
Space Wagon	2003 –	5379 77	
MORGAN			
Roadster Aero	2009 –	5379 50	
MOSKVICHI			
2140 / 2141		5379 20	
NISSAN			
100 NX	1990 – 1995	5379 77	
200 NX	1993 –	5379 55	
200 SX	1995 –	5379 77	
200 SX – Turbo Maxima 3,0		5379 55	
350Z / Fairlady	2003 –	5379 77	5379 43
370Z	2010 –	5379 77	5379 43
Almera	1995 – 2007	5379 77	
Bluebird 2,0 SLX / Hatchback		5379 55	
Cab-Star	2009 –	5379 11	
GT-R	2010 –	5379 77	
Inter Star X70	2005 –	5379 20	
Juke	2011 –	5379 20	
Kubi Star X76	2006 –	5379 20	
Leaf	2011 –	5379 11	
Maxima QX	1995 –	5379 77	5379 43
Micra	1993 – 2003	5379 77	
Micra K3	2011 –	5379 11	
Micra GL / LX		5379 54	
Murano Z50	2006 –	5379 77	
Navara D40	2006 –	5379 20	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
NISSAN			
Noblesse	2005 –	5379 77	
Note E11	2006 –	5379 20	
Patrol GR TD6	2007 –	5379 77	
Patrol Turbo D		5379 54	
Pathfinder + RS1	2005 –	5379 77	
Patrol GR TD6	1999 –	5379 77	5379 43
Pick Up		5379 55	5379 43
Pick Up	2001 –	5379 77	
Pixo	2009 –	5379 83	
Prima Star X86	2006 –	5379 20	
Primera	1993 –	5379 77	
Quashqai	2007 –	5379 77 1	
Quashqai + 2	2012 –	5379 77	
Rodius	2005 –	5379 77	
Serena	1993 –	5379 77	
Serena	1995 –	5379 77	
Sherry		5379 45	
Sunny	1993 –	5379 77	
Sunny GTI	1989 –	5379 54	
Sunny SLX / Coupé SLX / 1,3 LX		5379 54	
Terrano	1993 –	5379 55	
Terrano II	1999 –	5379 77	
Urvan		5379 11	
Vanette Cargo	1995 –	5379 77	5379 43
X-Trail	2001 –	5379 77	
OPEL			
All vehicles		5379 20	
Adam	2013 –	5379 20	
Agila (venting the coupling from bottom to top!)	2000	5379 38	5379 67
Agila A	2001 – 2007	5379 38	
Agila B	2007 –	5379 20	
Ampera	2011 –	5379 61	
Antara	2007 –	5379 61	
Arena	1998 –	5379 38	
Astra G, H	1999 –	5379 20	
Campo	1987 – 2001	5379 82	
Campo	2009 –	5379 20	
Cascada	2013 –	5379 20	
Combo	2012 –	5379 20	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
OPEL			
Frontera	1992 – 2005	5379 82	
GT	2006 –	5379 20	
Insignia	2009 –	5379 20	
Meriva	2012 –	5379 38	
Mokka	2013 –	5379 61	
Monterey	1992 – 1999	5379 82	
Morano	2009 –	5379 20	
OPC Turbo	2003 –	5379 50	
Signum	2003 –	5379 20	
Sintra		5379 61	
Vauxhall	2013 –	5379 20	
Vivaro	2001 –	5379 20	
Zafira		5379 38	
OTOKAR BUS			
Vectio	2009 –		
Navigo	2009 –		
PEUGEOT			
All Vehicles		5379 20	
107	2005 –	5379 50	
1007	2005 –	5379 20	
207	2006 –	5379 20	
208	2012 –	5379 20	
2008	2013 –	5379 20	
307, 308	2001 –	5379 20	
308	2012 –	5379 20	
3008	2010	5379 20	
407	2004	5379 20	
4007	2006	5379 77	
4008	2012 –	5379 77	
508	2012	5379 20	
5008	2010	5379 20	
607	1999 –	5379 20	
Boxer		5379 38	
Expert	1995 –	5379 20	
Partner	1996 –	5379 20	
RCZ	2011 –	5379 20	
Typ 806	1996 –	5379 20	
Typ 807	2003 –	5379 50	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
PONTIAC			
Firebird + Cabrio		5379 61	
Trans Sport		5379 61	
PORSCHE			
All Vehicles	1977 –	5379 20	
PROTON			
315 GLSI	1999 –	5379 41	
316 GLSI	1999 –	5379 34	5379 43
318 GLSI	1999 –	5379 37	5379 43
413 GLSI	1999 –	5379 37	
415 GLI	1995 –	5379 37	
415 GLSI	1999 –	5379 41	
416 GLSI	1999 –	5379 37	5379 43
Carmony Plus	1997 –	5379 37	
QOROS			
Kombi	2013 –	5379 20	
Sedan	2013 –	5379 20	
RENAULT			
All Vehicles		5379 20	5379 29
Avantime		5379 20	
B 120.50		5379 20	
Bus FR1 / GTX, FR1E, R312		5379 20	5379 20
Captur	2013 –	5379 20	
Clio I, II, III	1991 –	5379 20	
Espace		5379 38	
G, R, AE-Series			5379 29
Kangoo	1998 –	5379 20	
Koleos	2009 –	5379 77	
Laguna I, II, III	1993 –	5379 20	
Latitute	2011 –	5379 20	
Mascott	2009 –	5379 20	
Master	1998 –	5379 38	
Maxity	2009 –	5379 11	
M		5379 20	5379 29
M 200.13		5379 20	
M 230.13		5379 20	
Mégane	1994 – 2001	5379 20	
Mégane	2011	5379 20	
Mégane	2012	5379 20	
Modus	2005 –	5379 50	
Rodeo	1989 – 2003	5379 82	5379 67

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
RENAULT			
Scénic	1994 – 2001	5379 20	
Scénic / Scénic Grand	2011 –	5379 20	
Scénic II	2002 –	5379 38	
S (Midlinder)		5379 20	5379 29
Tracer		5379 20	5379 20
Traffic		5379 38	
Twingo	1993 – 2011	5379 20	
Twingo	2012 –	5379 38	
Vel Satis		5379 20	
Wind	1993 – 2011	5379 20 2	
Zoe	2012 –	5379 20	
ROVER			
Mini + 1300 Special	– 1988	5379 65	5379 71
Mini Spcial	1988 –	5379 20	5379 71
Mini Cooper	1999 –	5379 20	5379 71
Maestro		5379 20	
Montego		5379 20	
Metro MG / HL / HLE		5379 20	5379 20
MG F-Steptronic	1999 –	5379 28	
MG ZR 160		5379 28	
MG ZS 180		5379 80	
MG IVVC	1999 –	5379 28	
25	1999 – 2005	5379 28	
45		5379 80	
75 + Tourer	1999 –	5379 20	
200 / 214 / 800	1995 –	5379 28	
800 / 820 / 825 / 827		5379 38	
420 / 600		5379 80	5379 31
400		5379 80	
SAAB			
All Vehicles		5379 20	
93	2011 –	5379 20	
94x	2011 –	5379 77	
95	2011 –	5379 20	
SCANIA			
Model P, R, T			5379 20
Model 93 / 13 / 143			5379 20
Other clutches can only be bied with special connection couplings from bottom to top. Special connection clutches can only be obtained from Scania. Bleeding can be performed with a standard brake bleeding device.			

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
SEAT			
All Vehicles		5379 20	
Alhambra	2003 –	5379 20 2	
Altea	2011 –	5379 20 2	
Exeo	2011 –	5379 20	
Ibiza	2012 –	5379 20	
Leon	2011 –	5379 20 2	
SMART-MCC			
Smart		5379 20	
Smart ForFour		5379 38	
ŠKODA			
All VAG-Vehicles		5379 20	
Citigo	2012 –	5379 20	
Fabia	2000 –	5379 20	
Felicia		5379 20	
Oktavia	1995 –	5379 20	
Rapid	2013 –	5379 20	
Roomster	2005 –	5379 20	
Super B		5379 20	
Yeti	2010	5379 20	
120 L		5379 39	
135 L Favorit		5379 39	
SSANG YOUNG			
Actyon	2007 –	5379 77	
Korando	1997 – 2002	5379 61	
Korando	2003 –	5379 77	
Kyron	2005 –	5379 77	
Musso		5379 61	5379 45
Musso E32	2001 – 2005	5379 77	
Noblesse	2005 –	5379 77	
Rexton	2001	5379 77	
Rodius	2004 –	5379 77	
STEYR			
Tractors		5379 64	
SUBARU			
BRZ	2012 –	5379 77	5379 43
Coupé 1800	1988 –	5379 41	
Forester	2009 –	5379 77	5379 43
Forester	1999 –	5379 77	
Forester II	2002 –	5379 77	5379 35
Impreza 1,8GL		5379 41	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
SUBARU			
Impreza 4WD	1998 –	5379 77	
Impreza WRX	2001 –	5379 77	5379 35
Justy	1995 –	5379 37	
Justy III	2003 – 2007	5379 20	
Justy IV	2007 – 2010	5379 82	
Justy IV	2011 –	5379 85	
Legacy + Kombi	1999 –	5379 77	5379 35
Lagacy Sedan 1800		5379 78	
Legacy Sedan 2200		5379 78	
Legacy	2005 –	5379 77	
Libero	1993 –	5379 77	
Libero E10 + E12 mini van	1988 –	5379 35	
Outback	2007 –	5379 77	5379 84
Outback	1989 –	5379 77	5379 35
Sedan 1800 4WD		5379 41	
Station Wagon 1800	1988 –	5379 41	
Super Justy	1988 –	5379 41	
Trezia	2011 –	5379 31 1	
Turismo	1983 –	5379 45	
WRZ	2012 –	5379 77	5379 84
XV	2012 –	5379 77	
SUZUKI			
Alto	1996 –	5379 83	
Baleno	1996 –	5379 49	
Baleno m. ABS + 1.3GS + GL	1996 –	5379 77	
Baleno Holiday	1999 –	5379 77	
Baleno 1,6GLX + Special	1999 –	5379 18	
Carry Family	1989 –	5379 35	
Ignis + Sport	2001 –	5379 35	
Ignis	2003 –	5379 20	
Jimny	1998 –		
JLX	1996 –		
Kizashi	2010 –	5379 83	
Liana	2001 –	5379 42	5379 43
Maruti		5379 35	
SA 310 + SA 413	1988 –	5379 46	
Samurei	1993 –	5379 20	
Samurei Van	1989 –	5379 55	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
SUZUKI			
Samurei Van + Pick Up	1999 –	5379 20	
Samurei SJ + SJ 413	1985 –	5379 55	
Splash	2007 –	5379 20	
Swift	1996 – 2004	5379 41	
Swift	2011 –	5379 83	
Swift 1,3 + 1,5	2005 –	5379 20	
Swift MA	1996 – 2004	5379 20	
Swift MZ / ET	2005 –	5379 20	
Swift Sport	2012 –	5379 20	
SX4	2006 – 2009	5379 20	
SX4	2010 – 2011	5379 83	
SX4	2012 –	5379 20	
Vitara + Grand + XL-7	2001 –	5379 77	5379 43
Vitara	1991 –		
Vitara + Grand + 2,0	1999 – 2004		5379 43
Wagon R+	1999 –	5379 83	
Wagon R+	2003 –	5379 20	
TATA			
Aria	2011 –	5379 20	
Indica Vista	2009 –	5379 9 01	
Indigo Manza	2009 –	5379 9 01	
Storme	2012 –	5379 20	
Xenon XT	2009 –	5379 20	
TOYOTA			
Avensis	1997 – 2003	5379 20	5379 47
Avensis	2010 –	5379 20	
Avensis Verso	2001 – 2005	5379 31 1	
Auris	2008 – 2010	5379 50	
Auris	2011 –	5379 31 1	
Auris Touring	2013 –	5379 20	
Aygo (Peugeot 107, Citroen C1)	2005 –	5379 38	
4-Runner	1996 –	5379 31	
Camry	1993 –	5379 31	
Camry		5379 70	5379 47
Carina	1993 –	5379 31	
Carina II / 2,0 GLI / 16V		5379 70	5379 47
Celica 4WD		5379 47	5379 47
Celica GT 2,0 / GT 1600		5379 47	5379 47

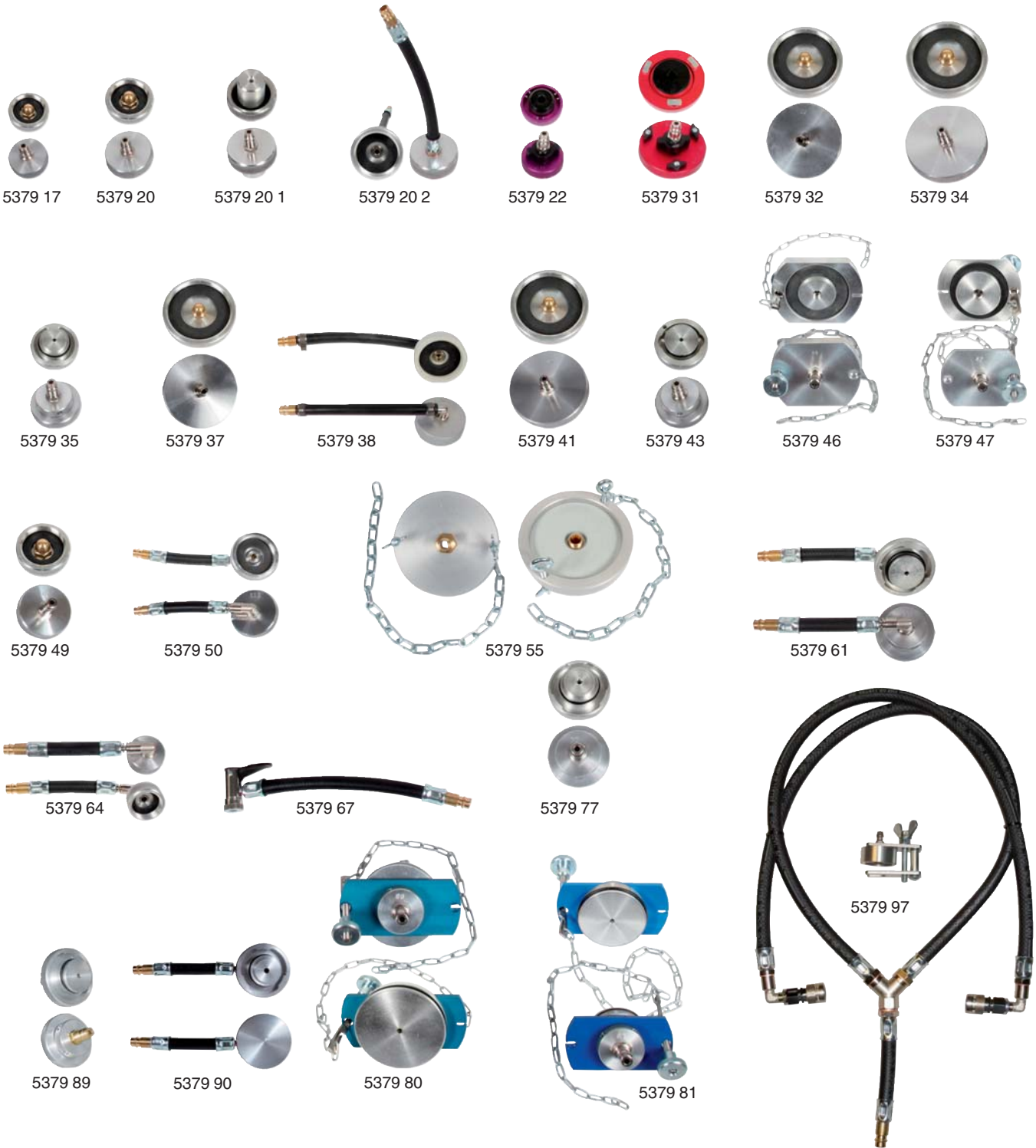
Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
TOYOTA			
Celica GT 2,0 / GT 1600	2001 –	5379 31	
Celica CS	2003 –	5379 31	
Corolla E11		5379 31	5379 31
Corolla	1993 –	5379 31	
Corolla	1996 –	5379 47	
Corolla	2001 –	5379 31	
Corolla + Verso	2003 –	5379 20	
GT86	2012 –	5379 77	5379 43
Hiace	1996 –	5379 47	
Hiace Mini Van		5379 16	
Hilax	2005 –	5379 31	
Hilux		5379 47	5379 47
HSD	2009 –	5379 31	
IQ	2009 –	5379 31 1	
Landcruiser		5379 46	5379 47
Landcruiser HJ100		5379 31	
Landcruiser	2003 –	5379 31	
Liteace	2003 –	5379 16	
MR-2	2003 –	5379 31	
Picnic	1999 –	5379 31 1	
Prius	2001 –	5379 31	
Prius / Prius +	2011 –	5379 31 1	
Previa		5379 16	
RAV 4	1996 – 2009	5379 47	5379 47
RAV 4	2009 –	5379 31	
Starlet		5379 70	5379 47
EAV 4	2003 –	5379 31	
Tercel		5379 70	5379 47
Urban Cruiser	2009 –	5379 31 1	
Verso	2009 – 2012	5379 20	
Verso	2013 –	5379 50	
Verso	1999 –	5379 31	
Yaris		5379 31	
Yaris	2006 –	5379 38	
Yaris (Sondermodell)		5379 20	
VOLVO			
All Vehicles		5379 20	5379 20
Busse B 12 + B 10 B			5379 17
C30	2011 –	5379 20	

