kränzle®
HOCHDRUCKREINIGER

www.kraenzle.com

Program 2009

Technical perfection and top design

kränzle made in Germany

kränzle®

HOCHDRUCKREINIGER

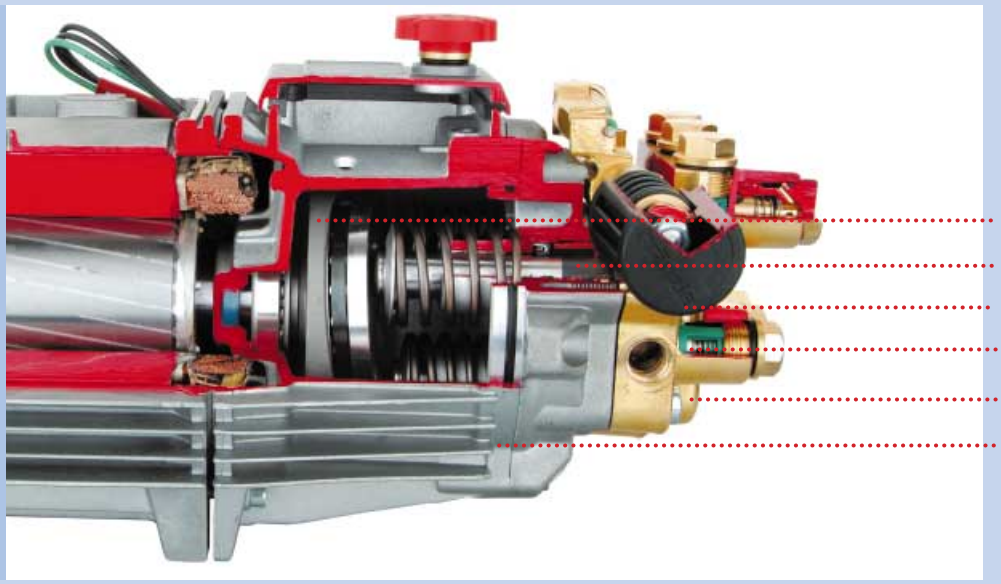
Kränzle high-pressure cleaners are first-class. They are distinguished by their extraordinarily high quality, extremely modern design, high grade material, long service life and economic efficiency.

Kränzle high-pressure cleaners also set standards in the context of environmental protection. They save water and energy - and yet achieve a maximum cleaning effect. The available pressure is optimally adapted to the flow rate of the water, thus effectively reducing the overall consumption of water and energy - for the benefit of the environment.

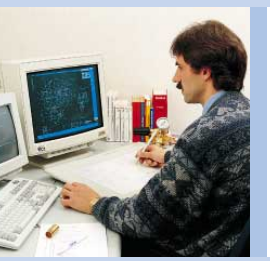
Kränzle high-pressure cleaners do not only require low maintenance, they are also handy and user-friendly.

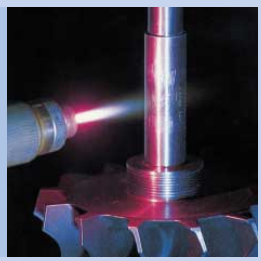
Numerous accessories are specially designed for Kränzle appliances and help to expand their range of application considerably.

Kränzle high-pressure cleaners offer decisive technical advantages:



- Over-dimensional drive
- Ceramic-coated pump plungers
- Continuously adjustable pressure control
- Valve seats made of stainless steel
- Special brass pump head
- Dry-run and bypass safety





A major reason for the success of Kränzle products is the great importance attached to the in-house research and development department.

State-of-the-art CAD systems help to significantly shorten development cycles, much improve product quality and to optimise production processes.

The heart of each high-pressure cleaner is the high-pressure pump. The pump heads are made completely of forged brass to ensure top quality and a long service life.

All pumps are made on CNC machining centres with electronic control systems to ensure maximum precision and compliance to specifications.

Modern facilities guarantee uncompromisingly high Kränzle quality standards during the final assembly phase.

Each product is put through an exhaustive function test prior to leaving the factory.

All Kränzle appliances are tested according to the CB-scheme and the TÜV/GS test procedures and certified accordingly.

The Company.

