

kränzle®

MADE IN GERMANY



PRODUCT CATALOG

HIGH-PRESSURE CLEANERS | VACUUM CLEANERS | POWER SWEEPERS



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 catalogue is valid from 1st November 2023. All previous product catalogs are no longer valid.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.

kränzle®

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PRODUCT NEWS

PRIMUS-SERIES 36-37

The new Primus-Series boasts a robust design and high washing performance for effortless cleaning of even the most heavily soiled environments.



X-SERIES 20-21

The new X-Series offers ease of use and the highest level of cleaning performance in its class.



VENTOS-SERIES 100-101

The industrial vacuum cleaners are suitable for both dry and wet vacuuming, offer a wide range of accessories and are compatible with a variety of electrical appliances.



STARLET 4 72-73

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.



VARIO-JET DUO 77

The new Vario-Jet Duo lance allows the user to effortlessly adjust the spray pattern from a pointed jet to a fan spray.



TELESCOPIC LANCE 82-83

The telescopic lance offers a convenient and effective solution for cleaning hard-to-reach places at height.



QUALITY HAS A NAME - AND MANY FACES



For nearly 50 years, the name Kranzle has become synonymous with quality, innovation and environmental responsibility. 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. Kranzle'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.



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.



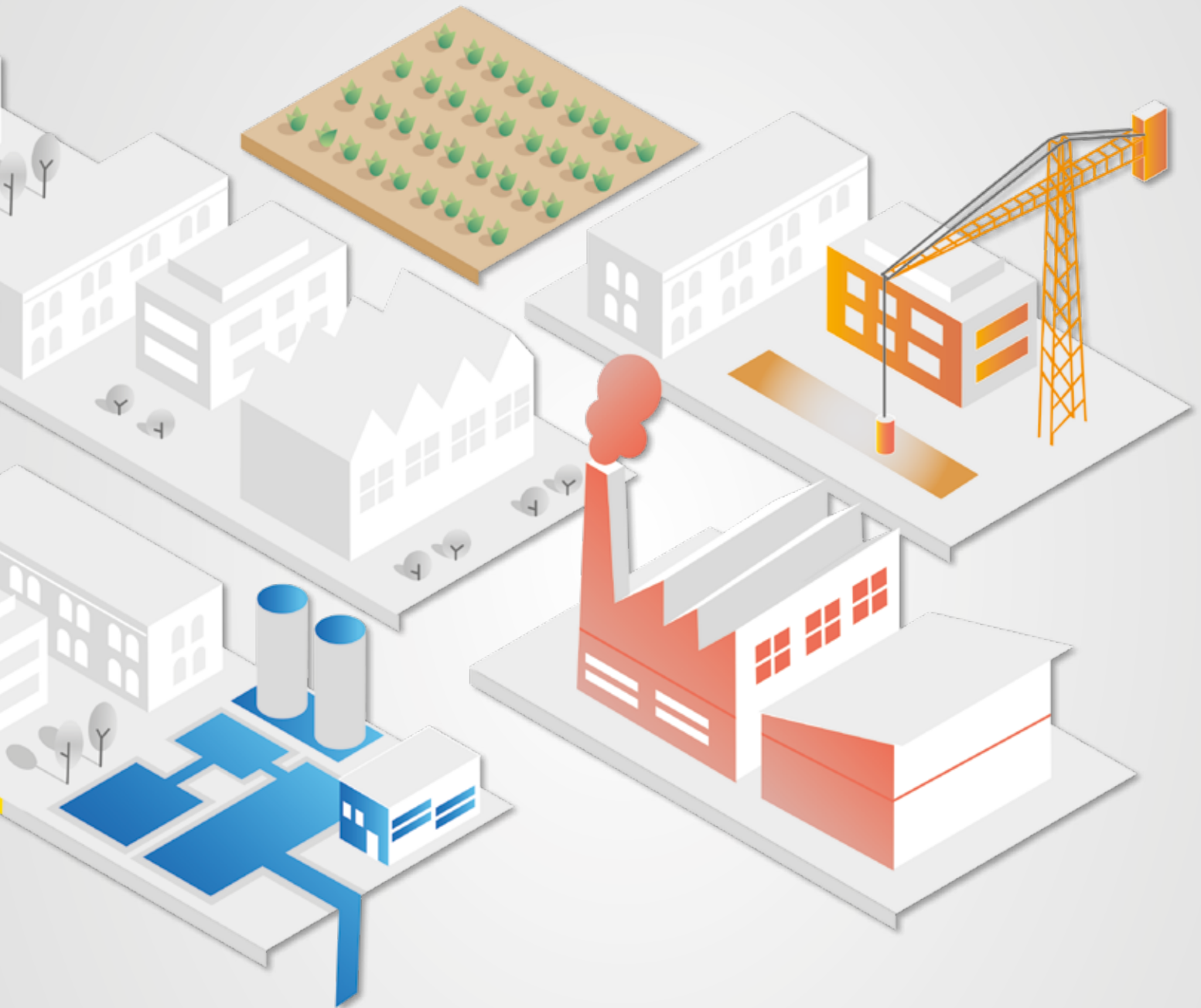
AGRICULTURE LIVESTOCK FARMING

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 comprising 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

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

QUALITY IN EVERY DETAIL

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.



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.



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.



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.



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.



WATER TANK:

Always on the safe side: A float regulates the water inflow and prevents damage to the pump due to a 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.

SCHNELL ZUR HAND, MOBIL UND UNVERWÜSTLICH

"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, X-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.



PRESSURE REGULATION

Working pressure and water flow can be fully adjusted to suit the in all all high-pressure cleaners (with the exception of the K1050 series).



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




HD 7/122 TS | 600030

► **ACCESSORIES** | page 28-29



EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Stepless 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.	Starlet 4 12525	Starlet 4 12525
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



STAINLESS STEEL PRESSURE GAUGE
easy reading of the working pressure

STAINLESS STEEL CARRY HANDLE
portable and space-saving compact design

ELECTRIC MOTOR - 1400 RPM, 4-POLE
slower motor RPMs last longer, run quieter
and allow for better in-let suction capabilities


TOTAL-STOP SYSTEM
automatic standby of the motor reduces noise
and power consumption when not in use

HD 9/80 TS | 600130

► **ACCESSORIES** | page 28-29



EQUIPMENT

-  Quick release plug-in system D12
- Kränzle axial pump
- Total-Stop system
- Stepless pressure regulation
- 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



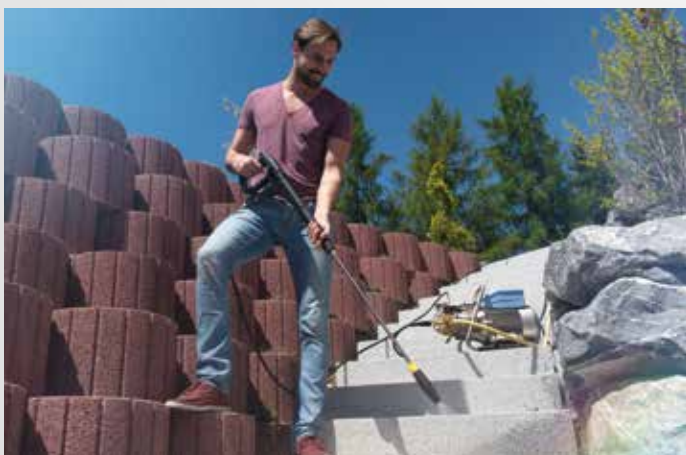
MODEL	HD 9/80 TS	HD 12/130 TS
Ord.no.	600130	600180