Usage List of Adapter (Connection Liquid) for Brake Bleeding

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
VOLVO			
FLC 6 Series 7,5–12		5379 17	5379 17
FH 12 Series from 12 t only Clutch			5379 17
FL 608		5379 15	5379 20
FL 611		5379 15	5379 20
FL 7 / 10 / 12 + FM Series			5379 17
S 40 / V 40	–2002	5379 34	
S 40	2003–	5379 20	
S 60	2001–	5379 20	
S 70 / V 70		5379 20	
S 80	2003–	5379 20	
V50	2004–	5379 20	
V60	2011–	5379 20	
V70	1997–2001	5379 20	
V70 II	2001–	5379 20	
V70 XC	1997–2001	5379 20	
XC60	2011	5379 20	
XC70	2001	5379 20	
XC 90	2002–	5379 20	
VOLKSWAGEN			
All Vehicles		5379 20	
Amarok	2009–	5379 20	
Caddy + Maxi	2005–	5379 20 2	
Crafter	2009–	5379 20	
EOS	2005–	5379 20 2	
Golf	2013–	5379 20	
1500 Type 1		5379 64	
1500 / 1600 Type 3		5379 64	
Jetta	2011–	5379 20 2	
LT 28		5379 64	
LT 31		5379 64	
LT 35		5379 64	
Lupo		5379 50	
Multivan	2003–	5379 20	
New Beetle	1998–2002	5379 38	
New Beetle	2002–	5379 20	
Passat	2011–	5379 20 2	
Scirocco	2008–	5379 20	
Sharan		5379 20 2	
T4	1994–	5379 20	

Vehicle Manufacturer / Model	Year of construction	Brake Art.-No.	Clutch Art.-No.
VOLKSWAGEN			
Taro		5379 47	5379 47
Touran	2005–	5379 20 2	
Up	2012–	5379 20	
ZETOR-SCHLEPPER			
All Vehicles		5379 39	

Brake Aspirators, Connection - Adapter



Article No.	Article Description	Design	QTY
5379 17	ADAPTER BEG NO. 17	ST	1
5379 20	ADAPTER BEG NO. 20	S	1
5379 20 1	ADAPTER BEG NO. 20 (W.PLUNGER)	S	1
5379 20 2	ADAPTER BEG NO.20-S	S	1
5379 22	ADAPTER BEG NO. 22	S	1
5379 31	ADAPTER BEG NO. 31	ST	1
5379 32	ADAPTER BEG NO. 32	S	1
5379 34	ADAPTER BEG NO. 34	S	1
5379 35	ADAPTER BEG NO. 35	ST	1
5379 37	ADAPTER BEG NO. 37	S	1
5379 38	ADAPTER BEG NO. 38-A	S	1
5379 41	ADAPTER BEG NO. 41	S	1
5379 43	ADAPTER BEG NO. 43	ST	1
5379 46	ADAPTER BEG NO. 46	F	1

Article No.	Article Description	Design	QTY
5379 47	ADAPTER BEG NO. 47	F	1
5379 49	ADAPTER BEG NO. 49	S	1
5379 50	ADAPTER BEG NO. 50 S	S	1
5379 55	ADAPTER BEG NO. 55-A	F	1
5379 61	ADAPTER BEG NO. 61-A	ST	1
5379 64	ADAPTER BEG NO. 64-A	S	1
5379 67	COUPL.ASPIRATION HOSE NO. 67	-	1
5379 77	ADAPTER BEG NO. 77 (B35)	ST	1
5379 80	ADAPTER BEG NO. 80	ST	1
5379 81	ADAPTER BEG NO. 81	ST	1
5379 89	ADAPTER BEG NO. 89	ST	1
5379 90	ADAPTER BEG NO. 90	ST	1
5379 97	ADAPTER BEG SET ACTROS M.HPS	S	1

S = screw adapter / St = connecting adapter / F = space adapter

Accessories for Brake Aspirators

Collecting bottle

- 2.0 l with silicone hose and fixation hook

Article No.	Article Description	QTY
5379 9	COLLECTING BOTTLE 2,0 LITER	1
5379 91	SILICONE HOSE 1,5M	1



Brake Fluid Tester Mini 2

- 5 LEDs provide a precise indication of the water content in the brake fluid and indicate at the 0 %, <1 %, <2 %, <3 % and >4 % intervals, whether the fluid needs to be changed
- Sturdy with protective cap for professional use
- Small and easy to use, always at hand
- For use in car, truck and motorbike workshops

Art.-No. 5439 13:

- LED lighting at the measuring point
- Suitable for brake fluids DOT 3, 4, 5.1
- The choice of brake fluid test can be set using the „Switch“ button

Function:

- **Green:** OK, no water found in the brake fluid
- **Green / yellow:** less than 1% water in the brake fluid
- **Green / yellow / yellow:** < 2% water in the brake fluid
- **Green / yellow / yellow / red:** < 3% water in the brake fluid brake fluid must be changed!
- **Green / yellow / yellow / red / red:** > 4% water in the fluid. Brake fluid must be replaced immediately! Safety risk!



5439 9



5439 13



Technical Data

Art.-No.:	5439 9	5439 13
Display:	optical, LED row 0, <1, 2, 3, >4 %	optical, LED row 0, <1, <2, <3, >4 %
Measurement range:	Brake fluid DOT4	Brake fluid DOT 3, 4, 5.1
Safety standard:	EN 61010	
power supply:	1.5V battery (1x Micro) (included in delivery)	1,5 V Battery (1x Micro) included in delivery)
Dimension LxB:	150 x 25 mm	160 x 33 mm
Weight:	40 g	60 g

Article No.	Article Description	QTY
5439 13	BRAKE FLUID TESTER MINI 3	1
5439 9	BRAKE FLUID TESTER MINI 2	1

Brake Fluid Tester EBT 03

- For measuring boiling temperature and the percentage water contents of brake fluids DOT 3, DOT 4, DOT 4 Plus und DOT 5.1
- Selection of various brake fluid manufacturers possible
- Two-line alphanumeric display
- Measuring range: from 130 to 260°C in 2 °C-steps (boiling temperature) from 0 to 10 % in 0.1 %-steps (water contents)
- Easy application
- Power supply by 9 V-battery Art.-No. 3880N 9 (not included in delivery)

Article No.	Article Description	QTY
5439 8	BRAKE FLUID TESTER EBT 03	1



Hydraulic Gearbox Lifter - Model 350/600

- Totmann control: The lowering process of the hydraulic stops as soon as the control lever is released
- Steplessly adjustable height by foot pedal



Technical Data

Art.-No.:	5433 350	5433 600
Model:	350	600
Weight:	350 kg	600 kg
Min. height	1.200 mm	1.200 mm
Max height:	2.000 mm	2.000 mm
Weight:	27 kg	29 kg
Chassis:		
Length:	420 mm	660 mm
Width:	400 mm	595 mm
Lift cylinder Ø:	25 mm	30 mm

Article No.	Article Description	QTY
5433 350	GEARBOX LIFTER 350KG	1
5433 600	GEARBOX LIFTER 600KG	1

Transmission table

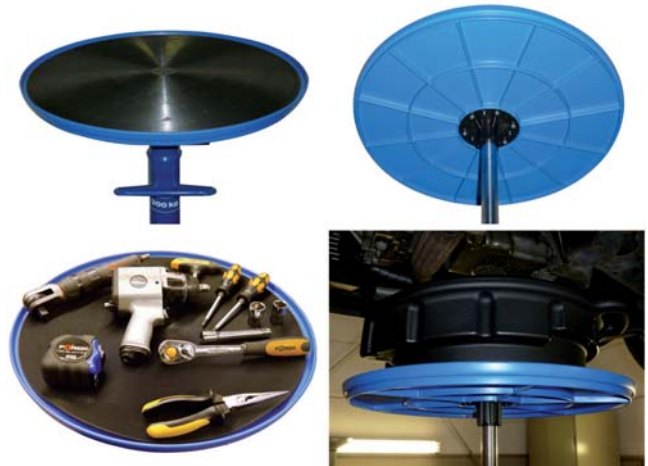
- the transmission jack can become a versatile, mobile and height-adjustable table very quickly and easily
- this creates a storage space for measuring devices, tools, drip pans etc.
- with rubber insert

Technical Data

Art.-No.	table-Ø	weight	input Ø	max. load
5433 25	540 mm	2.4 kg	25 mm	30 kg
5433 30	540 mm	2.4 kg	30 mm	30 kg

Article No.	Article Description	QTY
5433 25	TRANSM. TABLE D.540/25MM	1
5433 30	TRANSM. TABLE D.540/30MM	1

(table-Ø/input Ø)



Lifting Support

- Robust support for insinuate
- The lift support can be adjusted to the desired length with the quick release lever
- The support can be pulled out to the exact milimetre
- Zinc coated

Art. No. 5433 500 1:

- Mounted piece, e.g. to support the exhaust

Art. No. 5433 50 2:

- Foot with baseplate

Technical Data

Load capacity:	500 kg
Max. stroke height:	2.000 mm
Retracted height:	1.100 mm
Stroke distance:	900 mm
Square- standpipe:	40 x 40 mm
Square-piston rod:	30 x 30 mm

Article No.	Article Description	QTY
5433 500	LIFTER SUPP.500KG 1.10M-2.0M	1
5433 500 1	MOUNTED PIECE FOR LIFTER SUPP.	1
5433 500 2	FOOT FOR LIFTER SUPPORT	1



Hydraulic Press 15 t FH

- Very robust all-steel-frame-construction
- Automatic piston return
- Frame perforation
- Including press table and V-support
- With hand and foot pump
- Horizontally adjustable piston to 340 mm

Technical Data

Power:	15 t
Height (incl. Manometer):	1.880 mm
Width:	900 mm
Depth:	600 mm
Internal dimension frame:	550 mm
Internal dimension:	150 mm
Plunger stroke:	160 mm
Plunger Ø:	40 mm
Weight:	123 kg
Piston movable laterally:	340 mm

Article No.	Article Description	QTY
5434 1 15	HYDRAULIC PRESS 15T F+H	1
5434 1 150	PRESS MANDREL SET W.ADAPTER FH	1

Scope of Delivery Art.-No. 5434 1 150:

- 6x Press mandrels Ø 5, 10, 14, 18, 24, 29 mm
- 1x Press mandrel holder Ø 40 mm

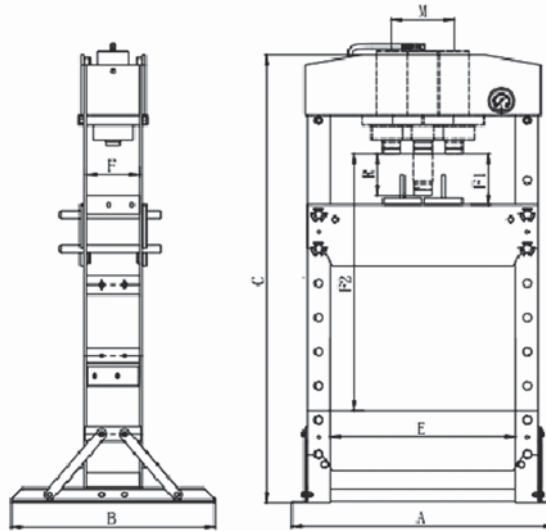


Workshop press 30t

- very sturdy solid steel construction
- automatic piston return
- frame perforation
- laterally movable pressure cylinder
- with press bed and V-insert
- includes 8-pce mandrel set (Ø 10,12, 16, 18, 20, 22, 25, 30 mm), quick-change clamp and supporting fixture
- press bed height-adjustable using winch
- hydraulic pump with 2 speeds, automatic valve switches between quick and heavy lifting

Technical Data

pressing force:	30,000 kg
A:	795 mm
B:	700 mm
C:	1772 mm
E:	535 mm
F:	140 mm
F1:	151 mm
F2:	1031 mm
R:	160 l
M:	200 mm
net weight:	166.7 kg



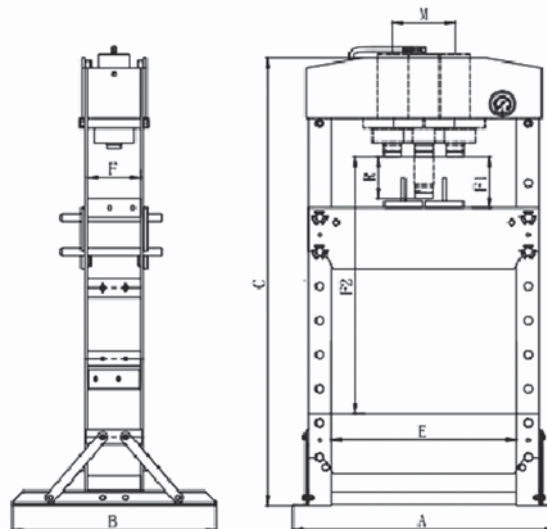
Article No.	Article Description	QTY
5434 1 30	WORKSHOP PRESS 30T FOOT+HAND	1

Workshop press 50 t

- very sturdy solid steel construction
- automatic piston return
- frame perforation
- with press bed and V insert
- includes 8-pce mandrel set (Ø 10,12, 16, 18, 20, 22, 25, 30 mm), quick-change clamp and supporting fixture
- press bed height-adjustable using winch
- hydraulic pump with 2 speeds, automatic valve switches between quick and heavy lifting

Technical Data

pressing force:	50,000 kg
A:	1030 mm
B:	800 mm
C:	1830 mm
E:	730 mm
F:	207 mm
F1:	68 mm
F2:	1048 mm
R:	200 l
M:	245 mm
net weight:	298 kg



Article No.	Article Description	QTY
5434 2 50	WORKSHOP PRESS 50 T FOOT+HAND	1

Hydraulic Crane 500 KG

- Space-saving hydraulic crane, due to its foldable underbody
- Broad gauge carriage to insure load stability when shunting on-load
- Load capacity up to 500 kg depends on the crane arm pullout
- Safety-load-hook with automatic lock
- Crane hydraulic with Totman control - more safety (Hydraulic Oil SAE 20)

Technical Data	
Load capacity:	150 - 500 Kg
Weight:	73 Kg
Opened carriage:	
Length:	1.520 mm
Width outside:	850 mm
Width inside:	720 mm
Height max.:	2.240 mm
Height min.:	320 mm
Position 1	500 kg
Position 2	400 kg
Position 3	250 kg
Position 4	150 kg