Illertissen Plant: Development, Production and Assembly

The Kränzle Company was launched in 1974 by Josef Kränzle. From the very beginning the utmost importance was attached to the superior quality of products. Consistent adherence to this philosophy has enabled us to attain a leading position in the market.

Constant new developments with countless patents and well-thought-through care of models bear witness to the innovativeness of the company.

It is Kränzle's intention to continue further development of its product range and to meet the needs of its customers even better through uncompromising quality management.

The Kränzle Company is certified according to ISO 9001 and the TÜV Produktservice.

The overall area of our two plants located in Illertissen, Bavaria, measures approx. 54,000 m^2, with 30,000 m^2 for production facilities.

The ultra-modern high-bay racking store in Plant 2 offers space for some 6,000 pallets.

The Bielefeld Centre: Distribution

The new, large training centre in Bielefeld with attached workshop.

Through intensive product marketing Kränzle is now an established name throughout the world. Kränzle-Vertriebs GmbH with its branches and partners is represented on almost every continent.

The Executive Partners Sigrid and Lutz Droitsch and Josef Kränzle, together with their highly committed staff, ensure that customers all over the world receive competent help and advice.

A modern, high-performance warehouse allows consignments to be delivered on time and at short notice. In Germany, a dense network of authorised dealers provide a comprehensive service for Kränzle customers.

The compact hot water high-pressure cleaners therm CA:

Standard equipment:

- Integrated trolley
- 7.5 m power lead
- Cable reel
- Steel fabric high-pressure hose 10 m, 15 m with hose drum
- Water tank
- Spray gun with safety cut-out
- Flat jet lance with stainless steel pipe
- Total-Stop system
- Continuously adjustable temperature control
- Continuously adjustable pressure and quantity control from outside
- Integrated steam level
- Pre-aeration of combustion chamber
- 25 l fuel tank with content monitoring
- Brass pump head
- Ceramic-coated pump plungers
- Dry-run safety
- Leakage return system
- Sucking in of detergents on the inlet side

Technical specifications	therm CA 11/130	therm CA 12/150	therm CA 15/120
Operating pressure, continuously adjustable	30 - 130 bar	30 - 150 bar	30 - 120 bar
Nozzle size (flat jet)	25045	25045	2507
Admissible overpressure	145 bar	170 bar	135 bar
Water output Q_{max}	660 l/h	720 l/h	900 l/h
Hot water output temperature (water supply 12 °C)	12 - 80 °C	12 - 80 °C	12 - 80 °C
Steam level	max. 140 °C	max. 140 °C	max. 140 °C
Delayed motor cut-out	no	no	no
Total-Stop system	yes	yes	yes
Water flow monitoring	yes	yes	yes
Pre-aeration of combustion chamber	yes	yes	yes
Optical flame monitoring system	no	no	no
Safety thermostat triggers at emission temperatures above 230 °C	no	no	no
Burner stops in case of heating oil lack	no	no	no
Heating oil jet - Oil pressure	1.35 Gph/60 ° - 10 bar	1.35 Gph/60 ° - 11 bar	1.5 Gph/60 ° - 11 bar
Heating oil consumption at max. heating output	5.1 kg/h (= 6,1 l/h)	5.4 kg/h (= 6.4 l/h)	6.0 kg/h (= 7.1 l/h)
Heating oil consumption at ΔT 45 °	3.2 kg/h (= 3.8 l/h)	3.5 kg/h (= 4.1 l/h)	4.3 kg/h (= 5.1 l/h)
Heating output	55 kW	58 kW	65 kW
Fuel tank	25 l	25 l	25 l
Steel fabric high-pressure hose NW 8	10 m	10 m	10 m
Connected load	230 V, 15 A, 50 Hz	400 V, 7,2 A, 50 Hz	400 V, 7,2 A, 50 Hz
Power input	P 1: 3.4 kW	P 1: 3.8 kW	P 1: 3.8 kW
Power output	P 2: 2.3 kW	P 2: 3.0 kW	P 2: 3.0 kW
Weight	150 kg	150 kg	150 kg
Dimensions in mm without hose drum (L x W x H)	790 x 590 x 980	790 x 590 x 980	790 x 590 x 980
Order No. with hose drum, inclusive 15 m steel fabric high-pressure hose NW 8	41.460 1	41.461 1	41.462 1
Order No. without hose drum	41.460	41.461	41.462