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.	Starlet 4 12525	Starlet 4 12525
Lance with flat jet nozzle	Nozzle Ord.no.	● 042 12435-M20042	● 042 12435-M20042
Lance with Dirtkiller	Nozzle Ord.no.	● 042 12438-042	● 042 12438-042



K 1152-Series




K 1152 TST | 602020

► **ACCESSORIES** | page 28-29



EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Stepless pressure regulation
- High-pressure hose with Twist-Stop screw connection



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 69

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.	Starlet 4 12525
Lance with Vario-Jet Duo	Nozzle Ord.no.	● 042 12433-042
Lance with Dirtkiller	Nozzle Ord.no.	● 042 12438-042





ACCESSORY BOX

Integrated holder for practical storage of Kränzle foam lance and other accessories.

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

ELECTRIC MOTOR - 1400 RPM, 4-POLE

slower motor RPMs last longer, run quieter and allow for better in-let suction capabilities (X 8/150 TST)

OFF-ROAD CAPABILITY AND STABILITY

robust chassis for easy transport and high stability

X 8/150 TST | 603600

► **ACCESSORIES** | page 28-29



EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Stepless pressure regulation
- High-pressure hose with Twist-Stop screw connection



MODEL	X 8/150 TST	X 10/140 TST
Ord.no. TST incl. hose drum	603600	603610

TECHNICAL SPECIFICATIONS

Operating pressure	bar MPa	30-150 3-15	30-140 3-14
Water output	l/min l/h	8 480	10 600
Admissible overpressure	bar MPa	170 17	160 16
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	33	33

EQUIPMENT

High-pressure hose	m Ord.no.	15 (DN6) 498000	15 (DN6) 498000
Trigger gun with safety catch	Model Ord.no.	Starlet 4 12525	Starlet 4 12525
Lance with flat jet nozzle	Nozzle Ord.no.	○ 03 12435-M2003	● 042 12435-M20042
Lance with Dirtkiller	Nozzle Ord.no.	○ 03 12438-03	● 042 12438-042



K 2000-Series



CONVENIENT INTEGRATED HOSE REEL (TST)

space-saving storage of the high-pressure hose with twist stop screw connection

ROTO-MOULD CHASSIS

practically indestructible plastic housing

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

K 2160 TST | 604020

► **ACCESSORIES** | page 28-29

EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Stepless pressure regulation
- Direct suction: Suction height 2.5 m
- High-pressure hose with Twist-Stop screw connection





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 69

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	30-170 3-17	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.	Starlet 4 12525	Starlet 4 12525	Starlet 4 12525
Lance with Vario-Jet Duo	Nozzle Ord.no.	● 042 12433-042	○ 03 12433-03	● 042 12433-042
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 (TST)

space-saving storage of the high-pressure hose with twist stop screw connection

ELECTRIC MOTOR - 1400 RPM, 4-POLE

slower motor RPMs last longer, run quieter and allow for better in-let suction capabilities

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




Profi 160 TST | 606000

► **ACCESSORIES** | page 28-29



EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Stepless pressure regulation

- Optional: Internal Water Tank can be supplied upon request.
- Direct suction: Suction height 2.5 m
- High-pressure hose with Twist-Stop screw connection



VARIANT - NON-MARKING

NOM conversion kit	Ord.no.	42260
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For further information on NON-Marking please refer to page 69

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.	Starlet 4 12525	Starlet 4 12525	Starlet 4 12525
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



Water tank

EXPERT TIP

Prevents damage to the high-pressure pump in case of water shortage

- Volume 1.3 liters
- Simple, tool-free assembly

Ord.no.	43860
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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

STAINLESS STEEL PRESSURE GAUGE

easy reading of the working pressure

WATER TANK

helps prevent damage to the device in case of water shortage

IMPACT PROTECTION

reduces accidental damage to the high-pressure pump

ROTO-MOULD CHASSIS


practically indestructible plastic housing

quadro 11/140 TST | 608000

► **ACCESSORIES** | page 28-29



EQUIPMENT

 Quick release plug-in system D12

■ Kränzle axial pump

■ Total-Stop system

■ Stepless pressure regulation

■ High-pressure hose with Twist-Stop screw connection

■ 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 69

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.	Starlet 4 12525	Starlet 4 12525
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 70

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.



NEW!

Starlet 4			
Ord.no.		12525	
Inlet		M22x1,5 AG	
Outlet		Plug-in connection D12	
Operating pressure	bar MPa	210 21	
Water output	l/min	20	
Temperature max.	°C	100	



135303

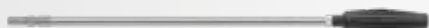
135313

Foam lance

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

Container	Liter	Ord.no.
1		135303
2		135313

Detergent: page 81



NEW!

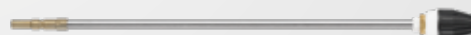
Lance with Vario-Jet Duo			
Length	mm	Düsengröße	Ord.no.
500		● 028	12433-028
500		○ 03	12433-03
500		● 042	12433-042



Spray guard

■ Applicable for all washing lances

Ord.no.		132600
Below LxW	mm	285x190



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 regulating nozzle			
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

41880



41881

Round Cleaner UFO long

Ord.no. without wheels	41880
Ord.no. with wheels	41881
Ø	mm 300
Operating pressure	bar MPa 180 18
Water output max.	l/min 10 13
Nozzle size	045



Round Cleaner UFO long stainless steel

Ord.no.	41891
Ø	mm 350
Operating pressure	bar MPa 210 21
Water output max.	l/min 11 15
Nozzle size	045



Round Cleaner INOX 300

Ord.no.	41813
Ø	mm 300
Operating pressure	bar MPa 160 16.0
Water output max.	l/min 10 13
Nozzle size	045



Round Cleaner INOX 410

Ord.no.	41814
Ø	mm 410
Operating pressure	bar MPa 180 18.0
Water output max.	l/min 11 16
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



Pipe cleaning hose with nozzle

■ Operating pressure max: 200 bar | 20 MPa
other nozzles on request

■ Nozzle size without front bore: KN 055
 ■ 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



COLD WATER HIGH PRESSURE CLEANERS - ESPECIALLY POWERFUL DEVICES

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.



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 TANK

Always on the safe side: A float regulates the water inflow and prevents damage to the pump due to a lack of water.



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



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

WATER TANK

helps prevent damage to the device in case of water shortage

ROTO-MOULD CHASSIS

practically indestructible plastic housing

quadro 899 TST | 610120

► **ACCESSORIES** | starting on page 70

EQUIPMENT

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

- High-pressure hose with Twist-Stop screw connection
- 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 69

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
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

quadro 1200 TST | 612120

► **ACCESSORIES** | starting on page 70



EQUIPMENT

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

- High-pressure hose with Twist-Stop screw connection
- 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 69

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
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 **



Primus-Series

NEW!



