

kränzle[®]

MADE IN GERMANY



PRODUCT CATALOG

HIGH-PRESSURE CLEANERS | VACUUM CLEANERS | POWER SWEEPERS



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PRODUCT NEWS

VENTOS 32 L/PC 96-97
The industrial vacuum cleaner is suitable for both dry and wet vacuuming, offers a wide range of accessories and is compatible with a variety of electrical appliances.



STARLET 3 70
The new safety shut-off gun for the D12 plug-in system not only impresses with its slimmer design, but also scores in terms of ergonomics and user comfort.



PENDULUM NOZZLE 71
Thanks to intelligent flow guidance, the new nozzle generates an oscillating point jet for additional cleaning power.



ORDER MODULES 80-81
Individually or combined - With the new lance holders, the extensive Kränzle accessories are always in their place.



SALES AND SERVICE POINTS

In addition to first-class product quality, we also provide professional advice and offer a dedicated service, through our Kränzle partners worldwide.

GENERAL GUIDELINES

This product catalog is valid from February 1st, 2022. All previous product catalogs are no longer valid. Technical changes and errors reserved.
The general terms and conditions of **Josef Kränzle GmbH & Co. KG** apply.



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TEAMWORK AS THE KEY TO SUCCESS



For more than 45 years the name Kränzle has stood for the highest Quality, innovative strength and responsibility towards environment. On the basis of these values our research and development engineers are continuously working on innovations, which meets the worldwide requirements of the cleaning industry with convincing solutions. High quality materials, advanced technology and experienced employees are the basic building blocks. With this we have turned the Kränzle brand into one of the worldwide quality leaders for high-pressure cleaners.

A qualified sales team takes care of the support of our customers at home and abroad and ensures optimal coordination with specialist trade partners in over 90 countries. Kränzle's in-house training centre provides regular extensive training courses. This ensures that our dealers become proven specialists for Kränzle products and as a result can offer the best service from consulting to maintenance.

KEY INDUSTRIES

THE RIGHT KRÄNZLE FOR EVERY APPLICATION

The requirements for high-pressure cleaners, industrial hoovers and manual sweepers vary greatly from one industry to another. This is why Kränzle has developed a product range which, due to its breadth and depth, meets all requirements with ease.

Quality "Made in Germany". This is the claim and commitment for each of our product lines - from portable high-pressure cleaners, mobile high-pressure cleaners, high-pressure cleaners in cold and hot water versions and to stationary units.

 **MADE IN GERMANY**

BUILDING CLEANING HOUSE AND GARDEN

Kränzle bring cleaning equipment and their products to your home. Our sophisticated range of accessories makes everything shine again. Whether terraces, courtyard entrances, parking spaces, stairs, walls, fences or Garden furniture - with Kränzle every surface becomes spotlessly clean.

CRAFT

Craftsmen are under high time and cost pressure and work under difficult, frequently changing conditions. Kränzle has recognised these requirements and has developed precisely fitting devices and accessories that make their daily work easier.

AUTOMOTIVE INDUSTRY HAULAGE FIRMS

Car dealerships, garages and car valeting companies, haulage firms and couriers, as well as Bus and taxi companies market their business through the cleanliness of their vehicles, workshops and premises. Making that good first impression is important. Kränzle offers the perfect cleaning solution for all requirements.

AGRICULTURE LIVESTOCK FARMING

Cleanliness in agriculture and animal husbandry is a elementary requirement for health, hygiene and good working conditions. Whether for the care of tractors and machines or for cleaning the stables and yards - a Kränzle high-pressure cleaner may be used.

PUBLIC SERVICE CONSTRUCTION

The cleaning operations in the public service require professional non-compressing equipment. Kränzle High pressure cleaners are the ideal companions for the cleaning of construction vehicles, vans, public places or the Removal of graffiti on facades.

SANITARY FOOD

The Kränzle NoM versions (non-marking) are particularly suitable for use in hygiene and sanitary areas. White solid rubber tyres and grey high-pressure hoses leave no signs of abrasion, as required for these areas.

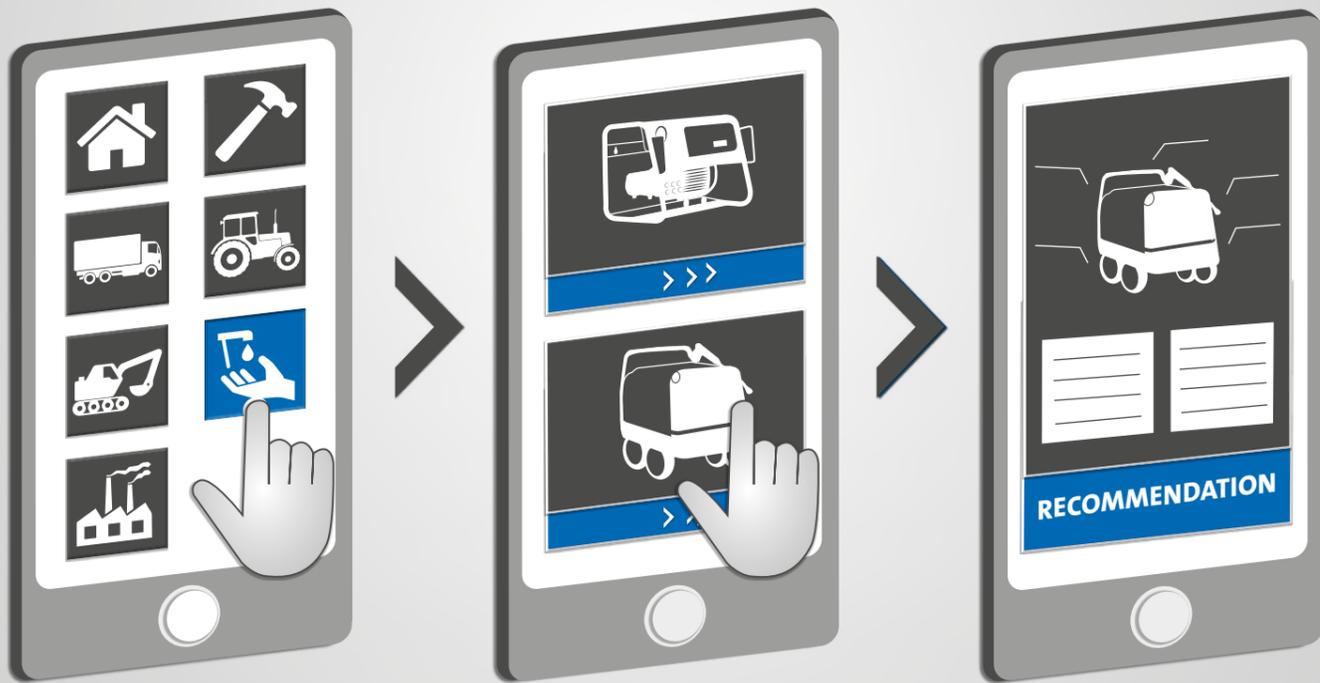
INDUSTRY

Premises and machines must be regularly inspected and dust, dirt and oil contamination removed. Kränzle offers high-quality cleaning machines with sophisticated accessories, which meet all the requirements of industrial companies.

WITH JUST A FEW CLICKS TO THE DESIRED PRODUCT

NEW: DIGITAL PRODUCT ADVISOR

Which high-pressure cleaner is best suited to the task at hand is often not obvious at first glance. Kränzle's newly developed digital product advisor helps to determine one's own requirements such as intended use, frequency of use or desired cleaning power. A few details and you quickly and easily receive a product recommendation tailored to your individual needs.



WITH JUST A FEW CLICKS

Intuitive and self-explanatory menu navigation saves time during the search.

AND QUESTIONS

Intended use, performance requirements and frequency of use determine product selection.

TO THE PERFECT RESULT

The right device and all the important technical data



**FIND YOUR DESIRED
PRODUCT NOW**

Scan QR code or click
www.kraenzle.com/productselector

ADVANTAGES PRODUCT ADVISOR

- can also be used on smartphone and tablet
- no app download necessary
- smart and free product recommendation
- individual needs analysis
- technical data and product information included



**READY FOR
TOP PERFORMANCE
AT ANY TIME**

HIGH PRESSURE CLEANER - PROFESSIONAL

YOU CAN RELY ON KRÄNZLE

When you choose the Kränzle brand, you always get well-engineered high-pressure cleaners that convince all along the line. At our production site in Illertissen, southern Germany, every high-pressure cleaner is checked by hand before it leaves the factory. In this way, we guarantee users the highest quality, superior cleaning power and a particularly long service life.

THE KRÄNZLE PRODUCT ADVANTAGES

- high-quality materials and workmanship
- innovative design
- user-friendly handling
- environmentally conscious consumption
- extreme durability

MADE IN GERMANY

QUALITY "MADE IN GERMANY"

For us, quality already begins with product development, which is located at the Illertissen site. The production and quality control of almost all components also take place there.



QUICK RELEASE PLUG-IN SYSTEM | ANTI-TWIST PROTECTION

Sophisticated, fast and reliable: the quick release plug-in system with hardened stainless steel components ensures simple and always safe connection of the safety shut-off gun with the lance. Accessories that are equipped with an anti-twist protection can be locked in six various positions.



TOTALSTOP SYSTEM | SAFETY SHUTDOWN

Energy consumption is reduced, service life up: when closing off the high pressure gun, the motor switches off automatically, relieves the high-pressure pump and drive and reduces the noise level. If the high-pressure cleaner is accidentally not switched off, after 20 minutes it automatically goes into the safety shutdown by deactivating it.



PRESSURE REGULATION | STAINLESS STEEL PRESSURE GAUGE

With all high-pressure cleaners (except the K1050-series), the working pressure and water quantity can be individually adjusted to the respective application. The large stainless steel pressure gauge provides a clear reading of the set working pressure. It contains a glycerine liquid that dampens possible fluctuations of the pointer.



SLOW RUNNING ELECTRIC MOTOR

Economical, quiet and durable: The particularly powerful high-pressure cleaners for continuous operation are equipped with a 4-pole electric motor. Its low speed of 1400 rpm reduces the starting current, thus ensuring less wear and noise.



HOSE REEL | TWIST-STOP SCREW CONNECTION

Models with hose reel allow for neat storage of the high-pressure hose. The twist-stop screw connection also prevents the hose from twisting during work and guarantees an undisturbed cleaning process.



ROTO-MOULD CHASSIS

The practically indestructible plastic housing gives the pressure washer additional stability. Motor and pump are well protected in the frame, securely shielded from external influences. The robust chassis ensures easy transport and high stability.



AXIAL PUMP | IN-LINE RP PUMP

The heart of every Kränzle high-pressure cleaner is the solid pump head made of forged special brass. Both the proven axial pump, which has been installed for decades, and the in-line RP pump introduced in 2018 for higher flushing performance, guarantee a long service life due to low-wear components.



CLEANING-AGENT APPLICATION

Heavy soiling or where there are high levels of hygienic requirements: Our machines allow the application of special cleaning agents.



WATER BOX

A float in a water box switches off the motor pump when a certain water level is reached and prevents pump damage in the event of Lack of water.



DIRECT SUCTION WATER INLET

No water connection - no problem: high-pressure cleaners with a motor output of 1400 rpm offer the possibility of sucking water from separate containers or ponds due to the suction power of the high-pressure pumps.

INDESTRUCTIBLE, MOBILE & FAST TO HAND

"Can't be done?" These cold water high-pressure cleaners convince with their versatility, long service life and practical mobility. Whether compact and portable (HD-Series), space-saving with two wheels (K 1152-Series, K 2000-Series, Profi-Series) or universal with four wheels (small quadro-Series) - in professional and semi-professional use, they inspire the specialist and delight the do-it-yourselfer. Kränzle provides a reliable, high-quality tool for every application.



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KEY INDUSTRIES



TECHNICAL HIGHLIGHTS



QUICK RELEASE PLUG-IN SYSTEM

Sophisticated, fast and reliable: the quick release plug-in system with hardened stainless steel components ensures simple and always safe connection of the safety shut-off gun with the lance.



TWIST-STOP SCREW CONNECTION

Go along with everything: provided with all machines: A special screw connection prevents the Twisting of the high-pressure hose during work and ensures so for consistent cleaning results in every situation.



CLEANING-AGENT APPLICATION

Heavy soiling or where there are high levels of hygienic requirements: Our machines allow the application of special cleaning agents.



TOTALSTOP SYSTEM

Energy consumption is reduced, service life up: when closing off the high pressure gun, the motor switches off automatically, relieves the high-pressure pump and drive and reduces the noise level.



COMPACT DESIGN

The perfect combination of form and function: the unique housing design of the Kränzle devices facilitates transport, and saves space.



OFF-ROAD CAPABILITY AND STABILITY

Goes over rough and smooth: the robust chassis makes it easier to transport and ensures high stability during use. Small Obstacles can be avoided thanks to the large wheels without any problems.

HD-Series



600030 HD 7/122 TS

► **ACCESSORIES** | page 26-27

EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Direct suction: Suction height HD 7/122 TS: 1.5 m
- High-pressure hose with Twist-Stop screw connection



| MODEL | HD 7/122 TS | HD 10/122 TS |
|---------|-------------|--------------|
| Ord.no. | 600030 | 600080 |

TECHNICAL SPECIFICATIONS

| | | | |
|-----------------------------|----------------|--------------------|-------------------|
| Operating pressure | bar MPa | 30-120 3-12 | 30-120 3-12 |
| Water output | l/min l/h | 7 420 | 10 600 |
| Admissible overpressure | bar MPa | 135 13.5 | 135 13.5 |
| Motor speed | Rpm | 1400 | 2800 |
| Connection | V ~ Hz A | 230 1 50 7.5 | 230 1 50 11 |
| Power intake Power output | kW | 1.6 1.0 | 2.5 1.8 |
| Power supply cable | m | 5 | 5 |
| Dimensions L x W x H | mm | 440 200 330 | 440 200 330 |
| Weight | kg | 23 | 23 |

EQUIPMENT

| | | | |
|--|------------------|----------------------|----------------------|
| High-pressure hose | m Ord.no. | 10 (DN6) 43416 | 10 (DN6) 43416 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 | M2000 12481 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 028 12435-M20028 | ● 042 12435-M20042 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 028 12438-028 | ● 042 12438-042 |



HD-Series



| MODEL | HD 9/80 TS | HD 12/130 TS |
|---------|------------|--------------|
| Ord.no. | 600130 | 600180 |

TECHNICAL SPECIFICATIONS

| | | | |
|-----------------------------|----------------|--------------------|---------------------|
| Operating pressure | bar MPa | 30-80 3-8 | 30-130 3-13 |
| Water output | l/min l/h | 9 540 | 11 660 |
| Admissible overpressure | bar MPa | 90 9 | 145 14.5 |
| Motor speed | Rpm | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 7.5 | 230 1 50 13.5 |
| Power intake Power output | kW | 1.6 1.0 | 2.9 2.2 |
| Power supply cable | m | 5 | 5 |
| Dimensions L x W x H | mm | 470 230 320 | 500 240 320 |
| Weight | kg | 24 | 31 |

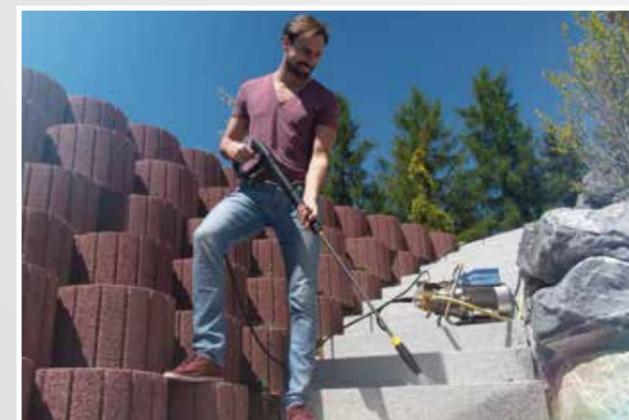
EQUIPMENT

| | | | |
|-------------------------------|------------------|----------------------|----------------------|
| High-pressure hose | m Ord.no. | 10 (DN6) 43416 | 10 (DN6) 43416 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 | M2000 12481 |
| Lance with regulating nozzle | Nozzle Ord.no. | ● 042 12436-M20042 | ● 042 12436-M20042 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 042 12438-042 | ● 042 12438-042 |

► ACCESSORIES | page 26-27

EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Cleaning Agent Intake
- Direct suction: Suction height HD 9/80 TS: 1.5 m | HD 12/130 TS: 2.5 m
- High-pressure hose with Twist-Stop screw connection



K 1152-Series



ROTO-MOULD CHASSIS
practically indestructible
plastic housing

CONVENIENT INTEGRATED HOSE REEL (TST)
space-saving storage of the high-pressure
hose with twist stop screw connection

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

ACCESSORY STORAGE
neat storage for high pressure
gun and lances

OFF-ROAD CAPABILITY AND STABILITY
robust chassis for easy transport
and high stability

602020 K 1152 TST

► **ACCESSORIES** | page 26-27



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Cleaning Agent Intake



VARIANT - NON-MARKING

| | | |
|---|---------|--------------|
| NOM conversion kit Version without drum | Ord.no. | 42250 |
| NOM conversion kit Version with drum | Ord.no. | 42251 |

For further information on NON-Marking please refer to page 67

| MODEL | K 1152 TS K 1152 TST |
|-------------------------------------|-------------------------|
| Ord.no. TS without hose drum | 602010 |
| Ord.no. TST incl. hose drum | 602020 |

TECHNICAL SPECIFICATIONS

| | | |
|-------------------------------------|----------------|-------------------|
| Operating pressure | bar MPa | 30-130 3-13 |
| Water output | l/min l/h | 10 600 |
| Admissible overpressure | bar MPa | 150 15 |
| Motor speed | Rpm | 2800 |
| Connection | V ~ Hz A | 230 1 50 12 |
| Power intake Power output | kW | 2.8 2.0 |
| Power supply cable | m | 5 |
| Dimensions L x W x H | mm | 360 365 870 |
| Weight without incl. hose drum | kg | 28 30 |

EQUIPMENT

| | | |
|---|------------------|------------------|
| High-pressure hose TS without hose drum | m Ord.no. | 10 (DN6) 43416 |
| High-pressure hose TST incl. hose drum | m Ord.no. | 15 (DN6) 48015 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 |
| Lance with Vario-Jet | Nozzle Ord.no. | 042 12437-042 |
| Lance with Dirtkiller | Nozzle Ord.no. | 042 12438-042 |



K 2000-Series



ROTO-MOULD CHASSIS
practically indestructible plastic housing

CONVENIENT INTEGRATED HOSE REEL (TST)
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

OFF-ROAD CAPABILITY AND STABILITY
robust chassis for easy transport and high stability

604020 K 2160 TST

► **ACCESSORIES** | page 26-27



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Cleaning Agent Intake
- Direct suction: Suction height 2.5 m



VARIANT - NON-MARKING

| | | |
|---|---------|---------------|
| NOM conversion kit Version without drum | Ord.no. | 42250 |
| NOM conversion kit Version with drum | Ord.no. | 42251 |
| K 2160 TST NOM ex works | Ord.no. | 604030 |

For further information on NON-Marking please refer to page 67

| MODEL | K 2160 TS K 2160 TST | K 2195 TS K 2195 TST | K 2175 TS K 2175 TST |
|-------------------------------------|-------------------------|-------------------------|-------------------------|
| Ord.no. TS without hose drum | 604010 | 604050 | 604110 |
| Ord.no. TST incl. hose drum | 604020 | 604060 | 604120 |

