



# WÜRTH

PROFESSIONAL SOLUTIONS

# LAND & SEA

DECADES OF MASTERY | TRANSFORMATIONAL RESILIENCE



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# TOOL TROLLEY

## System workshop trolley WE Cargo Black edition, equipped, 75 years 242 pieces

**Solid and spacious workshop trolley with many practical details in system dimensions 8.8**

- Three-stage locking concept.
  - \_ Central locking with cylinder lock.
  - \_ One-handed unlocking and individual drawer locks prevent drawers from accidentally opening while in motion.
  - \_ Drawer lock for excellent stability and to prevent tipping. Only one drawer can be opened at a time.
- Trolley is easy to move.
- Sturdy side handle.

**Art. no. 0988 003 760**



## Workshop trolley set 8.8 259 pieces

**Art. no. 0988 000 932**

- 7 drawer roller cabinet
- Overall size (w/o casters): 776 X 521 X 859mm
- With steel thickness 1.0mm for body and for 0.8mm for drawers; With 16\*\* 45mm ball bearing slides (loading weight: 45 kg per drawer)
- Rubber corners for impact protection
- Heavy duty transport wheels with brake
- Soft rubber handles for comfortable steering



**HEAVY DUTY WORKSHOP TROLLEY**

**Solid workshop trolley with practical details for mobile use in the workshop.**

- 7 drawer roller cabinet.
- Overall size (w/o casters): 776 X 521 X 859mm.
- With steel thickness 1.0mm for body and for 0.8mm for drawers.
- With 16\*\* 45mm ball bearing slides (loading weight:45 kg perdrawer).
- Rubber corners for impact protection.
- Heavy duty transport wheels with brake.

Number of drawers	7 PCS
Colour	Red

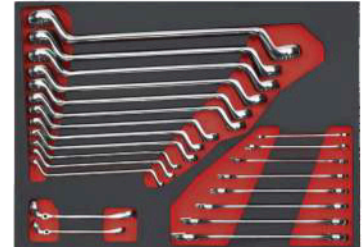


**Art. no. 0962 699 235**

**Double-end box wrench assortment  
22 pieces**

**Application**

For custom equipping of workshop trolleys, ORSY BULL boxes, vehicle interior equipment and ORSY shelving systems.



**Art. no. 0965 900 919**

**System assortment 8.4.1, screwdriver 21 pieces**

**Solid workshop trolley with practical details for mobile use in the workshop.**

- Compatible with all products of the ORSY system world.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly.

Number of pieces in assortment/set	21 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 916**

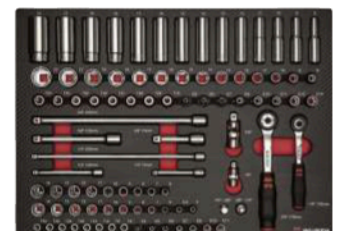


**System assortment 8.4.1, socket wrench 3/8 + 1/4 inch 91 pieces**

**Solid workshop trolley with practical details for mobile use in the workshop.**

- Compatible with all products of the ORSY system world.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.

**Art. no. 0965 905 903**



Number of pieces in assortment/set	91 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**System assortment 8.4.1, socket wrench 1/2 inch 23 pieces**

- Compatible with all products of the ORSY system world.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes marked on insert.



**ORSY**

Number of pieces in assortment/set	23 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 202**

**System assortment 8.4.1, circlip pliers 25 pieces**

- Compatible with all products from the ORSY systems.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.



**ORSY**

Number of pieces in assortment/set	25 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 917**

**System assortment 8.4.1, combination wrench 36 pieces**

- Compatible with all ORSY system products.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.



**ORSY**

Number of pieces in assortment/set	36 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 912**

**System assortment 8.4.1, socket wrench 3/8 inch 102 pcs**

- Compatible with all ORSY system products.

Uniform grid dimensions.

- Attractive carbon finish.

Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.

- Find the correct tools quickly and easily.

Tool sizes are marked on the insert.



**ORSY**

Number of pieces in assortment/set	102 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 921**

**System assortment 8.4.1, screwdriver and ratchet key 35 pieces**

- Compatible with all ORSY system products.

Uniform grid dimensions.

- Attractive carbon finish.

Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.

- Find the correct tools quickly and easily.

Tool sizes are marked on the insert.



**ORSY**

Number of pieces in assortment/set	35 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 924**

**System assortment 4.4.1, power socket wrench, hex, long 1/2 inch**

- Compatible with all ORSY system products

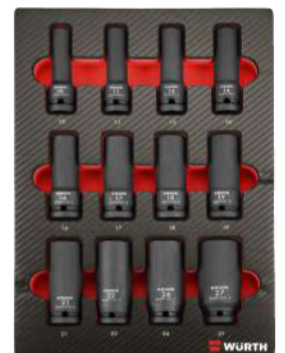
Uniform grid dimensions.

- Attractive carbon finish.

Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.

- Find the correct tools quickly and easily.

Tool sizes are marked on the insert.



**ORSY**

Number of pieces in assortment/set	36 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 218**

**12 pieces**

**System assortment 2.4.1, impact socket wrench 1/2- inch 4 pieces**

- Compatible with all ORSY system products.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.

**ORSY**



Number of pieces in assortment/set	4 PCS
Size foam section	2.4.1
Width x height x depth	115 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 213**

**System assortment 6.4.1 socket wrench 1/2, 1/4 and 3/8 inch 77 pieces**

- Compatible with all ORSY System World products.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.

**ORSY**



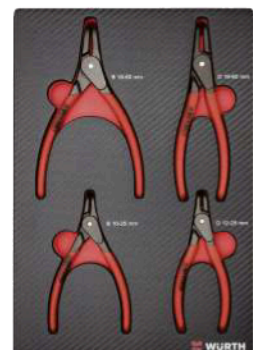
Number of pieces in assortment/set	25 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 220**

**System assortment 4.4.1, circlip pliers Curved 4 pieces**

- Compatible with all ORSY system products.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.

**ORSY**



Number of pieces in assortment/set	36 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 604**

**System assortment 4.4.1, bits 47 pieces**

- Compatible with all products from the ORSY systems.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	47 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 906**

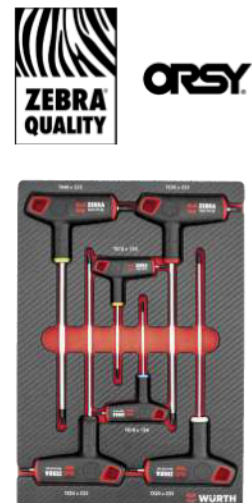


**System assortment 4.4.1, t-handle screwdriver, TX**

- Compatible with all ORSY system products.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	6 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 521**



**6 pieces**

**System assortment 4.4.1, bits 38 pieces**

- Compatible with all ORSY system products.
- Uniform grid dimensions.
- Attractive carbon finish.
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning.
- Find the correct tools quickly and easily.
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	38 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

**Art. no. 0965 905 907**



# PNEUMATIC TOOLS

## Pneumatic Impact Wrench Kit DSS 1/2" H

Pure power through the most challenging automotive (passenger cars) and jobsite tasks with a lightweight design that ensures the maximum comfort to the user. Recommended max. bolt size: M15

- Pneumatic impact wrench.
  - Outstanding power-to-weight ratio for 1/2 inch (12.7 mm) pneumatic tools.
  - High performance twin hammer impact mechanism and heavy duty hammer system provides up to 860 Nm of maximum torque in reverse.
  - Handle exhaust to direct air away from operator and work area.
  - Six-position power management operated by turn-knob in forward & reverse.
  - Rubber-coated and ergonomically shaped handle, balanced center of gravity position and handling.
- Impact socket wrench inserts.
  - Comply with DIN 3129.
  - The drop-forged special steel guarantees high resistance to breakage and wear, thereby increasing the service life.
  - Locking with a pin and O-ring prevents the impact socket wrench from becoming detached from the drive tool, thereby guaranteeing a high level of work safety.

Art. no. 0703 756 1



Contents for art. no.	
0703 756 1	1 x Oil spray bottle plastic; 1 x Pneumatic impact screwdriver DSS 1/2" Standard; 1 x Oiler/Mist lubricator; 1/2 inch impact socket wrench insert hexagon, metric, short: 1 x 10 mm, 1 x 12 mm; 1 x 1/2 inch power extension With 1/2 inch square drive and ball lock 1/2 inch; 1/2 inch impact socket wrench insert hexagon, metric, short: 1 x 13 mm, 1 x 14 mm, 1 x 17 mm, 1 x 19 mm, 1 x 21 mm, 1 x 22 mm, 1 x 24 mm, 1 x 27 mm; 1 x Empty Case

### Pneumatic impact screwdriver DSS 1/2 inch H

- Reliable, powerful impact screwdriver with fast build-up of torque
- Perfect weight distribution
- Very handy and user-friendly
- Long service life and virtually vibration-free

**Art. no. 0703 736 0**



### Pneumatic impact screwdriver DSS 1/2 inch Premium Power

**High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with aboveaverage performance and enhanced equipment features**

- Excellent power-to-weight ratio.
- Up to max. 1321 Nm Releasing torque at a weight of 1.98 kg.
- Reliable maximum performance values and a long service life.
- High-quality double impact mechanism and balanced cylinder with 6-disc motor.
- 4-step power setting with convenient one-hand reversing ensures optimum, user-friendly adjustment for the relevant application.

**Art. no. 5714 301 0**



### Pneumatic angle impact wrench DWSS 1/2 inch

**Powerful pneumatic angled impact wrench with low head height for\ working in constricted spaces.**

- Ideal for use where access is restricted.
- Reliable, strong performance values and a long service life.
- Optimum and user-friendly adjustment to any application, at any time.
- Good handling and optimum control.

**Art. no. 5714 300 0**



### Pneumatic impact screwdriver DSS 1/2 inch Premium COMPACT

**High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with above-average performance values and convenient equipment features.**

- Excellent power-to-weight ratio.
  - Up to 1100 Nm max. breakaway torque with a weight of just 1.1 kg.
  - Reliable maximum performance values and a long service life.
  - High-quality hammer impact mechanism and cylinder with unique 7-disc motor
  - 4-step power setting with convenient one-hand reversing.
- always ensures optimum, user-friendly adjustment for the relevant application.
- Excellent handling and optimal control.
  - Particularly ergonomic handle with soft grip components and precise trigger.

**Art. no. 5714 308 0**



## Pneumatic impact wrench DSS 1/2 inch BASIC

**Reliable high-quality impact wrench in robust, fibreglass-reinforced plastic housing, with aboveaverage performance and enhanced equipment fetures.**

- Excellent power-to-weight ratio.
  - Up to 1,350 Nm max. breakaway torque at a weight of 2.0 kg.
  - Reliable maximum performance values.
  - High-quality double impact mechanism and cylinder with balanced 7-vane motor.
  - 4-step power setting with convenient one-hand reversing.
- ensures optimum, user-friendly adjustment for the relevant application.



**Art. no. 5714 310 0**

## 1/2-inch impact socket wrench assortment 12 pieces

**Hexagon, metric, short.**

- Fits all conventional pneumatic and electric drivers.

**Art. no. 0714 900 100**



## 1/2-inch impact socket wrench assortment 12 pieces

**Hexagon, metric, long.**

- Fits all conventional compressed air and electric drivers.

**Art. no. 0714900100**



## 1/2-inch impact socket wrench assortment 8 pieces

**For hexagon socket screws, metric, long.**

- Fits all conventional compressed air and electric drivers.

**Art. no. 0715900200**



## 1-inch impact socket wrench assortment 8 pieces

**Hexagon, metric, short.**

- Fits all conventional compressed air and electric drivers.

**Art. no. 0714 900 600**



Contents for art. no.	
0714 900 600	1-inch impact socket wrench insert hexagon, metric, short: <b>1 x 24 mm, 1 x 27 mm, 1 x 30 mm, 1 x 32 mm, 1 x 33 mm, 1 x 36 mm, 1 x 41 mm, 1 x 46 mm</b>

**Pneumatic impact screwdriver DSS 1 inch L**

**Highly robust, powerful impact screwdriver with long square drive.**

- Very durable.
- Robust aluminium housing.
- Very handy and user-friendly.
- Ergonomically designed handle, additional handle rotates 360°, user-friendly right/left changeover and adjustable trigger.
- Low air consumption, despite maximum performance values and long service life.
- High-quality double hammer impact mechanism.

Tool holding device	1-inch external square
Max. working torque	2168 Nm
Max. releasing torque	2846 Nm
Sound-pressure level	97 dB
Vibration	12.7 m/s <sup>2</sup>
Weight of machine	12.98 kg



**Art. no. 0703 770 0**

Individually boxed

**Pneumatic impact screwdriver DSS 1 inch P**

**Extremely rugged, powerful impact screwdriver with fast build-up of torque. Ideal for tough applications, such as service work on trucks and buses, construction and agricultural machinery, and for industrial service and repair work.**

- Perfect weight distribution.
- Very handy and user-friendly.
- Long service life and virtually vibration-free.

**Art. no. 07037760**



**Pneumatic impact screwdriver DSS 1 inch P**

**Extremely rugged, powerful impact screwdriver with fast build-up of torque. Ideal for tough applications, such as service work on trucks and buses, construction and agricultural machinery, and for industrial service and repair work.**

- Perfect weight distribution.
- Very handy and user-friendly.
- Long service life and virtually vibration-free.

**Art. no. 07037750**



**Pneumatic impact screwdriver DSS 3/4 inch Premium P**

**High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with above-average performance and enhanced equipment features. Recommended maximum bolt size: M32.**

- Excellent power-to-weight ratio.
- Reliable maximum power levels and a long service life.
- Optimum and user-friendly adjustment to any application, at any time.

**Art. no. 57143510**



### Pneumatic impact screwdriver DSS 3/4 inch H

**Reliable, powerful impact screwdriver with fast build-up of torque.**

- Perfect weight distribution.
- Very easy to use and intuitive.
- Long service life and virtually vibration-free.

**Art. no. 07037730**



### Impact socket wrench bit set, 3/4 inch and 1 inch drive 16 pieces

**Comprises 13 bits with 22 mm hexagon drive for universal use.**

- For heavy-duty applications.
- Bits made of bronzed chromium-molybdenum steel.
- Scope of delivery:
    - 1 each of TX profiles TX60/TX70/TX80/TX90/TX100.
    - 1 each of hexagon socket 17/19/22/24 mm.
    - 1 each of E-profiles E18/E20/E22/E24.
    - 1 each of bit holders with 3/4 and 1 inch drive.
    - 1 x Allen key.