ACCESSORY STORAGE

neat storage for high pressure gun and lances

ROLL-ON AND ROLL-OFF AID

Enables effortless rolling up and unrolling of the high-pressure hose

CONVENIENT INTEGRATED HOSE REEL (TST)

space-saving storage of the high-pressure hose with twist stop screw connection

STAINLESS STEEL PRESSURE GAUGE

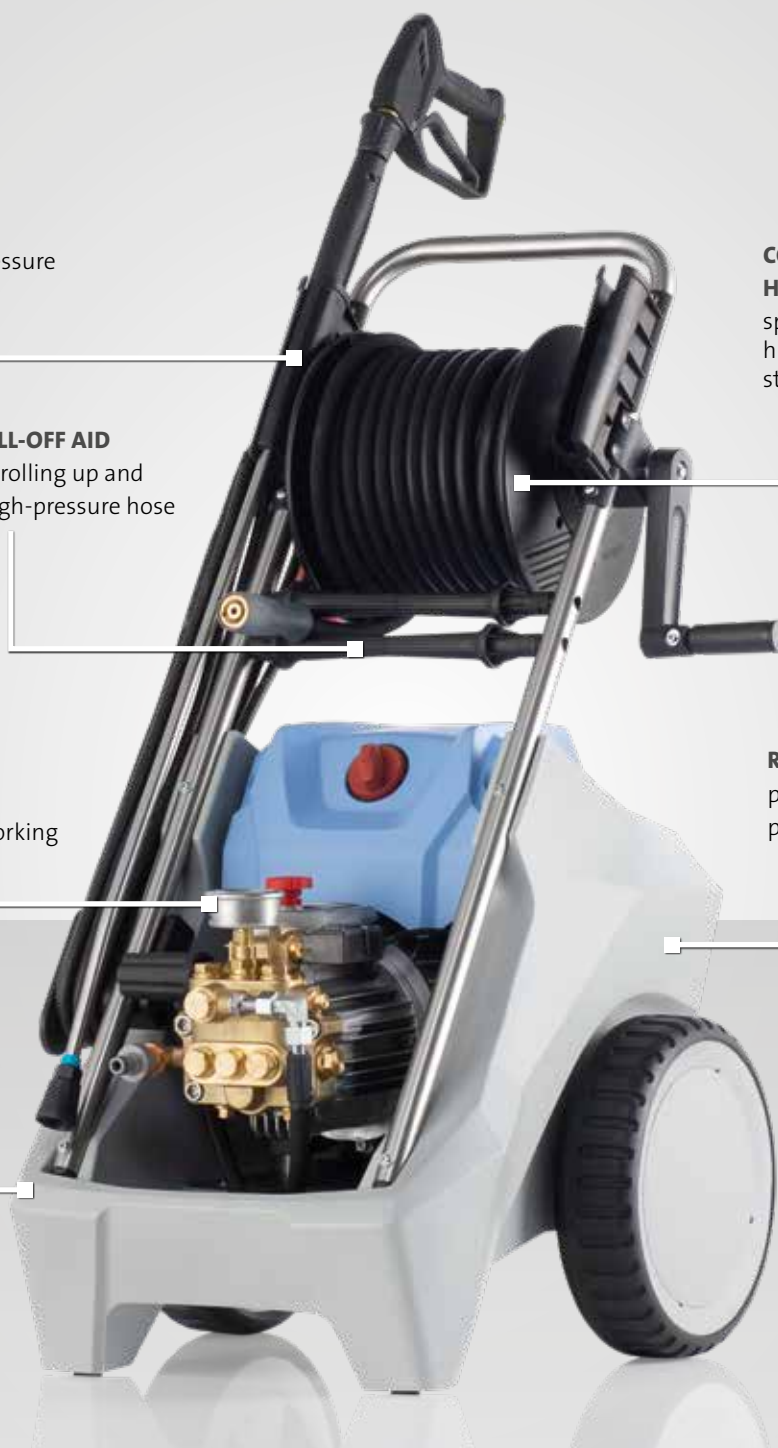
easy reading of the working pressure

ROTO-MOULD CHASSIS

practically indestructible plastic housing

IMPACT PROTECTION


reduces accidental damage to the high-pressure pump



Primus 1000 TST | 614150

► **ACCESSORIES** | starting on page 70

EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Stepless pressure regulation
- High-pressure hose with Twist-Stop screw connection





VARIANT - NON-MARKING

NOM conversion kit

Ord.no.

42284

For further information on NON-Marking please refer to page 69

MODEL	Primus 1000 TST	Primus 1200 TST
Ord.no. TST incl. hose drum	614150	614160

TECHNICAL SPECIFICATIONS

Operating pressure	bar MPa	30-220 3-22	30-180 3-18
Water output	l/min l/h	16.6 1000	20 1200
Admissible overpressure	bar MPa	250 25	200 20
Motor speed	Rpm	1400	1400
Connection	V ~ Hz A	400 3 50 11.4	400 3 50 11.4
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	640 515 985	640 515 985
Weight	kg	75	75

EQUIPMENT

High-pressure hose	m Art.Nr.	20 (DN8) 443812	20 (DN8) 443812
Trigger gun with safety catch	Modell Art.Nr.	Starlet 3 12500	Starlet 3 12500
Lance with flat-jet nozzle	Düse Art.Nr.	● 05 12420-D2505	● 07 12420-D2507



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


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

► **ACCESSORIES** | starting on page 70



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

■ Stepless 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
Lance with flat-jet nozzle	Nozzle Ord.no.	05 12420-D2505	065 12420-D25065	08 12420-D2508	11 12420-D2511



Wall holder-WS/WSC

EXPERT TIP

Ord.no.	483006
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LX-RP-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 PROTECTIVE COVER

durable and corrosion resistant

STAINLESS STEEL PRESSURE GAUGE

easy reading of the working pressure

IMPACT PROTECTION

reduces accidental damage to the high-pressure pump

RP IN-LINE PUMP

for magnificent cleaning results with maximum water flow

LX-RP 1600 TST | 616080

► ACCESSORIES | ab Seite 70



EQUIPMENT

Quick release plug-in system D12

Kränzle in-line RP pump

■ Total-stop system with delayed motor cut-off

■ Safety shutdown

■ Stepless pressure regulation

■ High-pressure hose with Twist-Stop screw connection

■ Locking brake

■ Direct suction: Suction height 2.5 m



VARIANT - NON-MARKING

NOM conversion kit	Ord.no.	42283
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For further information on NON-Marking please refer to page 69

MODEL	LX-RP 1000 TST	LX-RP 1200 TST	LX-RP 1400 TST	LX-RP 1600 TST
Ord.no. TST incl. hose drum	616050	616060	616070	616080

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	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	735 580 1020	735 580 1020	735 580 1020	735 580 1020
Weight	kg	94	94	94	94

EQUIPMENT

High-pressure hose	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
Lance with flat-jet nozzle	Nozzle Ord.no.	● 05 12420-D2505	● 065 12420-D40065	● 08 12420-D4008	● 11 12420-D4011






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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KEY INDUSTRIES





TECHNICAL HIGHLIGHTS



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 pairing, and with low oil protection