TECHNICAL SPECIFICATIONS

| | | | | |
|----------------------------------|----------------|-------------------|-------------------|--------------------|
| Operating pressure | bar MPa | 30-140 3-14 | 30-180 3-18 | 30-160 3-16 |
| Water output | l/min l/h | 11 660 | 8 480 | 12 720 |
| Admissible overpressure | bar MPa | 160 16 | 195 19.5 | 175 17.5 |
| Motor speed | Rpm | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 14 | 230 1 50 14 | 400 3 50 6.7 |
| Power intake Power output | kW | 3.2 2.4 | 3.2 2.4 | 3.3 2.6 |
| Power supply cable | m | 5 | 5 | 5 |
| Dimensions L x W x H | mm | 375 360 900 | 375 360 900 | 375 360 900 |
| Weight without incl. hose drum | kg | 39 40 | 39 40 | 39 40 |

EQUIPMENT

| | | | | |
|--|------------------|-------------------|------------------|-------------------|
| High-pressure hose TS without hose drum | m Ord.no. | 10 (DN6) 43416 | 10 (DN6) 43416 | 10 (DN6) 43416 |
| High-pressure hose TST incl. hose drum | m Ord.no. | 15 (DN6) 48015 | 15 (DN6) 48015 | 15 (DN6) 48015 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 | M2000 12481 | M2000 12481 |
| Lance with Vario-Jet | Nozzle Ord.no. | ● 042 12437-042 | ○ 03 12437-03 | ● 042 12437-042 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 042 12438-042 | ○ 03 12438-03 | ● 042 12438-042 |



Profi-Series



ROTO-MOULD CHASSIS
practically indestructible plastic housing

CONVENIENT INTEGRATED HOSE REEL
space-saving storage of the high-pressure hose with twist stop screw connection

WATER TANK
helps prevent damage to the device in case of water shortage

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

ACCESSORY STORAGE
neat storage for high pressure gun and lances

OFF-ROAD CAPABILITY AND STABILITY
robust chassis for easy transport and high stability

606000 Profi 160 TST

► **ACCESSORIES** | page 26-27



EQUIPMENT

Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Pressure regulation

- Cleaning Agent Intake
- Direct suction: Suction height 2.5 m
- Detachable water tank: Volume 1.3 liters



VARIANT - NON-MARKING

NOM conversion kit Ord.no. **42260**

For further information on NON-Marking please refer to page 67

| MODEL | Profi 160 TST | Profi 195 TST | Profi 175 TST |
|------------------------------------|---------------|---------------|---------------|
| Ord.no. TST incl. hose drum | 606000 | 606010 | 606100 |

TECHNICAL SPECIFICATIONS

| | | | | |
|-----------------------------|----------------|---------------------|---------------------|--------------------|
| Operating pressure | bar MPa | 30-140 3-14 | 30-170 3-17 | 30-150 3-15 |
| Water output | l/min l/h | 11 660 | 8 480 | 12 720 |
| Admissible overpressure | bar MPa | 160 16 | 195 19.5 | 175 17.5 |
| Motor speed | Rpm | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 14.3 | 230 1 50 14.3 | 400 3 50 7.2 |
| Power intake Power output | kW | 3.2 2.5 | 3.2 2.5 | 3.8 3.0 |
| Power supply cable | m | 5 | 5 | 5 |
| Dimensions L x W x H | mm | 355 375 980 | 355 375 980 | 355 375 980 |
| Weight | kg | 45 | 45 | 45 |

EQUIPMENT

| | | | | |
|--|------------------|----------------------|--------------------|----------------------|
| High-pressure hose | m Ord.no. | 15 (DN6) 43829 | 15 (DN6) 43829 | 15 (DN6) 43829 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 | M2000 12481 | M2000 12481 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 042 12435-M20042 | ○ 03 12435-M2003 | ● 042 12435-M20042 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 042 12438-042 | ○ 03 12438-03 | ● 042 12438-042 |



small quadro-Series



CONVENIENT INTEGRATED HOSE REEL
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

WATER TANK
helps prevent damage to the device in case of water shortage

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

ROTO-MOULD CHASSIS
practically indestructible plastic housing

IMPACT PROTECTION
reduces accidental damage to the high-pressure pump



608020 quadro 9/170 TST

► **ACCESSORIES** | page 26-27



EQUIPMENT

Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Cleaning Agent Intake
- Locking brake
- Water tank: Volume 5 liters



VARIANT - NON-MARKING

42252

| | | |
|---------------------------------------|---------|---------------|
| NOM conversion kit | Ord.no. | 42252 |
| quadro 11/140 TST NOM ex works | Ord.no. | 608010 |

For further information on NON-Marking please refer to page 67

| MODEL | quadro 11/140 TST | quadro 9/170 TST |
|------------------------------------|-------------------|------------------|
| Ord.no. TST incl. hose drum | 608000 | 608020 |

TECHNICAL SPECIFICATIONS

| | | | |
|-----------------------------|----------------|-------------------|-------------------|
| Operating pressure | bar MPa | 30-140 3-14 | 30-170 3-17 |
| Water output | l/min l/h | 11 660 | 9 540 |
| Admissible overpressure | bar MPa | 155 15.5 | 190 19 |
| Motor speed | Rpm | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 14 | 230 1 50 14 |
| Power intake Power output | kW | 3.3 2.4 | 3.3 2.4 |
| Power supply cable | m | 5 | 5 |
| Dimensions L x W x H | mm | 590 360 850 | 590 360 850 |
| Weight | kg | 47 | 47 |

EQUIPMENT

| | | | |
|--|------------------|----------------------|--------------------|
| High-pressure hose | m Ord.no. | 15 (DN6) 40170 | 15 (DN6) 40170 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 | M2000 12481 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 045 12435-M20045 | ○ 03 12435-M2003 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 045 12438-045 | ○ 03 12438-03 |



VARIABLE TOOL FOR VERSATILE APPLICATIONS



► **FURTHER ACCESSORIES** | starting on page 66

Practical and agile: Cleaning lances and accessories which are equipped with anti-twist protection can be locked in six different positions to prevent them from twisting.



135303

135313

| Foam injector lances | | |
|---|-------|---------------|
| Production of highly effective foam | | |
| ■ adjustable spraying angle (spot jet - flat-jet) | | |
| ■ incl. screw cap | | |
| Container | Liter | Ord.no. |
| 1 | | 135303 |
| 2 | | 135313 |

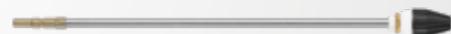
Detergent: Accessories range page 78



| M 2000 - long | | |
|--------------------|------------------------|----------|
| Ord.no. | 12481 | |
| Inlet | M22x1,5 AG | |
| Outlet | Plug-in connection D12 | |
| Operating pressure | bar MPa | 270 27 |
| Water output | l/min | 30 |
| Temperature max. | °C | 150 |



| Stainless steel lance with flat jet nozzle | | | | |
|--|----|-------------|----------------|---------------------|
| Length | mm | Nozzle size | Spraying angle | Ord.no. |
| 500 | | ○ 028 | 20° | 12435-M20028 |
| 500 | | ○ 03 | 20° | 12435-M2003 |
| 500 | | ● 042 | 20° | 12435-M20042 |
| 500 | | ● 045 | 20° | 12435-M20045 |



| Lance with Dirtkiller | | | |
|-----------------------|----|-------------|------------------|
| Length | mm | Nozzle size | Ord.no. |
| 500 | | ○ 028 | 12438-028 |
| 500 | | ○ 03 | 12438-03 |
| 500 | | ● 042 | 12438-042 |
| 500 | | ● 045 | 12438-045 |
| 500 | | ● 05 | 12438-05 |
| 500 | | ● 055 | 12438-055 |

12439-D2503



| Lance with regulating nozzle | | | | |
|--|----|-------------|----------------|---------------------|
| ■ max. 250 bar 25 MPa ■ max. 150 °C ■ with anti-twist protection | | | | |
| Length | mm | Nozzle size | Spraying angle | Ord.no. |
| 500 | | ● 042 | 20° | 12436-M20042 |
| 500 | | ○ 03 | 20° | 12439-D2503 |
| 500 | | ● 05 | 20° | 12439-D2505 |



| Lances with Vario-Jet | | | |
|------------------------------|----|-------------|------------------|
| ■ with anti-twist protection | | | |
| Length | mm | Nozzle size | Ord.no. |
| 500 | | ○ 028 | 12437-028 |
| 500 | | ○ 03 | 12437-03 |
| 500 | | ● 042 | 12437-042 |

41880



41881

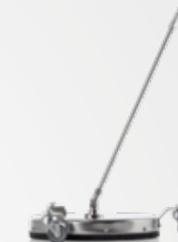
| Round Cleaner UFO long | | |
|-------------------------------|--------------|----------|
| Ord.no. without wheels | 41880 | |
| Ord.no. with wheels | 41881 | |
| ∅ | mm | 300 |
| Operating pressure | bar MPa | 180 18 |
| Water output max. | l/min | 12 |
| Nozzle size | 045 | |



| Round Cleaner UFO long stainless steel | | |
|--|--------------|----------|
| Ord.no. | 41891 | |
| ∅ | mm | 350 |
| Operating pressure | bar MPa | 210 21 |
| Water output max. | l/min | 15 |
| Nozzle size | 045 | |



| Round Cleaner INOX 300 | | |
|------------------------|--------------|------------|
| Ord.no. | 41813 | |
| ∅ | mm | 300 |
| Operating pressure | bar MPa | 160 16.0 |
| Water output max. | l/min | 12 |
| Nozzle size | 045 | |



| Round Cleaner INOX 410 | | |
|------------------------|--------------|------------|
| Ord.no. | 41814 | |
| ∅ | mm | 410 |
| Operating pressure | bar MPa | 180 18.0 |
| Water output max. | l/min | 14 |
| Nozzle size | 045 | |



| Washing brush, cross | | |
|------------------------------|----|---------------|
| ■ with anti-twist protection | | |
| Pipe length | mm | Ord.no. |
| 500 | | 128060 |
| 750 | | 128061 |



| Rotating washing brush | | |
|------------------------------|---------------|--|
| ■ with anti-twist protection | | |
| Ord.no. | 410506 | |
| Pipe length | mm | |
| 342 | | |



| Spray guard | | |
|-------------------------------------|---------------|--|
| ■ Applicable for all washing lances | | |
| Ord.no. | 132600 | |
| Below LxW | mm | |
| 285x190 | | |



| Pipe cleaning hose with nozzle | | | |
|---|---|----------------------------|-------------------------|
| ■ Operating pressure max: 200 bar 20 MPa ■ Nozzle size without front bore: KN 055 | | | |
| ■ other nozzles on request ■ Nozzle size with front bore: KNF 055 | | | |
| Length | m | Ord.no. without front bore | Ord.no. with front bore |
| 10 | | 12550 | 12550-F |
| 15 | | 125501 | 125501-F |
| 20 | | 125502 | 125502-F |



SOVEREIGN HIGH-PERFORMANCE MACHINES WITH INNOVATIVE TECHNOLOGY



They take on any challenge: In agriculture or animal husbandry, on the construction site or in industry: with up to 250 bar working pressure, these professional machines get to work powerfully everywhere, even in continuous use. In daily use, they quickly prove to be indispensable helpers.

RP High pressure cleaner with in-line RP pump:

To achieve perfect cleanliness, a particularly high flushing effect is often required. The Kränzle high-pressure cleaners with innovative in-line RP pump achieve a water output of up to 1600 l/h and meet even the highest demands efficiently and effortlessly. Even the most stubborn dirt is removed in no time at all.

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KEY INDUSTRIES



TECHNICAL HIGHLIGHTS



QUICK RELEASE PLUG-IN SYSTEM

Sophisticated, fast and reliable: the quick release plug-in system with hardened stainless steel components ensures simple and always safe connection of the safety shut-off gun with the lance. The new Starlet 3 pistol is also impressive in terms of design and comfort.



OFF-ROAD CAPABILITY AND STABILITY

Goes over rough and smooth: the robust chassis makes it easier to transport and ensures high stability during use. Small obstacles can be avoided thanks to the large wheels without any problems.



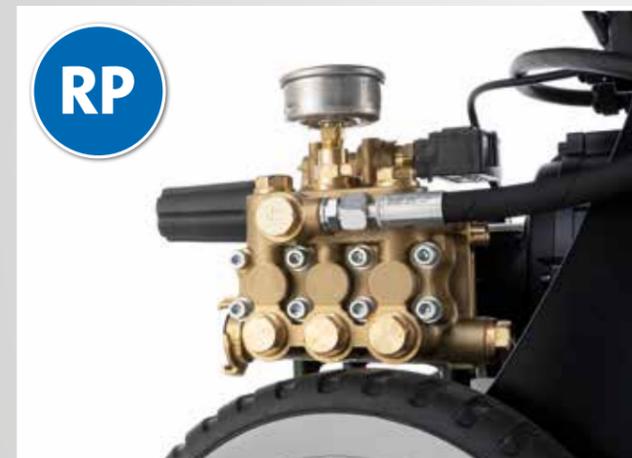
INTEGRATED HOSE REEL

Space-saving and convenient: with a folding crank handle for practical, neat storage of the high-pressure hose. A special locking device holds the reel in the desired position.



WATER BOX

Always on the safe side: a float in a water box switches off the motor pump when a certain water level is reached and prevents pump damage in the event of lack of water (on quadro models).



INNOVATIVE IN-LINE RP PUMP

Proven technology convincingly enhanced: a Crankshaft moves the plungers in line via connecting rods the in-line pump. This special design enables even greater water flow with significantly higher washing effect than conventional pumps and ensures impressive properties:

- Power transmission as with a car engine via stable crankshaft, connecting rod and plunger
- extremely long service life
- integrated unloader valve
- Total-stop system with delayed engine shutdown

medium quadro-Series



WATER TANK
helps prevent damage to the device in case of water shortage

ROTO-MOULD CHASSIS
practically indestructible plastic housing

CONVENIENT INTEGRATED HOSE REEL (TST)
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

IMPACT PROTECTION
reduces accidental damage to the high-pressure pump

610120 quadro 899 TST

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown

- Pressure regulation
- Cleaning Agent Intake
- Locking brake
- Water tank: Volume 10 liters



VARIANT - NON-MARKING

42272

| | | |
|---|---------|---------------|
| NOM conversion kit | Ord.no. | 42272 |
| NOM conversion kit quadro 899 TST | Ord.no. | 42271 |
| quadro 799 TST NOM ex works | Ord.no. | 610110 |

For further information on NON-Marking please refer to page 67



| MODEL | quadro 599 TST | quadro 799 TST | quadro 899 TST |
|------------------------------------|----------------|----------------|----------------|
| Ord.no. TST incl. hose drum | 610000 | 610100 | 610120 |

TECHNICAL SPECIFICATIONS

| | | | | |
|-----------------------------|----------------|-------------------|--------------------|--------------------|
| Operating pressure | bar MPa | 30-150 3-15 | 30-180 3-18 | 30-150 3-15 |
| Water output | l/min l/h | 10 600 | 13 780 | 15 900 |
| Admissible overpressure | bar MPa | 165 16.5 | 200 20 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 14 | 400 3 50 8.5 | 400 3 50 8.5 |
| Power intake Power output | kW | 3.3 2.4 | 5.5 4.0 | 5.5 4.0 |
| Power supply cable | m | 5 | 7.5 | 7.5 |
| Dimensions L x W x H | mm | 780 395 870 | 780 395 870 | 780 395 870 |
| Weight | kg | 63 | 63 | 63 |

EQUIPMENT

| | | | | |
|--|------------------|----------------------|----------------------|---------------------|
| High-pressure hose | m Ord.no. | 20 (DN6) 434161 | 20 (DN6) 434161 | 15 (DN8) 44879 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 035 12420-D25035 | ● 045 12420-D25045 | ● 06 12420-D2506 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 035 12425-035 | ● 045 12425-045 | ● 06 12425-06 |



large quadro-Series



CONVENIENT INTEGRATED HOSE REEL (TST)
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

WATER TANK
helps prevent damage to the device in case of water shortage

STAINLESS STEEL CHASSIS
durable and corrosion resistant

IMPACT PROTECTION
reduces accidental damage to the high-pressure pump

612120 quadro 1200 TST

► **ACCESSORIES** | starting on page 66



EQUIPMENT

Quick release plug-in system D12

- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Pressure regulation

- Cleaning Agent Intake
- Stainless steel undercarriage
- Locking brake
- Water tank: Volume 12 liters



VARIANT - NON-MARKING

42280

| | | |
|---|---------|---------------|
| NOM conversion kit Version without drum | Ord.no. | 42280 |
| NOM conversion kit Version with drum | Ord.no. | 42282 |
| quadro 1200 TST NOM ex works | Ord.no. | 612130 |

For further information on NON-Marking please refer to page 67

| MODEL | quadro 800 TST | quadro 1000 TS quadro 1000 TST | quadro 1200 TS quadro 1200 TST |
|-------------------------------------|----------------|-----------------------------------|-----------------------------------|
| Ord.no. TS without hose drum | – | 612080 | 612110 |
| Ord.no. TST incl. hose drum | 612060 | 612090 | 612120 |