The compact hot water high-pressure cleaners therm C:

Standard equipment:

- Integrated trolley
- 7.5 m power lead
- Cable reel
- Steel fabric high-pressure hose 10 m, 15 m with hose drum
- Water tank
- Spray gun with safety cut-out
- Spray lance with stainless steel pipe
- Total-Stop system with delayed motor cut-out
- 4-way safety system with overload protection
- Optical flame monitoring
- Continuously adjustable temperature control
- Continuously adjustable pressure and quantity control from outside
- Integrated steam level
- Pre-aeration of combustion chamber
- 25 l fuel tank with content monitoring
- Brass pump head
- Ceramic-coated pump plungers
- Dry-run safety
- Leakage return system
- Sucking in of detergents on the inlet side

Technical specifications	therm C 11/130	therm C 13/180	therm C 15/150
Operating pressure, continuously adjustable	30 - 130 bar	30 - 180 bar	30 - 150 bar
Nozzle size	25045	25045	25055
Admissible overpressure	145 bar	200 bar	170 bar
Water output Q_{max}	660 l/h	780 l/h	900 l/h
Hot water output temperature (water supply 12 °C)	12 - 80 °C	12 - 80 °C	12 - 80 °C
Steam level	max. 140 °C	max. 140 °C	max. 140 °C
Delayed motor cut-out	yes	yes	yes
Total-Stop system	yes	yes	yes
Water flow monitoring	yes	yes	yes
Pre-aeration of combustion chamber	yes	yes	yes
Optical flame monitoring system	yes	yes	yes
Safety thermostat triggers at emission temperatures above 230 °C	yes	yes	yes
Burner stops in case of heating oil lack	yes	yes	yes
Heating oil jet - Oil pressure	1.35 Gph/60 ° - 10 bar	1.5 Gph/60 ° - 10 bar	1.5 Gph/60 ° - 11 bar
Heating oil consumption at max. heating output	5.1 kg/h (= 6,1 l/h)	5.8 kg/h (= 6.8 l/h)	6.0 kg/h (= 7.1 l/h)
Heating oil consumption at ΔT 45 °	3.2 kg/h (= 3.8 l/h)	3.8 kg/h (= 4.5 l/h)	4.3 kg/h (= 5.1 l/h)
Heating output	55 kW	60 kW	65 kW
Fuel tank	25 l	25 l	25 l
Steel fabric high-pressure hose NW 8	10 m	10 m	10 m
Connected load	230 V, 15.0 A, 50 Hz	400 V, 8.7 A, 50 Hz	400 V, 8.7 A, 50 Hz
Power input	P 1: 3.4 kW	P 1: 4.8 kW	P 1: 4.8 kW
Power output	P 2: 2.3 kW	P 2: 4.0 kW	P 2: 4.0 kW
Weight	150 kg	150 kg	150 kg
Dimensions in mm without hose drum (L x W x H)	790 x 590 x 980	790 x 590 x 980	790 x 590 x 980
Order No. with hose drum, inclusive 15 m steel fabric high-pressure hose NW 8	41.442 1	41.441 1	41.440 1
Order No. without hose drum	41.442	41.441	41.440

Hot water high-pressure cleaners:

Perfection, precision, innovation:

The **Kränzle therm** hot water high-pressure cleaners combine a number of technical innovations from Kränzle that contribute towards reliable operation, the safety of the equipment and not least towards operating and servicing.

The Kränzle therm cleaners are extremely safe to operate, kind to the environment, clean and quiet.

The Kränzle therm HP cleaners represent the state-of-the-art in equipment and safety.

The new optical flame monitoring device:

The models of the big **therm** as well as the new **therm C** series are equipped with an optical flamemonitoring device. A photocell is located right above the combustion chamber and connected to the central control electronics.

When the photocell detects extinction of the burner flame despite uninterrupted fuel supply, fuel feed is cut off as fast as can be done while an error message appears in the thermostat display.