Profi-Jet B 13/150 | 618001

► **ACCESSORIES** | starting on page 70



EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Combustion engine Honda
- Stepless pressure regulation
- High-pressure hose with Twist-Stop screw connection
- Direct suction: Suction height 2.5 m



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.	Starlet 4 12525	Starlet 4 12525
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

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


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

Profi-Jet B 16/220 | 618049

► **ACCESSORIES** | starting on page 70



EQUIPMENT

-  Quick release plug-in system D12
- Kränzle axial pump
- Combustion engine Honda
- Stepless pressure regulation
- High-pressure hose with Twist-Stop screw connection
- 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	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	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
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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




B 240 T | 620023

► **ACCESSORIES** | starting on page 70



EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Combustion engine Honda
- Stepless pressure regulation
- High-pressure hose with Twist-Stop screw connection

- 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	Starlet 3 12500	Starlet 3 12500	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
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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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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

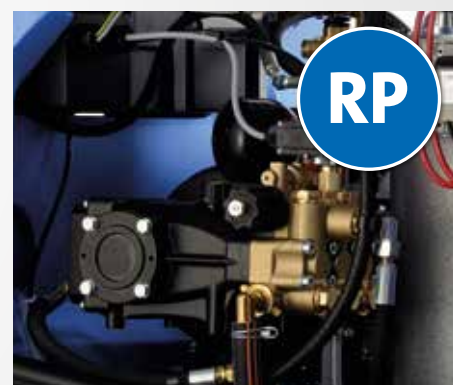
Electronic monitoring of combustion: Kränzle therm devices have a photocell to monitor the burner flame. This ensures safe operation at all times, even if the user is not near. Additionally, an overheating protection sensor measures the temperature at the exhaust; switching off heating automatically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



► ACCESSORIES | starting on page 70



EQUIPMENT

- Quick release plug-in system D12
- Kränzle in-line RP pump
 - Total-stop system with delayed motor cut-off
 - Safety shutdown
 - Stepless pressure regulation
 - Cleaning Agent Intake
 - Locking brake
 - 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



VARIANT - NON-MARKING

42280

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 69

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
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-RP-Series



DIGITAL CONTROL PANEL

digital temperature regulation with
2 different operation modes

ACCESSORY STORAGE

neat storage for high
pressure gun and lances

REMOVABLE COVERS

convenient and easy service access

AUTOMATIC HOSE REEL

automatic hose retraction with
Twist-Stop screw connection

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION

(on page 51)





therm-RP 1400 AT | 638620

► ACCESSORIES | starting on page 70



EQUIPMENT

-  Quick release plug-in system D12
-  Kränzle in-line RP pump
- Automatic hose drum
- Total-stop system with delayed motor cut-off
- Safety shutdown
- Stepless pressure regulation
- Cleaning Agent Intake
- Locking brake
- 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
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



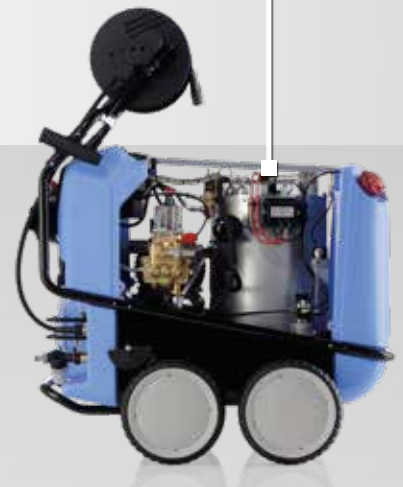
ACCESSORY STORAGE
neat storage for high pressure gun and lances

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 51)




therm 895-1 | 634410

► ACCESSORIES | starting on page 70



EQUIPMENT

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

For further information on NON-Marking please refer to page 69

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	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	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
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

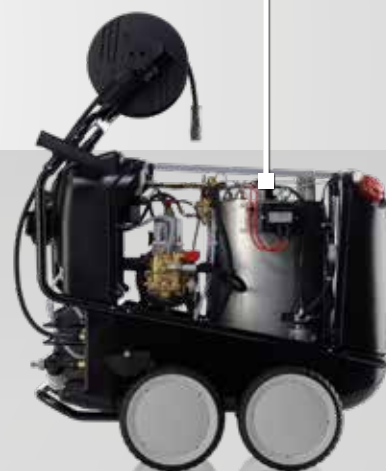
analogue temperature regulation

REMOVABLE COVERS

convenient and easy service access

VISUAL FLAME MONITORING AND OVERHEATING PROTECTION


(on page 51)



therm 1017 | 632210

► ACCESSORIES | starting on page 70

EQUIPMENT

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





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
Lance with flat-jet nozzle	Nozzle Ord.no.	● 06 12420-D2506
Water inlet filter	Ord.no.	13310

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 51)



therm-C 13/180 | 628210

► ACCESSORIES | starting on page 70

EQUIPMENT

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





VARIANT - NON-MARKING

42271

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 69

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	mm	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
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



► ACCESSORIES | starting on page 70

EQUIPMENT

 Quick release plug-in system D12

- Kränzle axial pump
- Total-Stop system
- Stepless 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	mm	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
Lance with flat-jet nozzle	Nozzle Ord.no.	● 045 12420-D25045	● 045 12420-D25045
Water inlet filter	Ord.no.	13310	13310





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





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

The temperature is controlled via the digital thermostat. This allows the water temperature to be maintained at a constant level. An integrated operating hours counter 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)


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)



e-therm 603 M 36 | 642260

► ACCESSORIES | starting on page 70

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 36, e-therm 873 M 48)



EQUIPMENT HOT WATER ELECTRICALLY HEATED

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



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 69

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	642350
Ord.no. incl. hose drum	642060	642160	642260	642310	642360

TECHNICAL SPECIFICATIONS

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

Hot water delivery at 12 °C feed	°C	48	60	75	68	80
Heating output	kW	18	24	36	36	48

EQUIPMENT

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
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.



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

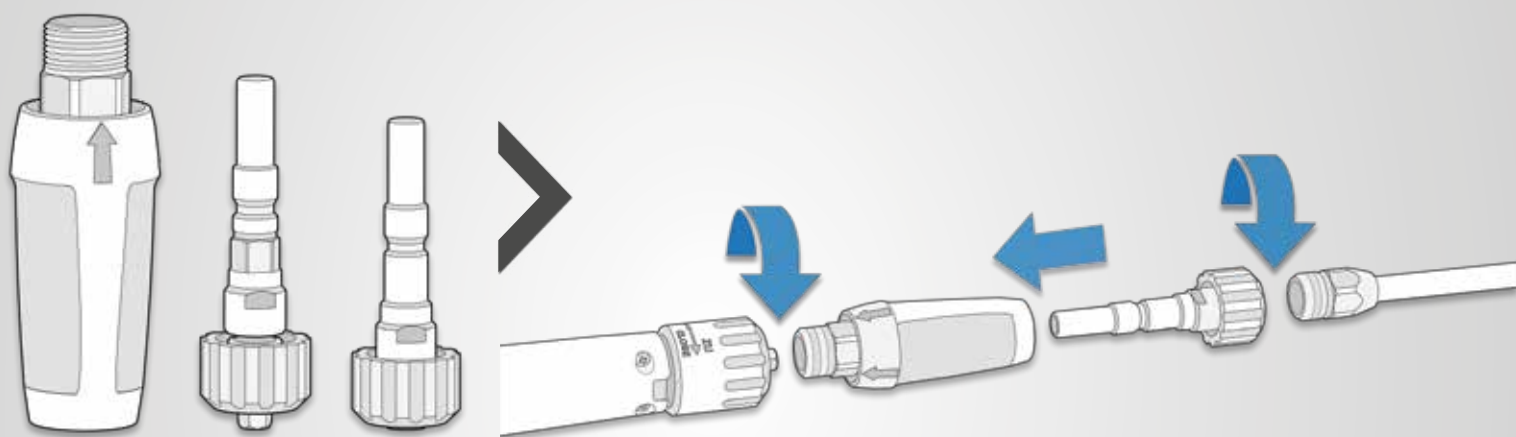
Go along with everything: provided with all machines: A special screw connection prevents the Twisting of the high-pressure hose during work and ensures so for consistent cleaning results in every situation.