TECHNICAL SPECIFICATIONS

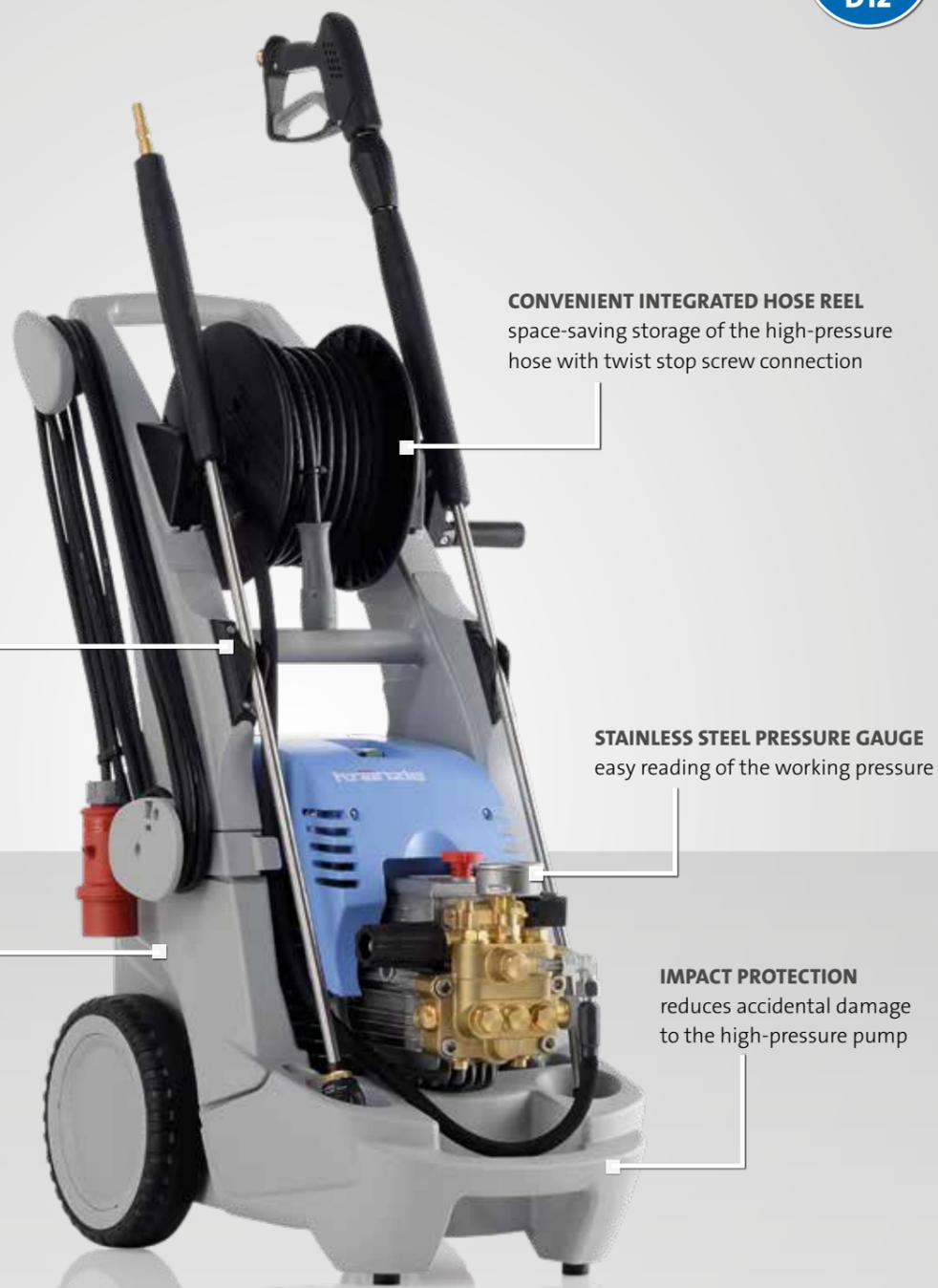
| | | | | |
|----------------------------------|----------------|-------------------|-------------------|-------------------|
| Operating pressure | bar MPa | 30-250 3-25 | 30-220 3-22 | 30-180 3-18 |
| Water output | l/min l/h | 13.3 800 | 16 960 | 19 1140 |
| Admissible overpressure | bar MPa | 270 27 | 250 25 | 200 20 |
| Motor speed | Rpm | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 12 | 400 3 50 12 | 400 3 50 12 |
| Power intake Power output | kW | 7.5 5.5 | 7.5 5.5 | 7.5 5.5 |
| Power supply cable | m | 7.5 | 7.5 | 7.5 |
| Dimensions L x W x H | mm | 770 570 990 | 770 570 990 | 770 570 990 |
| Weight without incl. hose drum | kg | – 89 | 83 89 | 83 89 |

EQUIPMENT

| | | | | |
|--|------------------|---------------------|---------------------|---------------------|
| High-pressure hose TS without hose drum | m Ord.no. | – | 10 (DN8) 41081 | 10 (DN8) 41081 |
| High-pressure hose TST incl. hose drum | m Ord.no. | 20 (DN8) 41083 | 20 (DN8) 41083 | 20 (DN8) 41083 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 04 12420-D2504 | ● 05 12420-D2505 | ● 07 12420-D2507 |
| Lance with Turbokiller (**for TST series only) | Nozzle Ord.no. | ● 04 12430-04 | ● 05 12430-05 ** | ● 07 12430-07 ** |



bully-Series



CONVENIENT INTEGRATED HOSE REEL
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

ROTO-MOULD CHASSIS
practically indestructible plastic housing

IMPACT PROTECTION
reduces accidental damage to the high-pressure pump

614050 bully 1000 TST

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Direct suction: Suction height 2.5 m



VARIANT - NON-MARKING

NOM conversion kit Ord.no. **42274**

For further information on NON-Marking please refer to page 67

| MODEL | bully 1000 TST | bully 1200 TST |
|------------------------------------|----------------|----------------|
| Ord.no. TST incl. hose drum | 614050 | 614060 |

TECHNICAL SPECIFICATIONS

| | | | |
|-----------------------------|----------------|-------------------|-------------------|
| Operating pressure | bar MPa | 30-200 3-20 | 30-160 3-16 |
| Water output | l/min l/h | 16 960 | 19 1140 |
| Admissible overpressure | bar MPa | 230 23 | 180 18 |
| Motor speed | Rpm | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 12 | 400 3 50 12 |
| Power intake Power output | kW | 7.5 5.5 | 7.5 5.5 |
| Power supply cable | m | 7.5 | 7.5 |
| Dimensions L x W x H | mm | 730 425 970 | 730 425 970 |
| Weight | kg | 62 | 62 |

EQUIPMENT

| | | | |
|--|------------------|---------------------|----------------------|
| High-pressure hose | m Ord.no. | 15 (DN8) 46411 | 15 (DN8) 46411 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 05 12420-D2505 | ● 075 12420-D25075 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 05 12425-05 | ● 075 12425-075 |



WS-RP-Series | WSC-RP-Series



WALL MOUNTABLE
for secure fixing to the wall

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PROTECTIVE COVER (WSC-RP)
protects against external contamination, durable and corrosion resistant

RP IN-LINE PUMP
for magnificent cleaning results with maximum water flow

622120 WS-RP 1200 TS
622130 WSC-RP 1200 TS

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle in-line RP pump
- Standing device and wall unit
- Total-stop system with delayed motor cut-off

- Safety shutdown
- Pressure regulation
- Stainless-steel housing (WSC-RP)
- High-pressure hose with Twist-Stop screw connection



Conversion kit - flow monitor

For leakage protection in the pipe network. Suitable for non-monitored areas.

| | |
|----------------|---------------|
| Ord.no. | 126342 |
| Flow rate | l/min 4 |



| MODEL | WS-RP 1000 TS WSC-RP 1000 TS | WS-RP 1200 TS WSC-RP 1200 TS | WS-RP 1400 TS WSC-RP 1400 TS | WS-RP 1600 TS WSC-RP 1600 TS |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Ord.no. WS without cover | 622100 | 622120 | 622140 | 622160 |
| Ord.no. WSC with cover | 622110 | 622130 | 622150 | 622170 |

TECHNICAL SPECIFICATIONS

| | | | | | |
|-----------------------------|----------------|---------------------|---------------------|---------------------|---------------------|
| Operating pressure | bar MPa | 30-200 3-20 | 30-190 3-19 | 30-170 3-17 | 30-150 3-15 |
| Water output | l/min l/h | 16.6 1000 | 20 1200 | 23.3 1400 | 26.7 1600 |
| Admissible overpressure | bar MPa | 220 22 | 210 21 | 200 20 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 13.5 | 400 3 50 14.3 | 400 3 50 14.3 | 400 3 50 14.3 |
| Power intake Power output | kW | 7.5 6.0 | 8.0 6.3 | 8.0 6.3 | 8.0 6.3 |
| Power supply cable | m | 7.5 | 7.5 | 7.5 | 7.5 |
| Plug | | CEE 32 A | CEE 32 A | CEE 32 A | CEE 32 A |
| Dimensions L x W x H | mm | 670 430 510 | 670 430 510 | 670 430 510 | 670 430 510 |
| Weight without with cover | kg | 62 65 | 62 65 | 62 65 | 62 65 |

EQUIPMENT

| | | | | | |
|--|------------------|---------------------|----------------------|---------------------|---------------------|
| High-pressure hose | m Ord.no. | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 05 12420-D2505 | ● 065 12420-D25065 | ● 08 12420-D2508 | ● 11 12420-D2511 |



**ACCESSORIES ORGANISER
EVERYTHING IN PLACE**

Optimize working with your stationary high-pressure cleaner with practical accessories such as lance holders and automatic hose reels.

All accessory organisers
on page 80-81

LX-RP-Series



STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

RP IN-LINE PUMP
for magnificent cleaning results with maximum water flow

CONVENIENT INTEGRATED HOSE REEL
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PROTECTIVE COVER
durable and corrosion resistant

IMPACT PROTECTION
reduces accidental damage to the high-pressure pump

616080 LX-RP 1600 TST

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle in-line RP pump
- Pressure regulation
- Locking brake
- Safety shutdown
- Direct suction: Suction height 2.5 m



VARIANT - NON-MARKING

NOM conversion kit Ord.no. **42283**

For further information on NON-Marking please refer to page 67

| MODEL | LX-RP 1200 TST | LX-RP 1400 TST | LX-RP 1600 TST |
|------------------------------------|----------------|----------------|----------------|
| Ord.no. TST incl. hose drum | 616060 | 616070 | 616080 |

TECHNICAL SPECIFICATIONS

| | | | | |
|-----------------------------|----------------|---------------------|---------------------|---------------------|
| Operating pressure | bar MPa | 30-190 3-19 | 30-170 3-17 | 30-150 3-15 |
| Water output | l/min l/h | 20 1200 | 23.3 1400 | 26.7 1600 |
| Admissible overpressure | bar MPa | 210 21 | 190 19 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 14.3 | 400 3 50 14.3 | 400 3 50 14.3 |
| Power intake Power output | kW | 8.0 6.3 | 8.0 6.3 | 8.0 6.3 |
| Power supply cable | m | 7.5 | 7.5 | 7.5 |
| Plug | | CEE 32 A | CEE 32 A | CEE 32 A |
| Dimensions L x W x H | mm | 735 580 1020 | 735 580 1020 | 735 580 1020 |
| Weight | kg | 94 | 94 | 94 |

EQUIPMENT

| | | | | |
|--|------------------|----------------------|---------------------|---------------------|
| High-pressure hose | m Ord.no. | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 065 12420-D40065 | ● 08 12420-D4008 | ● 11 12420-D4011 |





TECHNICAL HIGHLIGHTS

HIGH PRESSURE CLEANERS WITH INTERNAL COMBUSTION ENGINE

EXCEPTIONAL CLEANING RESULTS, ANYWHERE, EVERY TIME

For these machines nowhere is too far: Kränzle high-pressure cleaners with petrol engines allow an almost unlimited radius of action. The reliable and maintenance-friendly Machines are reliable in every situation. Even a water connection is not absolutely necessary. Thanks to the suction hose the appliance can take water from pools, lakes or rivers, with a prefilter to protect against contamination. Highest cleaning power for convincing results are thus available everywhere.

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| B-Series | 46-47 |
|  Accessories for plug-in system D12 | 66-82 |

KEY INDUSTRIES



PROVEN ENGINES

Service-friendly and economical: the reliable Honda Motors with low oil protection. Fuel consumption and noise development can be reduced via the optional speed regulation.



OPERATION WITHOUT POWER/WATER CONNECTION

No electricity - no problem: petrol-powered engines are devices independent of the power supply, the Suction hose with suction filter for water basins or lakes do not require a mains water connection.

Profi-Jet-Series



CARRY HANDLE
portable and space-saving compact design

STAINLESS STEEL PROTECTIVE COVER
protects against external contamination,
durable and corrosion resistant



STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

HONDA PETROL ENGINE
reliable, service-friendly, L-type
reduction version for optimum pair-
ing, and with low oil protection

618001 Profi-Jet B 13/150

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Combustion engine Honda
- Pressure regulation
- Direct suction: Suction height 2.5 m
- High-pressure hose with Twist-Stop screw connection



| MODEL | Profi-Jet B 13/150 | Profi-Jet B 10/200 |
|---------|--------------------|--------------------|
| Ord.no. | 618001 | 618021 |

TECHNICAL SPECIFICATIONS

| | | | |
|-------------------------|-------------|-----------------|-----------------|
| Operating pressure | bar MPa | 30-150 3-15 | 30-200 3-20 |
| Water output | l/min l/h | 13 780 | 10 600 |
| Admissible overpressure | bar MPa | 170 17 | 220 22 |
| Engine | | Honda GX160 LX | Honda GX200 LX |
| Dimensions L x W x H | mm | 520 360 420 | 520 360 420 |
| Weight | kg | 35 | 35 |

EQUIPMENT

| | | | |
|-------------------------------|------------------|--------------------|--------------------|
| High-pressure hose | m Ord.no. | 10 (DN8) 44878 | 10 (DN8) 41081 |
| Trigger gun with safety catch | Model Ord.no. | M2000 12481 | M2000 12481 |
| Lance with regulating nozzle | Nozzle Ord.no. | ● 05 12439-D2505 | ○ 03 12439-D2503 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 05 12438-05 | ○ 03 12438-03 |
| Water inlet filter | Ord.no. | 13310 | 13310 |



Profi-Jet-Series



STAINLESS STEEL CHASSIS
durable and corrosion resistant

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

HONDA PETROL ENGINE
reliable, service-friendly, L-type reduction version for optimum pairing, and with low oil protection

AUTOMATIC SPEED REGULATION
reduces fuel consumption and noise levels (from model Profi-Jet B 16/220)

618049 Profi-Jet B 16/220

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Combustion engine Honda
- Pressure regulation
- Direct suction: Suction height 2.5 m



| MODEL | Profi-Jet B 13/150 | Profi-Jet B 10/200 | Profi-Jet B 16/220 | Profi-Jet B 20/200 | Profi-Jet B 16/250 |
|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Ord.no. without hose drum | 618003 | 618023 | 618045 | 618065 | 618085 |
| Ord.no. incl. hose drum | 618007 | 618027 | 618049 | 618069 | 618089 |

TECHNICAL SPECIFICATIONS

| | | | | | | |
|--|-------------|------------------|------------------|------------------|------------------|------------------|
| Operating pressure | bar MPa | 30-150 3-15 | 30-200 3-20 | 30-220 3-22 | 30-200 3-20 | 30-250 3-25 |
| Water output | l/min l/h | 13 780 | 10 600 | 16 960 | 20 1200 | 16 960 |
| Admissible overpressure | bar MPa | 170 17 | 220 22 | 240 24 | 220 22 | 270 27 |
| Engine | | Honda GX160 LX | Honda GX200 LX | Honda GX340 LX | Honda GX390 LX | Honda GX390 LX |
| Speed adjustment | | – | – | ● | ● | ● |
| Dimensions L x W x H without hose drum | mm | 770 570 990 | 770 570 990 | 770 570 990 | 770 570 990 | 770 570 990 |
| Dimensions L x W x H incl. hose drum | mm | 770 570 1005 | 770 570 1005 | 785 570 1005 | 785 570 1005 | 785 570 1005 |
| Weight without incl. hose drum | kg | 42 50 | 42 50 | 65 73 | 65 73 | 65 73 |

EQUIPMENT

| | | | | | | |
|---|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 44878 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 |
| High-pressure hose incl. hose drum | m Ord.no. | 20 (DN8) 41083 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 |
| Lance with regulating nozzle | Nozzle Ord.no. | ● 05 12431-D2505 | ○ 03 12431-D2503 | ● 05 12431-D2505 | ● 07 12431-D2507 | ● 045 12431-D25045 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 05 12425-05 | ○ 03 12425-03 | – | – | – |
| Lance with Turbokiller | Nozzle Ord.no. | – | – | ● 05 12430-05 | ● 07 12430-07 | ● 045 12430-045 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 | 13310 | 13310 |



Suction hose with suction filter

EXPERT TIP

For sucking in water from external sources
■ Hose length 3 m

| | |
|---------|--------|
| Ord.no. | 150383 |
|---------|--------|

B-Series



CONVENIENT INTEGRATED HOSE REEL
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

HONDA PETROL ENGINE
reliable, service-friendly, L-type reduction version for optimum pairing, and with low oil protection

AUTOMATIC SPEED REGULATION
reduces fuel consumption and noise levels (from model B 230 T)

IMPACT PROTECTION
reduces accidental damage to the high-pressure pump

620023 B 240 T

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Combustion engine Honda
- Pressure regulation
- Locking brake
- Direct suction: Suction height 2.5 m



| MODEL | B 170 T | B 230 T | B 240 T | B 270 T |
|-------------------------|---------------|---------------|---------------|---------------|
| Ord.no. incl. hose drum | 620001 | 620013 | 620023 | 620033 |

TECHNICAL SPECIFICATIONS

| | | | | | |
|-------------------------|-------------|-----------------|-----------------|-----------------|-----------------|
| Operating pressure | bar MPa | 30-150 3-15 | 30-200 3-20 | 30-220 3-22 | 30-250 3-25 |
| Water output | l/min l/h | 12.5 750 | 20 1200 | 16 960 | 16 960 |
| Admissible overpressure | bar MPa | 170 17 | 230 23 | 240 24 | 270 27 |
| Engine | | Honda GX160 LX | Honda GX390 LX | Honda GX340 LX | Honda GX390 LX |
| Speed adjustment | | – | ● | ● | ● |
| Dimensions L x W x H | mm | 720 570 960 | 720 570 960 | 720 570 960 | 720 570 960 |
| Weight | kg | 67 | 92 | 92 | 92 |

EQUIPMENT

| | | | | | |
|-------------------------------|------------------|---------------------|---------------------|---------------------|----------------------|
| High-pressure hose | m Ord.no. | 20 (DN8) 41083 | 20 (DN8) 41083 | 20 (DN8) 41083 | 20 (DN8) 41083 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 |
| Lance with regulating nozzle | Nozzle Ord.no. | ● 05 12431-D2505 | ● 07 12431-D2507 | ● 05 12431-D2505 | ● 045 12431-D25045 |
| Lance with Dirtkiller | Nozzle Ord.no. | ● 05 12425-05 | – | – | – |
| Lance with Turbokiller | Nozzle Ord.no. | – | ● 07 12430-07 | ● 05 12430-05 | ● 045 12430-045 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 | 13310 |



Suction hose with suction filter **EXPERT TIP**

For sucking in water from external sources
■ Hose length 3 m

| | |
|---------|---------------|
| Ord.no. | 150383 |
|---------|---------------|

MAXIMUM CLEANING EFFICIENCY WITH HOT WATER



Dirt, bacteria and viruses make a big fuss: some contaminants, such as grease or oil, are difficult to remove. But it is easier with hot water. This is where Kränzle hot water high-pressure cleaners come into play. Their high water temperatures of up to 155 °C in the steam stage increase the cleaning power and also have a disinfecting effect.

RP High pressure cleaner with in-line RP pump:

Our flagship for the very highest requirements: The Kränzle therm RP series with innovative in-line pump delivers hot water at high pressure and is particularly suitable for applications where an above-average flushing effect at high working pressure is required. With a water output of up to 1600 l/h, even the most stubborn dirt does not stand a chance.

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| RP Accessories for plug-in system D12 | 66-82 |

KEY INDUSTRIES



TECHNICAL HIGHLIGHTS



TWIST-STOP SCREW CONNECTION

Go along with everything: provided with all machines: A special screw connection prevents the Twisting of the high-pressure hose during work and ensures so for consistent cleaning results in every situation.



DIGITAL CONTROL PANEL

With the digital temperature control, the water temperature and the heat output can be measured exactly and can be controlled via two operating modes. This gives the ability to work precisely even with partial water quantities and low temperatures.



SAFETY DEVICES

Protection at every aspect: features such as a safety valve, flow monitor, optical flame monitoring, overcurrent release, pressure switch and low fuel cut-off switch ensure for absolute safe operation.



OPTICAL FLAME MONITORING AND THERMAL OVERLOAD PROTECTION

Electronic monitoring of combustion: Kränzle therm devices have a photocell to monitor the burner flame. This ensures safe operation at all times, even if the user is not near. Additionally, an overheating protection sensor measures the temperature at the exhaust; switching off heating automatically if more than 260°C is detected.

(Exception: entry-level model therm-CA)



TOTAL-STOP SYSTEM WITH DELAYED MOTOR SHUTDOWN

Energy consumption is reduced, longer life: when closing the high pressure gun the motor switches off automatically, relieves the high-pressure pump and drive and reduces noise. Thanks to a small time-delay when switching off machines means that with very short work breaks the full working pressure is immediately restored.