The new thermostat with adjustable burner performance:

The models of the big **therm** are equipped with a digital thermostat which now allows for 2 modes of operation:

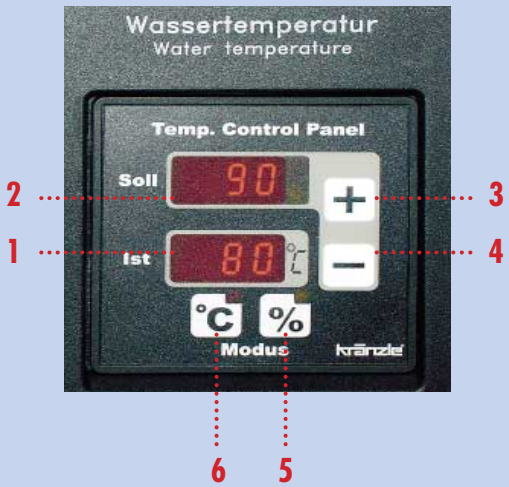
Operation mode 1:
Thermostat control (button 6)

Press buttons (nos. 3 + 4) to pre-select °C target temperature (display 2). The thermostat serves to measure the water temperature at the heating coil outlet and causes the burner to either switch on or off in accordance with the defined target values (display 2). The measured water temperature is displayed in °C (display 1).

Operation mode 2:
Burner performance (button 5)

Press buttons (nos. 3 + 4) to pre-select burner performance in % (display 2). The burner will be switched on or off at a given frequency and in accordance with the defined target values (display 2). The water temperature is measured at the heating coil outlet and displayed in °C (display 1). The temperature depends on the currently preset feed performance (pressure) and the displayed burner performance.

Once the parameters are determined, operation mode 2 has an advantage over operation mode 1 in as much as temperatures can be kept steady at +/- 2 °C. This can even be achieved with marginal water quantities and at low temperatures as are, for example, required for animal washing. All of the last selected values are saved in the thermostat's memory.



The high-pressure cleaners of the new **therm C/CA** series are equipped with an analogue rotary thermostat (control range 30 °C - 150 °C).

The hour meter:

The digital thermostats of the big **therm** are equipped with an integrated hour meter. When either the °C button (button 6) or the % button (button 5) are actuated for more than 2 seconds, the respective number of operating hours of the pump and of the burner will be displayed one after the other for approx. 5 seconds which, for example, helps to facilitate determining service intervals.

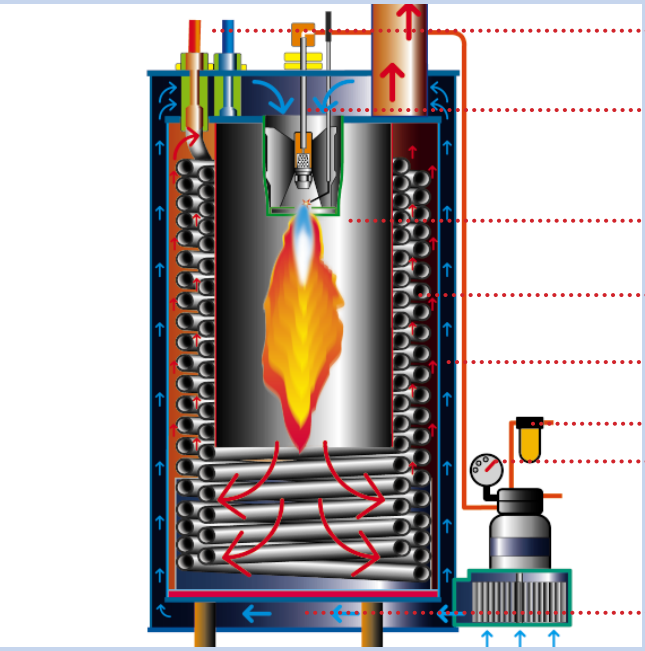
The new safety fitting:

The new safety fitting developed by Kränzle includes the pressure control valve for fully adjustable setting of the quantity and pressure of the water, and which also allows pressureless bypass operation. The safety valve continues to protect the equipment from excess pressure. The integrated flow indicator switches the oil burner off if the supply of water is too low, thus preventing the heating chamber from overheating.