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.

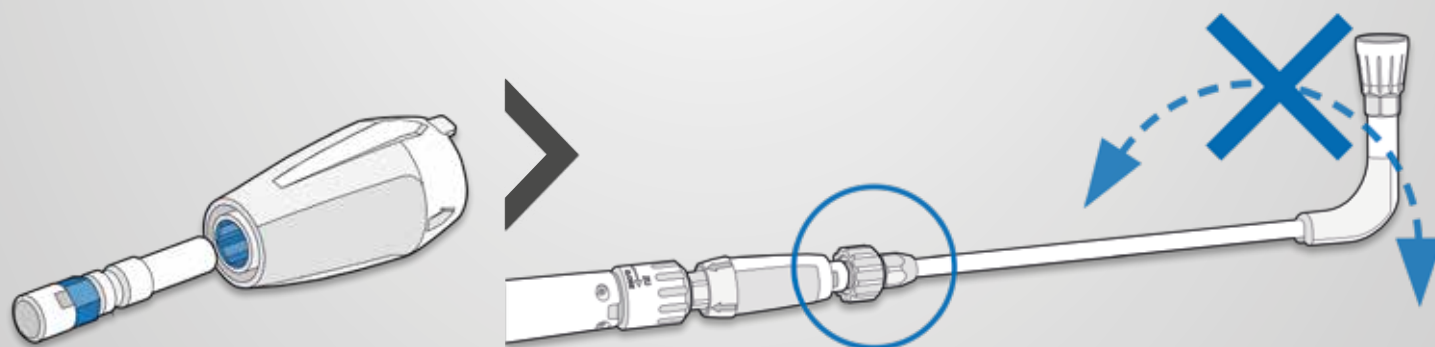


CONVERSION KIT | Ord.no. 13455

- 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.

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 2020, 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



LIGHT, COMFORTABLE AND ROBUST FOR AN



EFFORTLESS CLEANING EXPERIENCE

NEW: STARLET 4

With the Starlet 4 high-pressure gun, you get a high-quality and reliable tool for professional cleaning work. It offers a lightweight yet robust design that allows comfortable handling and precise control of the water flow. Whether you want to remove hard dirt or clean surfaces thoroughly, the Starlet 4 is the ideal choice.



TRIGGER GUNS WITH SAFETY CATCH



NEW!

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

Starlet 4		
Ord.no.		12525
Outlet		plug-in system D12
Operating pressure	bar MPa	210 21
Water output	l/min	20
Temperature max.	°C	100



CLEVER NOZZLE TECHNOLOGY FOR MAXIMUM CLEANING POWER



LANCE WITH PENDULUM NOZZLE

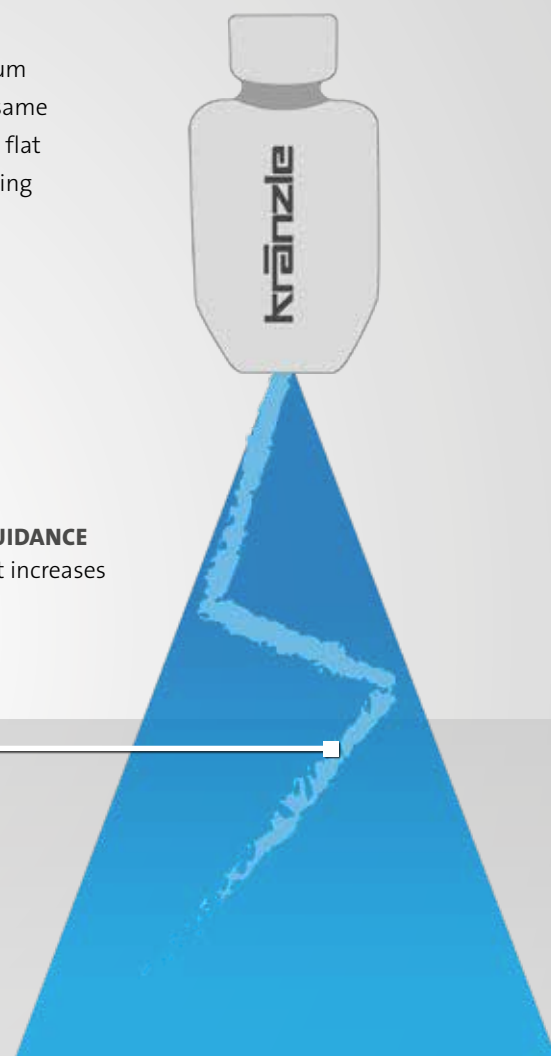
Convinces even under the toughest conditions: The new cleaning lance with pendulum nozzle made of wear-free stainless steel removes the most stubborn dirt and at the same time ensures area-wide cleaning. Its intelligent design combines the advantages of a flat jet lance with the power of a spot jet. 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

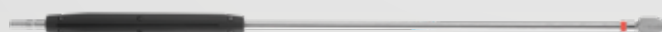


PRACTICALLY INDESTRUCTIBLE
made of stainless steel

INTELLIGENT FLOW GUIDANCE
the oscillating point jet increases
the cleaning power



CLEANING LANCES



12424-PD3008

Lance with pendulum nozzle				
Length	mm	Nozzle size	Spraying angle	Ord.no.
1000	grip plates	05	30°	12424-PD3005 NEW!
1000	grip plates	07	30°	12424-PD3007 NEW!
1000	grip plates	08	30°	12424-PD3008
1000	grip plates	11	30°	12424-PD3011







CLEANING LANCES



12435-M20028

12420-D2503

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



20° SPRAYING ANGLE

Knife nozzle
Material: Brass



25° SPRAYING ANGLE

Flat-jet nozzle
Material: Stainless steel



40° SPRAYING ANGLE

Flat-jet nozzle
Material: Stainless steel

****Please order high-pressure nozzle separately.**



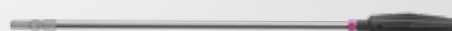
CLEANING LANCES

VARIO-JET

The spray pattern can be adjusted from pointed jet to a wide spray fan. In addition, for high pressure cleaners with an integrated chemical injector, the Vario-jet lance has an adjustable nozzle that allows the user switch from spraying water to spraying detergent. As such, cleaning foam or detergent can be applied without the need to change accessories.