Article No.	Article Description	QTY
5434 500	HYDRAULIC CRANE 500KG	1



Hydraulic Crane 1000 KG

- Space-saving hydraulic crane, due to its foldable underbody
- Broad gauge carriage to insure load stability when shunting on-load
- Load capacity up to 1000 kg depends on the crane arm pullout
- Safety-load-hook with automatic lock
- Crane hydraulic with Totman control - more safety (Hydraulic Oil SAE 20)

Technical Data	
Load capacity:	300 - 1.000 Kg
Weight:	120 Kg
Opened carriage:	
Length:	1.580 mm
Front width outside:	1.010 mm
Front width inside:	840 mm
Height max.:	2.600 mm
Height min.:	320 mm
Position 1	1000 kg
Position 2	800 kg
Position 3	550 kg
Position 4	350 kg

Article No.	Article Description	QTY
5434 1000	HYDRAULIC CRANE 1000KG	1
5434 1000 1	SWIVEL CASTOR F.HYDR.CRANE	1
5434 1000 2	FIXED CASTOR F.HYDR.CRANE 587	1



Chain Lifter

- Made of stainless steel, with patented adaption mechanism for two independently adaptable chain lines with safety hooks
- Robust stainless steel chains with fine links according to DIN 5687-8 / 5691
- Exact adaption of the chain lines within seconds
- Max. carrying capacity: 700 kg

Technical Data

Chain length:	2 m
Chain link strength:	4 mm
Weight:	1.240 g
Load capacity up to 45° angle:	500 Kg
Load capacity between a 45° up to 60° angle:	700 Kg



Article No.	Article Description	QTY
5434 500 1	CHAIN LIFTER 2-LINES 500KG	1

Spring balancer

- for making it easier to work with electrical and pneumatic tools such as screwdrivers, drilling and grinding machines, crane control etc.
- ergonomic way of work and stress reduction on the body
- adjustable traction
- with additional safety suspension
- closed tow-part aluminium housing
- resistant and flexible stainless steel wire part
- guide bushings with low frictional resistance



Technical Data

Art.-No.	5433 9311	5433 9312	5433 9313
Spring range:	0.4 - 1.0 kg	1.0 - 2.0 kg	2.0 - 3.0 kg
Lift:	1600 mm	1600 mm	1600 mm
Weight:	0.600 kg	0.600 kg	0.700 kg

Article No.	Article Description	QTY
5433 9311	SPRING BALANCER 0.4-1.0KG 9311	1
5433 9312	SPRING BALANCER 1.0-2.0KG 9312	1
5433 9313	SPRING BALANCER 2.0-3.0KG 9313	1

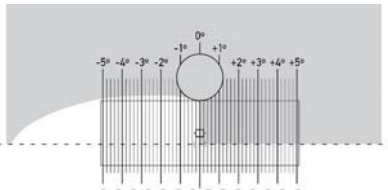
Headlight Adjusting Device SEG IV

- For accurate and fast adjustment of headlights
- For adjusting all kinds of headlights (Bi-Lux, Halogen, Xenon, LED and Matrix Beam LED)
- Type according to Road Traffic Licensing Ordinance (STVZO) Section 50 Directive for testing headlight adjusting devices
- Laser positioning aid for accurate and simple alignment of the headlight adjusting device in front of the headlight (9 V block battery Art.-No. 3880 9 **not included in delivery**)
- Broadband laser for accurate and convenient, parallel adjustment of the headlight adjusting device at the front of the vehicle
- Eccentric axle for horizontal alignment of the headlight adjusting device when the support surfaces for the car and the headlight adjusting device are not at the same level
- With digital lux meter for testing that both vehicle headlights have the same light strength
- Including covering hood
- Adjustable height from 250 mm to 1450 mm
- Weight: 38 kg

Article No.	Article Description	QTY
5439 43	HEADLAMP AIMING DEVICE SEG IV	1

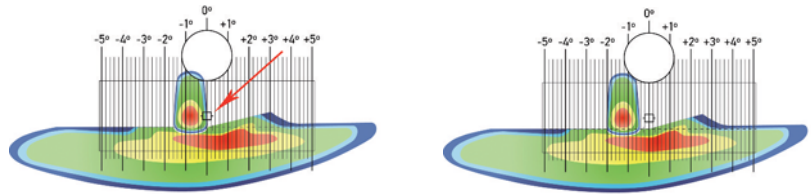


Now everything on one screen



Example Touareg with High-Beam Assistent

The bright area represents the light adjustment of the left headlight. The vertical light-darkness boundary (red arrow) must be sent to the zero line. The same is mirrored for the right headlight.



Example Audi A8 with Matrix Beam high-beam assistant

The vertical light-darkness boundary can be directly read from the scale. The left image shows the correct position on the zero-line. Deviations from this position (right figure) require the correction value (distance to the zero line) to be transmitted to the control device by the diagnostic tester (here shown on the example of the left headlight).

Rail set SEG IV

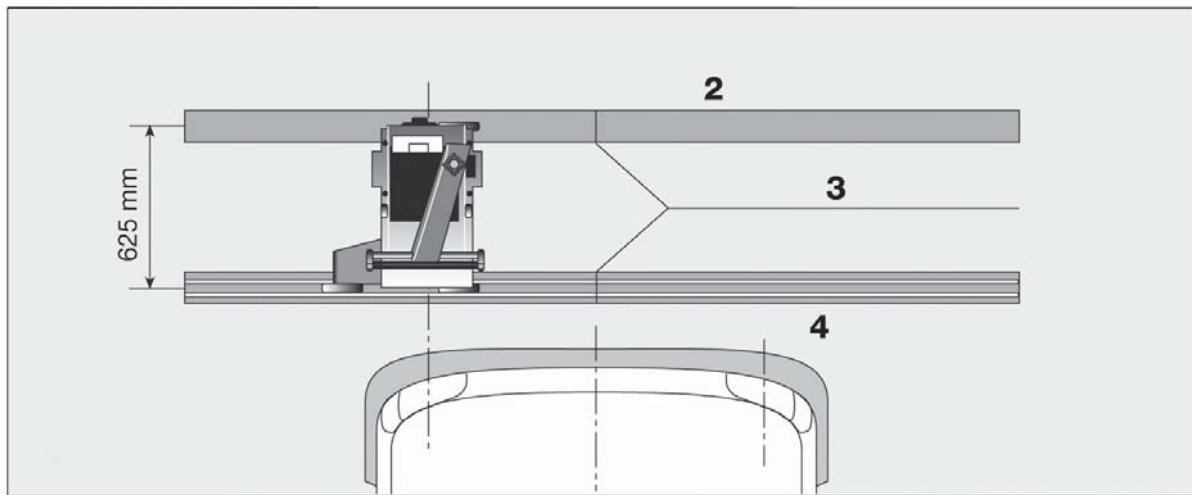
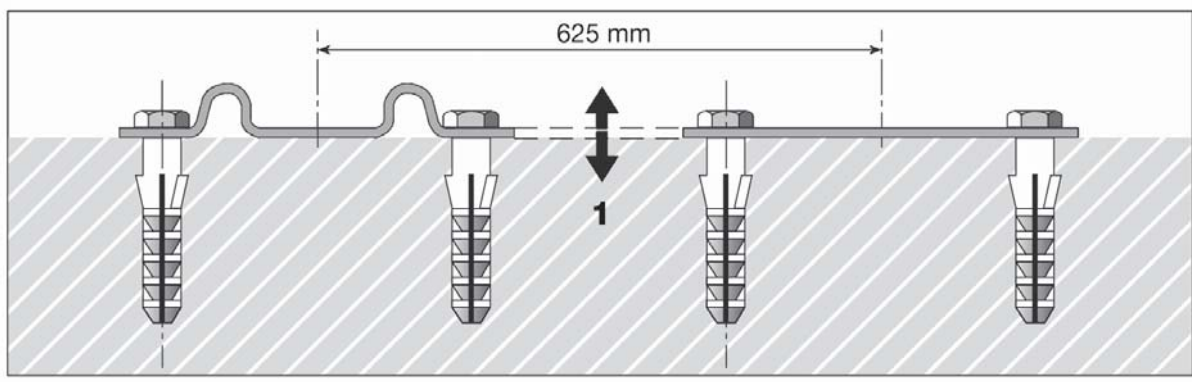
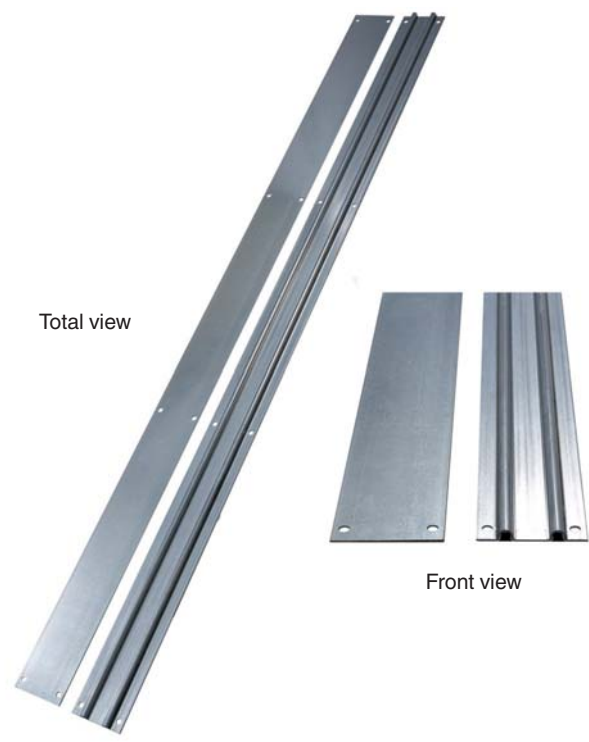
- Rail set for stationary installation for measuring the headlight with the SEG IV
- Standing area of the vehicle and rail level for the SEG must be parallel to each other in both extensions
- The difference in height of the two rails may not be more than 1 mm
- The rails must be supported over their entire length, so that they cannot bend
- The rails are laid in pairs at 90° to the longitudinal axis of the vehicle, lateral shifting on the abutting rails must be avoided
- The headlight adjustment area must comply with the testing regulations pursuant to Section 29 of the Road Traffic Regulations (StVO)

Technical Data	
Material thickness:	2 mm
Total length per rail:	1,500 mm
Total width per rail:	83 mm
Difference in height of the rails:	1 mm
Hole diameter:	8 mm
Drill hole depth:	min. 40 mm

Article No.	Article Description	QTY
5439 43 1	RAIL SET FOR SEG IV	1

Scope of delivery:

- 1x Spacer rail
- 1x Roller rail
- 1x Fixing material (anchors and screws 8 x 40)



1 Difference in height max. 1 mm 2 Shims 3 Rail joint without lateral displacement 4 Rolled section not more than 1 mm

Headlamp Aiming Device

- For precise and rapid adjustment of headlamp, tested by the **Association for Technical Inspection in Rheinland/Berlin-Brandenburg with prototype technical-release procedure - No. TÜV-F-LS 133**
- For aiming any kind of headlamps
- Appropriate for dipped beam, full beam and fog light
- The easy height adjustment of the housing and vizer provides for a fast adjustment of the device and vehicle
- Luxmeter for tests, whether both headlamps have the same luminous intensity

Technical Data			
Height mm	Width mm	Depth mm	Weight
1740	645	620	31 kg

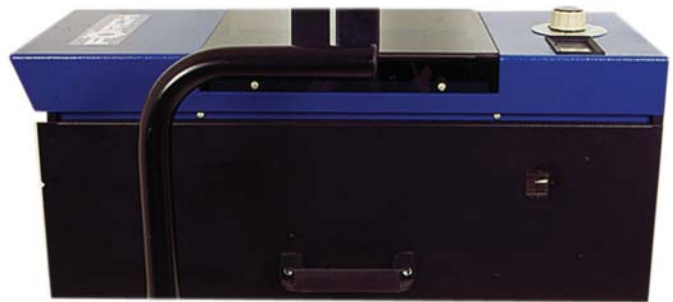
Article No.	Article Description	QTY
5439 42	HEADLAMP AIMING DEVICE II	1

Included in delivery:

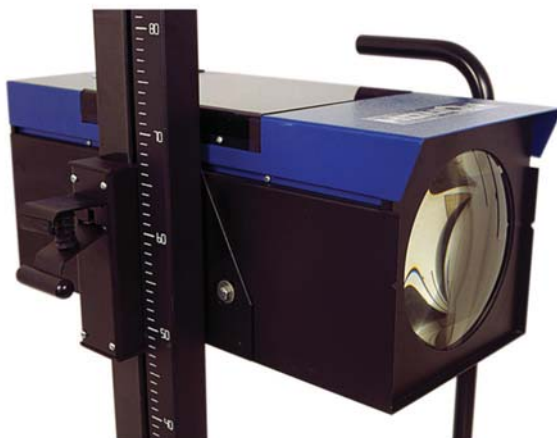
- Covering cap



Projection screen with lux meter



Hand wheel and pointer for adjusting passenger car or truck applications



Height adjustment of the optic housing



Adjustment aid to align the device with the vehicle

Refrigerant leak detector universal

- For detecting leaks of HFC, HCFC, CFC and HFO refrigerants
- R-134a, R1234yf, R-404a, R-407c, R-410a etc.
- Also suitable for forming gas (95% N2/5% H2)
- Visual and audible tick rate indicators
- Adjustable sensitivity
- Self-adjusting (zero) after switch-on
- **Caution: Please never test the device in the full gas cylinder current; this will lead to immediate failure of the sensor.**

Technical Data

Sensitivity:	3 g leak rate/year with R134a, R1234yf and forming gas
Signal method:	Warning signal and 3-colour LED display
Sensor service life:	approx. 100 h
Sensor warm-up time:	approx. 60 sec
Power supply:	4x 1.5 V AA alkaline batteries
Battery life:	approx. 7 h with normal use
Sensor length:	40 cm flexible
Dimensions (L x W x H):	173 x 66 x 56 mm
Weight:	approx. 400 g
Automatic shut-off:	after 10 min
Working temperature:	0-40 °C

Article No.	Article Description	QTY
5380 134 1234	REFRIG. LEAK DETEC. UNIVERSAL	1
5380 134 1234 1	SENSOR F. REFR. LEA. DETEC. UNI	1
5380 134 1234 2	PROT. C.F. REFR. LEA. DETEC. UNI	1

Scope of delivery of Art.-No. 5380 134 1234:

- 1x leak detector with sensor and protective cap
- 4x 1.5 V AA batteries
- 1x testing agent
- 1x carry case



UV-Lamp 12 Volt / 50 Watt

Intensive, adjustable 50 Watt UV lamp for leak detection in air conditioning, water cooler, engine oil and power steering systems.

Application:

Add contrast agent to circulation. After the contrast agent has mixed itself in the circulation, illuminate using the UV lamp and locate leaky points.

Features:

- Lightweight and handy, robust design
- Locates smallest leakages
- Incl. UV goggles
- Service life of 50 W bulb approx. 3.000 hours
- Power supply: 12 Volt
- 5 m cable with clamps
- In plastic case

Article No.	Article Description	QTY
5380 16295	UV-LAMP 12V+UV-PROT.GOGGLES	1
5380 16295 1	REPL.BULB FOR UV-LAMP	1
5380 16257	UV-REINFORCEMENT AND GOGGLES	1



Contrast Agent

Functions:

- add contrast agent to the circuit to be tested
- allow the system to run in order to ensure a complete mixture of the dye
- test all suspicious components for leakages with the UV lamp
- leaks leave a fluorescent spot
- leave the dye in the system for future controls
- appropriate for freezing agents R134a and R12

Art. No. 5380 16276:

- 12x 7.39 ml bottles
- to be used with injection gun 5380 16256
- sufficient for approx. 12 applications

Art. No. 5380 16356:

- 4x 30 ml cartridges
- to be used with injection gun Item No. 5380 16355
- 1 cartridge sufficient for 5 applications

Art. No. 6710 0830:

- 1x 240 ml dosage bottle
- sufficient for use at approx. 32 cars or 16 trucks
- add to the circuit via the air conditioning service device
- Dosage: 1/4 ounce (7.5 ml) for systems with contents up to 1.8 kg of cooling agent and another 1/4 ounce for every commenced 1.8 kg



5380 16276



5380 16356



6710 0830

Article No.	Article Description	QTY
5380 16276	PK(12)RA16276 CON.AG.W.A7.39ML	1
5380 16356	PK(4)RA16356 CONTR.AGENT A30ML	1
6710 0830	240ML BOTTLE UV-AC CON.AG.134A	1

PAG contrast agent R1234yf

- For PAG-based vehicle air-conditioning system with R1234yf
- Ideal for preventive application
- Add contrast agent to the air-conditioning circuit

Dosing:

- 7.5 ml per 1.5 kg of coolant. Allow the system to operate for around 30 minutes to ensure complete distribution in the system. Leave the contrast agent in the system for any possible future leaks and use an UV lamp to check for leaks as needed.