Two pressure switches control the burner and allow the system to be switched off automatically if the gun is closed for longer than 20 seconds.
The pressure switches also restart the system when the gun is open.

All components are tried-and-true, having been used successfully by the million in other systems, and are combined here for the first time in one service-friendly block.

The therm combustion unit:



- Water inlet and outlet from the top
- Partial oil preheating by means of preheated air
- Large combustion chamber
- 2.1 m^2 heat exchange surface
- Cooling of external surfaces and preheating of combustion air
- Large oil filter, can be rinsed
- Pressure gauge (standard)
- Air-cooled base

The Kränzle-therm C:

- Exhaust gas chimney
- Cold water supply
- Hot water discharge
- Optical flame monitoring
- Filler opening for fuel
- Combustion unit
- Fuel tank
- Large oil filter, can be rinsed
- Oil pressure manometer
- Exhaust gas ventilation
- Shock absorbing buffer, front

Operating panel of the Kränzle-therm C:

- Master switch ON/OFF
- Heating ON/OFF
- Brief operating instructions
- Thermostat for setting of the required water temperature
- Stainless steel manometer with pressure display
- Detergent valve, continuously adjustable

Accessories high-pressure cleaners:

The floor cleaners:

Kränzle flat cleaner

with 120 mm extension (for persons with a stature above 1.75 m, allowing a fatigue-free handling of the cleaner) max. 220 bar, min. 80 bar, max. 19 l/min., Temperature max. 60 °C, Nozzle size 045, Order No. 41.093 1

Kränzle round cleaner

Roundcleaner 'UFO', Ø 300 mm, max. 12 l/min., max. 180 bar, max. 60 °C, Order No. 41.850

Roundcleaner light, Ø 300 mm, max. 12 l/min., max. 160 bar, max. 60 °C, Order No. 41.108

Roundcleaner, Ø 300 mm , max. 12 l/min., max. 250 bar, max. 60 °C, Order No. 41.105
Always specify type of appliance or nozzle size when ordering.

Roundcleaner, Ø 420 mm, max. 19 l/min., max. 250 bar, max. 60 °C, Order No. 41.106
Always specify type of appliance or nozzle size when ordering.

Brush-Roundcleaner, Ø 420 mm, with rotating brush, additional feature. max. 19 l/min., max. 250 bar, max. 60 °C, Order No. 41.109 Always specify type of appliance or nozzle size when ordering.

Roundcleaner, Ø 520 mm , max. 19 l/min., max. 250 bar, max. 60 °C, Order No. 41.107
Always specify type of appliance or nozzle size when ordering.

Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1
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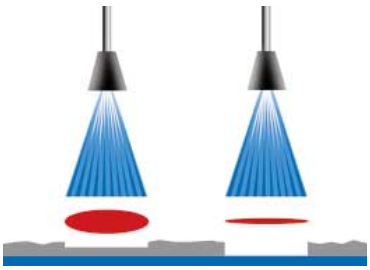
	Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1
Steel fabric high-pressure hose 10 m, 250 bar, NW 6, Order No. 43.416	●	●	●	●	●	●	●	●	●	●	●	●	●						●	●														
Steel fabric high-pressure hose 15 m, for hose drum, 250 bar, NW 6, Order No. 40.170			●		●				●	●	●																							
Steel fabric high-pressure hose for Profi, 15 m, 250 bar, NW 6, Order No. 43.829						●	●	●	●																									
Steel fabric high-pressure hose 20 m, 250 bar, NW 6, Order No. 43.4161	●	●	●	●								●	●						●	●														
Steel fabric high-pressure hose 10 m, 315 bar, NW 8, 2 layers, Order No. 41.081														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose 15 m, 315 bar, NW 8, 2 layers, Order No. 41.082														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose 20 m, 315 bar, NW 8, 2 layers, Order No. 41.083														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose 30 m, 315 bar, NW 8, 2 layers, Order No. 41.080														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hose connector, Order No. 13.286	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Screw connection, rotatable, Order No. 13.360 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter M 22, rotatable, for hose drum 41.259, as of 07/08, Order No. 13.250									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose, grey-blue, NW 6, 10 m, Order No. 43.416 2	●	●	●	●	●	●	●	●	●	●	●	●	●						●	●														
Steel fabric high-pressure hose, grey-blue, NW 6, 20 m, Order No. 43.416 3	●	●	●	●								●	●						●	●														
Steel fabric high-pressure hose, grey-blue, NW 8, 10 m, Order No. 41.081 1														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose, grey-blue, NW 8, 15 m, Order No. 41.082 1														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose, grey-blue, NW 8, 20 m, Order No. 41.083 1														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel fabric high-pressure hose, grey-blue, NW 8, 30 m, Order No. 41.080 1														●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hose drum with 20 m or 15 m steel fabric high-pressure hose, NW 8, 315 bar HD and 1 m connection hose without detergent injector Order No. 44.152 (therm 20 m) Order No. 44.152 1 (therm C/CA 15 m)																											●	●	●	●	●	●	●	●	●
Hose drum with 15 m steel fabric high-pressure hose, Order No. 41.259 5				●	●																													
Adapter for direct connection to the chimney ø 200 mm, suitable for all therm appliances Order No. 44 192																											●	●	●	●	●	●	●	●	●
Frame assembly kit made of aluminium, for crane transport, suitable for all therm + quadro appliances loadable up to max. 280 kg Order No. 44.298										●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●