Number of pieces	16 PCS
Drive	3/4 inch, 1 inch
Drive type	Internal square
Product weight (per item)	6400 g

**Art. no. 1952 001 015**



# LOAD SECURITY



## Two-ply lifting strap

**Lifting straps are used where a clean and wide contact surface on the load is required.**

- The load pressure is distributed over a large area thanks to the wide contact surface. Sensitive loads and surfaces can be lifted more gently than with a narrow sling.
- Flat woven fabric, with crane loops at both ends
- Reinforced crane loops
- Various sling configurations are possible
- Protects surfaces
- Considerably lower risk of injury compared with conventional slings
- High load-bearing capacity despite own low dead load
- Load capacity can be determined quickly thanks to colour coding
- High abrasion resistance



Effective length	6 m
Material	PES - Polyester

Width of band	Colour	Load-bearing capacity (single direct)	Load-bearing capacity (single u-shape)	Load-bearing capacity (single noosed)	Art. no.
30 mm	Violet	1000 kg	2000 kg	800 kg	<b>0713 50 506</b>
60 mm	Green	2000 kg	4000 kg	1600 kg	<b>0713 50 706</b>
90 mm	Yellow	3000 kg	6000 kg	2400 kg	<b>0713 50 606w</b>
180 mm	Brown	6000 kg	12000 kg	4800 kg	<b>0713 50 066</b>
240 mm	Blue	8000 kg	16000 kg	6400 kg	<b>0713 50 086</b>

**Round sling**

**Extremely flexible sling for loads of all kinds that is gentle on surfaces.**

- Made from high-strength polyester with woven-in barrel strips and imprint of load capacity (WLL - WORK LOAD LIMIT).
- Colour-coded load-bearing capacity designation between 1000 and 8000 kg.
- Considerably lower risk of injury compared with wire ropes and chains.
- Endless loop with tear-resistant application information label.



Effective length	6 m
Material	PES - Polyester
EN standard	1492-2

Colour	Load-bearing capacity (single direct)	Load-bearing capacity (single u-shape)	Load-bearing capacity (single noosed)	Art. no.
Violet	1000 kg	2000 kg	800 kg	0713 50 115
Green	2000 kg	4000 kg	1600 kg	0713 50 213
Yellow	3000 kg	6000 kg	2400 kg	0713 50 313
Blue	8000 kg	16000 kg	6400 kg	0713 50 817



Stop type:  
Single direct



Stop type:  
Single u-shape



Stop type:  
Single-noosed



**4-strand chain-lift, QC 10**

**Lifting chain with fork head loading hooks and shortening.**

- Chain-lift in accordance with EN 818-4.
- With brown-painted chain.
- Orange-painted chain attachment parts.
- All chain components used have an H-stamp prescribed by the trade association.
- A UVV label is attached to every lift so that recurring inspections can be tracked.

Load capacity from 0-45 degree	8000 kg
Load capacity from 46-60 degree	6000 kg
Effective length	4 m
Quality class	10
Nominal diameter	10 mm
Shape of the hook	Fork head hook
Material	Steel
Gimbal height	180 mm
Gimbal width	100 mm
Surface	Lacquered
Product weight (per item)	48.79 kg
Length	4 m
Load capacity	6000 kg



**Art. no. 5162 610 144**

**2-strand chain-lift, QC 10**

**Lifting chain with fork head load hooks, without shortener unit.**

- Chain-lift in accordance with EN 818-4.
- With brown painted chain.
- Chain attachment parts painted orange.
- All components have an H-stamp prescribed by the professional association.
- Each chain-lift receives a traceable chain number with a matching chain index card.
- There is a UVV plaque on each lift in order to track periodic inspections.

Load capacity from 0-45 degree	5600 kg
Load capacity from 46-60 degree	4000 kg
Effective length	1 m
Quality class	10
Nominal diameter	10 mm
Shape of the hook	Fork head hook
Material	Steel
Gimbal height	160 mm
Gimbal width	90 mm
Product weight (per item)	11000 g



**Art. no. 5162 610 121**

**Ratchet strap with long-lever ratchet**

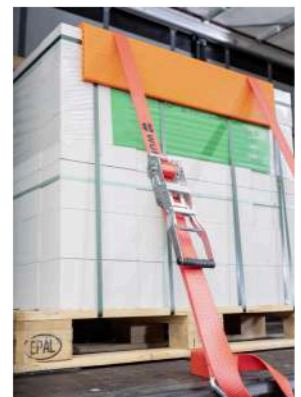
**GS-approved safety, double-pointed hook.**

- Tensioning ratchet.
- No premature discard or wear due to inner label.

Design	Two-piece
Width (B)	50 mm
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	5000 daN
Permissible LC tensile force when pulled directly	2500 daN
Pre-load	500 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	Double pointed hook
Colour	Red
Standards	EN 12195-2



Length (L)	Art. no.
8 m	5713 91 112
10 m	5713 91 122
12 m	5713 91 132



# A/C SERVICE



## Air conditioning service unit, vehicle COOLIUS® A05

Fully automatic, mobile companion for air conditioning servicing on R134a units.

- **Simple operation and unique mobility**

- Fully automatic air-conditioning service unit.
- Innovative trolley construction enables easy mobile use.
- Convenient menu navigation and operation via buttons.

- **Easy-to-maintain components**

- Robust metal construction.
- The use of high-quality and specially coordinated components enables a long service interval time.

**Art. no. W050 100 572**



## O-ring For vehicle air-conditioning systems

Material	Hydrogenated acrylonitrile butadiene rubber
Shore A hardness	70

Width	Inner Diameter	Part Number
1.78 mm	10.82 mm	0764 000 043
1.78 mm	14 mm	0764 000 044
2 mm	8 mm	0764 000 211
2 mm	14 mm	0764 000 193
2 mm	16.5 mm	0764 000 519
2 mm	17 mm	0764 000 194
2.4 mm	13.5 mm	0764 000 509
2.4 mm	14.3 mm	0764 000 517
2.4 mm	24 mm	0764 000 525
2.5 mm	13.7 mm	0764 000 524
2.62 mm	9.19 mm	0764 000 174
2.62 mm	10.77 mm	0764 000 179
2.62 mm	13.94 mm	0764 000 181
2.62 mm	15.54 mm	0764 000 538
3.53 mm	20.22 mm	0764 000 166



**REFRIGERANT R 134A**

- Standard disposable filling can, 13.6 kg.
- Its specific properties mean that it does not harm metal compounds.
- Non-toxic, colourless, odourless and flavourless.
- Non-flammable and non-explosive.
- Does not harm the environment or the ozone layer.

**Art. no. 0892 764 004**



**Multigrade compressor oil Pro**

**High-value synthetic oil with additive specifically tailored for use in air-conditioning compressor technology.**

- Compatible with following refrigerants: R-23, R-125, R-134a, R-1234yf, R-227, R-413a, R-407c, R-410a, R-404a, R-507.
- Can be mixed with PAG oil and ester oil.
- Excellent lubricating effect.
- Longer compressor service life.
- High level of refrigerant compression in the compressor

Contents	1000 ml
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**Art. no. 0892 764 123**



**Premium UV leak detection additive**

**Fluorescent additive for locating leaks in R134a, R1234yf and R744 air-conditioning systems in accordance with SAE J2297.**

- Sufficient for 32 applications in a car or 16 applications in a lorry.
- Compatible with PAG and ester oil.
- High proportion of fluorescent ingredients.
- Does not damage O-rings and seals

Contents	240 ml
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**Art. no. 0892 764 034**



**Leak detector**

**Searching for leaks easier than with standard blue light UV-A long-waves generate true UV light**

- Searching for leaks easier than with standard blue light UV-A long-waves generate true UV light.
- Very rugged design with extremely high corrosion resistance.
- Housing of high-quality 6061 T6 aluminum alloy".

Number of pieces in assortment/set	3 PCS
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**Art. no. 0964 764 096**

## Leak detector Plus

**Leak-detection foam for identifying non-tight areas, micro-leaks and hairline cracks safely and quickly.**

- Easy and quick to apply.
- Reliable diagnosis within a short period of time.
- The smallest leaks and those leaks that only occur under high stresses are easy to find.
- Non-flammable - also possible to detect leaks in flammable gases.
- Temperature application range (-15 °C to +50 °C), tested in accordance with DIN51421.
- Can be used in cold ambient temperatures.
- Suitable for cryogenic gases.
- pH-neutral.
- Metals are not attacked.
- No stress corrosion cracking on plastics such as PVC or PE.
- Non-corrosive.
- Not harmful to health.
- Compatible with oxygen.

Contents	0.4 l
Colour	Clear
Smell/fragrance	Mild
Chemical basis	Water tenside
Shelf life from production	24 Month



**Art. no. 0890 27**

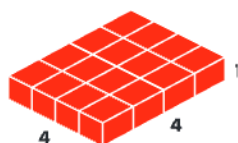
## O-ring assortment For cargo vehicles 310 pieces

Number of pieces in assortment/set	310 PCS
------------------------------------	---------

**ORSY**

**Art. no. 5964 764 035**

Compatible with ORSY storage system.



4.4.1



Contents for art. no.	
5964 764 035	O-ring For vehicle air-conditioning systems: <b>20 x</b> 7.65 x 1.78 mm, <b>20 x</b> 10.82 x 1.78 mm, <b>20 x</b> 14 x 1.78 mm, <b>20 x</b> 17.17 x 1.78 mm, <b>20 x</b> 9.25 x 1.78 mm, <b>20 x</b> 7 x 1.50 mm, <b>20 x</b> 20.22 x 3.53 mm, <b>20 x</b> 4.47 x 1.78 mm, <b>20 x</b> 6.60 x 2.00 mm, <b>20 x</b> 21.82 x 3.53 mm, <b>20 x</b> 4.70 x 1.42 mm, <b>20 x</b> 6 x 1.63 mm, <b>20 x</b> 7.65 x 1.63 mm, <b>10 x</b> 19.69 x 2.03 mm, <b>10 x</b> 13.94 x 2.51 mm, <b>10 x</b> 15.88 x 1.60 mm, <b>20 x</b> 18.72 x 1.62 mm

## **Radiator sealant For all engines with cooling systems without filter system\***

**300 ml is sufficient for 10 litres of coolant.**

- Permanently seals hairline cracks and leaks.
- Prevents loss of cooling water.
- Does not affect the materials used in the radiator construction.

**Art. no. 5861501300**



## **Radiator cleaner**

**Suitable for all engines.**

- Suitable for all engines.
- Removes corrosion and sludge deposits in the cooling circuit.
- Neutralises lime residues.
- Compatible with anti-freeze.

**Art. no. 5861510001**



## **Radiator cleaner**

**Suitable for all engines.**

- Suitable for all engines.
- Removes corrosion and sludge deposits in the cooling circuit.
- Neutralises lime residues.
- Compatible with anti-freeze.

**Art. no. 5861510250**



## **Air conditioning disinfectant spray**

**For cleaning and disinfecting vehicle air-conditioning systems.**

- Disinfects, cleans and protects.
- Extra-long hose with special nozzle for direct application to the air-conditioning unit heat exchanger.
- Effectiveness certified by external institute.

**Art. no. 089376410**



## **Auto sanitisation kit**

**Vehicle air conditioning system and passenger compartment cleaning and sanitisation kit.**

- Convenient kit.
- Single dose per vehicle.
- Quick and cost-effective application.

**Art. no. 0892764999**



# M-CUBE

## Cordless power tools bag set 18 V M-CUBE ABS/ABH/AWS COMPACT M-CUBE

Consisting of three power tools including a bag.

- All units have continuous motor monitoring and a long motor service life:
  - The electronic motor protection function switches the motor off ahead of time in the event of blockage, overloading or overheating.
  - Efficient, low-maintenance, brushless EC motor with power reserves, maintains a more stable speed curve even under load.

### • ABS 18 COMPACT

Maximum service life and low wear due to 13 mm Röhmmetal chuck with soldered carbide clamping jaws.

### • ABH 18 COMPACT

Comfortable, low-fatigue working due to the compact and ergonomic design with anti-vibration handle.

### • AWS 18 COMPACT

Safe working thanks to the dead man's switch and the brake function that stops the disc quickly when the switch is released.



Number of pieces in assortment/set	8 PCS
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Art. no. 5701 440 025

Contents for art. no.	
5701 440 025	1 x Machine bag with plastic bottom; 1 x Cordless angle grinder AWS 18-115 P COMPACT M-CUBE; 1 x Cordless hammer drill ABH 18 COMPACT M-CUBE 0 Ah; 1 x ABS 18 COMPACT M-CUBE cordless drill/driver Batteries not included in box; 3 x Rechargeable battery Li-ion 18 V BASIC M-CUBE; 1 x ALG 18 V M-CUBE charger

**Cordless multi-functional dry vacuum cleaner  
AMTS 18 L COMPACT M-CUBE**

**Compact and portable multi-purpose battery vacuum cleaner with L certification and manual filter cleaning for mobile use.**

- Two power levels: Max mode for maximum power or Eco mode for longer runtime per battery charge.
- Suitable for vacuuming up and extracting chips, dust and drill cuttings.
- Multi-purpose: Blow function for blowing out and drying.
- Dust class L certification guarantees a dust collection efficiency of 99% in accordance with EN 60335-2-69.

Air current	20 l/s
Underpressure	11 kPa
Bin capacity	4 l
Dust class	L
Nominal width	35 mm
Product weight (per item)	3.3 kg

**Art. no. 5701 400 000**



**M-CUBE**  
BATTERY-SYSTEM

**Rechargeable battery Li-ion 18 V BASIC M-CUBE**

**Compact, powerful and long-lasting 18-volt Li-ion battery for professional and universal use with the new Würth cordless tools.**

- Tight fit and optimal heat removal.
- Long service life and optimum utilisation of output.
- Protection of the battery and the workpieces.
- Continuous monitoring of the remaining battery capacity.

Nominal voltage	18 V/DC
Rechargeable battery/battery capacity	5 Ah
Weight of rechargeable battery/battery	695 g
Suitable chargers	ALG 18/4 BASIC, ALG 18/6 FAST

**Art. no. 5703 450 000**



**M-CUBE**  
BATTERY-SYSTEM

**ALG 18 V M-CUBE charger**

**Suitable for Li-Ion 18 V BASIC M-CUBE rechargeable batteries.**

- For charging the Li-ion 18 V M-CUBE BASIC rechargeable battery.