INNOVATIVE IN-LINE RP PUMP

Proven technology convincingly enhanced: a Crankshaft moves the plungers in line via connecting rods the in-line pump. This special design enables even greater water flow with significantly higher washing effect than conventional pumps and ensures impressive properties:

- Power transmission as with a car engine
- extremely long service life
- integrated unloader valve
- Total-stop system

therm-RP-Series



ACCESSORY STORAGE
neat storage for high pressure gun and lances

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

REMOVABLE COVERS
convenient and easy service access

DIGITAL CONTROL PANEL
digital temperature regulation with 2 different operation modes

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION
(on page 49)

638210 therm-RP 1000

► **ACCESSORIES** | starting on page 66

EQUIPMENT

- Quick release plug-in system D12
- RP Kränzle in-line RP pump
 - Total-stop system with delayed motor cut-off
 - Safety shutdown
 - Pressure regulation
 - Cleaning Agent Intake
 - Locking brake
 - Direct suction: Suction height 2.5 m
 - Water tank: Volume 12 liters
 - optional: Stainless steel heating coil



EQUIPMENT HOT WATER

- Digital thermostat
- Flow monitor
- Combustion chamber pre-ventilation
- Visual flame monitoring
- Overheating protection (exhaust temperature in excess of 260 °C)
- Burner stops when there is a lack of heating oil
- Operating hours meter
- Fuel tank: 35 liters



42280

VARIANT - NON-MARKING

| | | |
|---|---------|--------------|
| NOM conversion kit Version without drum | Ord.no. | 42280 |
| NOM conversion kit Version with drum | Ord.no. | 42281 |

For further information on NON-Marking please refer to page 67

| MODEL | therm-RP 1000 | therm-RP 1200 | therm-RP 1400 | therm-RP 1600 |
|--|---------------|---------------|---------------|---------------|
| Ord.no. without hose drum | 638200 | 638400 | 638600 | 638800 |
| Ord.no. incl. hose drum | 638210 | 638410 | 638610 | 638810 |
| Ord.no. without hose drum ► with stainless steel heating coil | 638250 | 638450 | 638650 | 638850 |
| Ord.no. incl. hose drum ► with stainless steel heating coil | 638260 | 638460 | 638660 | 638860 |

TECHNICAL SPECIFICATIONS

| | | | | | |
|--|----------------|---------------------|---------------------|---------------------|---------------------|
| Operating pressure | bar MPa | 70-200 7-20 | 70-190 7-19 | 70-170 7-17 | 70-150 7-15 |
| Water output | l/min l/h | 16.6 1000 | 20 1200 | 23.3 1400 | 26.7 1600 |
| Admissible overpressure | bar MPa | 220 22 | 210 21 | 190 19 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 13.5 | 400 3 50 14.3 | 400 3 50 14.3 | 400 3 50 14.3 |
| Power intake Power output | kW | 7.5 6.0 | 8.0 6.3 | 8.0 6.3 | 8.0 6.3 |
| Power supply cable | m | 7.5 | 7.5 | 7.5 | 7.5 |
| Plug | | CEE 32 A | CEE 32 A | CEE 32 A | CEE 32 A |
| Dimensions L x W x H without hose drum | mm | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 |
| Dimensions L x W x H incl. hose drum | mm | 1050 800 1300 | 1050 800 1300 | 1050 800 1300 | 1050 800 1300 |
| Weight without incl. hose drum | kg | 210 218 | 210 218 | 210 218 | 210 218 |

TECHNICAL DATA HOT WATER

| | | | | | |
|--|------------|-----------|-----------|-----------|-----------|
| Hot water output | °C | 12-80 | 12-80 | 12-80 | 12-80 |
| Steam level | °C | 140 | 140 | 140 | 140 |
| Oil consumption at max. heating output | kg/h l/h | 6.0 7.0 | 7.7 9.2 | 7.7 9.2 | 7.7 9.2 |
| Heating oil consumption ΔT 45° | kg/h l/h | 5.6 6.6 | 5.6 6.6 | 5.6 6.6 | 5.6 6.6 |
| Heating output | kW | 65 | 84 | 84 | 84 |

EQUIPMENT

| | | | | | |
|--|------------------|---------------------|----------------------|---------------------|---------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 |
| High-pressure hose incl. hose drum | m Ord.no. | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 05 12420-D2505 | ● 065 12420-D25065 | ● 08 12420-D2508 | ● 11 12420-D2511 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 | 13310 |

* Starlet 3 replaces Starlet short (123272) as of March / April 2022

therm-RP-Series



REMOVABLE COVERS
convenient and easy service access

DIGITAL CONTROL PANEL
digital temperature regulation with 2 different operation modes

ACCESSORY STORAGE
neat storage for high pressure gun and lances

AUTOMATIC HOSE REEL
automatic hose retraction with Twist-Stop screw connection

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION
(on page 49)

638620 therm-RP 1400 AT

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Automatic hose drum
 - Total-stop system with delayed motor cut-off
 - Safety shutdown
 - Pressure regulation
 - Cleaning Agent Intake
 - Locking brake
 - Direct suction: Suction height 2.5 m
 - Water tank: Volume 12 liters

EQUIPMENT HOT WATER

- Digital thermostat
- Flow monitor
- Combustion chamber pre-ventilation
- Visual flame monitoring
- Overheating protection (exhaust temperature in excess of 260 °C)
- Burner stops when there is a lack of heating oil
- Operating hours meter
- Fuel tank: 35 liters

AUTOMATIC HOSE DRUM

By means of a return spring inside the drum the high pressure hose is automatically rolled up. Guide rollers enable flexible rolling up in all directions.



| MODEL | therm-RP 1000 AT | therm-RP 1200 AT | therm-RP 1400 AT | therm-RP 1600 AT |
|----------------|------------------|------------------|------------------|------------------|
| Ord.no. | 638220 | 638420 | 638620 | 638820 |

TECHNICAL SPECIFICATIONS

| | | | | | |
|-----------------------------|----------------|---------------------|---------------------|---------------------|---------------------|
| Operating pressure | bar MPa | 70-200 7-20 | 70-190 7-19 | 70-170 7-17 | 70-150 7-15 |
| Water output | l/min l/h | 16.6 1000 | 20 1200 | 23.3 1400 | 26.7 1600 |
| Admissible overpressure | bar MPa | 220 22 | 210 21 | 190 19 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 13.5 | 400 3 50 14.3 | 400 3 50 14.3 | 400 3 50 14.3 |
| Power intake Power output | kW | 7.5 6.0 | 8.0 6.3 | 8.0 6.3 | 8.0 6.3 |
| Power supply cable | m | 7.5 | 7.5 | 7.5 | 7.5 |
| Plug | | CEE 32 A | CEE 32 A | CEE 32 A | CEE 32 A |
| Dimensions L x W x H | mm | 1300 800 1015 | 1300 800 1015 | 1300 800 1015 | 1300 800 1015 |
| Weight | kg | 240 | 240 | 240 | 240 |

TECHNICAL DATA HOT WATER

| | | | | | |
|--|------------|-----------|-----------|-----------|-----------|
| Hot water output | °C | 12-80 | 12-80 | 12-80 | 12-80 |
| Steam level | °C | 140 | 140 | 140 | 140 |
| Oil consumption at max. heating output | kg/h l/h | 6.0 7.0 | 7.7 9.2 | 7.7 9.2 | 7.7 9.2 |
| Heating oil consumption ΔT 45° | kg/h l/h | 5.6 6.6 | 5.6 6.6 | 5.6 6.6 | 5.6 6.6 |
| Heating output | kW | 65 | 84 | 84 | 84 |

EQUIPMENT

| | | | | | |
|--|------------------|---------------------|----------------------|---------------------|---------------------|
| High-pressure hose | m Ord.no. | 20 (DN8) 41083 | 20 (DN8) 41083 | 20 (DN8) 41083 | 20 (DN8) 41083 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 05 12420-D2505 | ● 065 12420-D25065 | ● 08 12420-D2508 | ● 11 12420-D2511 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 | 13310 |

therm-1-Series



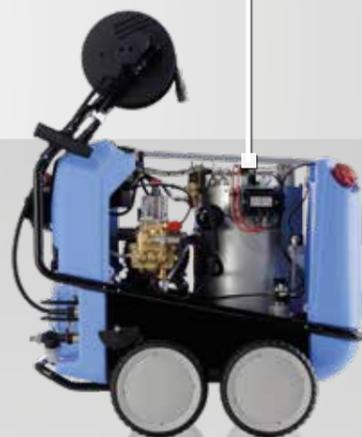
ACCESSORY STORAGE
neat storage for high pressure gun and lances

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

REMOVABLE COVERS
convenient and easy service access

DIGITAL CONTROL PANEL
digital temperature regulation with 2 different operation modes

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION
(on page 49)



634410 therm 895-1

► **ACCESSORIES** | starting on page 66



EQUIPMENT

Quick release plug-in system D12

- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Pressure regulation
- Cleaning Agent Intake
- Locking brake
- Direct suction (therm 895-1, therm 1165-1): Suction height 2.5 m
- Water tank: Volume 12 liters

EQUIPMENT HOT WATER

- Digital thermostat
- Flow monitor
- Combustion chamber pre-ventilation
- Visual flame monitoring
- Overheating protection (exhaust temperature in excess of 260 °C)
- Burner stops when there is a lack of heating oil
- Operating hours meter
- Fuel tank: 35 liters



VARIANT - NON-MARKING

| | | |
|---|---------|--------------|
| NOM conversion kit Version without drum | Ord.no. | 42280 |
| NOM conversion kit Version with drum | Ord.no. | 42281 |



42280

For further information on NON-Marking please refer to page 67

| MODEL | therm 635-1 | therm 875-1 | therm 895-1 | therm 1165-1 |
|----------------------------------|---------------|---------------|---------------|---------------|
| Ord.no. without hose drum | 634000 | 634200 | 634400 | 634600 |
| Ord.no. incl. hose drum | 634010 | 634210 | 634410 | 634610 |

TECHNICAL SPECIFICATIONS

| | | | | | |
|--|----------------|-------------------|--------------------|-------------------|-------------------|
| Operating pressure | bar MPa | 30-130 3-13 | 30-175 3-17.5 | 30-195 3-19.5 | 30-165 3-16.5 |
| Water output | l/min l/h | 10.6 635 | 14.6 875 | 14.9 895 | 19.4 1165 |
| Admissible overpressure | bar MPa | 145 14.5 | 190 19 | 215 21.5 | 180 18 |
| Motor speed | Rpm | 1400 | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 15 | 400 3 50 8.7 | 400 3 50 12 | 400 3 50 12 |
| Power intake Power output | kW | 3.4 2.3 | 4.8 4.0 | 6.4 5.0 | 6.4 5.0 |
| Power supply cable | m | 5 | 7.5 | 7.5 | 7.5 |
| Dimensions L x W x H without hose drum | | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 |
| Dimensions L x W x H incl. hose drum | mm | 1050 800 1300 | 1050 800 1300 | 1050 800 1300 | 1050 800 1300 |
| Weight without incl. hose drum | kg | 197 205 | 197 205 | 214 222 | 214 222 |

TECHNICAL DATA HOT WATER

| | | | | | |
|--|------------|-----------|-----------|-----------|-----------|
| Hot water output | °C | 12-89 | 12-87 | 12-86 | 12-82 |
| Steam level | °C | 145 | 155 | 155 | 155 |
| Oil consumption at max. heating output | kg/h l/h | 5.1 6.1 | 5.8 6.8 | 6.0 7.1 | 7.1 8.5 |
| Heating oil consumption ΔT 45° | kg/h l/h | 3.2 3.8 | 4.2 5.0 | 4.3 5.1 | 5.6 6.6 |
| Heating output | kW | 55 | 60 | 65 | 78 |

EQUIPMENT

| | | | | | |
|--|------------------|----------------------|----------------------|----------------------|---------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 |
| High-pressure hose incl. hose drum | m Ord.no. | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 045 12420-D25045 | ● 045 12420-D25045 | ● 045 12420-D25045 | ● 07 12420-D2507 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 | 13310 |

therm 1017-Series



ACCESSORY STORAGE
neat storage for high pressure gun and lances

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

CONTROL PANEL
analogue temperature regulation

REMOVABLE COVERS
convenient and easy service access

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION
(on page 49)

632210 therm 1017



| MODEL | therm 1017 |
|---------------------------|------------|
| Ord.no. without hose drum | 632200 |
| Ord.no. incl. hose drum | 632210 |

TECHNICAL SPECIFICATIONS

| | | |
|--|----------------|--------------------|
| Operating pressure | bar MPa | 30-150 3-15 |
| Water output | l/min l/h | 16.7 1000 |
| Admissible overpressure | bar MPa | 170 17 |
| Motor speed | Rpm | 1400 |
| Connection | V ~ Hz A | 400 3 50 8.5 |
| Power intake Power output | kW | 5.5 4.0 |
| Power supply cable | m | 7.5 |
| Dimensions L x W x H without hose drum | mm | 1050 800 1015 |
| Dimensions L x W x H incl. hose drum | mm | 1050 800 1300 |
| Weight without incl. hose drum | kg | 193 198 |

TECHNICAL DATA HOT WATER

| | | |
|--|------------|----------------------------|
| Hot water output | °C | 12-80 |
| Steam level | °C | 140 |
| Oil consumption at max. heating output | kg/h l/h | 6.2 7.4 ▶ eco: 4.8 6.3 |
| Heating oil consumption ΔT 45° | kg/h l/h | 5.6 6.6 |
| Heating output | kW | 68 |

EQUIPMENT

| | | |
|--|------------------|---------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 44878 |
| High-pressure hose incl. hose drum | m Ord.no. | 20 (DN8) 44877 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 06 12420-D2506 |
| Water inlet filter | Ord.no. | 13310 |

► **ACCESSORIES** | starting on page 66

EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Pressure regulation
- Cleaning Agent Intake
- Locking brake
- Direct suction: Suction height 2.5 m
- Water tank: Volume 12 liters



EQUIPMENT HOT WATER

- Eco mode
- Flow monitor
- Combustion chamber pre-ventilation
- Visual flame monitoring
- Overheating protection (exhaust temperature in excess of 260 °C)
- Burner stops when there is a lack of heating oil
- Fuel tank: 35 liters

therm-C-Series



CONTROL PANEL
analogue temperature regulation

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

ACCESSORY STORAGE
neat storage for high pressure gun and lances

REMOVABLE COVERS
convenient and easy service access

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION
(on page 49)



628210 therm-C 13/180

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Pressure regulation
- Cleaning Agent Intake
- Locking brake
- Water tank: Volume 3 liters

EQUIPMENT HOT WATER

- Flow monitor
- Combustion chamber pre-ventilation
- Visual flame monitoring
- Overheating protection (exhaust temperature in excess of 260 °C)
- Burner stops when there is a lack of heating oil
- Fuel tank: 25 liters



42271

VARIANT - NON-MARKING

| | | |
|---|---------|--------------|
| NOM conversion kit Version without drum | Ord.no. | 42270 |
| NOM conversion kit Version with drum | Ord.no. | 42271 |

For further information on NON-Marking please refer to page 67

| MODEL | therm C 11/130 | therm C 13/180 | therm C 15/150 |
|----------------------------------|----------------|----------------|----------------|
| Ord.no. without hose drum | 628000 | 628200 | 628350 |
| Ord.no. incl. hose drum | 628010 | 628210 | 628360 |

TECHNICAL SPECIFICATIONS

| | | | | |
|--|----------------|-------------------|--------------------|--------------------|
| Operating pressure | bar MPa | 30-130 3-13 | 30-180 3-18 | 30-150 3-15 |
| Water output | l/min l/h | 11 660 | 13 780 | 15 900 |
| Admissible overpressure | bar MPa | 145 14.5 | 200 20 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 15 | 400 3 50 8.7 | 400 3 50 8.7 |
| Power intake Power output | kW | 3.4 2.3 | 4.8 4.0 | 4.8 4.0 |
| Power supply cable | m | 5 | 7.5 | 7.5 |
| Dimensions L x W x H without hose drum | | 860 580 970 | 860 580 970 | 860 580 970 |
| Dimensions L x W x H incl. hose drum | mm | 860 580 1220 | 860 580 1220 | 860 580 1220 |
| Weight without incl. hose drum | kg | 164 169 | 164 169 | 164 169 |

TECHNICAL DATA HOT WATER

| | | | | |
|--|------------|-----------|-----------|-----------|
| Hot water output | °C | 12-80 | 12-80 | 12-80 |
| Steam level | °C | 140 | 150 | 150 |
| Oil consumption at max. heating output | kg/h l/h | 5.1 6.1 | 5.8 6.8 | 6.0 7.1 |
| Heating oil consumption ΔT 45° | kg/h l/h | 3.2 3.8 | 3.8 4.5 | 4.3 5.1 |
| Heating output | kW | 55 | 60 | 65 |

EQUIPMENT

| | | | | |
|--|------------------|----------------------|----------------------|----------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 44878 | 10 (DN8) 44878 | 10 (DN8) 44878 |
| High-pressure hose incl. hose drum | m Ord.no. | 15 (DN8) 44879 | 15 (DN8) 44879 | 15 (DN8) 44879 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 045 12420-D25045 | ● 045 12420-D25045 | ● 055 12420-D25055 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 |

therm-CA-Series



ACCESSORY STORAGE
neat storage for high pressure gun and lances

REMOVABLE COVERS
convenient and easy service access

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

CONTROL PANEL
analogue temperature regulation

POWERFUL ENTRY MODEL
with all important basic functions

626210 therm-CA 12/150

► **ACCESSORIES** | starting on page 66



EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Pressure regulation
- Cleaning Agent Intake
- Locking brake
- Water tank: Volume 3 liters

EQUIPMENT HOT WATER

- Flow monitor
- Combustion chamber pre-ventilation
- Fuel tank: 25 liters



| MODEL | therm CA 11/130 | therm CA 12/150 |
|---------------------------|-----------------|-----------------|
| Ord.no. without hose drum | 626000 | 626200 |
| Ord.no. incl. hose drum | 626010 | 626210 |

TECHNICAL SPECIFICATIONS

| | | | |
|--|----------------|-------------------|--------------------|
| Operating pressure | bar MPa | 30-130 3-13 | 30-150 3-15 |
| Water output | l/min l/h | 11 660 | 12 720 |
| Admissible overpressure | bar MPa | 145 14.5 | 165 16.5 |
| Motor speed | Rpm | 1400 | 1400 |
| Connection | V ~ Hz A | 230 1 50 15 | 400 3 50 7.2 |
| Power intake Power output | kW | 3.4 2.3 | 3.8 3.0 |
| Power supply cable | m | 5 | 7.5 |
| Dimensions L x W x H without hose drum | | 860 580 970 | 860 580 970 |
| Dimensions L x W x H incl. hose drum | mm | 860 580 1220 | 860 580 1220 |
| Weight without incl. hose drum | kg | 159 164 | 159 164 |

TECHNICAL DATA HOT WATER

| | | | |
|--|------------|-----------|-----------|
| Hot water output | °C | 12-80 | 12-80 |
| Steam level | °C | 140 | 140 |
| Oil consumption at max. heating output | kg/h l/h | 5.1 6.1 | 5.4 6.4 |
| Heating oil consumption ΔT 45° | kg/h l/h | 3.2 3.8 | 3.5 4.1 |
| Heating output | kW | 55 | 58 |

EQUIPMENT

| | | | |
|--|------------------|----------------------|----------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 44878 | 10 (DN8) 44878 |
| High-pressure hose incl. hose drum | m Ord.no. | 15 (DN8) 44879 | 15 (DN8) 44879 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ● 045 12420-D25045 | ● 045 12420-D25045 |
| Water inlet filter | Ord.no. | 13310 | 13310 |



TECHNICAL HIGHLIGHTS



ELECTRICALLY HEATED INSTANTANEOUS WATER HEATER

Stable heat: the instantaneous water heater can be operated with up to 48 KW and enables even in continuous operation Temperatures up to 80 °C. It ensures a uniform water temperature and is therefore ideally suited for cleaning of fats and oils.