Article No.	Article Description	QTY
6710 0995	PAG CONTR.AGENT R1234YF 250ML	e 15



POE - Hybrid air conditioning contrast agent

UV leak detection specially for hybrid air conditioning systems that are filled with POE oil as standard

- good viscosity - temperature ratio
- high durability
- reliable corrosion protection
- neutral towards seals
- for 8 car replenishments
- not for cooling mediums R1234yf
- **please observe the compressor manufacturer's guidelines regarding viscosity**

Article No.	Article Description	QTY
5380 113	POE CONTR.AGENT 60ML	1



POE contrast agent - Hybrid R1234yf

- For POE-based electric and hybrid air-conditioning systems with R1234yf
- Ideal for preventive application. Dosing for car air-conditioning systems:
- Add 7.5 ml per 1.5 kg of coolant. Allow the system to operate for a few minutes to ensure complete distribution in the system.
- Leave the contrast agent in the system for any possible future leaks and use a UV lamp to check for leaks as needed.
- Compatible with all coolants including CFC, HFC, and HCFC
- Visible using all UV lamps
- Ideal as a precaution

Article No.	Article Description	QTY
6710 0998	POE CONTR.AGENT R1234YF 250ML	e 15



Contrast Agent Cleaner R571

- Removes reliably all contrast agent residuals from parts and surfaces

Article No.	Article Description	QTY
6710 0831	FL960ML CA CLEAN.RA16263 R571	1



Compressor Oil

- for car AC-units which are operated with R134a as refrigerant
- compressors need oil for greasing bearings and cylinder surfaces
- in order to provide sufficient greasing there has to be oil with the right viscosity
- the right viscosity strongly depends on temperature
- therefore the right viscosity class has to be chosen in accordance with the application area

Article No.	Article Description	QTY
5380 46	PAG46 COMPR.OIL LOW-VISC.250ML	e 12
5380 100	PAG100 COMPR.OIL HV 250ML	e 12



5380 46

5380 100

Universal PAG Compressor Oil

- Universal PAG compressor oil for R134a vehicle air conditioning units
- Can be universally used for R134a coolant
- Time saving (no oil bottle replacement required)
- Can be mixed with other PAG oils
- Specially for filling air conditioning units that are not completely empty

Article No.	Article Description	QTY
6710 1000	BT(1L)PAG-UNIV.COMPRESSOR OIL	e 12



PAG compressor oil R1234yf

- For PAG-based air-conditioning systems with R1234yf
- Synthetic polyalkaline glycol (PAG)
- Special oil for automobiles with R1234yf air-conditioning compressors
- Do not mix with other oils
- Outstanding lubrication, cooling and sealing effect

Article No.	Article Description	QTY
6710 0996	PAG46 COM.OIL NV R1234YF 250ML	e 24
6710 0997	PAG100 CO.OIL HV R1234YF 250ML	e 24



6710 0996

6710 0997

POE hybrid compressor oil

hybrid compressor oil is specially designed for hybrid air conditioning systems without electrical conductivity that filled with POE oil as standard,

- long product life
- good viscosity - temperature ratio
- reliable corrosion protection
- reduced water binding
- neutral towards seals
- not for cooling mediums R1234yf
- viscosity POE 100
- **please observe the compressor manufacturer's guidelines regarding viscosity**

Article No.	Article Description	QTY
5380 111	POE HYBR.COMPR. OIL 60ML	1
5380 112	POE HYBR.COMPR. OIL 240ML	1



5380 111

5380 112

POE hybrid compressor oil R1234yf

- For POE-based air-conditioning systems with R1234yf for hybrid and electric vehicles
- Hybrid compressor oil without electrical conductivity
- Particularly distinguished by good viscosity-temperature performance, high ageing resistance, and reliable corrosion protection.

Article No.	Article Description	QTY
6710 0999	POE COMP.OIL R1234YF 250ML	e 24



Vacuum Pump Oil

- For AC System - Service Units
- To maintain maximum viscosity at high running temperatures and improves cold start performance

Article No.	Article Description	QTY
5380 5604052	BOTTLE(0.6L)VACUUM PUMP OIL	1
5380 5604053	CONTAINER(5L)VACUUM PUMP OIL	1



5380 5604052



5380 5604053

Hybrid air conditioning starter set

- for hybrid vehicles or cars with POE compressor oils and POE UV additives
- safe replenishment using screw driven plunger
- capacity of an injector either 15 ml or 7.5 ml (1 or 2 vehicles)
- no mixing of other compressor oils or UV additives
- 1 plunger injector for each UV additive and compressor oil
- separate storage and air-tight storage of the rest
- no mixing of oils and UV agents
- oil / UV agents not for cooling mediums R1234yf
- **UV additive: Please observe the approval of the manufacturer of the compressor**
- **viscosity POE oil: 100**
- **Please observe the manufacturer's guidelines regarding viscosity of the compressor**

Article No.	Article Description	QTY
5380 110	HYBRID AIR COND. STARTER SET	1

Contents:

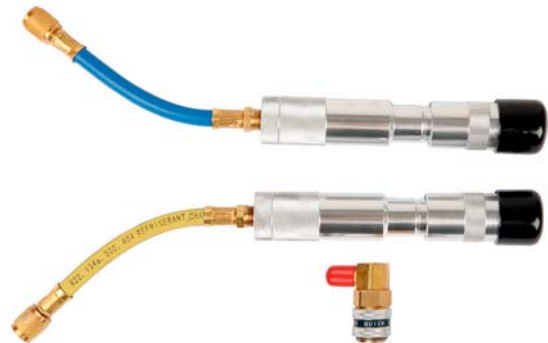
- 1x screw driven plunger injector art. no. 5380 114
- 1 plunger injector art. no. 5380 115
- 2x quick coupling ND art. no. 5380 116
- 1 x hybrid UV-medium 60 ml art. no. 5380 113
- 4 x hybrid compressor oil, 60 ml art. no. 5380 111



Hybrid starter set accessories

- Screw driven plunger can also be used to e.g. insert art. no. 6710 0830 or 5380 16276 or normal PAG oil in to the air conditioning system. Care must be taken that no POE oil / UV agents are inserted in to the same injector in order to prevent damaging **mixtures recommendation for POE oil / UV additive:**
- only POE hybrid UV agents in the screw plunger injector with the blue hose and only POE hybrid compressor oil in the screw injector with the yellow hose. by doing so, inadvertent mixing / mistakes are prevented.

Article No.	Article Description	QTY
5380 114	SCR. H. INJECTOR AIR-COND.BLUE	1
5380 115	SCR. H. INJECTOR AIR-COND.YEL.	1
5380 116	SERVICE COUP. 90° ND 1/4" SAE	1



Air Conditioning Sealing Agent ‘Super Seal Pro’

- Permanent sealing of leakages in condensers, vaporizers, accumulators, compressors, sealings, O-rings, metals and plastics
- Installed within a few minutes
- Suitable for all leakages where the freezing agent in a car can only be used for a max. of one month
- Can also tighten multiple leakages
- Circulates after sealing due to A/C-system for further leakages
- Ideal for precaution



Article No.	Article Description	QTY
5380 940	SEALING AGENT "SUPER SEAL PRO"	1

Delivery:

- 1x Sealant
- 1x Filling hose

Air Conditioning Sealing Agent

- Sealing agent without polymers for vehicle air conditioning units
- Sealing to prevent leakages on metal and rubber parts of air conditioning units
- Compatible with all coolants including CFC, HFC, and HCFC
- Visible using all UV lamps
- Reduces compressor friction, vibrations, and noise
- Also for preventative usage
- Does not react with oxygen or moisture
- Does not block up the compressor or service station
- Safe for the components of air conditioning units



Article No.	Article Description	QTY
5380 945	AIR COND. SEALING AGENT 30ML	1
5380 945 1	ADAPTER F.AIRCOND. SEAL.AG.30ML	1

Associated adapter: Art.-No. 5380 945 1
(not included in delivery scope of Art.-No. 5680 945)

5380 945

5380 945 1

Thermometer, Digital

Function:

- Temperature check is a main element of the maintenance of the AC-system. On the basis of the measured temperature you can evaluate the efficiency of the system.
- Fast and precise temperature measurement

Features:

- Switchable from Fahrenheit to Celsius
- Easy to read display
- Precise display after only 5 seconds
- Holder for ball pen
- Flexible head (180°)



Technical Data	
Measuring range C:	- 50°C to + 150° C
Measuring range F:	- 58°F to + 302° F
Resolution:	0.1°C
Accuracy:	1.0°C
Power supply:	solar cell

Article No.	Article Description	QTY
5380 43241	DIGITAL THERMOMETER	1

Air Conditioning - Cooling Agent R134a

- Tetrafluoroethylene
- Cooling agent for the use in vehicle AC systems- does not effect metals
- Can be used as replacement for cooling agent R12 due to excellent performance characteristics- R134a is a environmentally friendly agent that does not harm the ozone layer- R134a is colourless, odourless and tasteless substance, non-toxic
- Non-combustible and non-explosive
- Qualification approved, re-filling, stable returnable bottle with 12 kg-suitable for all mobile or stationary air conditioning - service devices

Attention:

- In the vehicle air conditioning area R134a needs the use of polyalcy-lene-glycol-lubricant (PAG) in order to ensure an ideal oil re-circulation to the compressor
- Do not mix with mineral oil or alkyl-benzene-lubricant
- R134a must not mixed with cooling agent FCKW R12

Article No.	Article Description	QTY
5380 2134	PK(2)AC-COOL.AGENT R134A 12KG	1
5380 2135	PK(2)R134A 12KG RE-FILLER	1



R 1234yf air-conditioning refrigerant

- Tetrafluorpropene
- According to EU MAC guidelines, the air-conditioning of newer car models must be equipped with a refrigerant with a global warming potential (GWP value) of < 150 as of 1.01.2011
- R 1234yf is a flammable, colourless gas with a slight odour
- R 1234yf is not ozone-depleting
- Low greenhouse gas potential of 4.4
- Average length of time remaining in atmosphere: 12 days
- R1234yf must not be mixed with other refrigerants

Article No.	Article Description	QTY
5380 1234	BO(5KG)REFRIGERANT R1234YF	1
5380 1234 0	BO(5KG)R1234YF REFILLING	1



R 1234yf bottle attachment adaptor

- Bottle adapter for low-pressure side of quick-coupling Adapter

Article No.	Article Description	QTY
5380 12	BOTTLE ADAPTER R1234YF	1



UV Contrast Agent for A/C Systems R572

- Highly effective special cleaner for the air conditioning system
- Loosens and eliminates dirt and deposits e.g. metal chips, corrosion, rubber parts and moisture in the entire system
- UV Contrast Agent R572 gets in contact with the oil and refrigerant. This combination enables the removal of contaminants in the whole system.
- Due to the rinsing process all contaminants can be removed completely
- Highly effective lubricating components protect the aggregates during the cleaning process
- **Only use with the Air Conditioner Rinse Set Art. No. 5380 700 and 5380 701**



Article No.	Article Description	QTY
6710 0835	UV CONTR.AGENT CLEAN.R572 5L	1

AC Disinfectant Spray R569

- Ready-to-use disinfectant liquid
- Removes bacteria and is fungicidal, prevents re-formation of bacterial for a long time
- Ideal for use in air-conditioning and heating systems which cultivate a multitude of germs; that are spread by fans in vehicles, offices etc.
- Usable in sanitary facilities e.g. wash-basins, fittings, tiles, office telephones, keyboards and desks etc.
- Non-flammable
- **Technical data of air conditioning spray gun see catalogue page in chapter 17**



Article No.	Article Description
6710 0840	AC DISINFECTANT SPR.R569 250ML
6710 0841	ADAP.W.60CM TUBE+ATOM.NOZZ
6710 0845	DISINFECTANT SPRAY 5L R569
6710 0847	SPRAY GUN

Suitable spout :

- 5 l: Art. No. 6000 0023

Air conditioning and vehicle interior deodorant

- Air conditioning and vehicles interiors deodorant against unpleasant smells
- Also removes odours caused by mould
- Pleasant citrus smell
- 100 ml sufficient for:
Small cars, sports cars, mini-vans etc.



Article No.	Article Description
6710 0896	DEODORANT AIR COND./VEH.100ML

AirFresh PURE R553

- For disinfecting air conditioning systems in vehicles
 - Use biocidal products carefully. Always read the label and the product information before use.



Article No.	Article Description
6710 0855	AIRFRESH PURE R553 100ML

Your Advantage / Benefit

- Reliably and effectively combats unpleasant odours in the ventilation ducts of air conditioning systems and vehicle interiors, thanks to an innovative action formula
- Prevents renewed build-up of unpleasant odours using antibacterial silver ions
- Allergen-free citrus fragrance for a freshly scented result
- Easy application by means of a practical one-shot spray head
- The enclosed folding carton provides optimal positioning

Application

- Switch off the air conditioning and set the ventilation to recirculation mode with the highest fan speed and a low temperature level
- Shake the aerosol can well before use
- For targeted cleaning of the interior, select a central position
- For targeted cleaning of the air conditioning ventilation ducts in the passenger's footwell, position in the direction of the intake
- After application, thoroughly air the vehicle
- During the application, do not remain in the vehicle, keep doors and windows closed, electrical appliances off, avoid ignition sources



AirFresh SCENT R554

- For fast, easy and effective cleaning of vehicle air conditioning systems



Article No.	Article Description
6710 0856	AIRFRESH SCENT R554 100ML

Your Advantage / Benefit

- Reliably and effectively combats unpleasant odours in the ventilation ducts of air conditioning systems and vehicle interiors, thanks to an innovative action formula
- Allergen-free citrus fragrance for a freshly scented result
- Easy application by means of a practical one-shot spray head
- The enclosed folding carton provides optimal positioning

Application

- Switch off the air conditioning and set the ventilation to recirculation mode with the highest fan speed and a low temperature level
- Shake the aerosol can well before use
- For targeted cleaning of the interior, select a central position
- For targeted cleaning of the air conditioning ventilation ducts in the passenger's footwell, position in the direction of the intake
- After application, thoroughly air the vehicle
- During the application, do not remain in the vehicle, keep doors and windows closed, electrical appliances off, avoid ignition sources

Evaporator cleaning foam 100 ml R531

- Cleaning foam for vehicle air conditioning unit evaporators
- Leaves behind a fresh, pleasant fragrance

Art.-No. 6710 0897:

- 100 ml cleaning foam is sufficient for: Small cars, sports cars, mini-vans, etc.

Art.-No. 6710 0898:

- 200 ml cleaning foam is sufficient for: Vans, SUVs, Transporters, etc.

Application:

- Turn off the engine and air conditioning
- Remove interior air filter
- Spray half the contents of the container through the hose and onto the evaporator as far as possible
- Spray the other half of the container's contents into the air ducts
- Wait about 20 minutes, until the product has fully reacted

Article No.	Article Description
6710 0897	EVAPORATOR CLEAN.FOAM100MLR531
6710 0898	EVAPORATOR CLENA.FOAM200MLR531



6710 0897



6710 0898

Air Conditioner Cleaning R523 Set

Art.-No. 6710 0896:

- Air conditioning and vehicles interior deodorant against unpleasant smells
- Also removes odours caused by mould
- Pleasant citrus odour
- 100 ml interior deodorant is sufficient for: small cars, sports cars, mini-vans etc.