Type description	ALG 18/6 FAST
Min./max. output voltage	18-18 V/DC
Suitable batteries	M-CUBE 18V
Max. charging current	6 A
Cable length	1.5 m
Min./max. frequency	50 / 60 Hz

**Art. no. 5705 860 000**



**M-CUBE**  
BATTERY-SYSTEM

# HANDTOOLS



## 1/2 inch bit sockets Assortment of 11 pieces

For hexagon socket screws, professional quality ZEBRA® tool.

- Compact, 1/2-inch socket wrench assortment, 11 pieces.
  - The robust metal box with handle and clip fastening has a virtually indestructible hard foam insert with clamping effect.
  - Valuable tools remain safely in place during transport.
  - Missing tools can be spotted at a glance.
- Ten bit sockets with hexagon output for the most important sizes.
  - The reversible ratchets have an ergonomic, robust plastic handle for comfortable and safe working.
  - Can be reversed with one hand using the turntable.
  - The small 5° arc swing enables quick and effortless tightening or loosening of the screws.
- Powerful, efficient fastening operation.
- Particularly high quality for a long service life.
  - With proven chromium-vanadium steel.
  - The surfaces are chrome-plated and have a satin matt finish, which ensures a secure grip even with oily hands.
  - The surface is permanently resistant to rust and ensures a far longer than average service life.



Number of pieces in assortment/set	11 PCS
Width x height x depth	315 x 40 x 115 mm

Art. no. 0965 13 023

**Multi-socket wrench, 1/2 inch 23 pieces**

**Practical metal box for workshop applications and mobile use, professional-quality ZEBRA® tool**

- Practical 23 piece assortment of multi-drive sockets in a metal box.
- This assortment includes basic equipment that is ideal for use in the workshop and for mobile use.
- The robust metal box with handle and clip fastening has a virtually indestructible hard foam insert with clamping effect.
- Valuable tools remain securely in place during transport.
- You can see straight away if any tools are missing.
- One tool fits all: Multi-drive sockets for five different drives.
- Each of the short bi-hex sockets fits hexagon metric, square metric, bi-hex metric, hexagon inch and external TX screw heads.
- The assortment includes 19 AF sizes from 10 to 32 mm.
- This makes it suitable for almost all screwing tasks.
- Powerful and efficient tightening.
- The two rigid extensions can be used to transfer force directly.
- The reversible ratchet has an ergonomic, robust plastic handle for comfortable and safe working.
- The small 5° arc swing enables quick and effortless tightening or loosening of the screws.
- The turntable is used to easily switch between clockwise and anti-clockwise rotation.
- Particularly high quality for a long service life.
- The surfaces are chrome plated and polished.
- The surface provides lasting resistance against rust and ensures a far longer than average service life.
- The durability of the tools reduces costs for replacement and storage.



Number of pieces in assortment/set	23 PCS
Included in delivery	19 x multi-socket wrenches, 1/2 inch, short, sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32, 1 x reversible ratchet, 1/2 inch, 2 x extensions 1/2 inch, 125 mm, 250 mm, 1 x cardan joint, 1/2 inch
Width x height x depth	405 x 50 x 160 mm

**Art. no. 0965 13 023**



### 1/2 inch socket wrenches Assortment of 24 pieces

Practical metal box for workshop applications and mobile use, professional quality ZEBRA® tool.

- Practical 24 piece 1/2 inch socket wrench assortment.
- Powerful and efficient tightening.
- Particularly high quality for a long service life.

Art. no. 096501224



### 1/2 inch socket wrenches Assortment of 21 pieces

Bi-hex, professional-quality ZEBRA® tool.

- Powerful and efficient tightening.
- Particularly high quality for a long service life.
- 16 socket wrenches with bi-hex output for the most popular sizes.

Art. no. 096513 20



### 1/2 inch and 1/4 inch socket wrenches Assortment of 56 pieces

1/4 + 1/2 inch socket wrench assortment, 56 pcs.

Art. no. 096517 56



### Multi-socket wrench 1/4 inch Assortment of 33 pieces

Practical metal box for workshop applications and mobile use, for the five most common screw head drives, professional-quality ZEBRA® tool.

- Practical 33 piece assortment of multi-drive sockets in a metal box.
- One tool fits all: Multi-drive sockets for five different drives.
- Powerful and efficient tightening.
- Particularly high quality for a long service life.

Art. no. 096511 032



### 1/4 inch sockets Assortment of 42 pieces

Sockets and bits, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Comprehensive assortment of 42 pieces in a metal box.
- Perfect for many practical applications.
- Powerful and efficient tightening.
- Particularly high quality for a long service life

Art. no. 096511 42



### 1/4 inch socket wrenches Assortment of 16 pieces

Practical metal box for workshop applications and mobile use, robust design with dust-protected ratchet, professional-quality ZEBRA® tool.

- Practical 16 piece assortment in a sturdy metal box.
- Matching sockets for the most common screw connections.
- Powerful and efficient tightening.

Art. no. 096511 16



### 1/4 inch socket wrenches Assortment of 33 pieces

Hexagon, short shape, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Comprehensive 33 piece assortment in a sturdy metal box.
- Matching sockets and bits for almost any screw.
- Powerful and efficient tightening.
- Particularly high quality for a long service life.

Art. no. 096511 32



### 1/4 inch socket wrenches Assortment of 20 pieces

Socket wrench for TX screws, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Extensive assortment of 20 pieces in a metal box.
- Perfect for many practical applications.
- Powerful, efficient fastening operation.

Art. no. 096511 180



### 1/4 inch socket wrenches Assortment of 32 pieces

Socket wrench with pressed-in bits, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Comprehensive 32 piece assortment in a sturdy metal box.
- Matching sockets for the most common screw connections.
- Powerful and efficient tightening.

Art. no. 096501432



### Multi-socket wrench 1/4 inch Assortment of 34 pieces

Practical metal box for workshop applications and mobile use, professional-quality ZEBRA® tool.

Art. no. 096501434



## 1 inch socket wrench assortment metric

- Practical 13 piece assortment of 1 inch sockets in a metal box.
- Sockets with metric output and 1 inch drive.
- Powerful and efficient tightening.
- Particularly high quality for a long service life.

**Art. no. 096515 12**



## Socket wrench, hexagon, 3/4 inch Assortment of 15 pieces

**Metric socket wrench for POWERDRIV®, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.**



**Art. no. 096514 15**

## Socket wrench, bi-hex, 3/4 inch Assortment of 15 pieces

**Metric socket wrench, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.**

- Practical 15 piece assortment in a sturdy metal box.
- Perfect for many practical applications.
- Powerful and efficient tightening

**Art. no. 096514 150**



## 3/8 inch socket wrenches Assortment of 16 pieces

**Practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.**

- Compact, basic assortment of 16 pieces in a sturdy metal box.
- Matching sockets for the most common screws.
- Powerful and efficient tightening.
- Particularly high quality for a long service life.

**Art. no. 096512 160**



## Socket wrench 3/8 inch Assortment of 19 pieces

**Socket wrench for TX screws, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.**

- Extensive assortment in metal box, 19 pieces.
- Perfect for many practical applications.

**Art. no. 096512 190**



### 3/8-inch socket wrench assortment 19 pieces

Imperial socket wrench, practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Extensive assortment in metal box, 19 pieces.
- Perfect for many practical applications.
- Powerful, efficient fastening operation.

Art. no. 096512 19



### 3/8 inch socket wrenches Assortment of 34 pieces

Basic assortment in a practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Comprehensive 34 piece socket assortment in a metal box.
- Perfect for many practical applications.
- Powerful and efficient tightening.
- Particularly high quality for a long service life.

Art. no. 096512 34



### 3/8 inch socket wrenches Assortment of 42 pieces

Large assortment in a practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Comprehensive 42 piece assortment of 3/8 inch sockets in a metal box.
- Perfect for many practical applications.
- Powerful and efficient tightening.

Art. no. 096512 42



### 3/8 inch socket wrenches Assortment of 19 pieces

Basic assortment in a practical metal box for workshop applications and mobile use, robust design, professional-quality ZEBRA® tool.

- Practical 19 piece socket assortment in a metal box.
- Perfect for many practical applications.
- Powerful and efficient tightening.

Art. no. 0096503819



### Multi-socket wrench 3/8 inch Assortment of 22 pieces

Practical metal box for workshop applications and mobile use, with multi-socket wrenches, professional-quality ZEBRA® tool.

- Practical 22 piece assortment of multi-drive sockets in a metal box.
- Powerful and efficient tightening.

Art. no. 096512 022



# WORKSHOP EQUIPMENT

## Truck tyre changer 14" - 56"

**Universal tyre changer suitable for any truck and heavy-duty wheel equipped with two speed chuck.**

- Two speed hydraulic chuck, with 5 different rim locking points.
- Movable control unit.
- Hand movable tool holder.
- 1 Year Warranty on issues of material and production.

Min./max. rim diameter	14-56 in
Max. rim width	90.5 in
Side-shovel bead loosener	Yes

**Art. no. 0715 901 303**



## AUTOMATIC TIRE CHANGER 12"-24"

**Automatic tyre changer suitable for car and motorcycle "need accessory for motorcycle" with turntable double speed bidirectional rotation system with hand switch control.**

**• Features:**

- Tilting vertical arm with pedal control
- Pneumatic system for locking the operating arm
- Bead-breaker with double effect pneumatic cylinder
- Oversize body
- Extractable pedal unit
- Double turntable speed

**• 1 Year Warranty**

on issues of material and production



Min./max. rim diameter	Max. rim width	Art. no.
10-24 in	24 in	0715 901 205
12-24 in	14 in	0715 901 215

### Wheel balancer WB 301

- Digital wheel balancer.
- Digital display.
- Automatic measurement of distance, diameter and width (sonar).
- LED lighting inside the rim.
- Laser spotter to indicate correct positioning of weights in rim bed.



**Art. no. W343200301**

### Pneumatic floor jack 60/40/20T

#### European style.

- Design for professional workshop and intensive use.
- Long service lifetime thanks to premium surface finishing.
- Dead man's control and multi-position locking handle ensures extra safety.
- 3 stages including 2 extensions to adapt the expected lifting height and close the gap between the saddle of jack and jacking point of vehicles.

Load capacity	60 t
Min. height (A)	177 mm
Max. height (B)	297 mm
Width	295 mm
Length	875 mm
Colour	Red
Material	Stainless steel/aluminium
Product weight (per item)	64 kg

**Art. no. 0715 540 619**



### Hydraulic bottle jacks Basic

#### Robust equipment for vehicle and load lifting in the garage with a reduced footprint and vertical orientation.

- Preventing from oil leakage.
- Steel frame instead of cast iron for environment protection.
- Oil remains clear after using.
- Trucks and industrial van use as emergency portable tool.

**Art. no. 0715 54 410**

**Art. no. 0715 540 420**

**Art. no. 0715 540 432**

**Art. no. 0715 54 450**



### Garage jack cargo heavy duty

- Maximum durability.
- Easy access lift point.
- Safety overload system.
- Quick set-up and rise.

**Art. no. 0715 54 313**

**Art. no. 0715 54 314**



### Low profile jack 2t

**low access height of only 70mm.**

- Fitted with quick lift foot pedal and heavyduty chassis which ensure stability and edurance.
- Thanks to one-piece hydraulic unit with built-in safety overlaod protection that helps prevent accidental lowering.
- Easy mobility with robust swivel rollers.

**Art. no. 0715540321**

**Art. no. 0715 540 371**



### Low profile jack 2t

**Double wheels design.**

- Smoother mobility and protect workshop floor with minimal damage.
- Protective jack handle sleeve. ensures unexpected damage on bodywork while pumping the handle.
- Bigger size of rubber saddle pad and magnetic tools tray for maintenance part.

**Art. no. 0715540328**



### Transmission jacks

- Reinforced steel base.
- Foot pedal.
- Chrome base.
- Adjustable height.

**Art. no. 071597 006**



### Waste oil drainer Multi-function

**Combination function of both gravity and suction draining with chamber.**

- Sideal for quick engine oil change of any motor vehicle.
- Suck hot oil at 70-90 degree is recommended Technical Data.

**Art. no. 0715930914**



### Jump starter, 12/24 V

Professional jump starter for mobile slave starting of vehicles with 12V and 24V electrical system.

- Powerful and user-friendly.
- Added safety.
- Scope of delivery.

Suitable for max. cubic capacity	4000 cm <sup>3</sup>
Rechargeable battery/battery capacity	46 Ah
Max. current	4400 A
Nominal current	1800 A
Width x height x depth	355 x 385 x 200 mm
Type of rechargeable battery/battery	AGM battery
Rechargeable battery/battery permanently installed	Yes
Number of rechargeable batteries/batteries	2 PCS
Material of housing	Rubber
Colour	Black
Type description	WPS 1224-900
Display	Digital



Art. no. 0772 955 616

### HIGH-PRESSURE CLEANER HDR 170 BASIC

Powerful cold water high-pressure cleaner with hose reel, for light duty cleaning jobs on an average of 1-2 hours per day.

- Work comfortably thanks to the easy-to-store high-pressure hose.
- Solid ceramic plunge.
- Triplex plunger pump.
- Rubberized wheels.
- Self-Suction bottle.
- Built-in hose reel.
- 05 Nozzles Tips.
- Total stop system.
- 1000 ML attachable foam jet bottle.
- 10m hose reel.

Nominal voltage	230 V
Power input	2500 W
Max. pressure	170 bar
Operating pressure	130 bar
Min./max. feed quantity	0-432 l/h
Hose length	10 m
Weight of machine	21.7 kg
Cable length	5 m



Accessories setting



Built-in hose



Mode switching



Self-suction

Art. no. 0965 13 023

## Rechargeable LED hand-held lamp Ergopower Blade

### Flexible LED hand-held lamp with narrow lamp head.

- Switching sequence – Spot light/Main light/Off.
- Main light with dimming function – press and hold the button.
- When the lowest or highest light level is reached, the light flashes briefly.
- Main light levels can be dimmed from 100 to 1000 lumens.
- With charge status indicator.
- Narrow lamp head for use in tight spaces – 9 mm width.
- The lamp head can be rotated 120°.
- Magnet and mounting hook on the underside of the lamp.
- With USB C charging port.
- USB power supply and USB-C cable included in scope of delivery.