DIGITAL THERMOSTAT

Temperature and heating power are controlled via the thermostat which is precisely controlled digitally. This allows the water temperature to be exactly maintained for constant work. An operating hours counter also determines the required service intervals.



INTEGRATED HOSE REEL

Space-saving and convenient: with a folding crank handle for practical, neat storage of the high-pressure hose. A special locking device holds the reel in the desired position.



ECO-MODE

On a small "flame": with the Eco level, the user can keep the maximum working temperature at 55 °C and thus Reduce electricity consumption up to 50%.
(for e-therm 603 M 36, e-therm 873 M 36 and e-therm 873 M 48)

ELECTRICALLY HEATED HOT WATER HIGH PRESSURE CLEANERS

EMISSION-FREE, INSTANT HOT WATER AND IMPRESSIVELY THOROUGH CLEANING

Clean air, clean room: Our electrically heated high-pressure cleaners are especially suitable for use in closed rooms without exhaust air, in clean rooms or in health and hygiene sensitive areas. Temperatures of up to 80 °C increase the cleaning effect for stubborn dirt and the electrically operated instantaneous water heater enables emission-free working.

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KEY INDUSTRIES



e-therm-Series



ACCESSORY STORAGE
neat storage for high pressure gun and lances

CONVENIENT INTEGRATED HOSE REEL (VARIANTE)
space-saving storage of the high-pressure hose with twist stop screw connection

DIGITAL CONTROL PANEL
digital temperature regulation with 2 different operation modes

ECO LEVEL
for energy-saving use (e-therm 603 M 36, e-therm 873 M 36, e-therm 873 M 48)

642260 e-therm 603 M 36

► **ACCESSORIES** | starting on page 66

EQUIPMENT

- Quick release plug-in system D12
- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Pressure regulation
- Locking brake
- Water tank: Volume 12 liters (e-therm 603 M 36, e-therm 873 M 48)



EQUIPMENT HOT WATER ELECTRICALLY HEATED

- Digital thermostat
- Flow monitor
- Overheating protection
- Operating hours mete



VARIANT - NON-MARKING

| | | |
|---|---------|--------------|
| NOM conversion kit Version without drum | Ord.no. | 42280 |
| NOM conversion kit Version with drum | Ord.no. | 42281 |



42280

For further information on NON-Marking please refer to page 67

| MODEL | e-therm 500 M 18 | e-therm 500 M 24 | e-therm 603 M 36 | e-therm 873 M 36 | e-therm 873 M 48 |
|---------------------------|------------------|------------------|------------------|--------------------------|------------------|
| Ord.no. without hose drum | 642050 | 642150 | 642250 | 642300 NEW | 642350 |
| Ord.no. incl. hose drum | 642060 | 642160 | 642260 | 642310 NEW | 642360 |

TECHNICAL SPECIFICATIONS

| | | e-therm 500 M 18 | e-therm 500 M 24 | e-therm 603 M 36 | e-therm 873 M 36 | e-therm 873 M 48 |
|--|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Operating pressure | bar MPa | 30-130 3-13 | 30-130 3-13 | 30-150 3-15 | 30-150 3-15 | 30-150 3-15 |
| Water output | l/min l/h | 8 480 | 8 480 | 10 600 | 13 780 | 13 780 |
| Admissible overpressure | bar MPa | 150 15 | 150 15 | 170 17 | 170 17 | 170 17 |
| Motor speed | Rpm | 1400 | 1400 | 1400 | 1400 | 1400 |
| Connection | V ~ Hz A | 400 3 50 29 | 400 3 50 39 | 400 3 50 55 | 400 3 50 59 | 400 3 50 76 |
| Power intake | kW | 20 | 27 | 38 | 40 | 52 |
| Power supply cable | m | 5 | 5 | 5 | 5 | 5 |
| Plug | | CEE 32 A | CEE 63 A | CEE 63 A | CEE 63 A | CEE 125 A |
| Dimensions L x W x H without hose drum | mm | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 | 1050 800 1015 |
| Dimensions L x W x H incl. hose drum | mm | 1050 800 1450 | 1050 800 1450 | 1050 800 1450 | 1050 800 1450 | 1050 800 1450 |
| Weight without incl. hose drum | kg | 128 136 | 128 136 | 160 168 | 160 168 | 160 168 |

TECHNICAL DATA HOT WATER

| | | e-therm 500 M 18 | e-therm 500 M 24 | e-therm 603 M 36 | e-therm 873 M 36 | e-therm 873 M 48 |
|----------------------------------|----|------------------|------------------|------------------|------------------|------------------|
| Hot water delivery at 12 °C feed | °C | 48 | 60 | 75 | 68 | 80 |
| Heating output | kW | 18 | 24 | 36 | 36 | 48 |

EQUIPMENT

| | | e-therm 500 M 18 | e-therm 500 M 24 | e-therm 603 M 36 | e-therm 873 M 36 | e-therm 873 M 48 |
|--|------------------|---------------------|---------------------|----------------------|---------------------|---------------------|
| High-pressure hose without hose drum | m Ord.no. | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 | 10 (DN8) 41081 |
| High-pressure hose incl. hose drum | m Ord.no. | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 | 20 (DN8) 443812 |
| Trigger gun with safety catch | Model Ord.no. | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 | * Starlet 3 12500 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ○ 03 12420-D2503 | ○ 03 12420-D2503 | ● 035 12420-D25035 | ● 05 12420-D2505 | ● 05 12420-D2505 |
| Water inlet filter | Ord.no. | 13310 | 13310 | 13310 | 13310 | 13310 |

WITH THE RIGHT TOOLS

EVERYTHING IS ALWAYS UNDER CONTROL



Ready for use with one click: Our versatile range of accessories turns every Kränzle into an all-rounder for numerous areas of application. Whether surface or pipe cleaning, sandblasting work or particularly thorough cleaning with foam to loosen coarse dirt. All accessories are equipped with our quick-change plug-in system, which ensures the quick, easy and safe connection of cleaning lances and accessories.



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TECHNICAL HIGHLIGHTS



QUICK RELEASE PLUG-IN SYSTEM

Sophisticated, fast and reliable: the quick release plug-in system with hardened stainless steel components ensures simple and always safe connection of the safety shut-off gun with the lance. The new Starlet 3 pistol is also impressive in terms of design and comfort.



HEXAGONAL ANTI-ROTATION LOCK

Cleaning lances and accessories equipped with a hexagonal coupling can be locked against rotation in six different positions. This prevents the accessories from twisting unintentionally and allows them to be guided by moving the gun.



NON-MARKING EXECUTION (NOM)

Particularly suitable for use in hygiene and sanitary areas: The Kränzle NoM versions leave no traces or stripes, their abrasion resistance also ensures a longer service life of hoses and wheels.



TWIST-STOP SCREW CONNECTION

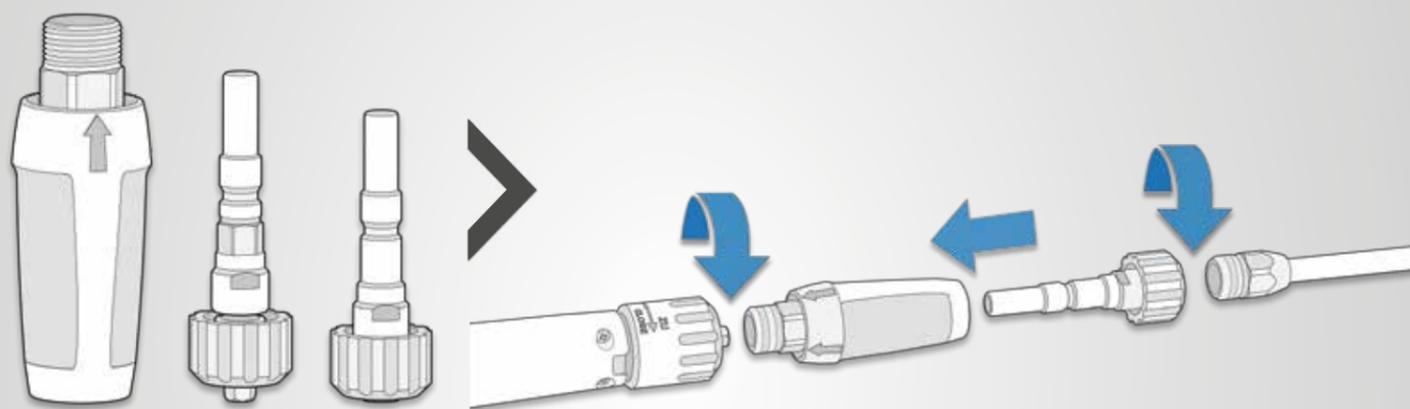
Go along with everything: provided with all machines: A special screw connection prevents the Twisting of the high-pressure hose during work and ensures so for consistent cleaning results in every situation.

AS SAFE AS EVER, AS FAST AS NEVER BEFORE

CONVERSION TO PLUG-IN SYSTEM D12



The threaded connection has always been a guarantee for the reliable connection between safety shut-off gun and lances. With the innovative quick-change plug-in system, we have decisively further developed this proven technology: The plug-in coupling combines the usual safety with additional comfort. By simply plugging in, the lances can be changed more conveniently and quickly than ever before.

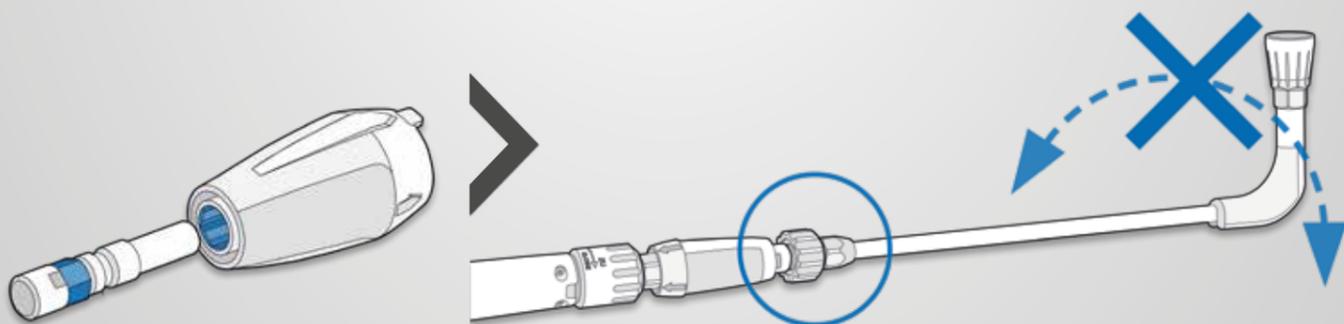


CONVERSION KIT | Ord.no. 13455

- Attachment plug-in system D12
- Plug nipple D12 with anti-twist protection
- Plug nipple D12 without anti-twist protection

CONVERSION MADE EASY

- Screw the attachment plug-in system onto the trigger gun M22
- Screw the accessories with the M22 threaded screw onto the plug nipple
- Snap the plug nipple into the attachment plug-in system



HEXAGONAL COUPLING

The external hexagon of the plug nipple with anti-twist protection fits perfectly into the internal hexagon of the Attachment plug-in system D12.

SECURED AGAINST TWISTING

Thanks to the plug-in nipple with hexagonal coupling, lances and accessories can be locked in six different positions. This makes unintentionally twisted accessories a thing of the past.

ACCESSORIES | QUICK RELEASE PLUG-IN SYSTEM D12

CONVERSION TO PLUG-IN SYSTEM D12



Conversion kit plug-in system D12

For converting trigger gun with safety catch and accessories with thread screw M22 to quick-change plug-in system D12.

| Attachment plug-in system | Adapter 1 | Adapter 2 | Ord.no. |
|---------------------------|---|--|---------|
| M22x1,5 AG ▶ D12 | Plug nipple D12 without anti-twist protection | Plug nipple D12 with anti-twist protection | 13455 |



124415



12440

Adapter Thread screw M22 ▶ plug-in system D12

For use of the accessories with thread screw M22 for trigger gun with safety catch with plug-in system D12

| Inlet | Outlet | Anti-twist protection | Length mm | Ord.no. |
|-----------------|------------|-----------------------|-----------------|---------|
| Plug nipple D12 | M22x1,5 IG | – | 100 | 12441 |
| Plug nipple D12 | M22x1,5 IG | ● | 100 | 124415 |
| Plug nipple D12 | M22x1,5 IG | – | 400 grip plates | 12440 |

Attachment plug-in system D12

For converting trigger gun with safety catch to quick-change plug-in system D12.

| Ord.no. | 12443 |
|---------|-------|
| Outlet | D12 |



ACCESSORIES THREAD SCREW M22

FOR DEVICES WITH A YEAR OF CONSTRUCTION UNTIL 2020

Since 2021, all high-pressure cleaners will be equipped exclusively with the innovative quick-change plug-in system. The previous cleaning accessories with threaded fittings for existing Kränzle units are of course still available.

► **DOWNLOAD: ACCESSORIES CATALOGUE M22**

Scan QR code or go to www.kraenzle.com/accessories-m22



WORKS JUST

AS WELL AS IT LOOKS



NEW: STARLET 3

Available from March / April 2022

Function and design perfectly combined: The new Starlet 3 safety shut-off gun, with its lightweight design, fits much better in the hand, especially when working for long periods. All powerful high-pressure cleaners from page 30 (with the exception of the portable Profi-Jet) will be equipped with this high-quality gun in future.



COMPACT DESIGN
modern design ensures comfortable handling

SMOOTH TRIGGER
requires less effort

HEXAGONAL ANTI-ROTATION LOCK
Cleaning lances and accessories equipped with a hexagonal coupling can be locked against rotation in six different positions

ERGONOMIC HANDLE
for a natural and secure hand position during the cleaning process

CLEVER NOZZLE TECHNOLOGY

FOR MAXIMUM CLEANING POWER



NEW: LANCE WITH PENDULUM NOZZLE

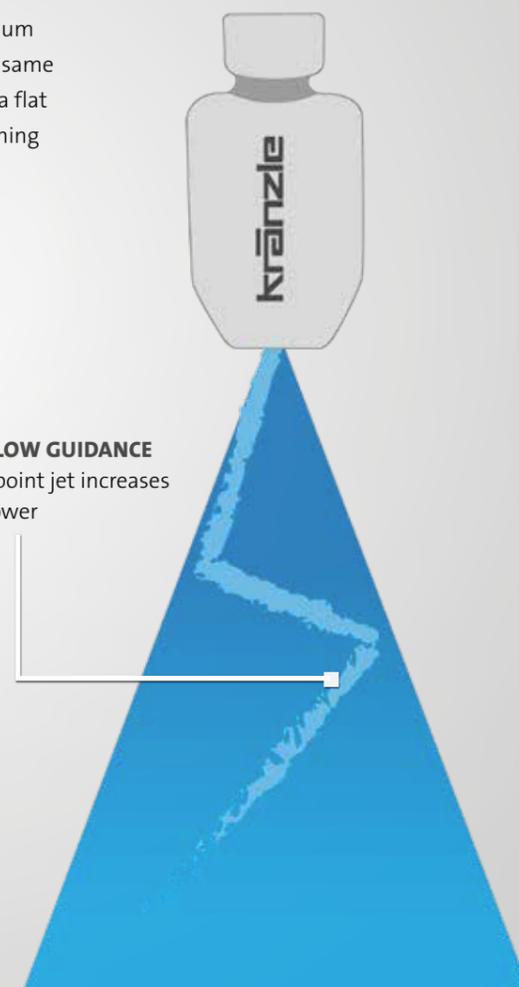
Convinces even under the toughest conditions: The new cleaning lance with pendulum nozzle made of wear-free stainless steel removes the most stubborn dirt and at the same time ensures area-wide cleaning. Its intelligent design combines the advantages of a flat jet lance with the power of a spot jet. An oscillating water jet delivers excellent cleaning results with significantly increased rinsing/spraying performance.

- produces a unique fluid jet (Coandă effect)
- without moving parts, thus robust and durable
- saves energy and water due to faster cleaning
- low vibrations and noise development



PRACTICALLY INDESTRUCTIBLE
made of stainless steel

INTELLIGENT FLOW GUIDANCE
the oscillating point jet increases the cleaning power



TRIGGER GUNS WITH SAFETY CATCH

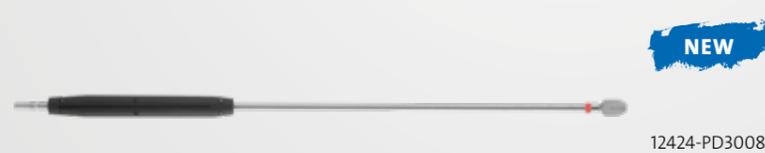


| Starlet 3 | |
|------------------------------|--------------------|
| Ord.no. | 12500 |
| Outlet | plug-in system D12 |
| Operating pressure bar MPa | 270 27 |
| Water output l/min | 40 |
| Temperature max. °C | 150 |

| M 2000 - short | |
|------------------------------|--------------------|
| Ord.no. | 12492 |
| Outlet | plug-in system D12 |
| Operating pressure bar MPa | 270 27 |
| Water output l/min | 30 |
| Temperature max. °C | 150 |

| M 2000 - long | |
|------------------------------|--------------------|
| Ord.no. | 12481 |
| Outlet | plug-in system D12 |
| Operating pressure bar MPa | 270 27 |
| Water output l/min | 30 |
| Temperature max. °C | 150 |

CLEANING LANCES



| Lance with pendulum nozzle | | | | |
|----------------------------|-------------|-------------|----------------|--------------|
| Length | mm | Nozzle size | Spraying angle | Ord.no. |
| 1000 | grip plates | ● 08 | 30° | 12424-PD3008 |
| 1000 | grip plates | ● 11 | 30° | 12424-PD3011 |



* Available from March / April 2022

CLEANING LANCES



12435-M20028

12420-D2503

| Stainless steel lance with flat jet nozzle | | | | |
|--|-------------|--------------------------------|-------------------|---------------------|
| Length | mm | Nozzle size | Spraying angle | Ord.no. |
| 500 | | ○ 028 | 20° | 12435-M20028 |
| 500 | | ○ 03 | 20° | 12435-M2003 |
| 500 | | ● 042 | 20° | 12435-M20042 |
| 500 | | ● 045 | 20° | 12435-M20045 |
| 500 | | 1/4" female, without nozzle ** | without nozzle ** | 12435-XXX |
| 1000 | grip plates | ○ 03 | 25° | 12420-D2503 |
| 1000 | grip plates | ● 035 | 25° | 12420-D25035 |
| 1000 | grip plates | ● 04 | 25° | 12420-D2504 |
| 1000 | grip plates | ● 045 | 25° | 12420-D25045 |
| 1000 | grip plates | ● 05 | 25° | 12420-D2505 |
| 1000 | grip plates | ● 055 | 25° | 12420-D25055 |
| 1000 | grip plates | ● 06 | 25° | 12420-D2506 |
| 1000 | grip plates | ● 065 | 25° | 12420-D25065 |
| 1000 | grip plates | ● 07 | 25° | 12420-D2507 |
| 1000 | grip plates | ● 075 | 25° | 12420-D25075 |
| 1000 | grip plates | ● 08 | 25° | 12420-D2508 |
| 1000 | grip plates | ● 085 | 25° | 12420-D25085 |
| 1000 | grip plates | ● 11 | 25° | 12420-D2511 |
| 1000 | grip plates | ● 125 | 25° | 12420-D25125 |
| 1000 | grip plates | ● 05 | 40° | 12420-D4005 |
| 1000 | grip plates | ● 06 | 40° | 12420-D4006 |
| 1000 | grip plates | ● 065 | 40° | 12420-D40065 |
| 1000 | grip plates | ● 08 | 40° | 12420-D4008 |
| 1000 | grip plates | ● 085 | 40° | 12420-D40085 |
| 1000 | grip plates | ● 11 | 40° | 12420-D4011 |
| 1000 | grip plates | ● 125 | 40° | 12420-D40125 |
| 1000 | grip plates | 15 | 40° | 12420-D4015 |
| 1000 | grip plates | 175 | 40° | 12420-D40175 |
| 1000 | grip plates | 20 | 40° | 12420-D4020 |
| 1000 | grip plates | 1/4" female, without nozzle ** | without nozzle ** | 12420-XXX |
| 1250 | grip plates | 1/4" female, without nozzle ** | without nozzle ** | 124220-XXX |
| 1500 | grip plates | 1/4" female, without nozzle ** | without nozzle ** | 124210-XXX |

FLAT JET NOZZLE

Our recommendation for cleaning sensitive surfaces. The flat spray nozzle with its conical jet (spraying angle: 20 - 40°) works particularly well and even does the "sweeping" of the dirt possible.