Art.-No. 6710 0897:

- Cleaning foam for vehicles air conditioning evaporator
- 100 ml cleaning foam is sufficient for: small cars, sports cars, mini-vans etc.

Article No.	Article Description
6710 0899	SET(2)AIRCOND.CLEANER R523

Scope of delivery:

- 1x Art.-No. 6710 0896: Air conditioning and car interior odour killer 100 ml
- 1x Art.-No. 6710 0897: 100 ml evaporator cleaning foam R531 100 ml R531
- 1x Vaporizer hose



6710 0896



6710 0897

Aircomatic® III

AC System Disinfectant

- An ultrasonic cell atomises the cleaning fluid (100ml) in very fine mist
- The mist removes bacteria and microorganisms which removes the musty odour of the AC system
- Full treatment within max. 15 minutes, device stops automatically

Treatment of bad odours in the vehicle interior:

- The ozone generator produces ozone during a preset time (15 or 30 minutes)
- Ozone is an unstable form of oxygen and easily combines itself with other odour molecules, hereby musty odours are being neutralised
- The ozone generator can only be started if 60 ml of Air Purifier is in the device - the product speeds up to reduction of ozones at the end of treatment

Technical Data

Voltage source:	12 V
Frequency of ultrasonic cell:	1.7 MHz
Size (LxWxH):	25 x 15 x 20 cm
Dimension with nozzles (LxWxH):	34 x 15 x 25 cm
Weight:	2.4 kg

Article No.	Article Description	QTY
6710 0836	AIRCOMATIC MODEL 3	1
6710 0836 2	ULTRASONIC CELL AIRCOMATIC 3	1



Airco Clean® R567

- Ready-for-use cleaning fluid for ultrasonic cleaning of air conditioning systems
- Water based, non-toxic, non-irritant

Article No.	Article Description
6710 0844	AIRCO CLEAN R567 100ML



Aircofresh R566

- Ready-for-use cleaning fluid for ultrasonic cleaning of air conditioning systems
- With lemon odour
- Effectively absorbs pollen, smell of smoke and animals, sweat and musty smell
- Prevents allergic reactions
- Non-toxic, non-irritant

Article No.	Article Description
6710 0846	AIRCOFRESH R566



Air Purifier® R574

- Ready-for-use cleaning fluid for the removal of bad smell in car interiors via ultrasonic cleaning
- Water-based, non-toxic, non-irritant

Article No.	Article Description
6710 0834	AIR PURIFIER R574 60ML



Ultrasonic misting device set **ECO**

- An ultrasonic cell atomises the cleaning fluid (250 ml) into a very fine mist
- The mist removes unpleasant smells and ensures a pleasant fragrance over a long period
- Complete treatment takes at least 11 minutes (20 °C), the device stops automatically
- Adjustable misting output, max. approx. 390 ml/hr
- Only use with the article: R584 cleaning fluid
- The device is designed to perform 48 applications

Technical Data

Voltage source:	220 V – 50/60 HZ
Dimensions (L x W x H):	17 x 11 x 17 cm
Operating temperature:	0 °C – 60 °C
Misting output:	max. 390 ml/hr
Weight:	0.7 kg



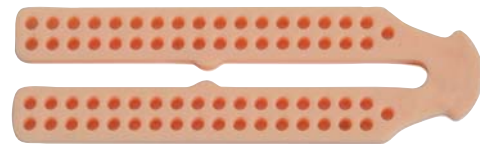
Article No.	Article Description	QTY
6710 0861	SET ULTRAS.MIST.DEV.48+1 ECO	1

Scope of delivery:

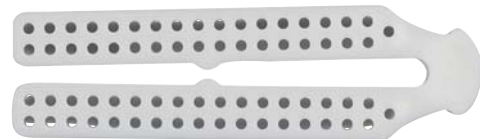
- 1x Ultrasonic misting device
- 48x Cleaning fluid

Air freshener scent clips

- scent clips made from polymer with various scented oils
- ideal for a fresh scent that last for several weeks after the air conditioning system is disinfected
- very effective air freshener
- universally suitable for all vehicles
- easy to use, hardly any visible application in the ventilation slot(s)
- supplied in 4 different scents: vanilla, citrus, apple and summer breeze
- the fragrance can be changed by using different scent clips at the same time
- vision is not affected / distracted by hanging scented products
- durability due to re closable plastic bags



5380 302



5380 303

Article No.	Article Description	QTY
5380 302	BAG(12)CITRUS CLIPS	1
5380 303	BAG(12)VANILLA CLIPS	1

Air Conditioning Performance Additive 30 ml

- Additive to improve the performance of older air conditioning units
- Improves thermal transfer by up to 73%
- Increases cooling performance of older units by up to 20 – 30 %
- Delivers colder air faster
- Increases the compressor oil's lubricating quality by up to 54 %
- Reduces compressor friction, vibrations, and noise
- Extends the operating life of the unit
- Reduces yearly maintenance costs
- Saves up to 20 % on energy
- Reduces CO2 emissions

Application:

- Turn on the air conditioning unit and set it for maximum cooling
- Mount the adapter on the injector and press all air out of the adapter
- Connect the adapter to the air conditioning unit's low pressure connection and fill the air conditioning unit with the performance additive
- Remove the adapter from the air conditioning unit
- Allow the air conditioning unit to run in this state for about 30 minutes
- An injector with 30 ml of air conditioning performance additive is needed for one air conditioning unit

Article No.	Article Description	QTY
6710 0895	PCK(2)AIR COND.PERF.ADDIT.30ML	1

- Appropriate adapter: Art.-No. 5380 945 1 (not included in delivery)



Adapter f.air cond.seal./performance additive

- Adapter for inserting Art.-No. 6710 0895 and Art.-No. 5380 945
- In the vehicle air conditioner on the low pressure side

Article No.	Article Description	QTY
5380 945 1	ADAPTER F.AIRCOND.SEAL.AG.30ML	1



Adapters R134a

Art. No. 5380 6:

- Adapter 1/2" PT (for direct connection to cooling agent bottle) by 1/4" SAE AG (external thread)

Art. No. 5380 9:

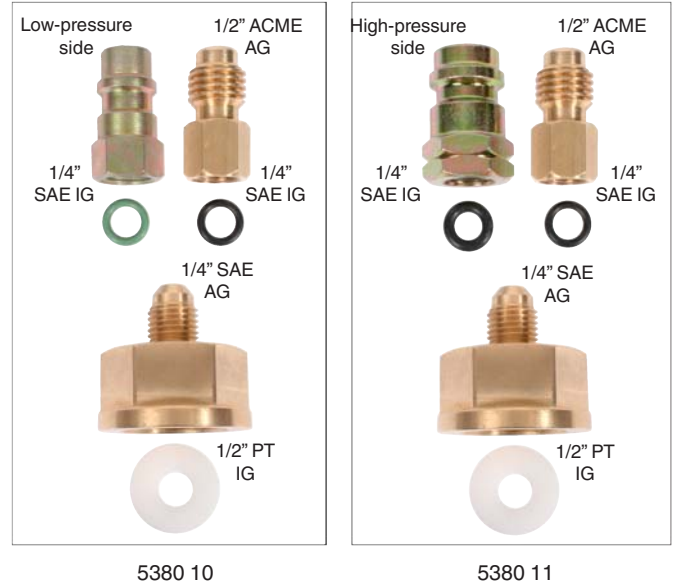
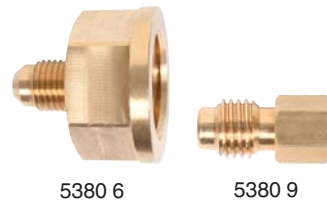
- Adapter 1/4" SAE IG (internal thread) by 1/2" ACME AG (external thread)

Art. No. 5380 10:

- Universal adapter set for connecting the AC system service device with the low pressure side to the cooling agent bottle

Art. No. 5380 11:

- Universal adapter set for connecting the AC system device with the high pressure side to the cooling agent bottle



Article No.	Article Description	QTY
5380 6	ADAPTER IG 1/2"PT -AG 1/4"SAE	1
5380 9	ADAPTER IG1/4"SAE- AG1/2"ACME	1
5380 10	ADAPT.SET 3-PART LOW PRESSURE	1
5380 11	ADAP.SET 3-PART HIGH-PRESSURE	1

Ratchet for Air Conditioners

- 3/16", 1/4", 5/16", 3/8"
- Right/left adjustable
- For opening/closing of spindle valves at air conditioners
- Suitable for vintage cars, buses, agricultural, forestry and municipal vehicles

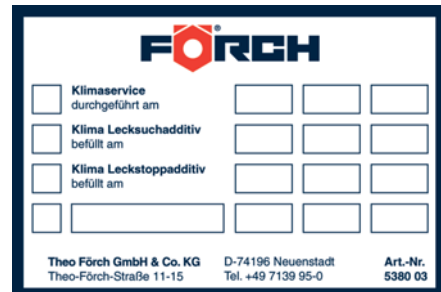


Article No.	Article Description	QTY
5380 5	RATCHET RIGHT-LEFT ADJUSTABLE	1

Air Conditioning - Adhesive Label

- 25x adhesive labels 'AC System - Service Notes'

Article No.	Article Description	QTY
5380 03	BAG(25)AC SYST.ADHESIVE LABELS	1



Release Tool Set

- Demounting tools for conduit couplings which are difficult to open
- Suitable for almost all couplings of European, Asian and American vehicles
- Also suitable for quick connectors at AC systems, fuel lines, air and oil lines
- 22-piece, in plastic case



Article No.	Article Description	QTY
5380 7	RELEASE TOOL SET	1

Releasing Tool - Accessories



5380 7 100



5380 7 106



5380 7 111



5380 7 113



5380 7 101



5380 7 107



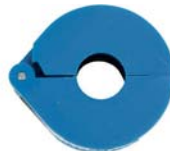
5380 7 112



5380 7 121



5380 7 102



5380 7 108



5380 7 114



5380 7 118



5380 7 103



5380 7 109



5380 7 115



5380 7 119



5380 7 104



5380 7 110



5380 7 116



5380 7 120



5380 7 105

Article No.	Article Description	QTY
5380 7 100	RELEASE 5/16" YELLOW	1
5380 7 101	RELEASE 3/8" BLUE	1
5380 7 102	RELEASE 1/2" GOLD	1
5380 7 103	RELEASE 5/8" GREEN	1
5380 7 104	RELEASE 3/4" BLACK	1
5380 7 105	RELEASE 7/8" RED	1
5380 7 106	RELEASING TOOL 5/16+3/8	1
5380 7 107	SPRING-LOCK 5/8" BLACK	1
5380 7 108	SPRING-LOCK 1/2" BLUE	1
5380 7 109	SPRING-LOCK 3/8" RED	1
5380 7 110	SPRING-LOCK 3/4" BEIGE	1

Article No.	Article Description	QTY
5380 7 111	RELEASING TOOL D:30MM	1
5380 7 112	RELEASING TOOL L:45MM	1
5380 7 113	RELEASING TOOL L:120MM	1
5380 7 114	RELEASE 1/4" WHITE PLASTIC	1
5380 7 115	RELEASE 5/16" WHITE PLASTIC	1
5380 7 116	RELEASE 3/8" WHITE PLASTIC	1
5380 7 117	RELEASE 1/2" WHITE PLASTIC	1
5380 7 118	RELEASE 5/8" WHITE PLASTIC	1
5380 7 119	RELEASE 3/4" WHITE PLASTIC	1
5380 7 120	RELEASE 7/8" WHITE PLASTIC	1
5380 7 121	PK(6)RUBBER BANDS	1

O-Ring-Case for Automobile AC System, 360-Piece

- O-rings, resistant to cooling agents
- Contains the most common o-rings for the repair of AC systems
- Colour: green

Article No.	Article Description	QTY
5380 161000	RA161000 O-RING-CASE 360 PC.	1

(Inside-dia. x ring thickness)

Contents:

- 15x Art. No. 5380 161010: 4.47x1.78 mm
- 15x Art. No. 5380 161011: 6.07x1.78 mm
- 15x Art. No. 5380 161012: 6.40x1.78 mm
- 15x Art. No. 5380 161013: 6.70x1.90 mm
- 15x Art. No. 5380 161014: 6.80x1.80 mm
- 15x Art. No. 5380 161015: 6.75x1.78 mm
- 15x Art. No. 5380 161016: 7.66x1.78 mm
- 15x Art. No. 5380 161017: 8.00x1.78 mm
- 15x Art. No. 5380 161018: 9.00x1.78 mm
- 15x Art. No. 5380 161019: 9.25x2.39 mm
- 15x Art. No. 5380 161020: 9.50x2.50 mm
- 15x Art. No. 5380 161021: 10.6x2.40 mm
- 15x Art. No. 5380 161022: 10.82x1.78 mm
- 15x Art. No. 5380 161023: 11.20x2.62 mm
- 15x Art. No. 5380 161024: 13.30x2.40 mm
- 15x Art. No. 5380 161025: 14.00x1.78 mm
- 15x Art. No. 5380 161026: 14.00x2.50 mm
- 15x Art. No. 5380 161027: 15.54x2.62 mm
- 15x Art. No. 5380 161028: 16.50x2.00 mm
- 15x Art. No. 5380 161029: 20.22x3.53 mm
- 15x Art. No. 5380 161030: 17.17x1.78 mm
- 15x Art. No. 5380 161031: 17.00x1.57 mm
- 15x Art. No. 5380 161032: 18.72x2.62 mm
- 15x Art. No. 5380 161033: 21.89x2.62 mm



Valve protection cap set air conditioning

- 60-piece cap set with sealing ring for vehicle air conditioning systems of most manufacturers, incl. Japanese and American vehicles
- Also for cooling systems of transport refrigeration vehicles with refrigerant R12, R134a and R404

Article No.	Article Description	QTY
5380 8	VALVE PROT.CAP SET AIR COND.	1

Contains 5 each of:

- Art.-No. 5380 8 1: Low pressure valve protection cap, size 1 (Citroen II, Renault II, Peugeot II)
- Art.-No. 580 8 1 1: High pressure valve protection cap, size 1 (Citroen II, Renault II, Peugeot II)
- Art.-No. 5380 8 2: Low pressure valve protection cap, size 2 (VW, Audi, Porsche, Renault, Mercedes-Benz, Citroen, Peugeot, Fiat, Lancia, BMW, Alfa Romeo, Maserati, Ferrari, Opel)
- Art.-No. 5380 8 2 1: High pressure valve protection cap, size 2 (VW, Audi, Porsche, Renault, Mercedes-Benz, Citroen, Peugeot, Fiat, Lancia, BMW, Alfa Romeo, Maserati, Ferrari, Opel)
- Art.-No. 5380 8 3: Low pressure valve protection cap, size 3 (Refrigerant R12, R134a and R404)
- Art.-No. 5380 8 3 1: High pressure valve protection cap, size 3 (Refrigerant R12, R134a and R404)
- Art.-No. 5380 8 4: Low pressure valve protection cap, size 4 (Ford, Chrysler, American Cars)
- Art.-No. 5380 8 4 1: High pressure valve protection cap, size 4 (Ford, Chrysler, American cars)
- Art.-No. 5380 8 5: Low pressure valve protection cap, size 5 (BMW II, Mercedes-Benz II)
- Art.-No. 5380 8 5 1: High pressure valve protection cap, size 5 (BMW II, Mercedes-Benz II)
- Art.-No. 5380 8 6: Low pressure valve protection cap, size 6 (Japanese cars)
- Art.-No. 5380 8 6 1: High pressure valve protection cap, size 6 (Japanese cars)



Valve protection cap R1234yf

- Valve protection cap for vehicles with refrigerant R1234yf
- Universal size HD and ND
- With flame icon