Luminous flux main light	1000 lm
Luminous flux side light	150 lm
Colour temperature	6000 K
Min./max. luminous period	2-10 h
Luminous period of secondary light	9 h
Charging time	4 h
IP protection class	IP 65
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	2600 mAh



Art. no. 0827 940 310

## Cordless LED hand-held lamp ERGOPOWER BEND+

### Slim hand-held lamp with rotating and folding lamp head, COB LED, dimming function, magnet, hook.

#### • Work environment under control

- Ideal for hard-to-reach areas due to its slim design and 180° folding and 270° rotating, multifunctional, 21 x 9 mm lamp head.
- Flexible attachment to all metallic surfaces thanks to a strong magnet in the base of the lamp.
- Easy suspension of the light thanks to a sturdy, folding metal hook.
- Practical torch function.
- Quick identification of the residual capacity, charge level and the light intensity in % on the digital display.

#### • Easy to use

- Wireless charging is possible using the optionally available charging plate ERGOPOWER PAD I or II.
- Can be charged via both the USB-C charging port and wireless charging.
- Automatic switch-off of the main light as soon as the lamp head is folded in with its light output side towards the lamp body.
- Short charging time and long light duration due to state-of-the-art lithium-ion rechargeable battery technology.

#### • Scope of delivery

- Hand-held lamp, USB-A/USB-C cable, 100-240 V 50/60 Hz power supply.



Luminous flux main light	700 lm
Luminous flux side light	100 lm
Min./max. luminous period	2-10 h
Luminous period of secondary light	7 h
Charging time	3.5 h
Impact resistance	IK07
IP protection type, lamp	IP 54
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	2600 mAh

**Art. no. 0965 13 023**

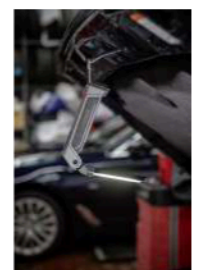
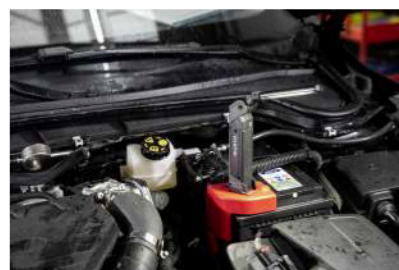
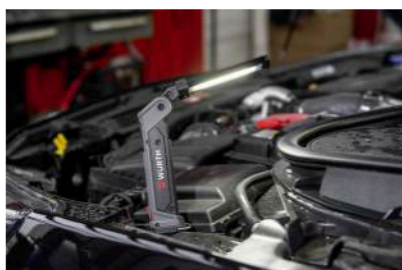


Residual capacity/state-of-charge indicator, light intensity in %



Lamp with optional wireless charging plate ERGOPOWER PAD I or II

## Application



**ECOLINE cleaning paper**

**The all-rounder for the most common cleaning tasks.**

- Highly absorbent.
- Fits all common dispensers.
- In various plies and widths.
- Low lint.
- High absorption capacity and tear-resistant.
- Certified with the EU Ecolabel.

Our products with the EU Ecolabel seal are resource-conserving and environmentally friendly. The EU Ecolabel seal certifies the use of sustainable cultivation resources and defines clear requirements.



Material	Cellulose
Design	Roles ware
Number of sheets	1000 PCS
Number of plies	2 PCS
Sheet length x sheet width	36 x 38 cm
Length of roll	360 m

**Art. no. 0899 800 773**

**Cleaning paper stand**

**Floor stand for cleaning paper rolls with wheels and waste bag holder**

- Stable and durable.
- Suitable for all common wiper and cleaning rollers.

Material	Plastic / metal
Design	With wheels and rubbish bag holder
Width	56 cm
Height	88 cm
Depth	68 cm
Roll width	38 cm

**Art. no. 0899 800 606**



# WELDING

## MIG WELDING INVERTER MIG/MAG 250

**Digitally controlled new technology IGBT inverter for MIG welding.  
Stepless induction adjustment. Big 15kg weight MIG/MAG wire spool.**

- 2 in 1.
- Two different welding modes - MIG and STICK (electrode).
- NO GAS function.
- No GAS function provides outdoor work with gasless welding wire.
- Euro plug.
- Euro plug with Abicor Binzel MB 24KD torch as a standard accessory.
- Heat insulation.
- Heat insulation class „H“ – electric components can work at temperatures up to 180°C.
- IGBT technology.
- IGBT technology provides continual welding under unstable voltage (powered by generators).
- Stepless induction adjustment.
- Standard MIG machines do not have induction adjustment option. Some new welding machines have an option to adjust induction in three different steps.
  - Wurth MIG/MAG 250 machine has potentiometer for stepless induction adjustment.
  - Induction adjustment can provide good looking weld seam with minimum spattering.
- Mains fuse.
- Machine requires only 16A mains fuse.

Nominal voltage	380 V/AC
Min./max. current	50-250 A
ON time at max. current (40°C)	60 %
Cable length	3.5 m
Weight of machine	41 kg
Width	46.7 cm
Height	76.8 cm
Length	90.7 cm
IP protection class	IP 21
RoHS-compliant	Yes
Main fuse	16A

**Art. no. 5952 001 250**



## TIG WELDING INVERTER TIG 200S PULSE

**Digitally controlled DC TIG inverter with latest IGBT technology and High frequency pulse mode.**

- Contact and high-frequency ignition.
- HF ignition possible via push button, switchable to conventional contact ignition.
- 3 in 1: TIG 200 pulse welding modes.
  - TIG DC.
  - HF TIG DC pulse.
  - MMA Stick.
- Heat insulation.

Heat insulation class „H“ – electrical components can work on temperatures up to 180°C.

- IGBT technology.
- IGBT technology provides flawless welding under unstable voltage (powered by generators).
- Adjustments for precise welding of thin metal sheet:
    - High frequency pulse mode provides precise welding seam on thin metal sheet or pipe.
    - Adjustments available: pre/post gas flow, starting/ending current, upper/lower current in pulse, pulse frequency, pulse width.



Nominal voltage	230 V
Weldable electrodes	1.5 - 5 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	20-200 A
Min./max. TIG welding current	5-200 A
ON time at max. current (40 °C)	20 %
Product weight (per item)	15 kg
Height	407 mm
Width	250 mm
Length	556 mm
IP protection class	IP 21
Max. TIG welding current	200 A

**Art. no. 5952 380 200**



**WSH III 5-13 automatic welding helmet For professional welders**

- Recessed viewing window for preventing scratches.
- Very comfortable to wear thanks to low weight.
- Special smoke-repellent design.
- Control unit outside the helmet.
- Protection levels 5 and 13 infinitely adjustable.
- Infinitely adjustable sensitivity.
- Grinding mode.
- Suitable for overhead welding.



Translucency when not activated	Protection level 4
Translucency when activated	Protection levels 5-9 and 9-13
Cassette width x cassette height x cassette thickness	110 x 90 x 9.5 mm
Width of field of vision x height of field of vision	100 x 50 mm
Energy supply	Solar cells and 2 replaceable 3 V button cells (CR2032)
Standards	EN 379
Material	PA - Polyamide
Min./max. dark-to-light switching time	0-0 d
Colour	Black
Min. dark-to-light switching time	0 d
Product weight (per item)	1003 g
Light-to-dark switching time	0 d



**Art. no. 0984 690 030**

**Welding goggles FORNAX®plus**

**Maximum protection in an innovative design.**

- Optimum protection for the eye area.
- Special lens technology with high-quality coating.
- Innovative arm technology.
- Clever design.

Protection level	5
Material of safety lens	Polycarbonate
UV and IR protection	Yes
EN standard	166, 169
Mechanical strength	F (45m/s)
Colour of safety lens	Grey



**Art. no. 0984 502 250**

## Welding cap WSC 9-12

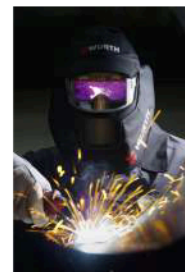
**Lightweight, comfortable glare protection with automatic darkening.**

- Lightweight and very comfortable.
- Lightweight textile materials.
- Increased comfort and minimum stress on the neck muscles thanks to balanced weight distribution.
- Can be adjusted to fit any head size.
- Optimum protection.

Optimum coverage of face, neck and ears to prevent burns.

- Anti-glare cassette.
- Continuous adjustment of protection levels from DIN 9-12.
- Grinding mode to switch off the cassette for flicker-free grinding.
- Extended field of vision through nose cut-out in anti-glare cassette.
- Replaceable batteries.
- Universal application.

For all arc welding methods: Electrode welding, MIG/MAG, flux-cored wire welding, TIG welding.



Translucency when not activated	Protection level 3
Translucency when activated	Protection level 9-12
Weight	425 g
Approval mark	CE, ANSI, AS/NZS
EN standard	166, 175, 379
Energy supply	2 replaceable 3 V button cells (CR2032)
Min./max. operating temperature	-10 to 60 °C

**Art. no. 0984 700 300**

## Welding glove Pro

**Robust welding glove with reinforced palm and thumb strap for universal purpose.**

- High quality selected cowsplit leather.
- Palm and the thumb strap are reinforced for durability.
- Full lining consists of soft cotton jersey and cotton drill cuff lining.
- All seams are fully welded and sewn with fire retardant thread- aramid fiber.
- Conforms to EN ISO 420/EN388/EN407.

Size	10
Length	406.4 mm
Material	Leather
Material thickness	1.2 mm
Tolerance, material thickness (+/-)	0.1 mm
Standards	ISO 21420:2020 EN 388 EN 407
Category	II
Colour	Black with red contrast, Grey



**Art. no. 0984 310 002**

## Perfect weld spray

**Biological anti-spatter spray for aluminium, structural steel, non-ferrous heavy metals, stainless steels and welding torch nozzles.**

- Prevents burning-on of weld splatter on stainless steel, steel and other metals and on welding torch nozzles.

Contributes towards optimum welding work. Prevents starting points for corrosion

- Does not run off.

The thixotropic effect also adheres the active agent to vertical surfaces without running off or forming droplets.

- Harmless when subsequently zinc-plating and painting.
  - Disruptive crack products are avoided due to the minimal proportion of organic substances.

This allows welding residues to be removed effortlessly.

- Any subsequent zinc-plating or painting is then easily possible.

- Cooling effect.

The cooling effect minimises discolouration when welding stainless steel.

- Silicone-free.

Subsequent treatments such as painting are not adversely affected.

- Corrosion protection.

The thin film simultaneously acts as temporary corrosion protection.

- Solvent-free.

Free from CHCs and other solvents.



Contents	400 ml
Colour	White
Container	Aerosol can
Chemical basis	Rapeseed oil emulsion
Shelf life from production	24 Month

**Art. no. 0893 102 100**



# TECHNICAL CHEMICALS

## Bodywork cleaning agent WNC 70

**Powerful universal cleaner for trucks and boats.**

### • Trucks/TP/agriculture

- Removes even the most stubborn dirt, especially on tarpaulins. Effectively removes road dirt and insect residues.
- Removes soiling caused by industrial and urban pollution without mechanical aids.
- Prevents paint from tarnishing due to frequent washing.
- Easy and streak-free rinsing.
- Provides a perfect shine.
- Contains a corrosion inhibitor.
- Does not attack seals and delicate parts of the vehicle.

### • Shipping

- Multi-purpose cleaning agent that enables the cleaning of decks, hulls and tarpaulins.
- Removes salt deposits on decks, fabric and plastic tarpaulins.
- Effectively cleans water marks, does not attack delicate surfaces.
- Without toxic solvents.

Contents	25 l
Container	Canister
Chemical basis	Mixture of surfactants and selected complex compounds
Colour	Transparent
Density/conditions	1.053 g/cm <sup>3</sup> / at 20 °C
Shelf life from production	36 Month

**Art. no. 0893 048 025**



## Brake cleaner 60LTR

**For cleaning and degreasing during maintenance and repair work**

- Fast flash-off behaviour and excellent cleaning performance.
- Fast and effective removal of soot, grease, brake dust and oily residues.
- Residue-free cleaning.
- Acetone-free.

High degree of material compatibility with paints, plastics, seals and rubber.

- AOX- and silicone-free.

Chemical basis	Naphtha
Shelf life from production	24 Month



Contents	Container	Smell/fragrance	Art. no.
500 ml	Aerosol can	Solvent-like	0890 108 7
20 l	Canister	Characteristic	0890 108 716

## Industry Clean cleaner

**High-quality special cleaner for removing adhesive tape residue, labels and film stickers as well as stubborn dirt. NSF-certified.**

- Effective.
- Gentle on materials, delicate surfaces such as aluminium, brass and stainless steel are not damaged.
- User-friendly.
- Acetone-, silicone- and AOX-free.

**Art. no. 089314005**



## Sticker-Ex

**Gel-based cleaner with citrus fragrance for easy removal of adhesive residue, labels and adhesive tape.**

The adhesive effect of the gel allows a significantly longer contact time for the solvent, resulting in improved cleaning performance compared to liquid cleaners.

**Art. no. 0893140505**



## Assembly cleaner Parts Cleaner Liquid

**VOC-free cleaning liquid for the PARTS CLEANER parts washing device and pump spray bottle. NSF-certified.**

- Contains no volatile organic components.
- Excellent cleaning power.
- Good material compatibility.
- AOX-free.

**Art. no. 0995000001**



## Multiclean cleaning liquid

**For cleaning and temporary lubrication in physiologically and ecologically sensitive areas. NSFcertified.**

- Can be used in areas in which food is processed or stored, NSF H1 and K1.
- Good cleaning and degreasing performance.
- Good material compatibility.
- Acetone-free.

**Art. no. 08901096**



## Rapid Cleaner cleaning agent

**Concentrated multi-purpose cleaner with very good grease and oil dissolving power in 200-litre disposable drum.**

- Fast and powerful cleaning
- Does not contain water and therefore NOT corrosive
- High yield, which reduces costs
- Economical to use due to closed system

**Art. no. 09952**



## Sticker-Ex

**Gel-based cleaner with citrus fragrance for easy removal of adhesive residue, labels and adhesive tape.**

The adhesive effect of the gel allows a significantly longer contact time for the solvent, resulting in improved cleaning performance compared to liquid cleaners.