SPRAY ANGLE NOZZLES



**Please order high-pressure nozzle separately.

CLEANING LANCES



Lances with Vario-Jet

■ with anti-twist protection

| Length | mm | Nozzle size | Ord.no. |
|--------|----|-------------|------------------|
| 500 | | ● 028 | 12437-028 |
| 500 | | ○ 03 | 12437-03 |
| 500 | | ● 042 | 12437-042 |

LANCES WITH VARIO-JET

The variable spray lance for spot or flat jet allows convenient switching from high pressure to low pressure operation. As the suction of cleaning agents is possible directly via the high-pressure pump, the Vario-Jet lances allow to apply cleaning foam without changing the accessories.



12436-M20042

12431-D2503

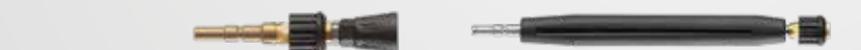
Stainless steel lance with regulating nozzle

■ max. 250 bar | 25 MPa ■ max. 150 °C ■ with anti-twist protection (500 mm)

| Length | mm | Nozzle size | Spraying angle | Ord.no. |
|--------|-------------|------------------------------|-------------------|---------------------|
| 500 | | ● 042 | 20° | 12436-M20042 |
| 500 | | ○ 03 | 20° | 12439-D2503 |
| 500 | | ● 05 | 20° | 12439-D2505 |
| 1000 | grip plates | ○ 03 | 25° | 12431-D2503 |
| 1000 | grip plates | ● 045 | 25° | 12431-D25045 |
| 1000 | grip plates | ● 05 | 25° | 12431-D2505 |
| 1000 | grip plates | ● 07 | 25° | 12431-D2507 |
| 1000 | grip plates | R 1/4" IG, without nozzle ** | without nozzle ** | 132061 |
| 1500 | grip plates | R 1/4" IG, without nozzle ** | without nozzle ** | 132062 |

LANCE WITH CONTROL NOZZLE

The working pressure can be set directly on the lance and for different tasks settings, for example more powerful flat jet with high pressure or more practical rinsing jet in low pressure operation.



132051

132060

short regulating nozzle

| Length | mm | anti-twist protection | Nozzle size | Ord.no. |
|--------|-------------|-----------------------|------------------------------|---------------|
| 180 | | ● | R 1/4" IG, without nozzle ** | 132051 |
| 340 | grip plates | — | R 1/4" IG, without nozzle ** | 132060 |



**Please order high-pressure nozzle separately.

CLEANING LANCES



12438-028



12425-042

| Lance with Dirtkiller | | | |
|-----------------------|-------------|-------------|-----------|
| Length | mm | Nozzle size | Ord.no. |
| 500 | | 028 | 12438-028 |
| 500 | | 03 | 12438-03 |
| 500 | | 042 | 12438-042 |
| 500 | | 045 | 12438-045 |
| 500 | | 05 | 12438-05 |
| 500 | | 055 | 12438-055 |
| 1000 | grip plates | 03 | 12425-03 |
| 1000 | grip plates | 035 | 12425-035 |
| 1000 | grip plates | 042 | 12425-042 |
| 1000 | grip plates | 045 | 12425-045 |
| 1000 | grip plates | 05 | 12425-05 |
| 1000 | grip plates | 055 | 12425-055 |
| 1000 | grip plates | 06 | 12425-06 |
| 1000 | grip plates | 07 | 12425-07 |
| 1000 | grip plates | 075 | 12425-075 |

12430-045



| Lance with Turbokiller | | | |
|------------------------|-------------|-------------|-----------|
| Length | mm | Nozzle size | Ord.no. |
| 1000 | grip plates | 035 | 12430-035 |
| 1000 | grip plates | 04 | 12430-04 |
| 1000 | grip plates | 045 | 12430-045 |
| 1000 | grip plates | 05 | 12430-05 |
| 1000 | grip plates | 055 | 12430-055 |
| 1000 | grip plates | 07 | 12430-07 |
| 1000 | grip plates | 08 | 12430-08 |
| 1000 | grip plates | 09 | 12430-09 |
| 1000 | grip plates | 10 | 12430-10 |
| 1000 | grip plates | 11 | 12430-11 |
| 1000 | grip plates | 12 | 12430-12 |

DIRTKILLER AND TURBOKILLER

On insensitive surfaces the high pressure nozzle of the dirt killer with its rotating ceramic ball, removes even the most stubborn stains without residue. The turbokiller comes to the use when higher working pressure and large quantities of water are required.



Figure: Dirtkiller



Figure: Turbokiller



**Please order high-pressure nozzle separately.

CLEANING LANCES



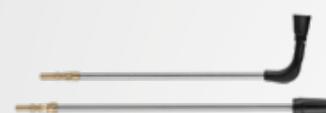
411545



411547

| Lance extension | | | |
|--|-------------|-----------------|---------|
| ■ with anti-twist protection (342 mm and 500 mm) | | | |
| Length | mm | Outlet | Ord.no. |
| 342 | | Plug nipple D12 | 411544 |
| 500 | | Plug nipple D12 | 411545 |
| 1000 | grip plates | Plug nipple D12 | 411546 |
| 1250 | grip plates | Plug nipple D12 | 411547 |
| 1500 | grip plates | Plug nipple D12 | 411548 |

410755



| Underbody lance | | | |
|------------------------------|----|-------------|---------|
| For hard-to-reach areas | | | |
| ■ with anti-twist protection | | | |
| Length | mm | Nozzle size | Ord.no. |
| 500 | | 07 | 410756 |
| 1000 | | 07 | 410755 |

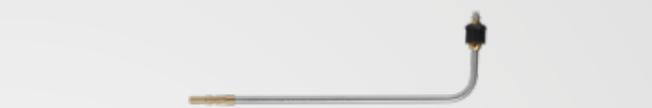
12133



| Double lance with turning hand-grip | | | |
|---|----|-------------|---------|
| Infinite variable control of working pressure | | | |
| ■ with anti-twist protection (660 mm) | | | |
| Length | mm | Nozzle size | Ord.no. |
| 660 | | D3035 ** | 121332 |
| 1000 | | D3035 ** | 12133 |



** Low-pressure nozzle serially included. Order high-pressure nozzle separately.



| Toilet lance | | |
|------------------------------|--------|--------------------------|
| ■ with anti-twist protection | | ■ with regulating nozzle |
| Ord.no. | 12540 | |
| Length | mm | 500 |
| Nozzle size | D25055 | |



| Bend lance with handgrip | | |
|---|------------------------------|------|
| Infinite adjustment of bending angle from 20° to 140° | | |
| Ord.no. | 121801-XXX | |
| Length | mm | 1100 |
| Outlet | R 1/4" IG, without nozzle ** | |

125301



| Double lance with turning knob | | | |
|---|----|-------------|---------|
| Infinite variable control of working pressure | | | |
| ■ with anti-twist protection (660 mm) | | | |
| Length | mm | Nozzle size | Ord.no. |
| 660 | | D3035 ** | 125301 |
| 1000 | | D3035 ** | 125302 |



FLOOR CLEANERS



| Round Cleaner UFO short | |
|------------------------------------|--------------------|
| for small to medium-sized surfaces | |
| Ord.no. | 41855 |
| + Adapter D12 | 12441 |
| Inlet | M22x1.5 AG |
| Ø | mm 300 |
| Operating pressure | bar MPa 180 18 |
| Water output max. | l/min 12 |
| Weight | kg 1.9 |
| Nozzle size | 045 |

| Round Cleaner UFO long | |
|------------------------------------|--------------------|
| for small to medium-sized surfaces | |
| Ord.no. without wheels | 41880 |
| Ord.no. with wheels | 41881 |
| Ø | mm 300 |
| Operating pressure | bar MPa 180 18 |
| Water output max. | l/min 12 |
| Weight without wheels | kg 2.4 |
| Weight with wheels | kg 3.1 |
| Nozzle size | 045 |



| Round Cleaner UFO long stainless steel | |
|--|--------------------|
| for small to medium-sized surfaces | |
| Ord.no. Nozzle size 045 | 41891 |
| Ord.no. Nozzle size 055 | 41890 |
| Ø | mm 350 |
| Operating pressure | bar MPa 210 21 |
| Water output max. | l/min 15 |
| Weight | kg 5.5 |

| Round Cleaner INOX 300 | |
|------------------------------------|----------------------|
| for medium-sized to large surfaces | |
| Ord.no. | 41813 |
| Ø | mm 300 |
| Operating pressure | bar MPa 160 16.0 |
| Water output max. | l/min 12 |
| Weight | kg 2.9 |
| Nozzle size | 045 |



| Round Cleaner INOX 410 | |
|----------------------------------|----------------------|
| for large to very large surfaces | |
| Ord.no. | 41814 |
| Ø | mm 410 |
| Operating pressure | bar MPa 180 18.0 |
| Water output max. | l/min 14 |
| Weight | kg 3.6 |
| Nozzle size | 045 |

| Round Cleaner INOX 520 | |
|----------------------------------|----------------------|
| for large to very large surfaces | |
| Ord.no. | 41812 |
| Ø | mm 520 |
| Operating pressure | bar MPa 220 22.0 |
| Water output max. | l/min 26 |
| Weight | kg 11.4 |
| Nozzle size | 06 |

SPECIAL ACCESSORIES



| Cleaning brush transverse | |
|--|---------------------------|
| ■ Brush head LxW: 240x90 mm ■ with anti-twist protection (500 mm) | |
| Pipe length | mm |
| 500 | 128060 |
| 750 | 128061 |
| 1000 | grip plates 128062 |
| 1250 | grip plates 128063 |
| 1500 | grip plates 128064 |



| Rotating washing brush | |
|---|---------------------------|
| ■ Brush head Ø: 180 mm ■ with anti-twist protection (500 mm) | |
| Pipe length | mm |
| 342 | 410506 |
| 1000 | grip plates 410507 |
| 1250 | grip plates 410508 |
| 1500 | grip plates 410509 |



| Cleaning brush flat | |
|----------------------|--------------|
| Ord.no. | 41073 |
| + Adapter D12 | 12441 |
| Inlet | M22x1.5 AG |
| Dimensions LxW | mm 180x65 |



| Sandblaster set (wet blasting) | |
|--|--------------------|
| for blasting sandstone and facades ■ with hose and intake lance | |
| Ord.no. | 41068 |
| + Adapter D12 | 12441 |
| Inlet | M22x1.5 AG |
| Operating pressure | bar MPa 250 25 |
| Water output | l/min 19 |
| for blasting material | mm 0.2 - 2.0 |
| Nozzle size | ● 055 |



| Spray guard | |
|--|---------------|
| For cleaning surfaces without splashing water ■ Applicable for all washing lances | |
| Ord.no. | 132600 |
| Dimensions LxW | mm 285x190 |



| Pipe cleaning hose with nozzle | | | |
|--|---|-----------------------------------|--------------------------------|
| ■ Operating pressure max.: 200 bar 20 MPa ■ Nozzle size without front bore: KN 055 other nozzles on request | | | |
| Length | m | Ord.no. without front bore | Ord.no. with front bore |
| 10 | | 12550 | 12550-F |
| 15 | | 125501 | 125501-F |
| 20 | | 125502 | 125502-F |
| 25 | | 125503 | 125503-F |
| 30 | | 125504 | 125504-F |



WITHOUT FRONT BORE
3 jets to the rear

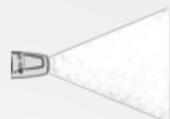


WITH FRONT BORE
3 jets to the rear
1 jet to the front

FOAM CLEANING | ADDITIVE



SPOT JET



FLAT-JET

135303 135313

Foam injector

Production of highly effective foam
 ■ adjustable spraying angle (spot jet - flat-jet)
 ■ incl. screw cap

| Container | Liter | Ord.no. |
|-----------|-------|---------------|
| 1 | | 135303 |
| 2 | | 135313 |



NEU

1 Liter 2 Liter

Spare container foam injector

For changing and storing cleaning agents

| Container without lid | Ord.no. |
|-----------------------|---------------|
| 1 Liter | 135320 |
| 2 Liter | 135321 |
| Screw cap | 135336 |



412710 412711

Kränzle Neutral

Universal cleaner for removal of strong contaminations
 ■ pH value**: 10.9

| Container | Liter | Ord.no. |
|-----------|-------|---------------|
| 1 | | 412710 |
| 5 | | 412711 |
| 25 | | 412712 |



412721

Kränzle Plus

Special cleaner to degrease and clean
 ■ pH value**: 13.2

| Container | Liter | Ord.no. |
|-----------|-------|---------------|
| 5 | | 412721 |
| 25 | | 412722 |



412731

Kränzle Marine

for cleaning motors
 ■ alkaline
 ■ pH value**: 13.5

| Container | Liter | Ord.no. |
|-----------|-------|---------------|
| 5 | | 412731 |
| 25 | | 412732 |



Decalcifying (concentrate)

Descaling of water high-pressure cleaners
 Removal of lime deposits
 ■ pH value** 1.0

| Container | Liter | Ord.no. |
|-----------|-------|---------------|
| 1 | | 412580 |
| 12 x 1 | | 412570 |



High-performance transmission oil

For all Kränzle high pressure pumps

| Ord.no. | 400932 |
|-----------|---------|
| Container | Liter 1 |



Important note:

When using chemical cleaning agents, observe the respective regulations, provisions, safety notes and safety data sheets.

Safety data sheets under: www.kraenzle.com/sda

**pH value: Undiluted

We recommend testing the cleaning agent on the surface to be cleaned before starting.

INTAKE | FILTER



Sludge sucker

Extraction of mud from pools and ponds
 ■ For high-pressure cleaners from 10 l/min

| Ord.no. | 41791 |
|------------------------------------|--------------------|
| Inlet | M22x1.5 AG |
| Length | m 2 |
| Operating pressure max. | bar MPa 250 25 |
| Water output max. | l/min 20 |
| Suction height max. | m 3 |
| Suction power at 130 bar / 220 bar | l/h 10000 17500 |
| Nozzle size (factory fitted) | ● 045 |



Sludge sucker

Extraction of mud from pools and ponds
 ■ For high-pressure cleaners from 10 l/min
 ■ hose diameter 1 1/2"

| Ord.no. | 41104 |
|------------------------------------|--------------------|
| Inlet | M22x1.5 AG |
| Hose length | m 3.8 |
| Operating pressure max. | bar MPa 250 25 |
| Water output max. | l/min 20 |
| Suction height max. | m 3 |
| Suction power at 130 bar / 220 bar | l/h 10000 17500 |
| Nozzle size (factory fitted) | ● 055 |



Pool cleaner attachment

Attachment for stainless steel mud extractor

| Ord.no. | 418030 |
|-------------|------------|
| Inlet | M22x1.5 AG |
| Maße L | mm 320 |
| Nozzle size | ● 045 |



Suction hose with suction filter

■ with return valve
 ■ For high-pressure cleaners from 10 l/min

| Ord.no. | 150383 |
|-------------|---------|
| Inlet | 3/4" IG |
| Hose length | m 3 |



133003

133201

Water inlet filter

■ Inlet and outlet in brass execution, except article: 13310

| Inlet | Outlet | Ord.no. |
|--|--|---------------|
| 3/4" AG (Plastic connection) | 3/4" IG (Screw connection) | 13310 |
| 3/4" AG | 3/4" IG (Screw connection) | 133003 |
| Quick release coupling with claws (GEKA) | Quick release coupling with claws (GEKA) | 133005 |
| 3/4" AG | 3/4" IG (Screw connection) | 133201 |



EVERYTHING IN PLACE

NEW: ACCESSORIES ORGANISER

The search is over: without the right accessories, perfect cleaning results are hardly possible. To ensure that all utensils are always within reach and that you don't lose track of them, Kränzle offers the right holder for every requirement. These are compatible with the complete range of Kränzle accessories - also for accessories with M22 threaded screw connection.