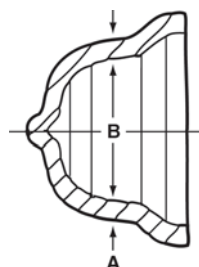
Article No.	Article Description	QTY
5380 8 8	PCK(5)VALVE PROT.CAP R1234YF	1



Protective Caps PVC

- Universal protection to close pipes and connecting pipes that are part of the air conditioning system (e.g. condenser, dryer, evaporator)
- Prevents humidity and dirt from entering the air-conditioning system during repair work
- Can be used on inside and outside threads
- Also for other lines and connections of motor parts

Technical Data			
Art. No.	„A“min.	„A“max	„B“
3781 1 711	7,110	7,370	5,590
3781 1 940	9,400	9,910	7,320
3781 1 1067	10,670	11,180	8,590
3781 1 1232	12,320	12,830	9,200
3781 1 1359	13,590	14,100	11,250
3781 1 1626	16,260	16,670	13,030
3781 1 2019	20,190	20,700	17,250
3781 1 2134	21,340	21,840	18,800
3781 1 2565	25,650	26,290	22,680
3781 1 3200	32,000	32,640	29,030



Article No.	Article Description	QTY
3781 1 711	PVC PROTECTIVE CAP 7.11MM	20
3781 1 940	PVC PROTECTIVE CAP 9.40MM	20
3781 1 1067	PVC PROTECTIVE CAP 10.67MM	20
3781 1 1232	PVC PROTECTIVE CAP 12.32MM	20
3781 1 1359	PVC PROTECTIVE CAP 13.59MM	20
3781 1 1626	PVC PROTECTIVE CAP 16.26MM	20
3781 1 2019	PVC PROTECTIVE CAP 20.19MM	20
3781 1 2134	PVC PROTECTIVE CAP 21.34MM	20
3781 1 2565	PVC PROTECTIVE CAP 25.65MM	20
3781 1 3200	PVC PROTECTIVE CAP 32.64MM	20

Protective Caps PVC in Assortment

- 7.11 mm - 32.64 mm = 145 pieces

Contents:

Ar. No.	Art. Description	Quantity
3781 1 711	PVC PROTECTIVE CAP 7.11MM	20
3781 1 940	PVC PROTECTIVE CAP 9.40MM	20
3781 1 1067	PVC PROTECTIVE CAP 10.67MM	20
3781 1 1232	PVC PROTECTIVE CAP 12.32MM	20
3781 1 1359	PVC PROTECTIVE CAP 13.59MM	20
3781 1 1626	PVC PROTECTIVE CAP 16.26MM	10
3781 1 2019	PVC PROTECTIVE CAP 20.19MM	10
3781 1 2134	PVC PROTECTIVE CAP 21.34MM	10
3781 1 2565	PVC PROTECTIVE CAP 25.65MM	10
3781 1 3200	PVC PROTECTIVE CAP 32.64MM	5

Article No.	Article Description	QTY
9000 3781 1	ASSORTM.PVC PROTECTIVE CAPS	1
9000R 3781 1	TRAY PVC PROTECTIVE CAPS	1



Assortment: Valve Core

- 52-pieces in plastic case

Article No.	Article Description	QTY
5380 606090	ASSORTMENT VALVE CORE 52-PCS	1

Contents:

- 4x Art.-No. 5380 606014: Bag (5) Valve cores VC-6400
- 2x Art.-No. 5380 606015: Bag (5) Valve cores VC-6500
- 1x Art.-No. 5380 606016: Bag (5) Valve cores VC-6600
- 1x Art.-No. 5380 606017: Bag (5) Valve cores VC-6700
- 1x Art.-No. 5380 606018: Bag (5) Valve cores VC-6800
- 1x Art.-No. 5380 606019: Bag (5) Valve cores VC-6900
- 2x Art.-No. 5380 605010: Valve core - key



Valve Key for Air Conditioning Units

- suitable for standard valve inserts at R12 and R134a air conditioning units

Article No.	Article Description	QTY
5380 605010	VALVE CORE - KEY	1



Valve Cores

Art.-No. 5380 606014:

- Standard 5 mm

Art.-No. 5380 606015:

- High flowing-through

Art.-No. 5380 606016:

- Peugeot / Volvo 8 mm

Art.-No. 5380 606017:

- GM-high pressure 6 mm

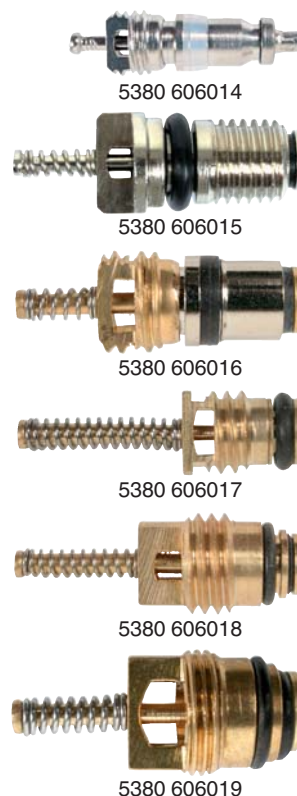
Art.-No. 5380 606018:

- Low-pressure 8 mm

Art.-No. 5380 606019:

- High-pressure 10 mm

Article No.	Article Description	QTY
5380 606014	BAG(5) VALVE CORES VC-6400	1
5380 606015	BAG(5) VALVE CORES VC-6500	1
5380 606016	BAG(5) VALVE CORES VC-6600	1
5380 606017	BAG(5) VALVE CORES VC-6700	1
5380 606018	BAG(5) VALVE CORES VC-6800	1
5380 606019	BAG(5) VALVE CORES VC-6900	1



Pro air-conditioning repair set, 81-piece

- For the line and hose repair of air-conditioning systems
- Thanks to the compact design, work is also possible in the confined space of an engine compartment
- Fittings are designed to handle pressure up to approx. 100 bar
- Repairs on air-conditioning systems may only be performed by specialist staff
- Observe legal regulations (Chemicals Climate Protection Ordinance)

Your Advantage / Benefit

- Suitable for air-conditioning systems with R134a, R1234yf and R12
- Professional repair by means of pressed connections
- Repair is possible without removing lines
- Hose to pipe connections can be repaired



Application

Line diameter conversion:

- 5/16" = 8 mm
- 3/8" = 10 mm
- 1/2" = 12 mm
- 5/8" = 16 mm
- 3/4" = 19 mm

The procedure is described in detail in the operating instructions.



Contents

Ar. No.	Art. Description	Quantity
3102 4000	CLAMP,PLIERS F.PERFORATED CLIP	1
4628 19	FORKED RING-RATCHET SPANNER 19	1
4715 160	CALIPER 150MM	1
4750 2 3	PROFIGRAT SET TELE.W.BLADE7PCS	1
4941 3 30	COMPACT PIPE CUTTER 3-30 MM	1
5380 81 0	TOOL KIT FOR FITTING 11-PCE	1
5380 81 2	GRIND.FLEECE FOR PIPELINE	1
5380 81 12	PIPE-PIPE FITTING 1/2"	2
5380 81 12 1	PIPE-HOSE FITTING 1/2"	2
5380 81 12 1 1	PIPE-HOSE, MOUNTING FUSE 1/2"	2
5380 81 12 1 2	PCK(2)PIPE HOSE CLAMP 1/2"	2
5380 81 12 2	PCK(4)PIPELINE 1/2" X30.5CM	1
5380 81 34	PIPE-PIPE FITTING 3/4"	2
5380 81 34 1	PIPE HOSE FITTING 3/4"	2
5380 81 34 1 1	PIPE HOSE MOUNTING FUSE 3/4"	2
5380 81 34 1 2	PCK(2)PIPE HOSES CLAMP 3/4"	2
5380 81 34 2	PCK(4)PIPELINE 3/4" X30.5CM	1
5380 81 38	PIPE-PIPE FITTING 3/8"	2
5380 81 38 1	PIPE-HOSE FITTING 3/8"	2
5380 81 38 2	PCK(6)PIPELINE 3/8" X30.5CM	1

Contents

Ar. No.	Art. Description	Quantity
5380 81 58	PIPE-PIPE FITTING 5/8"	2
5380 81 58 1	PIPE HOSE FITTING 5/8"	2
5380 81 58 1 1	PIPE-HOSE MOUNTING FUSE 5/8"	2
5380 81 58 1 2	PCK(2)PIPE HOSE CLAMP 5/8"	2
5380 81 58 2	PCK(4)PIPELINE 5/8" X30.5CM	1
5380 81 516	PIPE-PIPE FITTING 5/16"	2
5380 81 516 1	PIPE-PIPE FITTING 5/16"	2
5380 81 516 1 1	PIPE-HOSE, MOUNTING FUSE 5/16"	2
5380 81 516 1 2	PCK(2)PIPE-HOSE CLAMP 5/16"	2
5380 81 516 2	PCK(8)PIPELINE 5/16" X30.5CM	1
9003 1	VAROBOXX SIZE:1 EMPTY	2
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	3
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	1
9004 1 5 5	INSET BOX RED 5X5CM VAROBOXX1	6
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	13
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	1
9004 2 7	DEEP DRAWN INS.4COMP.VAROBOXX2	1
9004 5380 81	KLIMAREP-EINSATZ VAROBOXX1	1
9008 7	VAROBOXX WALL BRACKET	1

Artikel-Nr.	Article Description	QTY
9003 5380 81	PRO AIR-COND.REPAIR SET 81-PCE	1

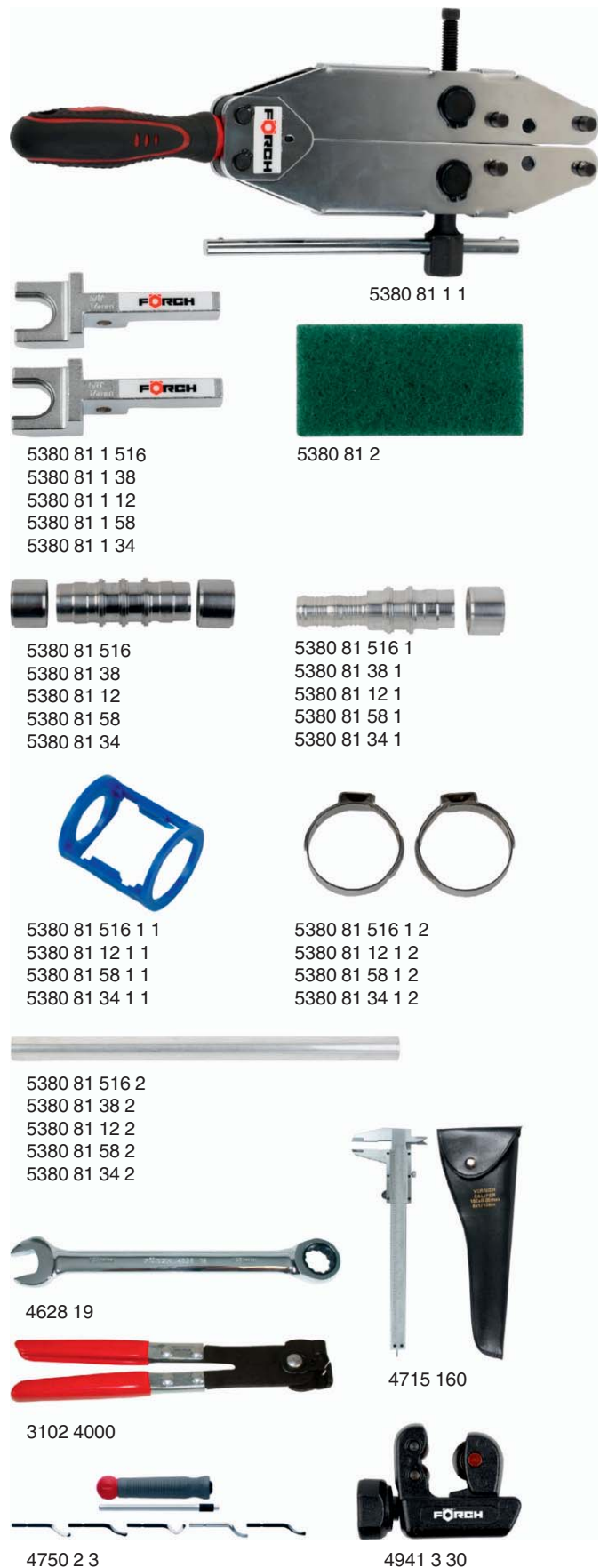
Profi Air-Cond.repair set 81-PCE, Accessories

- the pipe-hose Fitting 3/8" (Art.-No. 5380 81 38 1) can be applied with the pipe-hose-mounting fuse 5/16" (Art.-No. 5380 81 516 1) and the pipe-hose-clamp 5/16"(Art.-No. 5380 81 516 1 2)

Article No.	Article Description	QTY
5380 81 0	TOOL KIT FOR FITTING 11-PCE	1
5380 81 1 1	MAN.MOUNT.PLIERS FOR FITTING	1
5380 81 1 516	MOUNTING BRACKET 5/16"	1
5380 81 1 38	MOUNTING BRACKETS 3/8"	1
5380 81 1 12	MOUNTING BRACKETS 1/2"	1
5380 81 1 58	MOUNTING BRACKETS 5/8"	1
5380 81 1 34	MOUNTING BRACKETS 3/4"	1
5380 81 2	GRIND.FLEECE FOR PIPELINE	1
5380 81 516	PIPE-PIPE FITTING 5/16"	1
5380 81 38	PIPE-PIPE FITTING 3/8"	1
5380 81 12	PIPE-PIPE FITTING 1/2"	1
5380 81 58	PIPE-PIPE FITTING 5/8"	1
5380 81 34	PIPE-PIPE FITTING 3/4"	1
5380 81 516 1	PIPE-PIPE FITTING 5/16"	1
5380 81 516 1 1	PIPE-HOSE, MOUNTING FUSE 5/16	1
5380 81 516 1 2	PCK(2)PIPE-HOSE CLAMP 5/16	1
5380 81 38 1	PIPE-HOSE FITTING 3/8"	1
5380 81 12 1	PIPE-HOSE FITTING 1/2"	1
5380 81 12 1 1	PIPE-HOSE, MOUNTING FUSE 1/2"	1
5380 81 12 1 2	PCK(2)PIPE HOSE CLAMP 1/2"	1
5380 81 58 1	PIPE HOSE FITTING 5/8"	1
5380 81 58 1 1	PIPE-HOSE MOUNTING FUSE 5/8"	1
5380 81 58 1 2	PCK(2)PIPE HOSE CLAMP 5/8"	1
5380 81 34 1	PIPE HOSE FITTING 3/4"	1
5380 81 34 1 1	PIPE HOSE MOUNTING FUSE 3/4"	1
5380 81 34 1 2	PCK(2)PIPE HOSES CLAMP 3/4"	1
5380 81 516 2	PCK(8)PIPELINE 5/16" X30.5CM	1
5380 81 38 2	PCK(6)PIPELINE 3/ 8" X30.5CM	1
5380 81 12 2	PCK(4)PIPELINE 1/ 2" X30.5CM	1
5380 81 58 2	PCK(4)PIPELINE 5/8" X30.5CM	1
5380 81 34 2	PCK(4)PIPELINE 3/4" X30.5CM	1
4628 19	FORKED RING-RATCHET SPANNER 19	1
4750 2 3	PROFIGRAT SET TELE.W.BLADE7PCS	1
4941 3 30	COMPACT PIPE CUTTER 3-30 MM	1
3102 4000	CLAMP.PLIERS F.PERFORATED CLIP	1
4715 160	CALIPER 150MM	1

Contents Art.-No. 5380 81 0:

- 1x Art.-No. 5380 81 1 1: Manual mounting pliers
- 1x Art.-No. 5380 81 1 516: Mounting brackets 5/16"
- 1x Art.-No. 5380 81 1 38: Mounting brackets 3/8"
- 1x Art.-No. 5380 81 1 12: Mounting brackets 1/2"
- 1x Art.-No. 5380 81 1 58: Mounting brackets 5/8"
- 1x Art.-No. 5380 81 1 34: Mounting brackets 3/4"



Air-Conditioning Repair Set, 17 Parts

- For pipe diameters 8, 10, 12, 16 and 18 cm
- For hose diameters 8, 12, 16 and 18 cm
- Ideal for quick air-conditioning pipe and hose repair
- Repairs on air-conditioning systems may only be performed by special staff
- Adhere to legal regulations (Chemical Protection Ordinance)

Your Advantage / Benefit

- Suitable for air-conditioning with R134a, R1234yf and R12
- Cost-efficient repair
- Complete set with tools for line and hose repair
- No special installation tools
- Tight radii possible
- No bending of pipes necessary



Application

Caution: The procedure is described in detail in the operating instructions.