**Art. no. 0893140505**



## BMF workshop cleaner

**Environmentally friendly cleaner for workshops, machinery and vehicles.**

- No phosphates, solvents or corrosive substances
- Can be used mechanically, manually or in high-pressure devices
- Powerful at dissolving greases, yet mild and gentle on materials
- Does not attack paints, rubber or plastics
- pH value: 9.4
- Silicone-free
- AOX-free

**5LTR Art. no. 08931182**

**20LTR Art. no. 08931182**



### Bodywork cleaning agent WNC 40

Shampoo for frequent vehicle washing with manual intervention and where the bodywork must be handled with special care.

- Improved shine.
- Excellent wetting action.
- NTA-free.
- Available in ecocube version.

Art. no. 0890470



### Wheel rim cleaner PURPLE

Automatic tyre changer suitable for car and motorcycle "need accessory for motorcycle" with turntable double speed bidirectional rotation system with hand switch control.

- Professional formulation.
- Restoring and protective effect.
- Economical.

Art. no. 0893477008



### Rim cleaner highly concentrated

Rim cleaner highly concentrated

5LTR      Art. no. 0893000055  
25LTR     Art. no. 0893 250 025



### Intensive wheel rim cleaner For all painted and unpainted light metal wheel rims and steel rims

Excellent cleaning performance thanks to gelformula

- No run-off, allowing the product to take full effect
- Effectively loosens even the most stubborn contamination, e.g. brake lining abrasion, bloom, tar, oil and road dirt

**Acid-free**

- Protects material and surface
- Especially suitable for polished and high-quality alloy rims
- Not a hazardous substance, safe for the user

**User-friendly**

- No run-off, hence economical to use
- Pleasant odour, not pungent
- Long exposure time possible (up to 30 minutes)

**AOX and silicone-free**

Art. no. 0893476



## Tyre polisher

- Does not leave visible residues on rims.
- Polishes tyres and restores original colours.
- Preserves tyres from cracking.
- Quick-drying.
- Application by brush or sponge.

**5LTR Art. no. 0890121150**

**25LTR Art. no. 0890 121 260**



## Car shampoo pH-neutral

Container	Plastic canister
Chemical basis	Nonionic tenside
Colour	Light yellow
Density/conditions	1 kg/l/at 23 °C, 50% relative humidity
Phosphate-free	Yes

**5LTR Art. no. 0893012085**

**20LTR Art. no. 0893012086**



## Sticker-Ex

**Universal, environmentally friendly cleaner for vehicles, workshops, offices, interiors, carpets, upholstery and all water-resistant surfaces.**

- High cleaning performance, stubborn stains are removed quickly and thoroughly.
- Mild and gentle on materials

**5LTR Art. no. 0893 125 005**

**20LTR Art. no. 0893 125 020**



## Interior cleaner

**Special cleaning foam with anti-static additive for the entire vehicle interior.**

- Cleans all painted and plastic parts, glass surfaces and upholstery. Removes nicotine odours and leaves a pleasant fresh scent in the interior.
- The anti-static additive creates temporary anti-dust protection on the surface for longer lasting cleanliness in the vehicle interior.
- Works intensively to reliably remove stubborn dirt, even on vertical and sloped surfaces.
- Silicone-free.

**Art. no. 0893033**



## Car interior cleaner

### Active foam cleaning agent.

- For all passenger compartment surfaces of motor vehicles.
- Ideal for cleaning dashboards, plastic parts, rubber parts, coatings and metal parts.
- Easily removes any type of dirt, dust, traces of nicotine, etc.
- Pleasant fragrance.

**5LTR Art. no. 0893 033 115**

**25LTR Art. no. 0893 033 125**



## Plastic care

### Environmentally friendly cleaner for workshops, machinery and vehicles.

Contents	5 l
Container	Plastic canister
Chemical basis	Silicone

**Art. no. 0893477705**



## Leather and dashboard cleaner

Contents	5 l
Smell/fragrance	Characteristic
Chemical basis	Nonionic tenside

**Art. no. 0893012905**



## Solvent-free leather care agent

### Gentle cleaning and intensive care of smooth leather.

- Special care emulsion of selected waxes and silicones for all kinds of smooth leather.
- Cares for the leather and leaves behind an attractive, visually enhanced shine.

**Art. no. 0893012901**



## Engine wash

### Powerful engine cleaner for engines, engine compartments and gearboxes.

- High cleaning performance.
- Gentle on materials.
- No phosphates or complex compounds.
- Silicone free.

**5LTR Art. no. 0893 013 05**

**20LTR Art. no. 0893 013 20**



## Multi-purpose lubricant Ultra 2040

**Lubricant, penetrating and water displacing agent.**

- Loosens seized and rusted parts.
- With PTFE and 360° valve.
- Silicone-free.
- Removes moisture from electrical systems.
- Strong water displacement effect.

Colour	Light yellow
Smell/fragrance	Perfumed
Contents	500 ml
Silicone-free	Yes
Min./max. temperature conditions	0.01 to 130 °C
Shelf life from production	24 Month



**Art. no. 0890 085 500**

## Adhesive lubricant HHS 2000®

**Partly synthetic oil that is extremely resistant to high pressures.**

- Eliminates creaking and squeaking noises, features excellent creeping and penetration properties and provides excellent corrosion protection.
- Very good adhesive lubricant; does not shear off turning and rotating parts.
- Compatible with O-rings and X-rings as well as plastics. Does not affect painted base materials.
- Resistant to spray water and salt water, weak acids and alkalis.
- Free from silicone, resin and acids.

Resistance against	Salt water, Weak lyes, Weak acids, Splash
Contents	500 ml
Container	Can
Shelf life from production	24 Month
Chemical basis	Hydrocarbon
Oil basis	Synthetic mineral oil
Colour	Yellowish
Smell/fragrance	Oil
Density	0.742 g/cm <sup>3</sup>
Density conditions	at 20 °C
Min. temperature conditions	-25 °C
Max. temperature conditions	180 °C
Max. temperature resistance	200 °C
Min. flashing point of active ingredient	300 °C
Kinematic oil basis viscosity	1500 cSt
Silicone-free	Yes
Acid-free	Yes
Resin-free	Yes
AOX-free	Yes



**Art. no. 0893 106**

### Adhesive lubricant HHS® 5000

**Extremely temperature-resistant, fully synthetic penetrating oil with PTFE.**

- Reliable lubrication.
- Reliable wear protection.
- Long-term effect for reliability.
- Safe application

**Art. no. 08931063**



### Lubricating oil Multi WS6

- High-grade lubricating agent based on a mixture of oils and penetrates in a blend of solvents.
- It has been formulated to offer quick and easy removal of seized and rusted components.
- Starts wet motors, penetrates and loosens tight, seized, rusty nuts & bolts. Cleanly lubricates, stops squeaks and protects against rust invasion.
- Frees sticky joints.

**Art. no. 0893086400**



### Rust remover Rost-Off

**High-quality rust remover.**

- High capillary activity.
- Optimum rust removal.
- Excellent water displacement.
- Corrosion protection additives for optimum corrosion protection.
- Resin- and acid-free.
- Silicone-free.



Chemical basis	Mineral oil
----------------	-------------

Contents	Container	Art. no.
20 l	Canister	0890 300 1
400 ml	Aerosol can	0890 200 004

### 360° Pump spray bottle

**Special suction system allows 360° spraying for reliable overhead, diagonal or vertical operation**

- Tactile elements for easy opening.
- Ergonomic, sturdy spray atomiser with long handle.
- Label for individual identification.
- Good stability due to conical shape.

Contents	1 l
----------	-----

**Art. no. 0891 503 360**



### Pump spray bottle, acid-resistant

**For simple processing of acidic products from canisters and drums.  
Highly suitable for aqueous, acidic cleaners with a pH of 0.5 - 6.5.**

- Safe manual removal from portable vessels
- Easy to open owing to surface-feel elements
- Ergonomic, robust spray atomiser with long handle
- Work made less tiring thanks to low operating force
- Can also be attached to the workshop cart
- Customisable label
- Space for labelling the filled liquid
- Extra fields for safety instructions
- Good stability due to conical shape

Contents	1000 ml
----------	---------

**Art. no. 0891 503 030**



### Pressure sprayer Solvent-resistant

**For simple processing of solvent-containing products from canisters or drums.**

- Safe manual removal from portable vessels.
- Easy to open owing to surface-feel elements.
- Ergonomic, robust spray atomiser with long handle.
- Work made less tiring thanks to low operating force.
- Can also be attached to the workshop trolley.
- Customisable label.
- Space for labelling the filled liquid.
- Extra fields for safety instructions.
- Good stability due to conical shape.

Contents	1 l
----------	-----

**Art. no. 0891 503 001**



### Mobile grease lubricators

**Mobile grease hand-crank lubricator 13 kg.**

- Tank capacity 13kg.
  - Compact to be used in all workplaces.
- Portable and wheel-mounted.
- Enable quick, high-pressure greasing on any motor vehicle or mechanism.
  - Max. outlet pressure 350-400 bar.
  - Flow rate 250-300g/min.
  - Equipped with hose 1/4" x 2m.

Lid diameter	400 mm
Height	520 mm

**Art. no. 0986 020 013**

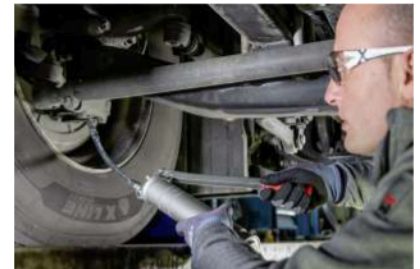


## Commercial vehicle high-performance lubricating grease

### Lithium-complex lubricating grease, mineral oil-based.

- Meets the specifications Volvo Standard 1277.2 + NLGI Standard GC-LB.
- Broad range of applications.
- Very high pressure absorption capacity.
- Good protection against corrosion.
- Water-repellent.
- Silicone-, acid- and resin-free.

Soap base	Lithium complex
Lubricant code	KP2N-30
Min./max. temperature conditions	-30 to 140 °C
Colour	Yellow, Brown
NLGI grade/conditions	2 / with DIN 51818
Base oil viscosity, kinematic/conditions	210 mm <sup>2</sup> /s / at 40 °C
Min. dripping point/conditions	260 °C / in accordance with DIN ISO 2176
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm / in accordance with DIN ISO 2137
Corrosion protection period/category	Corrosion category 0
VKA welding load	2800 N
Shelf life from production	72 Month
Oil basis	Mineral oil



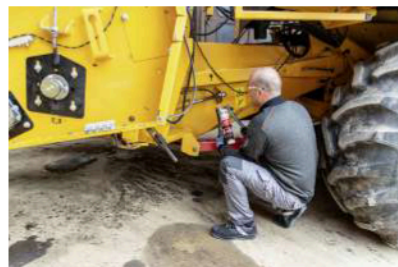
Weight of content	Container	Art. no.
400 g	Cartridge	0893 880
25 kg	Pail	0893 880 4

## Multi-purpose grease construction/agriculture

### EP-2 grease with a lithium/calcium base

- Resistant to high pressure due to EP additive.
- High shearing strength.
- High resistance to weathering.
- High resistance to water and steam.

Soap base	Lithium/calcium
Lubricant code	KP2K-30
Min./max. temperature conditions	-30 to 120 °C
Colour	Blue
NLGI grade/conditions	2 / with DIN 51818
Base oil viscosity, kinematic/conditions	300 mm <sup>2</sup> /s / at 40 °C
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm / in accordance with DIN ISO 2137
Corrosion protection period/category	Corrosion category 0-0
VKA welding load	3400 N



Shelf life from production	48 Month
Oil basis	Mineral oil

Weight of content	Container	Art. no.
25 kg	Pail	0893 874 103
400 g	Cartridge	0893 874 1

## Cordless grease gun FP 12-A

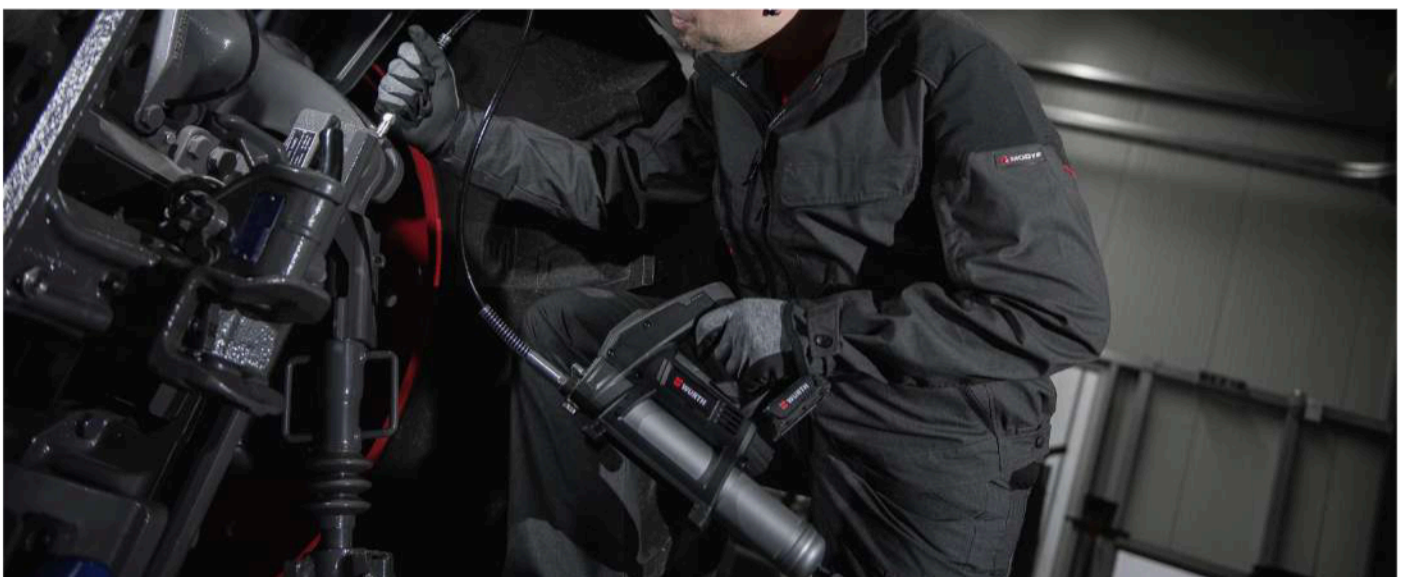
**Sturdy and handy cordless grease gun for lubricating lubrication points.**

- High working pressure.
- Enables application of all standard greases.
- Ergonomic design.
- Machine fits well in your hand and allows convenient and effortless work.
- Li-ion battery pack.
- Long runtime per battery charge. The handy battery charge indicator tells you how much power is left at all times.
- Many applications.
- Grease can be applied both from cartridges, pouches or other containers.
- Sturdy machine design.
- Resistant to soiling damage to guarantee long service life.