ACCESSORIES

LANCE HOLDER | HOSE REELS



Lance quiver bottom

for floor mounting, with leakage connection
 ■ Suitable for stowing 2 lances

| | |
|----------------|---------------|
| Ord.no. | 129504 |
| Pipe length | mm 590 |
| Ø | mm 55 |



Lance quiver wall

for wall mounting
 ■ not suitable for lances with turbo killer

| | |
|----------------|---------------|
| Ord.no. | 129505 |
| Pipe length | mm 590 |
| Ø | mm 55 |



Retrofit parts for automatik drum

■ therm-RP, therm-1, therm 1017

| | |
|----------------|--------------|
| Ord.no. | 48950 |
| HP hose | m 20 (DN8) |



Automatic hose winder

■ incl. connection hose 2 m

| | |
|----------------|--------------|
| Ord.no. | 43855 |
| HP hose | m 20 (DN8) |



Automatic hose winder stainless steel

■ incl. connection hose 2 m

| | | |
|---------------|---|----------------|
| incl. HP hose | m | Ord.no. |
| 20 (DN8) | | 412681 |
| 30 (DN8) | | 412691 |

WALL HOLDERS



Wall holders Lances

Space-saving storage of up to seven lances and washing brushes

| | |
|---------------------|---------------|
| Ord.no. | 129500 |
| Dimensions LxWxH mm | 300x50x70 |



Wall holders Foam injector

Large recess for practical attachment of the foam injector

| | |
|---------------------|---------------|
| Ord.no. | 129501 |
| Dimensions LxWxH mm | 80x70x70 |



Wall holders Premium

for the storage of up to four cleaning lances and a foam injector

| | |
|---------------------|---------------|
| Ord.no. | 129502 |
| Dimensions LxWxH mm | 300x70x70 |

ADAPTER



Conversion kit - flow monitor

For leakage protection in the pipe network. Suitable for non-monitored areas

| | |
|----------------|---------------|
| Ord.no. | 126342 |
| Flow rate | l/min 4 |



Pipe ventilation with non-return valve

Installation between device and drinking water pipe
 ■ with return valve

| | |
|----------------|---------------|
| Ord.no. | 410164 |
| Inlet | 3/4" IG |
| Outlet | 3/4" AG |



Chimney adapter

For indoor installations
 ■ for all oil-heated therm series
 ■ Ø 200 mm

| | | |
|--------|----|----------------|
| Length | mm | Ord.no. |
| 200 | | 44192 |
| 385 | | 441921 |

HIGH PRESSURE HOSES



43416 Standard

NoM 410841

Steel braided high-pressure hose

| Inlet Outlet: M22x1.5 IG | | Rotating screw connection | | Bend protection | | Other versions on request | | |
|----------------------------|---|---------------------------|----|--------------------|-----------|---------------------------|------------------|---------------|
| Length | m | Steel braided layers | SN | Operating pressure | bar MPa | Temperature max. °C | Ord.no. Standard | Ord.no. NoM |
| 10 (DN6) | 1 | | | 210 21 | | 100 | 43416 | 434162 |
| 20 (DN6) | 1 | | | 210 21 | | 100 | 434161 | 434163 |
| 10 (DN8) | 1 | | | 230 23 | | 150 | 44878 | – |
| 10 (DN8) | 2 | | | 400 40 | | 150 | 41081 | 410811 |
| 15 (DN8) | 1 | | | 230 23 | | 150 | 44879 | – |
| 15 (DN8) | 2 | | | 400 40 | | 150 | – | 410821 |
| 25 (DN8) | 2 | | | 400 40 | | 150 | 41084 | 410841 |
| 30 (DN8) | 2 | | | 400 40 | | 150 | 41080 | 410801 |



443812 Standard

NoM 410831

Replacement hose - for high pressure cleaners with hose reel

| Outlet: M22x1.5 IG | | Rotating screw connection | | Bend protection | | Other versions on request | | | |
|--|----------|---------------------------|----------------------|-----------------|--------------------------|---------------------------|---------------------|------------------|---------------|
| Device series | Length | m | Steel braided layers | SN | Operating pressure | bar MPa | Temperature max. °C | Ord.no. Standard | Ord.no. NoM |
| K 1152, K 2000 | 15 (DN6) | | 1 | | 210 21 | | 100 | 48015 | 480151 |
| Profi | 15 (DN6) | | 1 | | 210 21 | | 100 | 43829 | 438291 |
| small quadro | 15 (DN6) | | 1 | | 210 21 | | 100 | 40170 | 401701 |
| medium quadro | 20 (DN6) | | 1 | | 210 21 | | 100 | 434161 | 434163 |
| bully | 15 (DN8) | | 1 / NoM: 2 | | 210 21 / NoM: 400 40 | | 100 | 46411 | 464111 |
| large quadro, Profi-Jet, B therm C, therm CA | 20 (DN8) | | 2 | | 400 40 | | 150 | 41083 | 410831 |
| LX-RP, therm-RP, therm 1, e-therm | 15 (DN8) | | 1 | | 400 40 | | 150 | 44879 | 410821 |
| | 20 (DN8) | | 2 | | 400 40 | | 150 | 443812 | 443813 |



412651

Connecting hose

| Inlet Outlet: M22x1.5 IG | | Rotating screw connection | | Bend protection | | Other versions on request | |
|----------------------------|---|---------------------------|----|--------------------|-----------|---------------------------|-------------|
| Length | m | Steel braided layers | SN | Operating pressure | bar MPa | Ord.no. | Ord.no. NoM |
| 1 (DN8) | 2 | | | 400 40 | | 41265 | |
| 2 (DN8) | 1 | | | 400 40 | | 412651 | |



Hose connector / joining piece

| Ord.no. | Ord.no. NoM |
|--------------|-------------|
| 13286 | |
| Inlet | M22x1.5 AG |
| Outlet | M22x1.5 AG |



THEY BELONG IN EVERY HOME

HIGH-PRESSURE CLEANERS FOR PRIVATE USERS

HIGH-PRESSURE CLEANERS FOR PRIVATE USERS

EXCEPTIONAL QUALITY FOR YOUR HOME

High-quality technology attractively packaged: For the demanding private user Kränzle offers, in addition to the proven K 1050 series now also the new, powerful X-Series. The devices are characterised on the outside by a shapely and compact housing, in the inside are the sophisticated features and quality materials of our professional cleaning equipment. A well thought out range of accessories makes the cleaners real all-rounders.



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KEY INDUSTRIES



TECHNICAL HIGHLIGHTS



QUICK RELEASE PLUG-IN SYSTEM D10
Sophisticated, fast and reliable: The quick release plug-in system with hardened stainless steel components ensures simple and always safe connection of the safety shut-off gun with the lance.



PROFESSIONAL SOLUTIONS FOR HOBBY USERS
First-class and functional: Kränzle high pressure cleaners can also be used for private users who expect only the best. High-quality materials of the professional equipment - for example the brass pump head, stainless steel lances and a Roto-Mold-Chassis - are also components that belong to the equipment used in the private sector.



TOTAL-STOP SYSTEM
Full control: the automatic addition to turn off the machine using the practical total stop system via the High pressure pistol control. In this way, not only is noise reduced during operation, but the high-pressure pump is also protected at the same time.



HOSE REEL
Practical and comfortable: After the work the high pressure hose with a foldable crank handle, can be cleanly wound up again in the hose drum and which creates a space-saving storage solution.



COMPACT DESIGN
The ideal union of form and function: Not only for the performance features, but also in terms of mobility Kränzle has thought about the handling. The devices are easy to transport and thanks to the compact Housing shape it is neat and space-saving - preferably where you application is often in demand.



MANY POSSIBILITIES OF USE
No application without a Kränzle: Thanks to a wide range of accessories the powerful High pressure cleaners are equipped in such a way that they will be available for almost every Cleaning service in and around the house..



496500 X A15 TST

► ACCESSORIES | page 92

► FOR PRIVATE USERS



EQUIPMENT

- Quick release plug-in system D10
- Total-stop system
- Pressure regulation

SPECIAL FEATURES

Due to the X-shape the high pressure cleaner can be used in upright position can be operated comfortably.



VIDEO



ETM TESTMAGAZIN
Kränzle X A15 TST
EXCELLENT 94,3%
Online Single Test
High Pressure Cleaner 04|2020
www.etm-testmagazin.de

| MODEL | X A15 TST | X A17 TST |
|-----------------------------|-----------|-----------|
| Ord.no. TST incl. hose drum | 496500 | 496520 |

TECHNICAL SPECIFICATIONS

| | | | |
|-----------------------------|----------------|--------------------|---------------------|
| Operating pressure | bar MPa | 30-130 3-13 | 30-150 3-15 |
| Water output | l/min l/h | 8 480 | 9 540 |
| Admissible overpressure | bar MPa | 150 15 | 170 17 |
| Motor speed | Rpm | 1400 | 2800 |
| Connection | V ~ Hz A | 230 1 50 9.8 | 230 1 50 12.8 |
| Power intake Power output | kW | 2.25 1.7 | 2.95 2.2 |
| Power supply cable | m | 5 | 5 |
| Dimensions L x W x H | mm | 470 360 875 | 470 360 875 |
| Weight | kg | 31 | 31 |

EQUIPMENT

| | | | |
|-------------------------------|------------------|-----------------------|-----------------------|
| High-pressure hose | m Ord.no. | 12 (DN6) 49116 | 12 (DN6) 49116 |
| Trigger gun with safety catch | Model Ord.no. | M2001 12487 | M2001 12487 |
| Flat-jet nozzle | Nozzle Ord.no. | ○ 033 130100-M20033 | ○ 033 130100-M20033 |
| Dirtkiller | Nozzle Ord.no. | ○ 033 42404-033 | ○ 033 42404-033 |



K 1050-Series



495101 K 1050 TST
49501 K 1050 P

► ACCESSORIES | page 92

► FOR PRIVATE USERS



EQUIPMENT

- Quick release plug-in system D10
- Total-stop system
- Water inlet filter

MODELS

- K 1050 P - portable
- K 1050 TS - mobile with hose support
- K 1050 TST - mobile with hose drum



| MODEL | K 1050 P | K 1050 TS | K 1050 TST |
|---------|----------|-----------|------------|
| Ord.no. | 49501 | 495051 | 495101 |

TECHNICAL SPECIFICATIONS

| Model | | portable | with hose holder | with hose drum |
|-----------------------------|----------------|--------------------|--------------------|--------------------|
| Operating pressure | bar MPa | 130 13 | 130 13 | 130 13 |
| Water output | l/min l/h | 7.5 450 | 7.5 450 | 7.5 450 |
| Admissible overpressure | bar MPa | 160 16 | 160 16 | 160 16 |
| Motor speed | Rpm | 2800 | 2800 | 2800 |
| Connection | V ~ Hz A | 230 1 50 9.6 | 230 1 50 9.6 | 230 1 50 9.6 |
| Power intake Power output | kW | 2.2 1.65 | 2.2 1.65 | 2.2 1.65 |
| Power supply cable | m | 5 | 5 | 5 |
| Dimensions L x W x H | mm | 390 290 370 | 340 350 860 | 340 350 860 |
| Weight | kg | 21 | 23 | 26 |

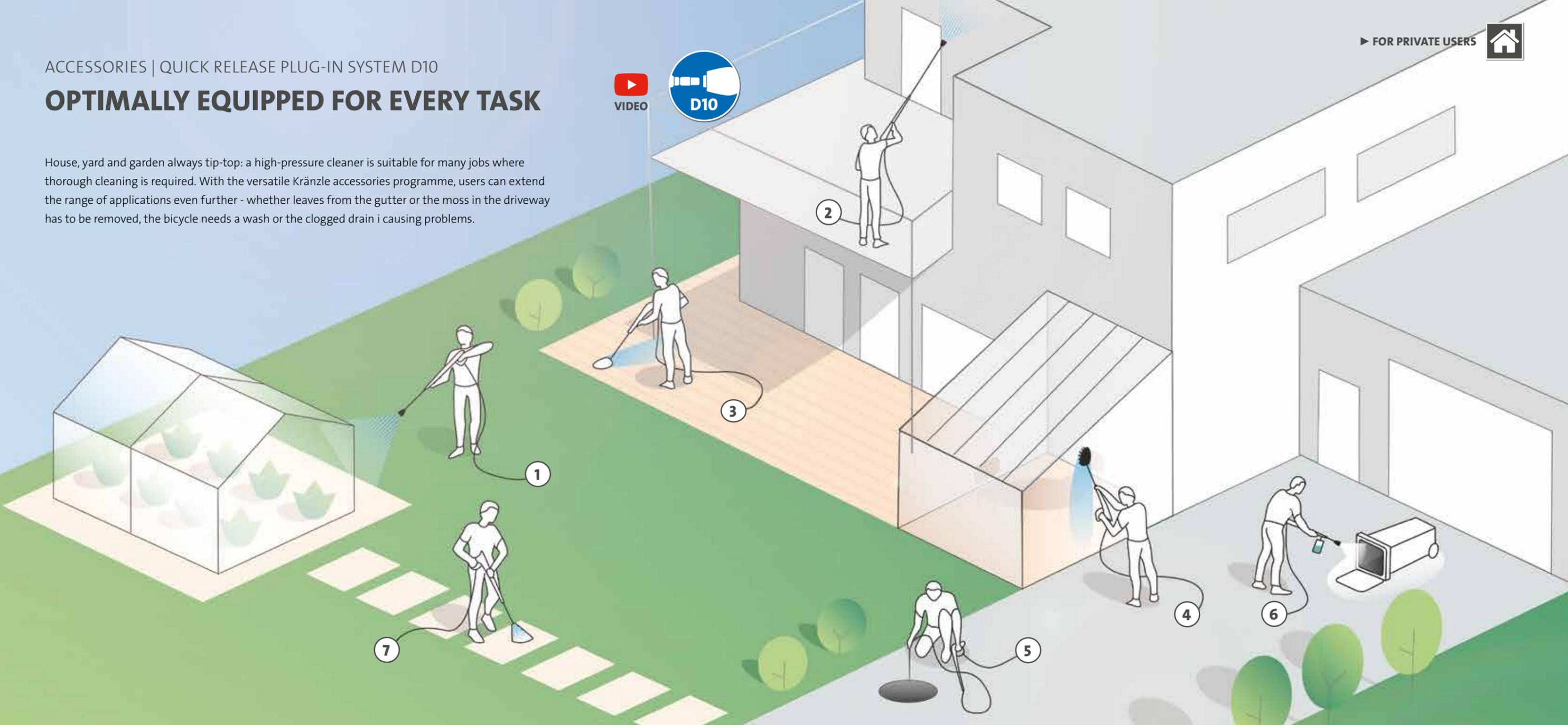
EQUIPMENT

| | | 8 (DN6) 410541 | 8 (DN6) 410541 | 12 (DN6) 49116 |
|--|------------------|------------------|------------------|------------------|
| High-pressure hose | m Ord.no. | 8 (DN6) 410541 | 8 (DN6) 410541 | 12 (DN6) 49116 |
| Trigger gun with safety catch | Model Ord.no. | M2001 12475 | M2001 12475 | M2001 12475 |
| Stainless steel lance with flat-jet nozzle | Nozzle Ord.no. | ○ 03 12900-03 | ○ 03 12900-03 | ○ 03 12900-03 |
| Lance with Dirtkiller | Nozzle Ord.no. | optional | ○ 03 42403-03 | ○ 03 42403-03 |
| Water inlet filter | Ord.no. | 13311 | 13311 | 13311 |



OPTIMALLY EQUIPPED FOR EVERY TASK

House, yard and garden always tip-top: a high-pressure cleaner is suitable for many jobs where thorough cleaning is required. With the versatile Kränzle accessories programme, users can extend the range of applications even further - whether leaves from the gutter or the moss in the driveway has to be removed, the bicycle needs a wash or the clogged drain causing problems.



TECHNICAL HIGHLIGHTS

QUICK RELEASE PLUG-IN SYSTEM D10

Sophisticated, fast and reliable: The quick release plug-in system with hardened stainless steel components ensures simple and always safe connection of the safety shut-off gun with the lance.

ANTI-TWIST PROTECTION

Accessories that are equipped with an anti-twist protection can be locked in various positions. This prevents the accessories from twisting unintentionally and allows them to be guided by moving the gun.



1. ROTATING DIRTKILLER NOZZLE:

Generates a rotating spot jet that removes even the most stubborn dirt.

2. LANCE EXTENSION:

Makes ladder and co. unnecessary. For easy access to hard-to-reach places

3. ROUND CLEANER UFO:

With two rotating high-pressure nozzles for easy and efficient cleaning of larger areas such as driveways or patios

4. ROTATING WASHING BRUSH:

The soft bristles of the washing brush allow for a gentle cleaning of sensitive surfaces

5. PIPE CLEANING HOSE:

Hose with 10 metre length for easy access to and effective removal of blockages in pipes and drains

6. FOAM INJECTOR:

Produces effective foam to dissolve coarse soiling (combined with Kränzle Neutral)

7. SPLASH GUARD:

Transparent attachment that encloses the high-pressure jet and protects the surroundings from splashing water

FOR X-SERIES AND K 1050-SERIES



12487 - 900 mm



12475 - 500 mm

M2001

- Inlet: M22x1.5 AG
- Outlet: Plug-in connection D10

| | |
|----------------|--------------|
| Ord.no. 900 mm | 12487 |
| Ord.no. 500 mm | 12475 |



Flat-jet nozzle

- For normal dirt
- for M2001 (Ord.no. 12487), 900 mm

| | |
|---------|----------------------|
| Ord.no. | 130100-M20033 |
| Length | mm 105 |



Dirtkiller nozzle

- For stubborn dirt
- for M2001 (Ord.no. 12487), 900 mm

| | |
|---------|------------------|
| Ord.no. | 42404-033 |
| Length | mm 110 |



Stainless steel lance with flat jet nozzle

- For normal dirt
- for M2001 (Ord.no. 12475), 500 mm

| | |
|-------------|-----------------|
| Ord.no. | 12900-03 |
| Pipe length | mm 400 |



Dirtkiller lance

- For stubborn dirt
- for M2001 (Ord.no. 12475), 500 mm

| | |
|-------------|-----------------|
| Ord.no. | 42403-03 |
| Pipe length | mm 400 |



Lance extension

- Anti-twist protection

| | |
|---------|--------------|
| Ord.no. | 12870 |
| Length | mm 400 |



Rotating washing brush

- Anti-twist protection

| | |
|--------------|--------------|
| Ord.no. | 12800 |
| Brush head Ø | mm 180 |
| Pipe length | mm 210 |



Pipe cleaning hose

| | |
|---------|--------------|
| Ord.no. | 12850 |
| Length | m 10 |



Round Cleaner Ufo

| | |
|---------|--------------|
| Ord.no. | 41870 |
| Ø | mm 260 |



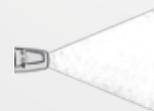
Spray guard

- Applicable for all washing lances

| | |
|----------------|---------------|
| Ord.no. | 132600 |
| Dimensions LxW | mm 285x190 |



SPOT JET



FLAT-JET



Foam injector lances

- Adjustable from spot jet to flat jet
- incl. screw cap

| | |
|-----------------|---------------|
| Ord.no. 1 Liter | 135302 |
| Ord.no. 2 Liter | 135312 |



Kränzle Neutral

- Universal cleaner

| | |
|----------------------|---------------|
| Ord.no. 1 Liter | 412710 |
| Ord.no. 5 Liter | 412711 |
| pH value (undiluted) | 10.9 |



BRILLIANT RESULTS EVEN WITHOUT WATERPOWER

INDUSTRIAL VACUUM CLEANER | HAND POWER SWEEPERS

VERSATILE, POWERFUL AND COMFORTABLE

Whether at the construction site or in the salesroom or in the workshop, whether in combination with power tools or for sucking up water: The Ventos 32 is ideal for all cleaning tasks. An automatic start-up, an automatic switchoff in case of the suction of liquids and the large drain plug ensure safe operation. The extra-long power cable and the suction hose offer a large action radius, and a wide range of accessories enables a thorough work.



TECHNICAL HIGHLIGHTS



CONTROL PANEL

For a continuously adjustable suction power, with integrated socket for connecting power tools. The automatic start-up switches the vacuum cleaner on when the tool is switched on, the overrun function ensures the complete draining of the suction hose after switching off the power tool.



PUSH-CLEAN FILTER CLEANING

Simple filter cleaning by pushing a button. By pushing the button on the top of the unit the airflow will be directed through the dust filter to clean it and to restore the full suction power. The dirt falls into the collection container or into the dust bag and can be conveniently disposed of.



PRINCIPLE OF ARRANGEMENT

This means that the accessories are always within reach. Power cable and suction hose can be spooled and stowed easily. A semicircular holder on the top, into which the suction tube can be placed, allows that the Ventos 32 can be carried comfortably by holding the suction tube securely in the recess of the grip.



PRACTICAL DESIGN

The robust and stylish housing is designed so that all important components, such as the dust bag and filter, are within easy reach. The all-terrain chassis also ensures high mobility and stability.



DRAIN PLUG

Thanks to the handy drain plug, liquid collected during wet vacuuming can be emptied simply and easily into a container or the drain. The large container volume of the Ventos 32 L/PC holds up to 30 litres of liquid before it needs to be drained.