NEW: VARIO-JET DUO

The spray pattern can be adjusted from pointed jet to a wide spray fan.



NEW!

Lance 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

Lance with Vario-Jet Duo

Length	mm	Nozzle size	Ord.no.
500		● 028	12433-028
500		○ 03	12433-03
500		● 042	12433-042



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

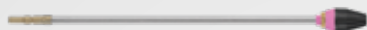
****Please order high-pressure nozzle separately.**





CLEANING LANCES

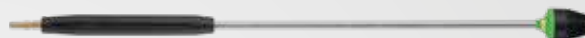
12438-028



12425-042



12430-045



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

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

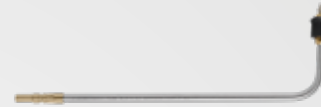
12133

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



Toilet lance

■ with anti-twist protection

■ with regulating nozzle

Ord.no.	12540
Length	mm
Nozzle size	D25055



Bend lance with handgrip

Infinite adjustment of bending angle from 20° to 140°

Ord.no.	121801-XXX
Length	mm
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



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



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

FOAM CLEANING | ADDITIVE



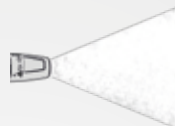
Foam lance

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

Container	Liter	Ord.no.
1		135303
2		135313



SPOT JET



FLAT-JET



Spare container foam lance

For changing and storing cleaning agents

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



Kränzle Neutral

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

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



Kränzle Plus

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

Container	Liter	Ord.no.
5		412721
25		412722



Kränzle Marine

Highly alkaline intensive cleaner dissolves soot, oil and grease stains
 ■ 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

Container	Liter	Ord.no.
0.25		400931 NEW!
1		400932
5		400933 NEW!
20		400934 NEW!



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.

POWERFUL TOOL FOR PROFESSIONAL CLEANING WORK

NEW: TELESCOPIC LANCE

The telescope lance offers a convenient and effective solution for cleaning hard-to-reach places at great heights. With this telescope lance, you can work without scaffolding or a lifting platform and safely clean various surfaces from the ground, including facades, ceilings, glass surfaces and solar installations



Telescopic lance	
For easy cleaning of hard-to-reach places at great heights. Clean without scaffolding or lifting platform - safely from the ground.	
Ord.no.	121900
Inlet/Outlet	M22x1.5 AG
Length min. max. m	2.4 5.4
Operating pressure with cleaning brush max. bar MPa	40 4
Water output max. l/min	30



Cleaning brush transverse		EXPERT TIP
<ul style="list-style-type: none"> ■ Natural bristles ■ Connection M22x1.5 AG 		
Ord.no.	410500	



SPECIAL ACCESSORIES



128060



128062

Cleaning brush transverse

- Natural bristles
- Brush head LxW: 240x90 mm
- with anti-twist protection (500 mm)

Pipe length	mm	Ord.no.
500		128060
750		128061
1000	grip plates	128062
1250	grip plates	128063
1500	grip plates	128064

410506



410507

Rotating washing brush

- Natural bristles
- Brush head Ø: 180 mm
- with anti-twist protection (342 mm)

Pipe length	mm	Ord.no.
342		410506
1000	grip plates	410507
1250	grip plates	410508
1500	grip plates	410509



optional

Cleaning brush flat

- Plastic bristles

Ord.no.	41073
+ Adapter D12	12441
Inlet	M22x1.5 AG
Dimensions LxW	mm 180x65



optional

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**
- 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
25		125503	125503-F
30		125504	125504-F



WITHOUT FRONT BORE

3 jets to the rear



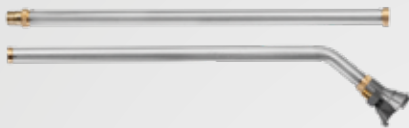
WITH FRONT BORE

3 jets to the rear

1 jet to the front

ACCESSORIES

INTAKE / EXTRACTION | 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)	● 055	



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	
Dimensions L	mm	320
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 as standard	● 055	



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

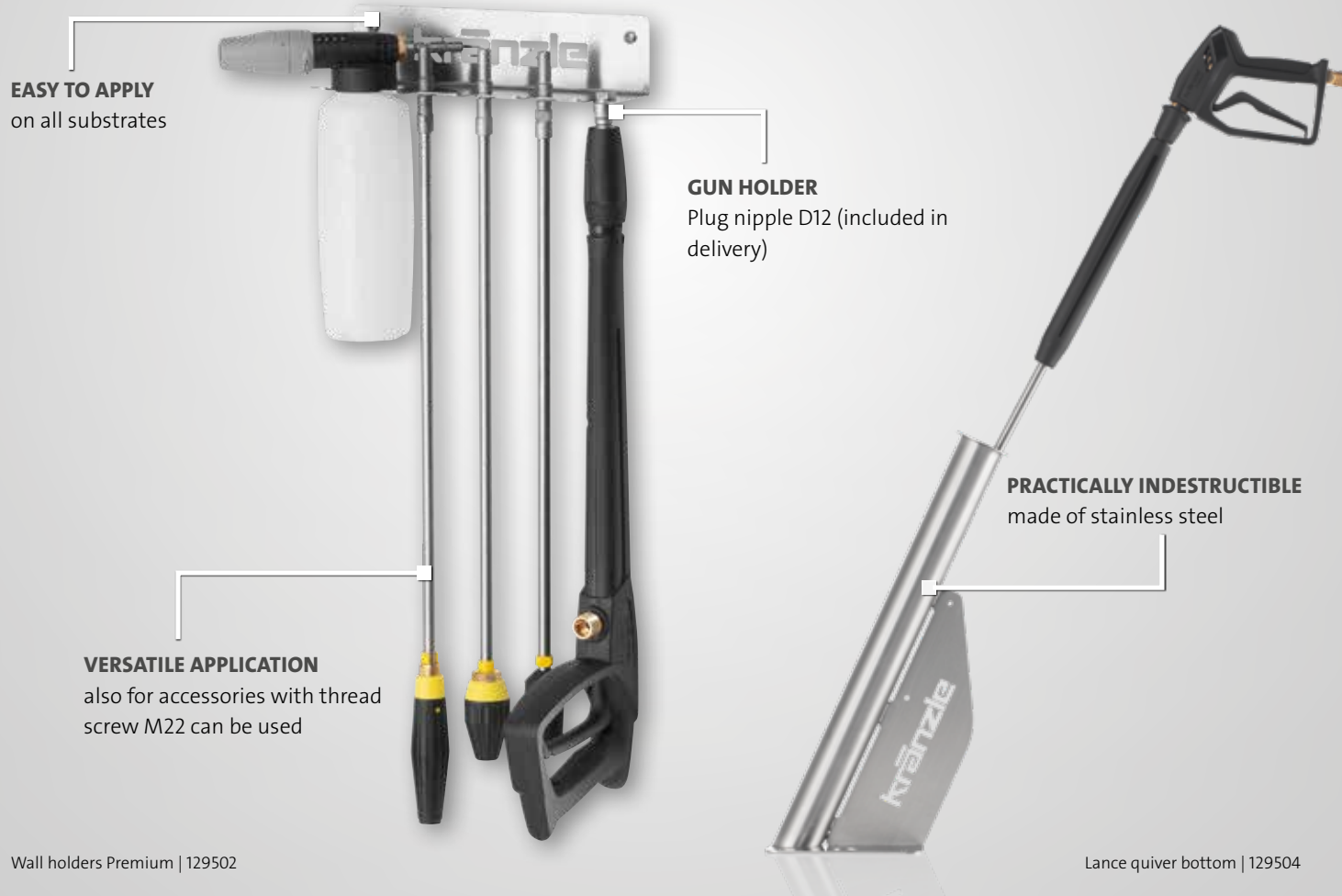
Inlet	Outlet	Ord.no.
3/4" AG (Plastic connection)	3/4" IG (Screw connection)	13310
3/4" AG	3/4" IG (Screw connection)	133003
Quick release coupling with claws (GEKA)	Quick release coupling with claws (GEKA)	133005
3/4" AG	3/4" IG (Screw connection)	133201



EVERYTHING IN PLACE

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.