Nominal voltage	12 V/DC
Rechargeable battery/battery capacity	3 Ah
Max. operating pressure	562 bar
Capacity with cartridge	411 g
Max. hose pressure	690 bar
Weight of machine with rechargeable battery	3.3 kg
Included in delivery	Carrying bag

**Art. no. 5700 200 1**



### Contact spray SW

#### Special spray wash.

- Cleaner for contacts and electrical components.
- Removes wood resin residues
- Cleans components with heavy soiling
- Versatile applications – Does not attack plastics and common materials (electr. parts and elements, circuit boards, relays, power strips).

**Art. no. 089365**



### Contact spray Oxidation solvent

#### Spray oxidation solvent.

- Cleans all types of contacts.
- Removes oxide and sulphide coatings, resin, oil and dirt.
- Eliminates "bangs" as well as impermissible high voltage resistances.
- Halogen-free

**Art. no. 089360**



### Contact protective coating

- Transparent spray protective lacquer.
- Prevents and rectifies soft shorts on coils and transformers.
- Prevents short-circuits in high and low-voltage areas.
- Provides a glossy and flexible protective film.
- Adheres to metals such as copper, brass, steel, chrome, aluminium

**Art. no. 089370**



### Contact spray

- Is quick and reliable at rectifying ignition problems.
- To be used as a preventative measure against ignition problems caused by moisture in vehicles and in other low-voltage ignition systems.

**Art. no. 0890100**



### Battery terminal protector

#### Long-term and temperature-resistant protection for battery terminals.

- Protects battery terminals, pole terminals and plug connections from corrosion, weather and battery acids.
- Prevents transfer resistances and voltage drops, thereby extending the battery life.

**Art. no. 0890104**



# REFILLOMAT



## REFILLOmat filling system

**Economical and safe system for automatic refilling of spray cans.**

- Environmentally friendly.  
due to reduction of waste and absence of toxic propellants.
- Safety through coded can holders.  
Only the right can can be used with the associated station.
- Easy handling.
- Reduction of storage volume in the workshop.
- Cost savings compared to conventional aerosol cans.
- Tested safety through CE certification and testing in accordance with the machinery directive.



Back side

Width x height x depth	140 x 275 x 330 mm
Material	Sheet steel
Surface	Powder-coated
Product weight (per item)	4700 g

Suitable for active ingredient	Art. no.
Assembly power cleaner	0961 891 012
Brake cleaner	0961 891 011
Industry Cleaner	0961 891 023
Multi maintenance oil	0961 891 016
Rust remover Plus	0961 891 015
Silicone spray	0961 891 017



20 L tower version



60 L tower version



**REFILLO®mat filling can**

The safe and economical system for automatically refilling spray cans with active ingredients and compressed air.

- Safe handling of the REFILLOmat.
- The REFILLOmat satisfies legal regulations.

Contents	400 ml
----------	--------

Suitable for active ingredient	Art. no.
Assembly power cleaner	<b>0891 881 24</b>
Brake cleaner	<b>0891 881 1</b>
Industry Cleaner	<b>0891 881 16</b>
Multi maintenance oil	<b>0891 881 23</b>
Rust remover Plus	<b>0891 881 2</b>
Silicone	<b>0891 881 12</b>



**Assembly power cleaner**

Highly effective special cleaner containing solvents. NSF-certified

- High cleaning performance.
  - Ideal for the removal of oily, greasy, sooty, and lightly resinified dirt.
  - Short flash-off time.
  - Fast cleaning with no residue.
  - Short downtime of the machine parts to be treated.
  - No second application required.
  - Good material compatibility.
  - FKM and polymer seals do not swell.
  - Causes no corrosion on metal surfaces such as iron, steel, stainless steel, aluminium, brass.
  - Spray head with direct jet.
- Targeted and effective cleaning of contaminated parts.
- Acetone-, AOX- and silicon-free.



Contents	20 l
Colour	Transparent
Chemical basis	Aliphatic hydrocarbon



**Art. no. 0890 107 20**

**Brake cleaner**

**For cleaning and degreasing during maintenance and repair work.**

- Fast flash-off behaviour and excellent cleaning performance.
- Acetone-free.
- AOX- and silicone-free.



Chemical basis	Naphtha
Shelf life from production	24 Month

Contents	Container	Smell/fragrance	Art. no.
500 ml	Aerosol can	Solvent-like	0890 108 7
20 l	Canister	Characteristic	0890 108 716
20 l	Canister	Characteristic	0890 108 720

**Industry Clean Refillomat**

**High-quality special cleaner for industry and craft trades.**

- Easy removal of adhesive residues, labels and adhesive tapes.
- Stubborn dirt such as wax, rubber abrasion, silicone residues, permanent marker, oil and grease are loosened.
- Gentle on materials.
- User-friendly.
- Acetone-free.
- Silicone and AOX-free.



Contents	20 l
Colour	Colourless
Smell/fragrance	Characteristic
Viscosity/consistency	Liquid

**Art. no. 0893 140 520**

**Maintenance oil Multi**

**Versatile multi-functional spray for a range of applications**

- Lubricates, cleans and maintains.
- Removes rust and protects against corrosion.
- Resin, acid and silicone-free.
- Does not attack rubber, paint or plastics.



Contents	20 l
Chemical basis	Mineral oil
Colour	Light brown transparent
Min./max. processing temperature for can	-10 to 40 °C
Min./max. temperature conditions	-30 to 130 °C
Shelf life from production	24 Month
Container	Canister

**Art. no. 0893 055 420**

## Rust remover Rost-Off

### High-quality rust remover.

- High capillary activity.
- Optimum rust removal.
- Excellent water displacement.
- Corrosion protection additives for optimum corrosion protection.
- Resin- and acid-free.
- Silicone-free.
- Compatible with rubber and seals.



Chemical basis	Mineral oil
----------------	-------------

Contents	Container	Art. no.
20 l	Canister	0890 300 1
400 ml	Aerosol can	0890 200 004

## Silicone spray

### Ensures long-lasting protection, preservation and insulation of vehicle exterior and interior plastic, rubber and metal parts; good lubricating properties.

- Plastic parts retain a high-gloss finish and do not become brittle.
- Rubber parts are protected, do not become brittle and do not freeze or stick.
- Impregnated folding roofs and hoods.
- Anti-static effect (dust-repellent).
- Protects electrical contacts against moisture.
- Sliding roof and seat rails, seat belt rollers etc. run smoothly.
- Prevents squeaks and creaks between dissimilar materials, e.g. metal/plastic etc.
- Serves as an installation aid, e.g. for hose connections.
- No staining.



Contents	20 l
Container	Canister
Chemical basis	Mineral oil
Shelf life from production	12 Month
Density/conditions	0.735 g/cm <sup>3</sup> / at 20° C
Min./max. temperature conditions	-5 to 40 °C

**Art. no. 0893 221 520**

# HOSE CLAMPS

## Hose clamp set, strap width: 9 mm 121 pieces

- Set consisting of 120 parts (10 dimensions) and a Zebra screwdriver with flexible shaft

Number of pieces in assortment/set	121 PCS
Included in delivery	1 x wall mounting set



### Art. no. 0539 120 7

Contents for art. no.	
0539 120 7	Hose clamp with asymmetrical lock: <b>10 x 12-22 mm, 20 x 16-27 mm, 10 x 20-32 mm, 10 x 25-40 mm, 10 x 32-50 mm, 10 x 40-60 mm, 10 x 50-70 mm, 10 x 60-80 mm, 10 x 70-90 mm, 20 x 8-16 mm</b> ; <b>1 x Screwdriver for hexagon drive with flexible shaft Blade length: 150 mm, 7 mm</b>

## Hose clamp set, strap width: 12 mm 111 pieces

- Set consisting of 110 clamps (11 dimensions) and a Zebra screwdriver with flexible shaft

Number of pieces in assortment/set	111 PCS
Included in delivery	1 x wall mounting set



### Art. no. 0549 210

Contents for art. no.	
0549 210	Hose clamp with asymmetrical lock: <b>10 x 100-120 mm, 10 x 16-27 mm, 10 x 20-32 mm, 10 x 25-40 mm, 10 x 35-50 mm, 10 x 40-60 mm, 10 x 50-70 mm, 10 x 60-80 mm, 10 x 70-90 mm, 10 x 80-100 mm, 10 x 90-110 mm</b> ; <b>1 x Screwdriver for hexagon drive with flexible shaft Blade length: 150 mm, 7 mm</b>



# CABLE TIES

## Cable tie, black assortment 250 pieces in system case

Practical cable tie set in a sturdy system case.

- Cable ties in five different sizes
- Practical case for orderly storage

Number of pieces in assortment/set	250 PCS
Material	PA 6.6 - Polyamide
Silicone-free	Yes
Min./max. temperature resistance	-40 to 85 °C

Art. no. 5964 050 200



4.4.1

ORSY



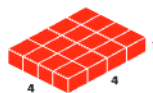
## Cable tie, natural assortment 250 pieces in system case

Practical cable tie set in a sturdy system case.

- Cable ties in five different sizes
- Practical case for orderly storage

Number of pieces in assortment/set	250 PCS
Material	PA 6.6 - Polyamide
Silicone-free	Yes
Min./max. temperature resistance	-40 to 85 °C

Art. no. 5964 050 201



4.4.1

ORSY



## Standard cable tie with plastic latch

Reliable cable tie for quickly organising and bundling cables and wires.

- Long, reliable service life.
- Resistant to bases, oils, greases and vehicle fuels.
- Easy to use.

Material	PA 6.6 - Polyamide
Colour	Black
Min./max. temperature resistance	-40 to 85 °C
Min./max. processing temperature	-10 to 85 °C
Silicone-free	Yes
Halogen-free	Yes



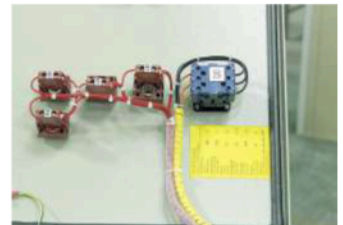
Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Art. no.
2.5 mm	100 mm	1.6-20 mm	0502 111
3.6 mm	140 mm	1.6-30 mm	0502 121
3.6 mm	200 mm	1.6-40 mm	0502 131
3.6 mm	280 mm	1.6-75 mm	0502 135 1
4.8 mm	178 mm	1.6-40 mm	0502 141
4.8 mm	280 mm	1.6-75 mm	0502 151
4.8 mm	360 mm	1.6-100 mm	0502 161
7.8 mm	180 mm	1.6-40 mm	0502 171
7.8 mm	360 mm	1.6-100 mm	0502 181
7.8 mm	540 mm	35-185 mm	0502 190 1
7.8 mm	750 mm	40-220 mm	0502 181 3

## Standard cable connector with metal latch

For quick, problem-free and reliable bundling of cables, cable harnesses and hoses etc., with elevated requirements around minimum tensile strength.

- Corrosion-resistant, anti-magnetic metal closure.
- Hand operable.
- Increased safety for the user.

Min./max. temperature resistance	-40 to 85 °C
Material	PA 6.6 - Polyamide
Silicone-free	Yes
Halogen-free	Yes
Colour	Black



Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Max. tensile force	Art. no.
2.5 mm	100 mm	1.6-24 mm	180 N	0502 211
3.5 mm	140 mm	1.6-36 mm	280 N	0502 221
4.5 mm	186 mm	1.6-46 mm	400 N	0502 231
4.5 mm	290 mm	1.6-76 mm	400 N	0502 241
4.5 mm	360 mm	1.6-101 mm	400 N	0502 241 0
7.6 mm	360 mm	4.8-101 mm	800 N	0502 251 0

### Cable tie tensioner for stainless steel cable ties

Installation hand tool for quick and easy mounting of stainless steel cable ties.

- Easy and flexible to use.
- Cable ties can be tightened and cut in one step.
- Regulated control possible thanks to four adjustable settings for tension.
- Cable ties are automatically cut at the head once the set tension is reached.
- The cut-off end of the tie is held by the carrier until the trigger is released.
- Safe, comfortable and effortless operation.

Suitable for cable ties	max. 7.9 mm
Length	180 mm
Min./max. tensile force	300-640 N
Material	Aluminium
Surface	Powder-coated
Colour	Grey, Black
Product weight (per item)	591 g



Art. no. 0502 715 014



# BULBS

## Turn Signal and Brake Light Bulbs S25 24V 21-5W BAY15d

Light bulb for commercial vehicles.

- Professional Quality.
- High luminance.
- Reliable service life.
- Great price-to-performance ratio.

Type description	S25
Power rating	21 W
Nominal voltage	24 V
Socket designation	BA15s

Art. no. 0720 732 2



## Glass socket bulb

Trusted OEM quality for standard applications.

Type description	W5W
Nominal voltage	12 V/DC
Power rating	5 W
Socket designation	W2,1x9,5d

Art. no. 0720 162 1



## Turn and brake light vehicle Ultra Life Osram

Long-life turn and brake light from Osram in original packaging.