WIDE RANGE OF ACCESSORIES

The Ventos 32 L/PC is supplied as standard with a wide range of accessories such as a suction nozzle, floor nozzle, tool adapter, etc.. For further applications, Kränzle has additional equipment for perfect cleaning results.

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KEY INDUSTRIES



Ventos 32 L/PC

NEW

SOCKET FOR POWER TOOL
with automatic start-up and shut-off and run-on function

DRAIN PLUG
for easy emptying of absorbed water

CARRY HANDLE
with suction tube trough for comfortable and safe transport

ACCESSORY STORAGE
For space-saving storage of pipes, hose, cables and accessories

OFF-ROAD CAPABILITY
for maximum mobility and maximum stability

580000 Ventos 32 L/PC

► **ACCESSORIES** | page 104-105

EQUIPMENT

- Push-Clean Filter Cleaning
- Wet and dry vacuuming
- integrated automatic on/off switch
- Mains connection of power tool (max. 2200 W)
- Container/filter bag volume sensor with LED display
- Level storage surface - for storing work materials



| | |
|----------------|-----------------------|
| MODEL | Ventos 32 L/PC |
| Ord.no. | 580000 |

| TECHNICAL SPECIFICATIONS | | |
|-----------------------------------|----------------|-------------------|
| Dust class | | L |
| Filter cleaning | | manual |
| Volumetric flow rate turbine max | l/min | 4500 |
| Depression turbine max | kPa mbar | 25 250 |
| Connection | V ~ Hz A | 230 1 50 16 |
| Power consumption Phom | W | 1200 |
| Container volume | L | 30 |
| Filling volume water intake | L | 30 |
| Sound pressure level at workplace | db (A) | 68.3 |
| Protection class | | IPx4 |
| Power supply cable | m | 7.5 |
| Dimensions L x W x H | mm | 590 360 570 |
| Weight | kg | 15.5 |

| EQUIPMENT | | |
|----------------|----------------------|----------------------|
| Dust bag | Quantity Ord.no. | 5 454511 |
| Disposal bag | Quantity Ord.no. | 1 454551 (5 Stück) |
| Folded filter | Dust class Ord.no. | L 457079 |
| Suction hose | m Ord.no. | 4 (DN 32) 452825 |
| Hand tube | Ord.no. | 584031 |
| Extension tube | Quantity Ord.no. | 2 584032 |
| Floor nozzle | Ord.no. | 584035 |
| Brush nozzle | Ord.no. | 584008 |
| Fugendüse | Ord.no. | 584023 |
| Tool adapter | Ord.no. | 584112 |

THE RIGHT EQUIPMENT FOR EVERY REQUIREMENT

Whether you need to clean hard-to-reach areas or use it on large surfaces: With the accessories included as standard, the Ventos 32 L/PC is already optimally equipped for the most common cleaning tasks. Our optionally available range of special accessories also meets the highest requirements and particularly demanding tasks. **Our accessories are compatible with all existing Ventos models.**



Dust bag

■ for Ventos 32 L/PC

| | |
|-----------------------|---------------|
| Ord.no. | 454511 |
| Quantity | 5 |
| Filling volume Litres | 30 |



Disposal bag

■ for Ventos 32 L/PC

| | |
|-----------------------|---------------|
| Ord.no. | 454551 |
| Quantity | 5 |
| Filling volume Litres | 30 |



Folded filter

■ for Ventos 32 L/PC

| | |
|---------------------|---------------|
| Ord.no. | 457079 |
| Dust class | L |
| Dimensions L x W mm | 240 140 |



Suction hose

■ antistatic

| | |
|-----------------|---------------|
| Ord.no. | 452825 |
| Dimensions L m | 4 (DN32) |
| Connection Ø mm | 45 |



Hand tube

■ with air slide

| | |
|-----------------|---------------|
| Ord.no. | 584031 |
| Dimensions L mm | 320 |
| Connection Ø mm | 45 35 |



Extension tube

■ Galvanised steel

| | |
|-----------------|---------------|
| Ord.no. | 584032 |
| Dimensions L mm | 2 x 500 |
| Connection Ø mm | 35 |



Floor nozzle

for wet and dry vacuuming

| | |
|-----------------|---------------|
| Ord.no. | 584035 |
| Dimensions L mm | 360 |
| Connection Ø mm | 35 |



Brush nozzle

for simultaneous vacuuming and brushing

| | |
|-----------------|---------------|
| Ord.no. | 584008 |
| Brush Ø mm | 70 |
| Connection Ø mm | 35 |



Joint nozzle

For use in narrow places

| | |
|-----------------|---------------|
| Ord.no. | 584023 |
| Dimensions L mm | 300 |
| Connection Ø mm | 35 |



Tool adapter

Use of power tools

| | |
|-----------------|---------------|
| Ord.no. | 584112 |
| Dimensions L mm | 120 |
| Connection Ø mm | 45 35 |

USE OF POWER TOOLS

The tool adapter or the optionally available tool suction hose are compatible with almost all common power tool brands. Dust and flying chips are effectively extracted, which guarantees comfortable as well as dust-free working.

Tool connection: Ø 25 mm



Floor nozzle

- made of aluminium, light and robust
- with integrated brush and rubber strips

| | |
|-----------------|---------------|
| Ord.no. | 584028 |
| Dimensions L mm | 450 |
| Connection Ø mm | 35 |



Turbo brush

- for the thorough cleaning of carpets
- with driven brush roller

| | |
|-----------------|---------------|
| Ord.no. | 584024 |
| Dimensions L mm | 280 |
| Connection Ø mm | 35 |



Carpet nozzle

- for carpets and smooth surfaces
- Adaptable to the respective surface

| | |
|-----------------|---------------|
| Ord.no. | 584018 |
| Dimensions L mm | 295 |
| Connection Ø mm | 35 |



Tool-Suction hose

For suction of power tools (Ø 25mm)

| | |
|-----------------|---------------|
| Ord.no. | 452825 |
| Dimensions L m | 3.5 (DN27) |
| Connection Ø mm | 35 |



Upholstery nozzle

for cleaning textile surfaces

| | |
|-----------------|---------------|
| Ord.no. | 584009 |
| Dimensions L mm | 145 |
| Connection Ø mm | 35 |



Universal brush nozzle

for simultaneous vacuuming and brushing

| | |
|-----------------|---------------|
| Ord.no. | 584017 |
| Dimensions L mm | 230 |
| Connection Ø mm | 35 |



Suction brush

gentle pet care without tiresome shedding

| | |
|-----------------|---------------|
| Ord.no. | 584020 |
| Dimensions L mm | 235 |
| Connection Ø mm | 35 |



Suction currycomb

removes gross impurities from animal skins

| | |
|-----------------|---------------|
| Ord.no. | 584019 |
| Dimensions L mm | 240 |
| Connection Ø mm | 35 |



Dust bag

■ for Ventos 20 E/L

| | |
|-----------------------|---------------|
| Ord.no. | 454400 |
| Quantity | 5 |
| Filling volume Litres | 20 |



Dust bag

■ for Ventos 30 E/L

| | |
|-----------------------|---------------|
| Ord.no. | 454401 |
| Quantity | 5 |
| Filling volume Litres | 30 |



Filter

■ for Ventos 20 E/L, Ventos 30 E/L

| | |
|----------------|---------------|
| Ord.no. | 454403 |
| Dust class | L |
| Ø mm | 280 |





KRÄNZLE HAND POWER SWEEPERS

BEST SWEEP-ACTION CLEANING RESULTS INSIDE AND OUT

Clean in passing: Kränzle's manual sweepers ensure that cleanliness is easily maintained in both indoor and outdoor areas - e.g. on paths, driveways or terraces - resulting in clean floor surfaces. Also for commercial use, on farms or in workshops as well as in the craft sector or for cleaning buildings there is varied flexibility on use for these devices.

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KEY INDUSTRIES



TECHNICAL HIGHLIGHTS



LONG CLEANING BRISTLES

Outside, the long bristles of smooth-running manual sweepers collect for example cigarette remains, leaves and small plastic waste into the large sweeping material container. For internal areas they thoroughly remove dust and other dirt.



INTEGRATED FREEWHEEL

Thanks to the integrated freewheel, the sweeping roller and side broom will turn sweeping material into the container.



EASY EMPTYING

The hopper made of impact resistant plastic can be used for emptying easily with the help of a practical handle and on the basis of its well thought-out construction.

Colly 800



50079 Colly 800

EQUIPMENT

- Integrated free-wheel
- Dustpan principle
- large waste bin, volume 30 liters
- 2 infinitely height-adjustable side brushes



| | |
|----------------|------------------|
| MODEL | Colly 800 |
| Ord.no. | 50079 |

TECHNICAL SPECIFICATIONS

| | | |
|-------------------------------------|-------------------|-----------------|
| Drive | | Manual |
| Area sweeping capacity at 2.5 km/h | m ² /h | 2000 |
| Waste bin volume | Liter | 30 |
| Exhaust air filter | mm ² | 2 x 6000 |
| Dimensions/standing position | mm | 750 400 |
| Working width (with 2 side brushes) | mm | 800 |
| Drive wheels Ø | mm | 300 |
| Sweeper roller Ø | mm | 254 |
| Dimensions L x W x H | mm | 980 850 390 |
| Weight | kg | 19 |



Kränzle 1+1



EQUIPMENT

- Integrated free-wheel
- Dustpan principle
- large waste bin, volume 30 liters
- 1 infinitely height-adjustable side brush
- Height-adjustable main broom



| | |
|----------------|--------------------|
| MODEL | Kränzle 1+1 |
| Ord.no. | 50077 |

TECHNICAL SPECIFICATIONS

| | | |
|------------------------------------|-------------------|-------------------|
| Drive | | Manual |
| Area sweeping capacity at 2.5 km/h | m ² /h | 1675 |
| Waste bin volume | Liter | 30 |
| Dimensions/standing position | mm | 1300 800 |
| Working width (with 1 side brush) | mm | 670 |
| Drive wheels Ø | mm | 285 |
| Sweeper roller Ø | mm | 250 |
| Dimensions L x W x H | mm | 1300 800 2060 |
| Weight | kg | 24 |



NOZZLE TABLE FLOW VOLUME

| Nozzle-size | ∅ | 20 / 2 | 30 / 3 | 40 / 4 | 50 / 5 | 60 / 6 | 70 / 7 | 80 / 8 | 90 / 9 | 100 / 10 | 110 / 11 | 120 / 12 | 130 / 13 | 140 / 14 | 150 / 15 |
|----------------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|----------|----------|----------|
| 0002 1502 2502 | 0.91 | 2.0 | 2.5 | 2.8 | 3.2 | 3.5 | 3.7 | 4.0 | 4.2 | 4.5 | 4.7 | 4.9 | 5.1 | 5.3 | 5.5 |
| 15025 25025 | 0.98 | 2.5 | 3.1 | 3.6 | 4.0 | 4.4 | 4.8 | 5.1 | 5.4 | 5.7 | 6.0 | 6.2 | 6.5 | 6.7 | 7.0 |
| 0003 1503 2503 4003 | 1.09 | 3.1 | 3.7 | 4.3 | 4.8 | 5.3 | 5.7 | 6.1 | 6.3 | 6.8 | 7.1 | 7.4 | 7.7 | 8.0 | 8.3 |
| 15035 25035 | 1.15 | 3.6 | 4.4 | 5.0 | 5.6 | 6.2 | 6.7 | 7.1 | 7.6 | 8.0 | 8.4 | 8.7 | 9.1 | 9.4 | 9.8 |
| 0004 1504 2504 4004 | 1.19 | 4.2 | 5.2 | 5.9 | 6.6 | 7.3 | 7.8 | 8.4 | 8.9 | 9.4 | 9.8 | 10.3 | 10.7 | 11.0 | 11.5 |
| 00045 15045 25045 40045 | 1.27 | 4.5 | 5.5 | 6.4 | 7.1 | 7.8 | 8.4 | 9.0 | 9.6 | 10.2 | 10.6 | 11.0 | 11.4 | 11.8 | 12.2 |
| 0005 1505 2505 4005 | 1.35 | 5.0 | 6.2 | 7.1 | 8.0 | 8.7 | 9.4 | 10.0 | 10.7 | 11.3 | 11.9 | 12.4 | 12.9 | 13.4 | 13.9 |
| 00055 15055 25055 40055 | 1.4 | 5.6 | 6.8 | 7.8 | 8.7 | 9.6 | 10.3 | 11.1 | 11.8 | 12.4 | 13.0 | 13.6 | 14.2 | 14.8 | 15.3 |
| 0006 1506 2506 4006 | 1.47 | 6.0 | 7.4 | 8.6 | 9.6 | 10.4 | 11.3 | 12.1 | 12.8 | 13.6 | 14.2 | 14.8 | 15.4 | 16.0 | 16.6 |
| 00065 15065 25065 40065 | 1.52 | 6.6 | 8.0 | 9.3 | 10.4 | 11.3 | 12.3 | 13.2 | 14.0 | 14.7 | 15.4 | 16.1 | 16.8 | 17.4 | 18.0 |
| 0007 1507 2507 4007 | 1.6 | 7.1 | 8.6 | 10.0 | 11.2 | 12.2 | 13.2 | 14.1 | 15.0 | 15.3 | 16.6 | 17.3 | 18.0 | 18.7 | 19.4 |
| 00075 15075 25075 40075 | 1.65 | 7.6 | 9.3 | 10.7 | 12.0 | 13.1 | 14.2 | 15.2 | 16.1 | 16.9 | 17.8 | 18.6 | 19.3 | 20.1 | 20.8 |
| 0008 1508 2508 4008 | 1.7 | 8.0 | 9.8 | 11.3 | 12.7 | 14.0 | 15.1 | 16.1 | 17.1 | 18.0 | 18.8 | 19.6 | 20.4 | 21.2 | 22.0 |
| 00085 15085 25085 40085 | 1.75 | 8.5 | 10.4 | 12.1 | 13.5 | 14.8 | 16.0 | 17.1 | 18.1 | 19.1 | 20.0 | 20.9 | 21.8 | 22.6 | 23.4 |
| 0009 1509 2509 4009 | 1.8 | 9.1 | 11.1 | 12.8 | 14.3 | 15.7 | 17.0 | 18.0 | 19.2 | 20.2 | 21.2 | 22.1 | 23.0 | 23.9 | 24.7 |
| 0010 1510 2510 4010 | 1.9 | 10.0 | 12.3 | 14.2 | 16.0 | 17.4 | 18.9 | 20.1 | 21.4 | 22.5 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 |
| 2511 | 2.6 | 11.2 | 13.7 | 15.9 | 17.7 | 19.4 | 21.0 | 22.4 | 23.8 | 25.1 | 26.3 | 27.5 | 28.6 | 29.7 | 30.7 |
| 2512 | 2.16 | 12.2 | 15.0 | 17.3 | 19.3 | 21.2 | 22.9 | 24.5 | 25.9 | 27.4 | 28.7 | 30.0 | 31.2 | 32.4 | 33.5 |

| 160 / 16 | 170 / 17 | 180 / 18 | 190 / 19 | 200 / 20 | 210 / 21 | 220 / 22 | 230 / 23 | 240 / 24 | 250 / 25 | 260 / 26 | 270 / 27 | 280 / 28 | 290 / 29 | 300 / 30 | bar / MPa |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| 5.7 | 5.9 | 6.0 | 6.2 | 6.4 | 6.6 | 6.7 | 6.8 | 6.9 | 7.0 | 7.1 | 7.3 | 7.4 | 7.5 | 7.6 | l/min |
| 7.2 | 7.4 | 7.6 | 7.9 | 8.1 | 8.3 | 8.5 | 8.6 | 8.8 | 9.0 | 9.2 | 9.4 | 9.5 | 9.7 | 9.9 | l/min |
| 8.6 | 8.9 | 9.1 | 9.3 | 9.5 | 9.7 | 9.9 | 10.1 | 10.3 | 10.5 | 10.6 | 11.2 | 11.4 | 11.6 | 11.8 | l/min |
| 10.1 | 10.4 | 10.7 | 11.0 | 11.3 | 11.6 | 11.8 | 12.1 | 12.4 | 12.6 | 12.9 | 13.1 | 13.3 | 13.6 | 13.8 | l/min |
| 11.9 | 12.2 | 12.6 | 12.9 | 13.3 | 13.6 | 13.9 | 14.2 | 14.5 | 14.8 | 15.1 | 15.4 | 15.7 | 16.0 | 16.3 | l/min |
| 12.6 | 13.0 | 13.4 | 13.8 | 14.2 | 14.6 | 15.0 | 15.3 | 15.6 | 15.9 | 16.2 | 16.7 | 17.1 | 17.4 | 17.7 | l/min |
| 14.3 | 14.7 | 15.1 | 15.5 | 15.9 | 16.3 | 16.7 | 17.1 | 17.5 | 17.9 | 18.2 | 18.6 | 18.9 | 19.2 | 19.6 | l/min |
| 15.8 | 16.3 | 16.7 | 17.1 | 17.5 | 17.9 | 18.3 | 18.7 | 19.1 | 19.5 | 19.9 | 20.4 | 20.7 | 21.1 | 21.5 | l/min |
| 17.1 | 17.6 | 18.1 | 18.6 | 19.1 | 19.6 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.3 | 22.7 | 23.1 | 23.5 | l/min |
| 18.7 | 19.4 | 19.9 | 20.4 | 20.9 | 21.4 | 21.9 | 22.4 | 22.9 | 23.4 | 23.8 | 24.1 | 24.6 | 25.0 | 25.5 | l/min |
| 20.0 | 20.6 | 21.2 | 21.8 | 22.4 | 22.9 | 23.4 | 23.9 | 24.4 | 24.9 | 25.4 | 25.9 | 26.4 | 26.8 | 27.3 | l/min |
| 21.5 | 22.2 | 22.8 | 23.4 | 24.0 | 24.6 | 25.2 | 25.8 | 26.3 | 26.8 | 27.3 | 27.9 | 28.4 | 28.9 | 29.4 | l/min |
| 22.8 | 23.5 | 24.2 | 24.8 | 25.4 | 26.0 | 26.6 | 27.2 | 27.8 | 28.4 | 29.0 | 29.5 | 30.1 | 30.6 | 31.1 | l/min |
| 24.1 | 24.9 | 25.6 | 26.3 | 27.0 | 27.7 | 28.3 | 28.9 | 29.5 | 30.1 | 30.7 | 31.4 | 31.9 | 32.5 | 33.1 | l/min |
| 25.5 | 26.3 | 27.1 | 27.8 | 28.5 | 29.2 | 29.9 | 30.6 | 31.3 | 31.9 | 32.5 | 33.2 | 33.8 | 34.4 | 35.0 | l/min |
| 28.5 | 29.4 | 30.2 | 31.0 | 31.8 | 32.6 | 33.4 | 34.1 | 34.9 | 35.6 | 36.3 | 36.9 | 37.6 | 38.3 | 38.9 | l/min |
| 31.7 | 32.7 | 33.6 | 34.6 | 35.5 | 36.3 | 37.2 | 38.0 | 38.8 | 39.6 | 40.4 | 41.2 | 42.0 | 42.7 | 43.4 | l/min |
| 34.6 | 35.7 | 36.7 | 37.7 | 38.7 | 39.6 | 40.6 | 41.5 | 42.4 | 43.2 | 44.1 | 44.9 | 45.8 | 46.6 | 47.4 | l/min |

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