Wall holders Premium | 129502

Lance quiver bottom | 129504

WALL HOLDERS



Wall holders Lances

Space-saving storage of up to seven lances and washing brushes
■ incl. gun holder D12

Ord.no.	129500
Dimensions LxWxH mm	300x50x70



Wall holders Foam lance

Large trough for practical attachment of the Foam lance

Ord.no.	129501
Dimensions LxWxH mm	80x70x70



Wall holders Premium

For the storage of up to four cleaning lances and one foam lance
■ incl. gun holder D12

Ord.no.	129502
Dimensions LxWxH mm	300x70x70

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

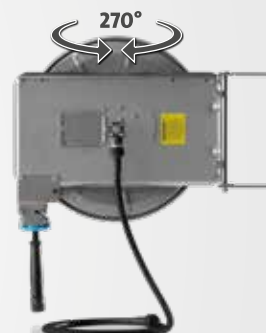
Ord.no.	48950
HP hose	m 20 (DN8)



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

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



44192

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	20 (DN8)	2			400 40		150		41083	410831
therm C, therm CA	15 (DN8)	1 / NoM: 2			210 21 / NoM: 400 40		150		44879	410821
LX-RP, therm-RP, therm 1, e-therm	20 (DN8)	2			400 40		150		443812	443813



412651



Connecting hose

■ Inlet | Outlet: M22x1.5 IG

Length	m	Steel braided layers	SN	Operating pressure	bar MPa	Ord.no.
1 (DN8)	2			400 40		41265
2 (DN8)	2			400 40		412651

Hose connector / joining piece

Ord.no.	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: Kränzle offers the K 1050-series for demanding domestic tasks. 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.





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.



INTELLIGENT SOLUTIONS FOR DOMESTIC 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.

K 1050-Series



ROTO-MOULD CHASSIS

practically indestructible
plastic housing

CONVENIENT INTEGRATED HOSE REEL (TST)

space-saving storage of the high-pressure
hose - with foldable crank

ACCESSORY STORAGE

neat storage for high pressure
gun and lances

CARRY HANDLE

portable and space-saving
compact design

OFF-ROAD CAPABILITY AND STABILITY


robust chassis for easy transport
and high stability



K 1050 TST | 495101
K 1050 P | 49501

► **ACCESSORIES** | page 96

EQUIPMENT

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

► **FOR PRIVATE USERS**



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

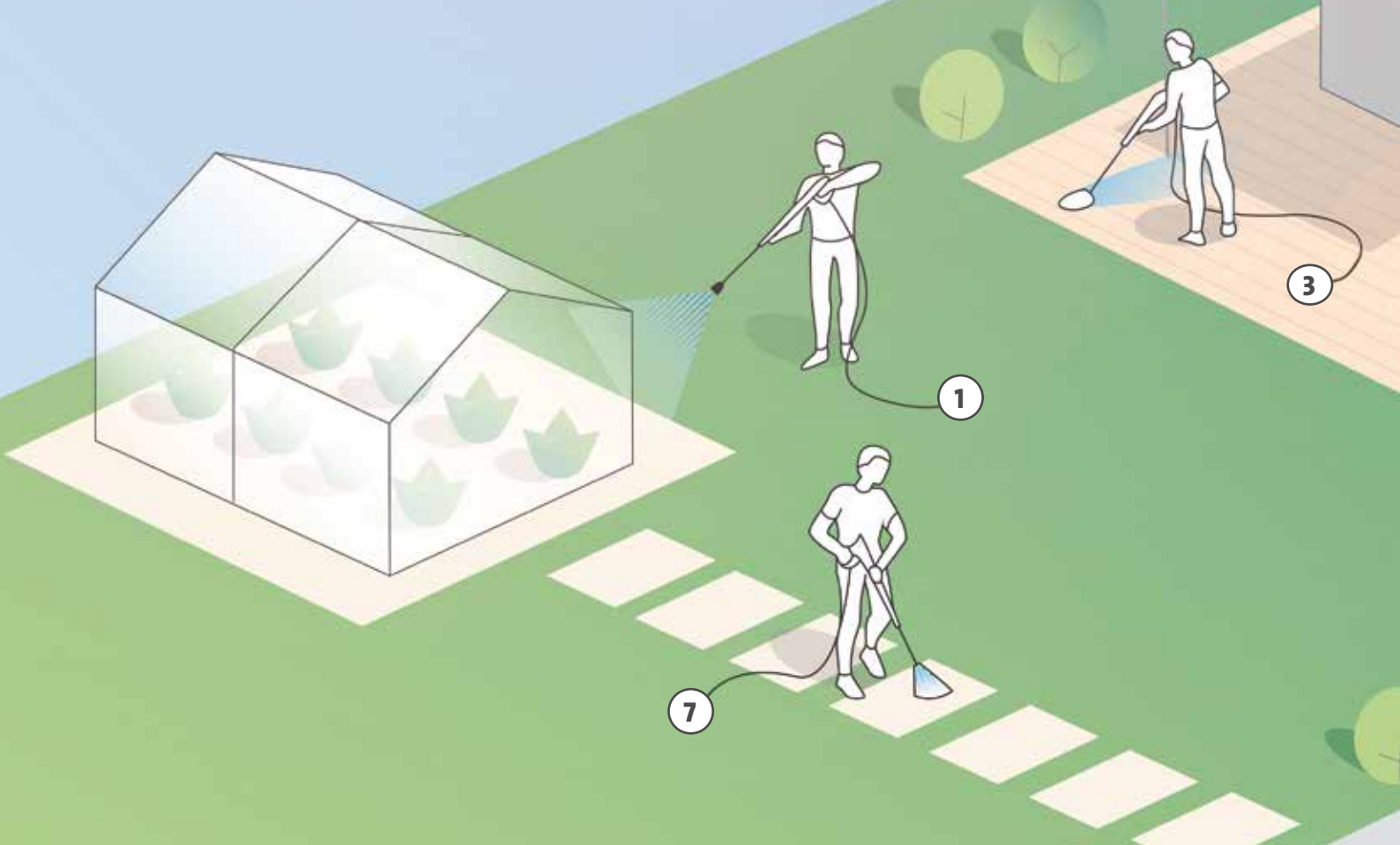
EQUIPMENT

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
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 is 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 equipped with an anti-rotation device can be locked in different 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:

Dwie obrotowe dysze wysokociśnieniowe umożliwiają łatwe i skuteczne czyszczenie większych powierzchni, takich jak podjazdy lub tarasy

4. Rotating washing brush:

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

5. Pipe cleaning hose:

10 m Pipe cleaning hose for effective removal of blockages in pipes and drains.