- Extra-long service life.
- Up to four times longer service life in comparison with standard auxiliary lights.
- Higher durability.
- Longer relamping cycles, increased reliability and more comfort



Type description	P21/5W
Nominal voltage	12 V/DC
Power rating	21 W
Power of second spiral coil	5 W
Socket designation	BAY15d

**Art. no. 0720 134 121**

Osram Original box

## Halogen bulbs, veh., Osram

**Halogen bulb for vehicles from Osram in original packaging.**

- Reliable OEM quality



Nominal voltage	12 V
-----------------	------

Type description	Socket designation	Power rating	Power of second spiral coil	Corresponds to original spare part number	Art. no.
H4	P43t	60 W	55 W	64193	0720 110 112
H11	PGJ19-2	55 W		64211	0720 118 111
HB3	P20d	60 W		9005	0720 110 030
HB4	P22d	51 W		9006	0720 110 040

Osram Original box

## Turn signal and brake light bulb

**Economical veh. bulb 12 volt.**

Type description	P21/5W
Nominal voltage	12 V/DC
Power rating	21 W
Power of second spiral coil	5 W
Socket designation	BAY15d



**Art. no. 0720 134 1**

## Metal socket bulb

**Economical bulb for light commercial vehicles 24V.**

Type description	R5W
Nominal voltage	24 V/DC
Power rating	5 W
Socket designation	BA15s



**Art. no. 0720 140 2**

**Halogen bulbs, com. veh., Truckstar Osram**

**Truckstar Pro halogen bulb from Osram in original packaging.**

- Highly resilient
- Very high vibration resistance for heavy-duty applications
- Up to 100% more light
- Improved visibility and response times compared to standard halogen bulbs
- Extra-long service life
- More than twice the service life compared to standard halogen bulbs

Type description	H7
Nominal voltage	24 V
Socket designation	PX26d
Power rating	70 W
Corresponds to original spare part number	64215TSP

**Art. no. 0720 114 219**

Osram Original box



**Glass socket bulb**

**Economical bulb for light commercial vehicles 24V.**

Nominal voltage	24 V/DC
Socket designation	W2,1x9,5d

Type description	Power rating	Art. no.
W3W	3 W	0720 161 2
W5W	5 W	0720 162 2



**Parking light bulb**

**Economical bulb for light commercial vehicles 24V.**

Type description	T4W
Nominal voltage	24 V/DC
Power rating	4 W
Socket designation	BA9s

**Art. no. 0720 150 2**



**Metal socket bulb**

**Trusted OEM quality for standard applications.**

Type description	R10W
Nominal voltage	12 V/DC
Power rating	10 W
Socket designation	BA15s

**Art. no. 0720 141 1**



**Indicator and brake light bulb, vehicle, Osram**

**Osram vehicle indicator and brake light bulb in original packaging.**

- Reliable OEM quality.

Type description	PY27/7W
Nominal voltage	12 V/DC
Power rating	27 W
Power of second spiral coil	7 W
Socket designation	W2.5x16q

**Art. no. 0720 163 112**

Osram Original box



**Glass socket bulb, veh., Osram**

**Glass socket bulb from Osram in original packaging.**

- Reliable OEM quality.

Type description	W21/5W
Nominal voltage	12 V
Power rating	21.5 W
Socket designation	W3x16q

**Art. no. 0720 163 220**

Osram Original box



**Plastic socket bulb, commercial vehicles, Osram**

**Bulb for PCB installation from Osram, in original packaging.**

- Reliable OEM quality.

Type description	W21/5W
Nominal voltage	12 V
Power rating	21.5 W
Socket designation	W3x16q

**Art. no. 0720 166 220**

Osram Original box



**Gas discharge bulb vehicle Osram**

**Xenon bulb from Osram in original packaging.**

- Xenarc original bulb.
- Reliable OEM quality.

Testing voltage	13.5 V
Power rating	35 W

Type description	Socket designation	Colour temperature	Art. no.
D1S	PK32d-2	4300 K	0720 110 322
D2S	P32d-2	4300 K	0720 110 300
D3S	PK32d-5	4300 K	0720 110 344
D4S	PK32d-2	4500 K	0720 110 388



# ELECTRICAL

## Threaded fuse MEGA

Plastic casing prevents sparking when triggering fuse.

- Professional Quality.
- High luminance.
- Reliable service life.
- Great price-to-performance ratio.

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Length	68 mm
Width	16 mm
Diameter of hole	8.6 mm
Material of housing	PA - Polyamide
Material	Copper
Surface	Plain



Max. current	Identification colour	Art. no.
125 A	Green	0731 310 125
200 A	Blue	0731 310 200
300 A	Grey	0731 310 300

Can be stored in ORSY system

## Insulated cable connector assortment 530 pcs in system case 4.4.1

- For fine and finest stranded copper conductors.

System dimensions	4.4.1
-------------------	-------

Art. no. 5964 055 800



4.4.1

ORSY



**Thin-walled heat-shrink hose assortment 130 pieces in system case 4.4.1.**

Shrink rate 2:1 without internal adhesive.

System dimensions	4.4.1
-------------------	-------

Art. no. 5964 077 100



4.4.1

**ORSY**

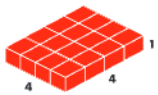


**Wire end ferrules, insulated, assortment 525 pieces in system case 4.4.1**

- Dimensional tolerances to DIN 46228 Part 4

System dimensions	4.4.1
-------------------	-------

Art. no. 5964 055 701



4.4.1

**ORSY**

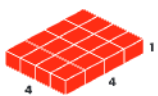


**Snap lock cable connector/shrink-fit connector assortment 270 pieces in system case 4.4.1**

Shrink rate 2:1 without internal adhesive.

System dimensions	4.4.1
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Art. no. 5964 055 500



4.4.1

**ORSY**

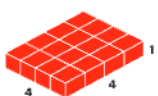


**Insulated cable connector assortment 320 pieces in system case 4.4.1**

For fine and very fine core copper conductors.

System dimensions	4.4.1
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Art. no. 5964 055 808



4.4.1

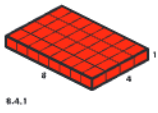
**ORSY**



**Deutsch DT Series assortment 570 pieces in system case 8.4.1**

System dimensions	8.4.1
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Art. no. 5964 055 520



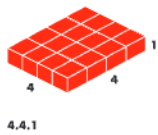
**ORSY**



**Flat blade fuses ATO assortment 160 pieces in system case 4.4.1**

System dimensions	4.4.1
-------------------	-------

Art. no. 5964 073 102



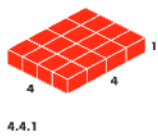
**ORSY**



**Flat blade fuses ATO/MINI/MAXI SILVER assortment 151 pieces in system case 4.4.1**

System dimensions	4.4.1
-------------------	-------

Art. no. 5964 073 104



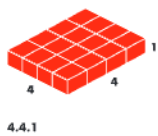
**ORSY**



**Flat blade fuses MINI/MAXI silver assortment 170 pieces in system case 4.4.1**

System dimensions	4.4.1
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Art. no. 5964 073 101



**ORSY**



**Flat blade fuses MINI-FLP silver assortment In system case 4.4.1**

System dimensions	4.4.1
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**Art. no. 5964 073 103**



4.4.1

**ORSY**



**Flat blade fuse MICRO 2/MICRO 3 SILVER assortment 185 pieces in system case 4.4.1**

System dimensions	4.4.1
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**Art. no. 5964 073 106**



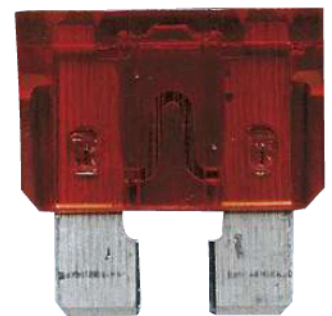
4.4.1

**ORSY**



**Flat blade fuse ATO ISO 8820-3**

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Surface of the contacts	Tin plated



Max. current	Colour	Art. no.
1 A	Black	0731 001
2 A	Grey	0731 002
3 A	Violet	0731 003
4 A	Pink	0731 004
5 A	Brown	0731 005
7.5 A	Ochre brown	0731 007 5
10 A	Red	0731 010
15 A	Turquoise	0731 015
20 A	Yellow	0731 020
25 A	White	0731 025
30 A	Green	0731 030
35 A	Blue	0731 035
40 A	Orange	0731 040

Can be stored in ORSY system

### Flat blade fuse MINI Silver

Silver-coated version for better heat reflection.

- OEM quality.



Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Surface of the contacts	Silver plated

Max. current	Colour	Art. no.
2 A	Grey	0731 300 02
3 A	Violet	0731 300 03
4 A	Pink	0731 300 04
5 A	Brown	0731 300 05
7.5 A	Ochre brown	0731 300 075
10 A	Red	0731 300 10
15 A	Turquoise	0731 300 15
20 A	Yellow	0731 300 20
25 A	White	0731 300 25
30 A	Green	0731 300 30

Can be stored in ORSY system

### Flat blade fuse MAXI Silver

Silver-coated version for better heat reflection.

- OEM quality.



Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Surface of the contacts	Silver plated

Max. current	Colour	Art. no.
20 A	Yellow	0731 301 20
30 A	Green	0731 301 30
40 A	Orange	0731 301 40
50 A	Red	0731 301 50
60 A	Blue	0731 301 60
70 A	Brown	0731 301 70
80 A	White	0731 301 80

Can be stored in ORSY system

### Flat blade fuse MINI-FLP Silver

Silver-coated version for better heat reflection.

- OEM quality.



Max. nominal voltage	58 V/DC
Min./max. operating temperature	-40 to 125 °C

Max. current	Colour	Surface of the contacts	Art. no.
2 A	Grey	Silver plated	0731 302 02
3 A	Violet	Tin plated	0731 302 03
4 A	Pink	Tin plated	0731 302 04
5 A	Brown	Silver plated	0731 302 05
7.5 A	Ochre brown	Silver plated	0731 302 07
10 A	Red	Silver plated	0731 302 10
15 A	Turquoise	Silver plated	0731 302 15
20 A	Yellow	Silver plated	0731 302 20
25 A	White	Silver plated	0731 302 25
30 A	Green	Silver plated	0731 302 30

Can be stored in ORSY system

### Fuse holder For threaded fuses MIDI

With improved contact protection.

- Tongue and groove principle.
- Extendable push-fit system (e.g. trailer, motorhome/caravan, HGV etc.).
- Also suitable for strip fuses.

**Art. no. 0731 309 001**

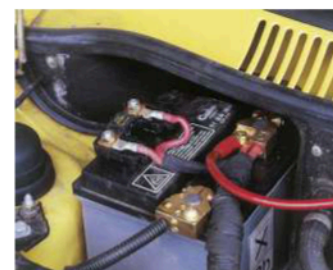
Can be stored in ORSY system



### Threaded fuse MIDI

Plastic casing prevents sparking when triggering fuse.

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Length	41 mm
Width	10 mm
Diameter of hole	5.5 mm
Material of housing	PA - Polyamide
Material	Copper
Surface	Zinc plated



Max. current	Identification colour	Art. no.
40 A	Green	0731 309 040
50 A	Red	0731 309 050
80 A	White	0731 309 080

**Vehicle cable FLY**

Very good UV, ozone, hydrolysis and microbe resistance.

- Flame-retardant, self-extinguishing.

Min./max. temperature resistance	-40 to 90 °C
Flammability	Self-extinguishing in accordance with UL94 V2
Dielectric strength	10 kV/mm
Colour	Black
Material	PVC - Polyvinyl chloride
Silicone-free	Yes



Internal diameter	Wall thickness	Art. no.
12 mm	0.8 mm	0771 12
14 mm	1 mm	0771 14
18 mm	1 mm	0771 18

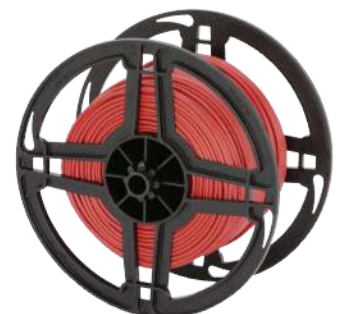


**Vehicle cable FLRY**

On plastic reel for ORSY® 10 roll system.

- Premium quality with 99.9% copper content.
- Rated voltage:  $U_{\sim} = 50 \text{ V}$ ,  $U_{-} = 60 \text{ V}$ .
- PVC external sheath.
- Free of silicone, cadmium and lead.

Min./max. temperature conditions	-40 to 85 °C
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Wire cross section	Colour	Outer diameter	Art. no.
0.35 mm <sup>2</sup>	Black	1.25 mm	0770 035
0.35 mm <sup>2</sup>	Black, Red	1.25 mm	0770 035 55
0.35 mm <sup>2</sup>	Blue	1.25 mm	0770 035 2
0.35 mm <sup>2</sup>	Brown	1.25 mm	0770 035 9
0.35 mm <sup>2</sup>	Red	1.25 mm	0770 035 1
0.35 mm <sup>2</sup>	Yellow	1.25 mm	0770 035 3
0.5 mm <sup>2</sup>	Black	1.5 mm	0770 050
0.5 mm <sup>2</sup>	Black, Yellow	1.5 mm	0770 050 65
0.5 mm <sup>2</sup>	Blue	1.5 mm	0770 050 2
0.5 mm <sup>2</sup>	Blue, White	1.5 mm	0770 050 58
0.5 mm <sup>2</sup>	Brown	1.5 mm	0770 050 9
0.5 mm <sup>2</sup>	Green	1.5 mm	0770 050 4
0.5 mm <sup>2</sup>	Grey	1.5 mm	0770 050 5
0.5 mm <sup>2</sup>	Grey, Red	1.5 mm	0770 050 52
0.5 mm <sup>2</sup>	Red	1.5 mm	0770 050 1
0.5 mm <sup>2</sup>	Red, White	1.5 mm	0770 050 69
0.5 mm <sup>2</sup>	Violet	1.5 mm	0770 050 7
0.5 mm <sup>2</sup>	White	1.5 mm	0770 050 42
0.5 mm <sup>2</sup>	White, Red	1.5 mm	0770 050 573
0.5 mm <sup>2</sup>	Yellow	1.5 mm	0770 050 3
0.5 mm <sup>2</sup>	Yellow, Green	1.5 mm	0770 050 57
0.75 mm <sup>2</sup>	Black	1.8 mm	0770 075
0.75 mm <sup>2</sup>	Black, Red	1.8 mm	0770 075 49
0.75 mm <sup>2</sup>	Black, White	1.8 mm	0770 075 48
0.75 mm <sup>2</sup>	Black, Yellow	1.8 mm	0770 075 93
0.75 mm <sup>2</sup>	Blue	1.8 mm	0770 075 2
0.75 mm <sup>2</sup>	Brown	1.8 mm	0770 075 9
0.75 mm <sup>2</sup>	Brown, White	1.8 mm	0770 075 92
0.75 mm <sup>2</sup>	Green	1.8 mm	0770 075 4
0.75 mm <sup>2</sup>	Green, Yellow	1.8 mm	0770 075 5
0.75 mm <sup>2</sup>	Grey	1.8 mm	0770 075 41
0.75 mm <sup>2</sup>	Grey, Red	1.8 mm	0770 075 46
0.75 mm <sup>2</sup>	Red	1.8 mm	0770 075 1
0.75 mm <sup>2</sup>	Violet	1.8 mm	0770 075 43
0.75 mm <sup>2</sup>	Violet, Black	1.8 mm	0770 075 62
0.75 mm <sup>2</sup>	White	1.8 mm	0770 075 42
0.75 mm <sup>2</sup>	Yellow	1.8 mm	0770 075 3
0.75 mm <sup>2</sup>	Yellow, Green	1.8 mm	0770 075 51
1 mm <sup>2</sup>	Black	2 mm	0770 10
1 mm <sup>2</sup>	Black, Green	2 mm	0770 090 56
1 mm <sup>2</sup>	Black, Red	2 mm	0770 090 55
1 mm <sup>2</sup>	Black, White	2 mm	0770 090 54
1 mm <sup>2</sup>	Black, Yellow	2 mm	0770 090 65
1 mm <sup>2</sup>	Blue	2 mm	0770 090 2
1 mm <sup>2</sup>	Blue, Black	2 mm	0770 091 2
1 mm <sup>2</sup>	Blue, Green	2 mm	0770 090 59
1 mm <sup>2</sup>	Blue, Red	2 mm	0770 090 60
1 mm <sup>2</sup>	Brown	2 mm	0770 090 9
1 mm <sup>2</sup>	Brown, White	2 mm	0770 090 76
1 mm <sup>2</sup>	Green	2 mm	0770 090 4
1 mm <sup>2</sup>	Green, Red	2 mm	0770 090 72
1 mm <sup>2</sup>	Green, Yellow	2 mm	0770 090 5
1 mm <sup>2</sup>	Grey	2 mm	0770 091 1