- 1. Empty the system as specified and search for the leak.**
- 2. Establish access to the installation space**
(remove all the piping when required)
- 3. Measure the pipe or hose diameter**
(see whether repair with set is possible)
- 4. Choose repair version**
 - 4.1 Air-conditioning pipe repair**
 - Cut off and prepare pipe
 - Combine the repair hose with the connecting piece
 - Place the union nut with the cutting ring onto the air conditioning pipe
 - Assemble the Connection
 - 4.2 Air-conditioning hose repair**
 - Cut off the hose
(The cutting point should overlap with the leak.)
 - Place fitting and clamps between the hose ends
 - Crimp the connection
- 5. Check the vehicle for tightness and refill with cooling agent as prescribed.**

Contents:

Ar. No.	Art. Description	Quantity
4681 200	RABITZ PLIERS DIN 9242 200MM	1
4760 3 1	ALL-PURPOSE SCISSORS 215MM	1
4941 22	MINI-PIPE CUTTER 3-22MM	1
4941 100	INTERNAL/EXTERNAL CUTTER	1
5380 78 8	PIPE/HOSE CONNECTOR SET D.8MM	1
5380 78 8 0	HOSE FIT.CONNECTOR SET D.8MM	1
5380 78 8 1	COOL.AGENT HOSE I D.8MMX235MM	1
5380 78 10	PIPE/HOSE CONNECTOR SET D.10MM	1
5380 78 12	PIPE/HOSE CONNECTOR SET D.12MM	1
5380 78 12 0	HOSE-FIT.CONNECT.SET D. 12MM	1
5380 78 12 1	COOL.AGENT HOSE I D.10MMX235MM	1
5380 78 16	PIPE/HOSE CONNECTOR SET D.16MM	1
5380 78 16 0	HOSE FIT.CONNECTOR SET D.16MM	1
5380 78 16 1	COOL.AGENT HOSE I D.13MMX235MM	1
5380 78 18	PIPE/HOSE CONNECTOR SET D.18MM	1
5380 78 18 0	HOSE FIT.CONNECTOR SET D.18MM	1
5380 78 18 1	COOL.AGENT HOSE I D.16MMX235MM	1
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	1
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 30	INSETB.D-GR.10X30CM VAROBOXX 1	1



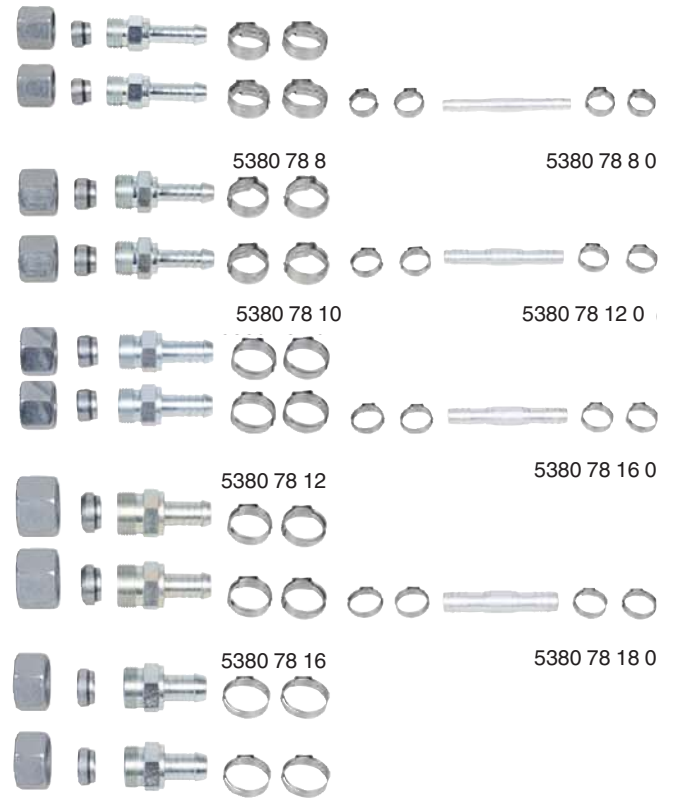
Article No.	Article Description	QTY
9003 5380 78	AIR COND.PIPE REPAIR SET 17PCS	1

Related Products

<p>■ Forming Gas Test Case, 9-pce Art.-No. 9003 5380</p> 	<p>■ Air Conditioner Rinse Set Art.-No. 5380 701</p> 	<p>■ “Delta“ Safety Glasses Art.-No. 5400 904 1</p> 	<p>■ Thermo-Chemical-Gloves PVC Art.-No. 5405 131 8-10</p> 
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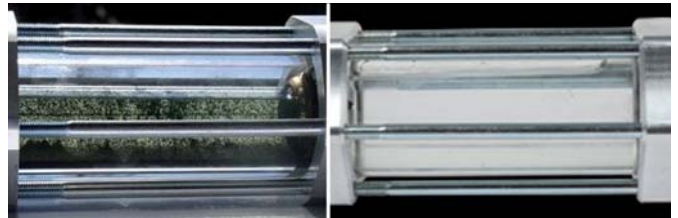
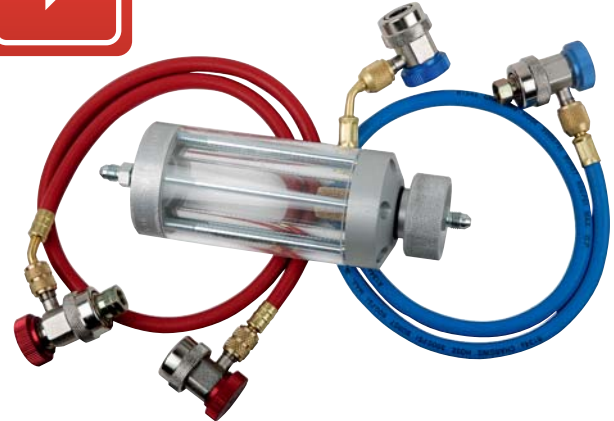
Air-Conditioning Repair Set, 17 Parts – Accessory

Article No.	Article Description	QTY
5380 78 8	PIPE/HOSE CONNECTOR SET D.8MM	1
5380 78 8 0	HOSE FIT.CONNECTOR SET D.8MM	1
5380 78 8 1	COOL.AGENT HOSE I D.8MMX235MM	e 10
5380 78 10	PIPE/HOSE CONNECTOR SET D.10MM	1
5380 78 12	PIPE/HOSE CONNECTOR SET D.12MM	1
5380 78 12 0	HOSE-FIT.CONNECT.SET D. 12MM	1
5380 78 12 1	COOL.AGENT HOSE I D.10MMX235MM	e 10
5380 78 16	PIPE/HOSE CONNECTOR SET D.16MM	1
5380 78 16 0	HOSE FIT.CONNECTOR SET D.16MM	1
5380 78 16 1	COOL.AGENT HOSE I D.13MMX235MM	e 10
5380 78 18	PIPE/HOSE CONNECTOR SET D.18MM	1
5380 78 18 0	HOSE FIT.CONNECTOR SET D.18MM	1
5380 78 18 1	COOL.AGENT HOSE I D.16MMX235MM	e 10
4681 200	RABITZ PLIERS DIN 9242 200MM	1 s
4760 3 1	ALL-PURPOSE SCISSORS 215MM	1
4941 100	INTERNAL/EXTERNAL CUTTER	1
4941 22	MINI-PIPE CUTTER 3-22MM	1



Air Conditioning Diagnosis Tools

- Practical tool that can make the contents of the car's air conditioner visible, thus increasing the ease of diagnosis considerably
- Can be used together with an air conditioner service device or also separately (on the road directly at the vehicle)
- Based on physical characteristics, the refrigerant can thus be easily seen quickly to detect „oil problems“, contrast media, particles, and swarf as well as water and other foreign substances (sealants)
- Substances that are „caught“ in the air conditioner diagnosis instrument can be safely removed from the system and disposed of through the cleaning opening
- Can be used either with liquid or gaseous substances for a wealth of options including oil, contrast media, and refrigerant addition
- Check your own air conditioner system for impurities and protect it
- If different oils are used, absolute separation is assured
- The input and output of the viewing glass are secured with valves
- Quick-release couplings with safety valves are installed in the hose at both ends
- The quick-release couplings are mounted on the glass so that they can rotate, thus preventing the accidental release of the hose and discharge of refrigerant
- More precise dosage than with a ball valve



Before: Soiled system

After: Clean system including oil

Technical Data

Volume:	96 ml
Dimension Length:	230 mm
Outer diameter:	70 mm
Working pressing:	25 bar (max.)
Working temperature:	+50 °C (max.)
Weight (without accessories):	1,000 g
Air conditioned hose blue/red length each:	900 mm

Contents:

- 1x Art.-No. Diagnosis tool
- 1x Art.-No. 5380 690: service coupler ND blue
- 1x Art.-No. 5380 691: service coupler HD red
- 1x Art.-No. 5380 605: conditioning hose 900 mm IG 1/4" SAE (colour is not essential)

Article No.	Article Description	QTY
5380 600	AIRCOND.DIAGNOSISTOOL	1

Air Conditioning Diagnosis Tool Mini

- Properties see Art.-No. 5380 600

Technical Data

capacity:	approx. 40 ml
dimensions length:	200 mm
diameter (external):	42 mm
operating pressure:	25 bar (max.)
operating temperature:	+50°C (max.)
weight (without accessories):	371 g
air conditioning hose length:	900 mm

Article No.	Article Description	QTY
5380 611	AIR COND. DIAGNOSIS TOOL MINI	1

Contents:

- Mini diagnostic tool
- 1x Art.-No. 5380 605: air conditioning hose red 90 cm
- 1x Art.-No. 5380 604: air conditioning hose blue 90 cm
- 2x Art.-No. 5380 691: quick coupling HD
- 2x Art.-No. 5380 690: quick coupling ND
- 1x Art.-No. 5380 609 1: adapter HD / ND



Air Conditioner Rinse Set

- Universal rinse set for vehicle A/C systems
- Protects from harmful substances and contamination in the refrigeration cycle due to rinsing
- Improves the cooling performance and provides protection for all components of the A/C system, especially compressors
- Does not require dismantling of the system

Harmful substances and their effects:

- **Moisture:** Caused by diffusion and improper maintenance, creates acid, corrosion and rust
- **Air:** Caused by high temperature, pressure and heat, speeds up the instability of cooling agents, binds itself with cold machine oil and form sludge, reduces the cooling performance und improves oxidation
- **Wrong oil:** Insufficient lubrication and bad heat-transmission, forms wax, different forms of sludge, reduces cooling performance and damages the compressors
- **Contamination:** Effects throttle and valves, acts like abrasive material, speeds up component damages in the system
- **Rubber and metal wear:** Effects valves (clogging), interfere all moveable parts and causes compressor damages

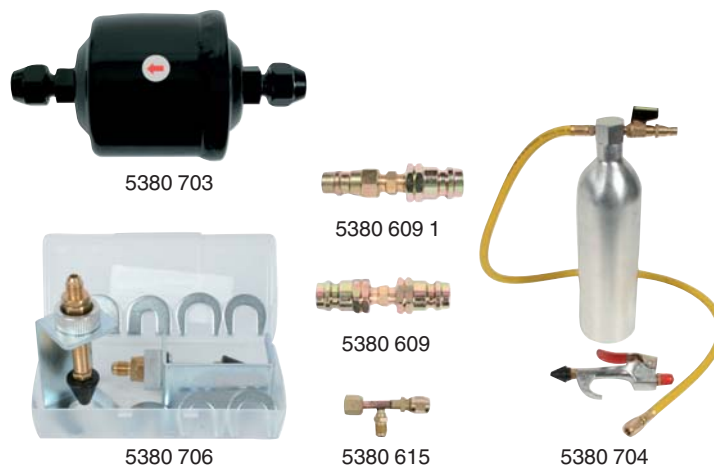


Article No.	Article Description	QTY
5380 701	AIR CONDITIONER RINSE SET MAXI	1

Art.-No. 5380 700 consists of:

- 1 x Switchbox incl. approx. 2.5 m connecting hose with special safety connection
- 1x Adapter AC unit (with bottle)
- 1x Special rinsing hose blue approx. 90 cm length
- 1x Special rinsing hose red approx. 90 cm length
- 1x Special rinsing hose yellow approx. 60 cm length
- 1x Filter dryer with coupling
- 1x Flushing agent injector with with stop valve, hose and gun
- 1x Couplings HD for rinsing process
- 1x Couplings ND for rinsing process
- 2x Universal adapter (clamp)
- 10x Compensation pieces
- 2x Internal taper plastic
- 2x External taper plastic
- 2x Cylindric adapter plastic
- 1x Art.-No. 5380 605010 Valve core remover
- 1x Art.-No. 5380 601 Gaugeglass
- 1x Art.-No. 5380 602 Connector kit for gaugeglass
- 1x Art.-No. 5380 609 Double-nipple high-pressure HD134a-HD134a
- 2x Art.-No. 5380 690 Service coupling ND blue
- 2x Art.-No. 5380 691 Service coupling HD red
- 2x Art.-No. 5380 605 Climate hose red 900 mm (colour is not essential)
- 1x sight glass cover with 1/4" SAE-Connection

AC System - Accessories



Article No.	Article Description	QTY
5380 609	DOUBL.NIPPLE HD R134A-R134A HD	1
5380 609 1	DOUBL.NIPPLE HD R134A-R134A ND	1
5380 615	T-ADAPTER 1/4" SAE	1

Article No.	Article Description	QTY
5380 703	FILT.DRYER FOR AC RINSING SET	1
5380 704	RINSING AGENT INJECTOR SET	1
5380 706	PK(2)AIRCOND.FLUSH.ADAPTER SET	1

Air conditioning hose lines



Article No.	Article Description	QTY
5380 604	AIRCO.HOSE.BLUE 90CM IG1/4"SAE	1
5380 604 1	AIRC.HOSE.BLUE+BV 90CM 1/4"SAE	1
5380 605	AIRCONHOSE.RED 90CM IG1/4"	1
5380 605 1	AIRC.HOSE.RED+BV 90CM 1/4"SAE	1

Article No.	Article Description	QTY
5380 606	AC HOSE BLUE 3MTR IG 1/4" SAE	1
5380 607	AIRCON.HOSE RED 3MTR IG1/4"SAE	1
5380 612	AC-HO.BL 3M 1/4SAEX AG M12X1.5	1
5380 613	AC-HO.RED3M 1/4SAEX AG M12X1.6	1

Art.-No. 5380 612 and 5380 613:

- for R1234yf quick couplings
- IG 1/4 SAE x AG M 12 x 1.5

Service-Quick Coupling

Art.-No. 5380 690:

- Chrome design
- Low-pressure (ND)coupling with SAE 1/4" external thread

Art.-No. 5380 691:

- Chrome design
- High-pressure (HD) coupling with SAE 1/4" external thread

Art.-No. 5380 690 1:

- Chrome design
- Low-pressure (ND) coupling with M14 x 1.5 internal thread

Art.-No. 5380 691 1:

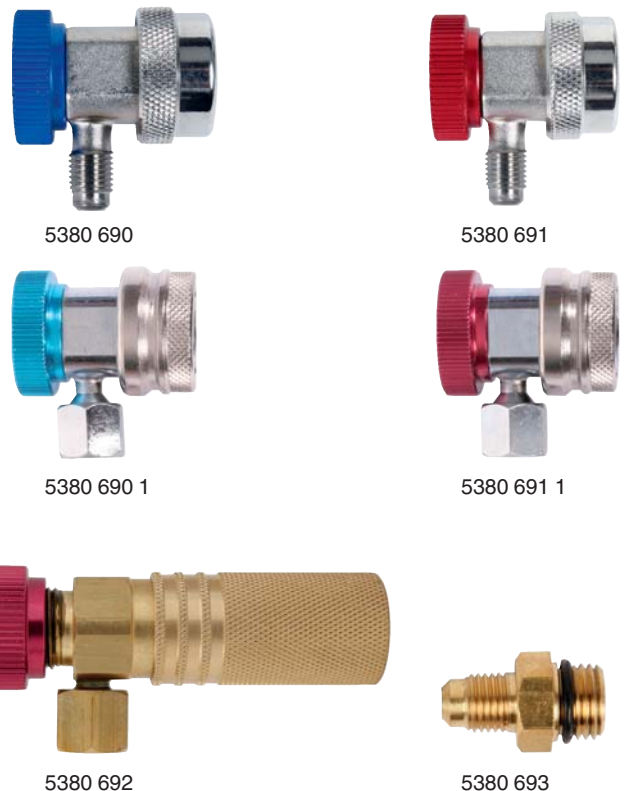
- Chrome design
- High-pressure (HD) coupling with M14 x 1.5 internal thread

Art.-No. 5380 692:

- brass design
- long high-pressure(HD) coupling for usage on BMW (E60), Ford (S-Max, Galaxy), Volvo (C30), Mercedes (SLK)

Art.-No. 5380 693:

- for adapting from M14 x 1.5 internal thread to SAE 1/4" external thread
- applicable for Art.-No. 5380 690 1, Art.-No. 5380 691 1 and Art.-No. 5380 692

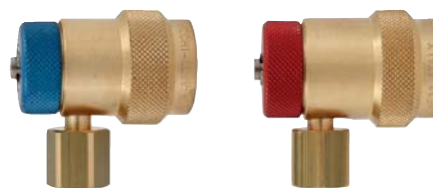


Article No.	Article Description	QTY
5380 690	SERV.COUPL.LP BLUE AG1/4"SAE	1
5380 691	SERV.COUPL.HP RED AG1/4"SAE	1
5380 690 1	SERVICE COUPL. BLUE IGM 14X1.5	1
5380 691 1	SERV.COUPL.HP RED IG M14X1.5	1
5380 693	AD.F.COUPL.AGM14X1.5-AG1/4"SAE	1
5380 692	SERV.COUPL.HP LONG R134A	1

Quick coupling air conditioning units R1234yf

- brass design
- suitable hose lines:
- 5380 612 and 5380 613

Article No.	Article Description	QTY
5380 694	SER.COUP.LP R1234YF BL M12X1.5	1
5380 695	SE.COUP.LP R1234YF RED M12X1.6	1



5380 694

5380 695

Air Conditioning Adapter

Art.-No. 5380 608: • adapter for R134a HD

Art.-No. 5380 608 1:

- adapter for R134a ND

Art.-No. 5380 610:

- extension adapter HD

Art.-No. 5380 603:

- locking ball valve with 1/4" SAE IG and AG

Art.-No. 5380 716:

- 10 replacement seals for 1/4" SAE

Art.-No. 5380 718:

- for adapting the SUN or Robin air conditioning service units with rinsing function, suitable for necessary compressor adapters of the VW group for air conditioning rinsing (incl. 2 reductions 3/8" FM and 1/4" SAE M and 1x adapter 1/4" SAE-R134A HD)

Art.-No. 5380 719:

- Adapter IG 1/2" ACME on 1/4" SAE AG

Art.-No. 5380 696:

- For the adaptation of standard SAE air-conditioning hoses 1/4" SAE to 1234yf-quick couplers (Art.-No. 5380 694 and 5380 695)



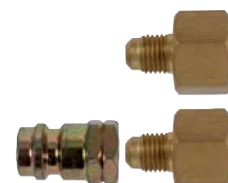
5380 608



5380 716



5380 610 1



5380 718



5380 610



5380 719

Article No.	Article Description	QTY
5380 608	ADAPTER IG 1/4"-R134A HP	1
5380 608 1	ADAPTER IG 1/4"-R134A LP	1
5380 610	ADAPTER F.HP BMW E60 VOLVO S80	1
5380 603	BALL VALVE IG/AG14"F.GAUGEGL.	1
5380 716	BAG(10)REPL.NOZ.F.1/4"SAE-HOSE	1
5380 718	ADPATER SET VAG-SUN 3/8"-1/4"	1
5380 719	ADAP.IG 1/2"ACMEX1/4" SAE AG	1
5380 696	ADAPTER 12MM X 1/4"SAE	1



5380 603



5380 696

Forming Gas - Leak Detection - Package AC System

- For leak detection with forming gas 95/5 (95% nitrogen, 5% hydrogen)
- Forming gas 95/5 is environmentally-friendly, non-toxic, non-combustive and non-corrosive
- The forming gas emerges at the leak and can be detected by the electrical leak detector which is included in the package
- Hydrogen has the lowest density and is lighter than air which enables smallest leak detections
- Combined leak detection and pressure leak test with realistic pressure conditions
- The nitrogen in the forming gas can create residual moisture
- No environmentally hazardous emerge of cooling agents during and after leak detection
- Hydrogen is 14.4 times lighter than air and rises straight upwards which makes the leak detection easier. This also enables e.g. the diagnosis of vaporiser leakages without disassembly of dashboards
- Renewable, environmentally-friendly resources
- More regular hydrogen concentration in the system to be tested



Contents:

Art. No.	Art. Description	Quantity
5380 155	BOTTLE TROLLEY FOR 10L BOTTLES	1
5380P 1 1	EXTRA PACKAGE FOR 5380P1	1

Article No.	Article Description	QTY
5380P 1	AC KIT F.LEAK DET.OF FORM.GAS	1

Nitrogen - Leak Detection - Package AC System

- The nitrogen emerges at the leak and can be detected by a hearing test or leak detection spray (e.g. Förch Leak Detector 6730 0800) (blistering). An electrical nitrogen detection is not possible.
- The testing is made with realistic pressure conditions in the system
- Nitrogen is more favourable than cooling and contrast agents
- The nitrogen possibly binds residual moisture after vacuuming in the system
- No environmentally hazardous emerge of cooling agents during and after leak detection



Contents:

Art. No.	Art. Description	Quantity
5380 155	BOTTLE TROLLEY FOR 10L BOTTLES	1
5380P 2 1	EXTRA PACKAGE FOR 5380P2	1

Article No.	Article Description	QTY
5380P 2	NITR.LEAK-DET. PACK.AC SYSTEM	1

Forming gas test case, 9-pce **VAROBOXX**

- for detection with forming gas 95 / 5 (95% nitrogen, 5% hydrogen)
- the forming gas escapes at the unsealed spot and can be easily sniffed with the electronic leak detector included in this pack
- filling of the air conditioning unit with test gas possible either via the discharge side (e.g. at a service connections) or at both discharge sides at the same time and after one another
- simultaneous test pressure in the unit e.g. when the expansion valve is shut
- test gas bottle (nitrogen or forming gas) does not have to remain in the vehicle and may be separated from the filled unit. This enables further work to be carried out on other vehicles whilst autonomously and simultaneously testing the pressure loss on the first vehicle
- bottle manometer max 20 bar
- 3-way valve with pressure manometer max 34 bar
- the forming gas is not included in the delivery



Article No.	Article Description	QTY
9003 5380	VAROBOXX FORMING GAS TEST CASE	1

Contents:

- 1x Art.-No. 5380 161 forming gas leak detection unit
- 1x Art.-No. 5380 162 pressure regulator forming gas
- 1x Art.-No. 5380 606 blue air conditioning hose 3 m, IG ¼" SAE
- 1x Art.-No. 5380 690 service coupling ND blue AG ¼" SAE
- 1x Art.-No. 5380 163 high pressure test armature 3-way valve
- 1x Art.-No. 5380 604 blue air conditioning hose 90 cm IG ¼" SAE
- 1x Art.-No. 5380 607 red air conditioning hose 3 m, IG ¼" SAE
- 1x Art.-No. 5380 691 service coupling HD red AG ¼" SAE
- 1x Art.-No. 9003 2 VAROBOXXGr. 2 empty

Extension Kit AC System - Leak Detection

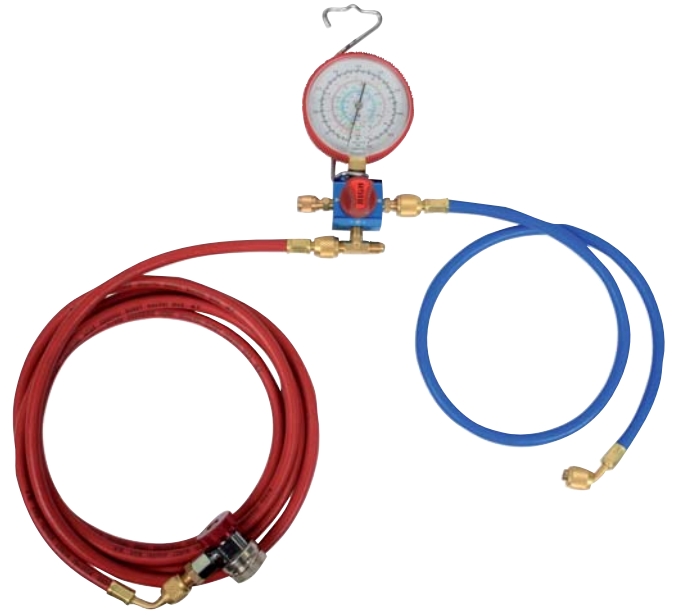
For the extension of the consisting FÖRCH AC System - Leak Detection packages nitrogen and forming gas

- For both side filling (HP/LP) of air conditioner with testing gas when detecting leakages
- Continuous pressure in the system e.g. when expansion valve is closed
- Filling of AC system with testing gas at one pressure side (e.g. only one service connection) or at both pressure sides at the same time or one after the other possible
- More detailed information of pressure or pressure loss in case of small leakages
- Pressure gauge max. 34 bar
- Testing gas bottle (nitrogen or forming gas) does not need to be connected to the vehicle and can be separated from the filled system. This enables to continue the testing at other vehicles at the same time and to do independent pressure loss tests. **In this case a further air conditioner hose blue 3m with article no. 5380 606 should be ordered**

Contents:

Art.No.	Art.Description	Quantity
5380 163	HP PRESSURE TEST.W.3-WAY VALVE	1
5380 604	AIRCO.HOSE.BLUE 90CM IG1/4"SAE	1
5380 607	AIRCON.HOSE.RED 3MTR IG1/4"SAE	1
5380 691	SERV.COUPL.HP RED AG1/4"SAE	1

Article No.	Article Description	QTY
5380P 3	EXPANS.SET AC LEAK DETECTION	1



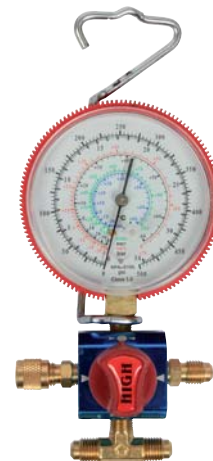
5380 691

5380 163

HP Pressure Tester with 3-Way-Valve

- Pressure manometer Ø 80mm
- Up to max. 34 bar
- With 3-Way-Valve and T-Adapter for double side filling of automotive AC systems with testing gas (nitrogen/forming gas) for leak detection
- Connections 1/4" SAE AG

Article No.	Article Description	QTY
5380 163	HP PRESSURE TEST.W.3-WAY VALVE	1



Nitrogen Pressure Reducer

Nitrogen 0 - 20 bar

- For nitrogen leak detection
- Bottle connection W 24.3 x 1/14" i
- Hose connection G 1/4 x LW 6 right-hand thread
- Identification colour: green
- For the connection to the AC hose Art. No. 5380 715 is required

Article No.	Article Description	QTY
5400 45	BOTTLE PRESS.REDU.NITROG.20BAR	1
5380 715	ADAPTER IG 1/4" - AG 1/4"SAE	1



Forming Gas Pressure Reducer

Forming gas 0 - 20 bar

- Bottle connection W 21.8 x 1/14" iL
- Hose connection G 1/4" right-hand thread
- Identification colour: red

Article No.	Article Description	QTY
5380 162	CYLINDER REGULATOR FORMING GAS	1

Included in delivery:

- 1x Bottle pressure reducer
- 1x Adapter IG 1/4" - AG 1/4" SAE



Forming Gas Leak Detector

- Perfect for detecting leaks of forming gas, e.g. in vehicle air conditioners
- Professional gas leak detector with extremely precise measurement
- For detection of most flammable gases
- Self-adjusting after switch-on
- Two sensitivity levels for precise localisation of the leak
- (forming gas = gaseous mixture of 95 % nitrogen and 5 % hydrogen)

Technical Data

Sensitivity:	variable, approx. 5 ppm (gasoline)
Signal-method:	Warning signal and 3-coloured LED-display
Power supply:	4x Alkaline type AA á 1.5 V
Batterie service life:	approx. 40 hrs
Probe length:	approx. 40 cm, flexible
Dimension (LxWxH):	173 x 66 x 56 mm
Weight:	approx. 400 g
Automatic switch off:	after 10 mins.
Heating time of sensor:	approx. 90 secs.
Working temperature:	-10°C to +40°C and up to 80% rF

Detection rate	Gases
5 ppm	Vinyl Chloride, Methyl Chloride, Hydrogene Sulfide, Gasoline (fuels), Chlorine Ammoniac (R-717)
20 ppm	Acetylene, Acetone, Methanol
50 ppm	Iso-Butan (R-600a), Methane,
500 ppm	Ethane (R-170), Propane (R-290), Ethylene (Ethene), Hydrogene, Methyl

Article No.	Article Description	QTY
5380 161	LEAK DETECTOR OF FORMING GAS	1
5380 164	SENSOR F. FORM.GAS LEAK.DETEC	1
5380 165	PROT.SLEEVE FORM.GAS SENSOR	1



Included in delivery:

- 1x Leak detector
- 4x Batteries type AA á 1.5 V
- 1x Testing agent
- 1x Carrying case

Bottle Trolley

- With plastic tyres
- Ideal for transport and storage of 10 l forming gas or nitrogen bottles
- With bottle base ring so that the gas bottle can not slip out inadvertently
- With hose holder hooks

Article No.	Article Description	QTY
5380 155	BOTTLE TROLLEY FOR 10L BOTTLES	1



Mini inspection glass with filter

- specially designed for protecting air conditioning service units from solid dirt particles
- protects the units against dirt e.g. from chips, incorrectly used sealant and crystallised UV agent
- for pressures up to 24 bar

Article No.	Article Description	QTY
5380 167	MINI INSP. GLASS W. FILTER	1
5380 168	P(5) SPARE FILT.F.MINI INSP.GL	1



Protection filter recycling station

- 2-level filter, especially designed for the complete protection of air conditioning appliances
- **first level:** liquids are separated from cooling mediums
- sealants, UV contrast agents and (acidic) oils remain reliably to approx. 90% in the filter and may be discharged in to the special discharge by using the supplied ball valve. The liquid filter does not clog under normal circumstances and usually does not need to be exchanged.
- **second level:** cooling medium passes through the integrated mini sight glass filter, in which solid dirt particles are held back before reaching the air conditioning service unit
- for pressures up to max 24 bar:

Article No.	Article Description	QTY
5380 166	PROTEC.FILTER RECYCL.STATION	1
5380 168	P(5) SPARE FILT.F.MINI INSP.GL	1

replacement filter for mini inspection glass on the protection filter:

- Art.-No. 5380 168