6. Foam lance:

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 K 1050-SERIES



M2001

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

Ord.no. 500 mm	12475
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Lance with flat jet nozzle

- For normal dirt

Ord.no.	12900-03
Pipe length	mm 400



Dirtkiller lance

- For stubborn dirt

Ord.no.	42403-03
Pipe length	mm 400



Lance extension

- Anti-twist protection

Ord.no.	12870
Length	mm 400



Round Cleaner Ufo

Ord.no.	mm	41870
Ø	mm	260



Spray guard

- Applicable for all washing lances

Ord.no.	132600
Dimensions LxW	mm 285x190



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



SPOT JET



FLAT-JET

125312



Foam lance

- Adjustable from spot jet to flat jet

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



412710

412711

Kränzle Neutral

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

Container	Liter	Ord.no.
1		412710
5		412711



412721

Kränzle Plus

Special cleaner to degrease and clean
■ pH-Wert**: 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

**pH value: Undiluted. We recommend testing the cleaning agent on the surface to be cleaned before starting.



BRILLIANT RESULTS EVEN WITHOUT WATERPOWER

INDUSTRIAL VACUUM CLEANER | HAND POWER SWEEPERS

INDUSTRIAL VACUUM CLEANER

**VERSATILE, POWERFUL
AND COMFORTABLE**

From the construction site to the salesroom to the workshop. The Ventos wet and dry vacuum cleaner, with integrated tool socket, is ideally equipped 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.



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KEY INDUSTRIES



THE FILTER CLEANING MAKES THE DIFFERENCE



MANUAL FILTER CLEANING – VENTOS PC

The manual Push-Clean feature of the Ventos PC ensures constant suction power and optimum cleaning performance. After pressing the push button, the airflow is diverted through the dust filter and it is cleaned in no time. The dirt simply falls into the collection container or the inserted dust bag, and the Ventos regains its full suction power.



AUTOMATIC FILTER CLEANING – VENTOS AC

The Automatic-Clean filter cleaning function of the Ventos AC offers added convenience. Thanks to an additional rotary knob, it is possible to set the intervals at which an automatically triggered air blast cleans the flat pleated filter. This enables long filter service life and ensures uninterrupted and continuous operation at full suction power.

TECHNICAL HIGHLIGHTS



CONTROL PANEL

With the Ventos series, the user always has all functions in view. The control panel allows infinitely variable regulation of the suction power.

In the case of the Ventos AC, the control panel also allows to set the interval for automatic filter cleaning.



AUTOMATIC START-UP

An integrated socket allows the connection of power tools (max. 2200 W).

The automatic start-up function switches the vacuum cleaner on when the tool is switched on, and the run-on function ensures that the suction hose is completely emptied after the tool is switched off.



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 inserted, allows the industrial vacuum cleaner to be carried comfortably by holding the suction tube securely in the recessed grip.

Ventos-Serie

NEW!

PRACTICAL

Handle with a holder for the suction tube for safe transport

COMFORTABLE

Socket outlet for power tools, with automatic start-up, automatic switch-off and overrun function

TIDY

Space-saving stowage of pipes, hose, cable and accessories

ROBUST

All-terrain chassis for mobility and high stability

SIMPLE

Drain screw for a problem-free draining of liquids after the sucking up of liquids

AS STANDARD

Extensive accessories to accomplish different cleaning tasks

Ventos 32 L/AC | 580020

► **ACCESSORIES** | page 102-103

EQUIPMENT

- Ventos PC: Push-Clean filter cleaning | Ventos AC: Automatic-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





CHOOSE FROM TWO DIFFERENT
CONTAINER SIZES

MODEL	Ventos 32 L/PC	Ventos 42 L/PC	Ventos 32 L/AC	Ventos 42 L/AC
Ord.no.	580000	580040 * NEW!	580020 NEW!	580060 * NEW!

TECHNICAL SPECIFICATIONS

Dust class	L	L	L	L
Filter cleaning	Manual	Manual	Automatic	Automatic
Volumetric flow rate turbine max l/min	4500	4500	4500	4500
Depression turbine max kPa mbar	25 250	25 250	25 250	25 250
Connection V ~ Hz A	230 1 50 16	230 1 50 16	230 1 50 16	230 1 50 16
Power consumption P _{nom} W	1200	1200	1200	1200
Container volume L	30	40	30	40
Filling volume water intake L	30	40	30	40
Sound pressure level at workplace db (A)	68.3	68.3	68.3	68.3
Protection class	IPx4	IPx4	IPx4	IPx4
Power supply cable m	7.5	7.5	7.5	7.5
Dimensions L x W x H mm	590 360 570	590 360 650	590 360 570	590 360 650
Weight kg	16.3	16.3	16.3	16.3

EQUIPMENT

Dust bag	Quantity Ord.no.	5 454511	5 454521	5 454511	5 454521
Disposal bag	Quantity Ord.no.	1 454551	1 454561	1 454551	1 454561
Folded filter	Dust class Ord.no.	L 457079	L 457079	L 457079	L 457079
Suction hose antistatic	m Ord.no.	4 (DN 32) 452825	4 (DN 32) 452825	4 (DN 32) 452825	4 (DN 32) 452825
Hand tube	Ord.no.	584031	584031	584031	584031
Extension tube	Quantity Ord.no.	2 584032	2 584032	2 584032	2 584032
Floor nozzle	Ord.no.	584035	584035	584035	584035
Brush nozzle	Ord.no.	584008	584008	584008	584008
Fugendüse	Ord.no.	584023	584023	584023	584023
Tool adapter	Ord.no.	584112	584112	584112	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 series 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

■ tear-resistant fleece filter bag for dry vacuuming

Ord.no.	454511
Quantity	5
Filling volume Litres	30



Disposal bag

■ for Ventos PC and Ventos AC

Ord.no.	454551
Quantity	5
Filling volume Litres	30



Folded filter

■ for Ventos PC and Ventos AC

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

for suction 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

Ord.no.	452828
Dimensions L m	4 (DN32)
Connection Ø mm	45 35



Upholstery nozzle

for cleaning textile surfaces

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



Wide nozzle

for use in narrow places

Art.Nr.	584012
Maße L mm	250
Anschluss 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



NEW!



Folded filter Wet + Dry

- for Ventos PC and Ventos AC

Ord.no.	457120
Dust class	M, L
Dimensions L x W mm	240 140

ACCESSORIES FOR OLDER VENTOS MODELS



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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Kränzle 1+1	108-109

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



Colly 800 | 50079

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		Manuell
Area sweeping capacity at 2.5 km/h	m²/h	2000
Waste bin volume	Liter	30
Exhaust air filter	mm²	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



Kränzle 1+1 | 50077

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	m²/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	Ø	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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