Wire cross section	Colour	Outer diameter	Art. no.
1 mm <sup>2</sup>	Grey	2 mm	0770 091 1
1 mm <sup>2</sup>	Grey, Black	2 mm	0770 091 3
1 mm <sup>2</sup>	Grey, Green	2 mm	0770 091 5
1 mm <sup>2</sup>	Grey, Red	2 mm	0770 091 4
1 mm <sup>2</sup>	Red	2 mm	0770 090 1
1 mm <sup>2</sup>	Red, Blue	2 mm	0770 090 91
1 mm <sup>2</sup>	Red, Grey	2 mm	0770 090 70
1 mm <sup>2</sup>	Red, White	2 mm	0770 090 69
1 mm <sup>2</sup>	Red, Yellow	2 mm	0770 090 51
1 mm <sup>2</sup>	Violet	2 mm	0770 090 7
1 mm <sup>2</sup>	Violet, Black	2 mm	0770 090 62
1 mm <sup>2</sup>	White	2 mm	0770 091 0
1 mm <sup>2</sup>	White, Red	2 mm	0770 090 573
1 mm <sup>2</sup>	Yellow	2 mm	0770 090 3
1 mm <sup>2</sup>	Yellow, Blue	2 mm	0770 090 571
1 mm <sup>2</sup>	Yellow, Green	2 mm	0770 091 6
1.5 mm <sup>2</sup>	Black	2.3 mm	0770 100
1.5 mm <sup>2</sup>	Black, Green	2.3 mm	0770 104 56
1.5 mm <sup>2</sup>	Black, Red	2.3 mm	0770 104 55
1.5 mm <sup>2</sup>	Blue	2.3 mm	0770 102
1.5 mm <sup>2</sup>	Blue, Green	2.3 mm	0770 104 59
1.5 mm <sup>2</sup>	Brown	2.3 mm	0770 104 0
1.5 mm <sup>2</sup>	Green	2.3 mm	0770 104
1.5 mm <sup>2</sup>	Green, Red	2.3 mm	0770 104 72
1.5 mm <sup>2</sup>	Green, Yellow	2.3 mm	0770 104 73
1.5 mm <sup>2</sup>	Grey	2.3 mm	0770 104 1
1.5 mm <sup>2</sup>	Grey, Red	2.3 mm	0770 104 52
1.5 mm <sup>2</sup>	Red	2.3 mm	0770 101
1.5 mm <sup>2</sup>	Red, Blue	2.3 mm	0770 104 91
1.5 mm <sup>2</sup>	Red, Grey	2.3 mm	0770 104 70
1.5 mm <sup>2</sup>	Red, White	2.3 mm	0770 104 69
1.5 mm <sup>2</sup>	Red, Yellow	2.3 mm	0770 104 51
1.5 mm <sup>2</sup>	Violet	2.3 mm	0770 102 0
1.5 mm <sup>2</sup>	White	2.3 mm	0770 104 2
1.5 mm <sup>2</sup>	White, Red	2.3 mm	0770 104 573
1.5 mm <sup>2</sup>	Yellow	2.3 mm	0770 103
1.5 mm <sup>2</sup>	Yellow, Blue	2.3 mm	0770 104 571
2.5 mm <sup>2</sup>	Black	2.9 mm	0770 105
2.5 mm <sup>2</sup>	Blue	2.9 mm	0770 107
2.5 mm <sup>2</sup>	Brown	2.9 mm	0770 109 9
2.5 mm <sup>2</sup>	Green	2.9 mm	0770 109
2.5 mm <sup>2</sup>	Green, Yellow	2.9 mm	0770 109 90
2.5 mm <sup>2</sup>	Grey	2.9 mm	0770 109 1
2.5 mm <sup>2</sup>	Red	2.9 mm	0770 106
2.5 mm <sup>2</sup>	Violet	2.9 mm	0770 107 0
2.5 mm <sup>2</sup>	White	2.9 mm	0770 109 2
2.5 mm <sup>2</sup>	White, Red	2.9 mm	0770 109 92
2.5 mm <sup>2</sup>	Yellow	2.9 mm	0770 108
4 mm <sup>2</sup>	Black	3.5 mm	0770 110
4 mm <sup>2</sup>	Brown	3.5 mm	0770 110 9
4 mm <sup>2</sup>	Red	3.5 mm	0770 110 0
4 mm <sup>2</sup>	Yellow	3.5 mm	0770 110 00

**Vehicle cable FLY**

**Packaged goods.**

- Nominal voltage:  $U \sim = 50 \text{ V}$ ,  $U - = 60 \text{ V}$ .
- PVC external sheath.
- Free of silicone, cadmium and lead.



Min./max. temperature conditions	-40 to 70 °C
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Wire cross section	Colour	Outer diameter	Art. no.
6 mm <sup>2</sup>	Black	4.7 mm	0770 111
6 mm <sup>2</sup>	Red	4.7 mm	0770 111 0
10 mm <sup>2</sup>	Black	6.3 mm	0770 111 2
10 mm <sup>2</sup>	Brown	6.3 mm	0770 111 22
10 mm <sup>2</sup>	Red	6.3 mm	0770 111 21
16 mm <sup>2</sup>	Black	7 mm	0770 111 3
16 mm <sup>2</sup>	Red	7 mm	0770 111 301
35 mm <sup>2</sup>	Black	10.2 mm	0770 113
35 mm <sup>2</sup>	Red	10.2 mm	0770 113 301
50 mm <sup>2</sup>	Black	12 mm	0770 113 5
50 mm <sup>2</sup>	Red	12 mm	0770 113 501
70 mm <sup>2</sup>	Black	14.4 mm	0770 113 7



**Thin-walled heat-shrink hose Shrink rate 2:1 without internal adhesive**

- Length: 100 mm.

Colour	Black
Length	100 mm
Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 135 °C
Min. shrinkage temperature	90 °C
Material	Polyolefin
Flame-retardant	Yes



Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Art. no.
2.4 mm	1.2 mm	0.43 mm	0771 002 40
3.2 mm	1.6 mm	0.43 mm	0771 003 20
4.8 mm	2.4 mm	0.43 mm	0771 004 80
6.4 mm	3.2 mm	0.56 mm	0771 006 40
9.5 mm	4.8 mm	0.56 mm	0771 009 50
12.7 mm	6.4 mm	0.56 mm	0771 012 70
19 mm	9.5 mm	0.69 mm	0771 019 00
25.4 mm	12.7 mm	0.76 mm	0771 025 40

**Thin-walled heat-shrink hose Shrink rate 3:1, with internal adhesive**

- Flame-retardant (not adhesive).

Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 85 °C
Min. shrinkage temperature	120 °C
Material	Polyolefin
Flame-retardant	Yes



Colour	Diameter	Diameter (shrunk)	Length	Sleeve-wall thickness when shrunk	Art. no.
Black	3 mm	1 mm	1000 mm	1 mm	0771 003 202
Grey	3 mm	1 mm	100 mm	1 mm	0771 003 200
Grey	6 mm	2 mm	100 mm	1.2 mm	0771 006 400
Grey	12 mm	4 mm	100 mm	1.35 mm	0771 012 700
Grey	24 mm	8 mm	100 mm	2.2 mm	0771 025 400



**Insulated corrugated pipe, slit**

**Preassembled cable harnesses can be retrofitted in a quick and simple process.**

- Resistant to alcohols, greases, mineral oils, diesel fuels and petrol

Colour	Black
Design	Slitted
Flammability	Self-extinguishing as per UL94 HB
Min./max. temperature conditions	-40 to 120 °C
Material	PA 6 - Polyamide
Halogen-free	Yes
Ultraviolet resistance	Yes



Nominal width	Outer diameter	Internal diameter	Art. no.
4.5 mm	7.1 mm	5 mm	0771 990 004
10 mm	13 mm	9.9 mm	0771 990 010
13 mm	15.8 mm	12.7 mm	0771 990 013

**Braided hose**

Can be cut cold – no fraying, no special tool required.

- Lines are easy to bundle.
- Good protection against abrasion.



Colour	Black
Min./max. temperature resistance	-55 to 125 °C
Flammability	Self-extinguishing as per UL94
Material	PA 6.6 - Polyamide
Halogen-free	Yes

Min./max. diameter	Art. no.
4-10 mm	0771 500 030
10-14 mm	0771 490 012
14-24 mm	0771 480 016



**Thin-walled heat-shrink hose Shrink rate 2:1 without internal adhesive**

- Dimensions of dispenser box: approx. 163 x 50 x 172 mm.

Colour	Black
Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 125 °C
Min./max. shrinkage temperature	90 to 200 °C
Material	Polyolefin
Flame-retardant	Yes



Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Length	Art. no.
4.8 mm	2.4 mm	0.43 mm	10 m	0771 750 004
9.5 mm	4.8 mm	0.56 mm	5 m	0771 750 006
25.4 mm	12.7 mm	0.76 mm	5 m	0771 750 009

**Thin-walled heat-shrink hose Without internal adhesive**

- On cardboard core for ORSY® 10 dispenser system.



Dielectric strength	20 kV/mm
Min./max. shrinkage temperature	90 to 200 °C
Material	Polyolefin
Flame-retardant	Yes

Art. no.	0771 801 2	0771 802 4	0771 803 2	0771 804 8	0771 806 4	0771 809 53
Colour	Black	Black	Black	Black	Black	Black
Diameter	1.2 mm	2.4 mm	3.2 mm	4.8 mm	6.4 mm	9 mm
Diameter (shrunk)	0.6 mm	1.2 mm	1.6 mm	2.4 mm	3.2 mm	3 mm
Sleeve-wall thickness when shrunk	0.33 mm	0.43 mm	0.43 mm	0.43 mm	0.56 mm	0.68 mm
Min./max. temperature conditions	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C	-55 to 135 °C
Length	10 m	10 m	10 m	10 m	5 m	5 m

Art. no.	0771 809 5	0771 812 7	0771 819 0	0771 825 4	0771 838 1	0771 870 254
Colour	Black	Black	Black	Black	Black	Blue
Diameter	9.5 mm	12.7 mm	19 mm	25.4 mm	38.1 mm	25.4 mm
Diameter (shrunk)	4.8 mm	6.4 mm	9.5 mm	12.7 mm	19 mm	12.7 mm
Sleeve-wall thickness when shrunk	0.56 mm	0.56 mm	0.69 mm	0.76 mm	0.86 mm	0.76 mm
Min./max. temperature conditions	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C	-55 to 125 °C
Length	5 m	5 m	5 m	5 m	5 m	5 m

Art. no.	0771 874 032
Colour	Green, Yellow
Diameter	3.2 mm
Diameter (shrunk)	1.6 mm
Sleeve-wall thickness when shrunk	0.43 mm
Min./max. temperature conditions	-55 to 125 °C
Length	10 m

## Insulated corrugated pipe

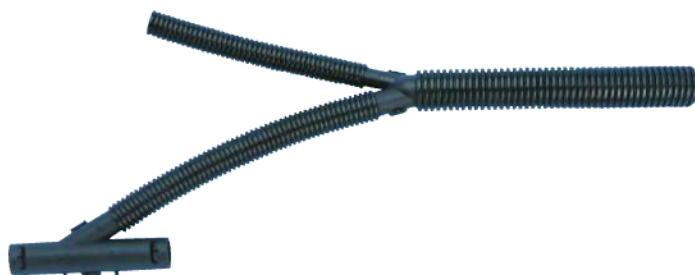
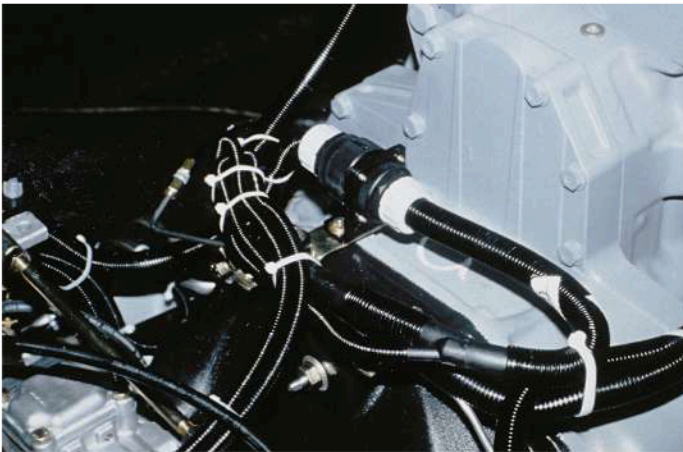
**Provides protection against heat, UV radiation, moisture and chemicals.**

- Resistant to alcohols, greases, mineral oils, diesel fuels and petrol

Colour	Black
Flammability	Self-extinguishing as per UL94 HB
Min./max. temperature conditions	-40 to 120 °C
Material	PA 6 - Polyamide
Halogen-free	Yes
Ultraviolet resistance	Yes



Nominal width	Outer diameter	Internal diameter	Art. no.
4.5 mm	7.1 mm	5 mm	0771 990 04
8.5 mm	11.7 mm	8.4 mm	0771 990 08
10 mm	13 mm	9.9 mm	0771 990 10
13 mm	15.8 mm	12.7 mm	0771 990 13
17 mm	21.2 mm	16.6 mm	0771 990 17
22 mm	25.4 mm	21.3 mm	0771 990 22





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