Accessories high-pressure cleaners:

The new Kränzle knife jet nozzle: (Standard accessories)



Nozzle comparison:

Left:
normal fan jet nozzle

Right:
the new **Kränzle knife jet** nozzle with **significantly narrower** flat water jet

The impact area of the high-pressure water jet is approx. three quarters smaller compared to conventional flat jet nozzles. Thus the same pressure takes affect on a quarter of the former impact area, leading to a 4 times bigger impact pressure and an enormously increased cleaning efficiency.

Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1
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Flat jet lance M20028, 400 mm, Order No. 12.392 5-M20028																																		
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Flat jet lance M20030, 400 mm, Order No. 12.392 5-M20030																																		
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Flat jet lance M20042, 400 mm, Order No. 12.392 5-M20042																																		
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Flat jet lance M20045, 400 mm, Order No. 12.392 5-M20045																																		
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Flat jet lance M20032, 500 mm, Order No. 12.393-M20032																																		
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Flat jet lance M20042, 500 mm, Order No. 12.393-M20042																																		
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Flat jet lance M20070, 500 mm, Order No. 12.393-M20070																																		
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Flat jet lance M20035, 600 mm, Order No. 12.392-M20035																																		
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Flat jet lance M20045, 600 mm, Order No. 12.392-M20045																																		
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Flat jet lance D2504, 600 mm, Order No. 12.392-D2504																																		
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Flat jet lance D25045, 600 mm, Order No. 12.392-D25045																																		
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Flat jet lance D2505, 600 mm, Order No. 12.392-D2505																																		
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Flat jet lance D2506, 600 mm, Order No. 12.392-D2506																																		
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Flat jet lance D2507, 600 mm, Order No. 12.392-D2507																																		
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Flat jet lance M25110, 600 mm, Order No. 12.392 2-M25110 - quadro 1500 TS T																																		
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Flat jet lance M25100, 600 mm, Order No. 12.392 2-M25100 - quadro 1500 TS																																		

	Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1	Kränzle D 26/250 TS T	Kränzle D 30/180 TS T
Lance with Vario-Jet nozzle 045, 400 mm, Order No. 41.156		●	●	●	●																																
Lance with regulator nozzle MX20042, 400 mm, Order No. 12.700-MX20042		●	●	●	●																																
Detergent suction, Order No. 13.376 1																			●	●	●	●	●	●	●	●											
Detergent suction with lance, regulator nozzle 030, Order No. 13.376 5	●																																				
Detergent suction with lance, regulator nozzle 045, Order No. 13.376 6		●																																			
HP spray gun 'Midi' with lance D25045, Order No. 12.164 1-D25045																											●	●		●	●						
HP spray gun 'Midi' with lance D25055, Order No. 12.164 1-D25055																																●					
HP spray gun 'Midi' with lance D2507, Order No. 12.164 1-D2507																													●								
HP spray gun 'Starlet' with lance M20080, Order No. 12.320 3-M20080																																			●		
HP spray gun 'Starlet' with lance M20125, Order No. 12.320 3-M20125																																					●
HP spray gun 'Starlet', Order No. 12.320 2 **HP spray gun 'Starlet'** short, Order No. 12.327 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
for quadro 1500 for quadro 1500 **HP spray gun 'Starlet'**, Order No. 12.320 4 **HD-Pistole 'Starlet',** short, Order No. 12.164 5																		●																			
HP spray gun 'Midi', Order No. 12.160 **HP spray gun 'Midi',** short, Order No. 12.164 4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Double lance 1. nozzle opened = high-pressure, 1. + 2. nozzle opened = low pressure with increased washing off capacity; length 1000 mm with ISO handle, Order number 12.131, length 660 mm without ISO handle, Order no. 12.131 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Accessories high-pressure cleaners:

	Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1
Dirtkiller lance with nozzle 030, 400 mm, Order No. 41.073 8	•										•								•															
Dirtkiller lance with nozzle 045, 400 mm, Order No. 41.072 5		•	•	•	•				•	•										•														
Dirtkiller lance with nozzle 030, 500 mm, Order No. 41.570-030	•						•																											
Dirtkiller lance with nozzle 045, 500 mm, Order No. 41.570-045		•				•																					•	•		•	•				
Dirtkiller lance with nozzle 070, 500 mm, Order No. 41.570-070								•																					•					
Dirtkiller lance with nozzle 035, 600 mm, Order No. 46.150												•																						
Dirtkiller lance with nozzle 045, 600 mm, Order No. 46.150 1		•											•																					
Dirtkiller lance with nozzle 06, 600 mm, Order No. 46.150 2														•																				
Turbokiller lance with nozzle 035, 600 mm, Order No. 41.073 9																			•															
Turbokiller lance with nozzle 045, 600 mm, Order No. 41.072 3															•								•		•						•		•	
Turbokiller lance with nozzle 055, 600 mm, Order No. 41.072 4																•					•	•		•										
Turbokiller lance with nozzle 07, 600 mm, Order No. 41.072 7																										•			•					
Turbokiller lance with nozzle 08, 600 mm, Order No. 41.072 8																	•															•		
Turbokiller lance with nozzle 10, 600 mm, Order No. 41.580-10 quadro 1500 TS																			•															
Turbokiller lance with nozzle 11, 600 mm, Order No. 41.580-11 quadro 1500 TS T																			•															
Foam lance, 500 mm, Order No. 41.070		•	•	•	•														•	•	•	•	•	•	•	•								
Foam lance, 500 mm, Order No. 41.070 0						•	•	•	•	•	•	•	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•
Lance extension, 400 mm, Order No. 15.004 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lance extension, 1000 mm, Order No. 41.154	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1
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Toilet cleaning lance, Order No. 41.076

Underbody lance with extension, 800 mm, Order No. 41.075

Suction hose with intake filter, 3 m, Order No. 15.038 3

Sludge sucker, stainless steel,
Order No. 41.801, square sludge sucker attachment, Order No. 41.802

Sludge sucker 3 m, Order No. 41.104

Sandblaster set, compl. up to 19 l/min, 250 bar, Order No. 41.068

Rotating washing brush
with 400 mm extension, max. 20 bar, max. 35 °C, 10 - 20 l/min., Order No. 41.050 1

Flat brush, Order No. 41.073

Accessories high-pressure cleaners:

Kränzle 7/120 - Kränzle Silent 120	Kränzle 10/120	Kränzle 1150/1150 T	Kränzle 135/155	Kränzle 145 T	Kränzle Profi 160 TS T/175 TS T	Kränzle Profi 195 TS T	Kränzle Profi 15/120 TS T	Kränzle quadro 11/140 TS T	Kränzle quadro 12/150 TS T	Kränzle quadro 9/170 TS T	Kränzle quadro 599 TS T	Kränzle quadro 799 TS T	Kränzle quadro 899 TS T	Kränzle quadro 800 TS T	Kränzle quadro 1000 TS T	Kränzle quadro 1200 TS T	Kränzle quadro 1500 TS T	Kränzle Profi-Jet B 10/200	Kränzle Profi-Jet B 13/150	Kränzle Profi-Jet B 16/220	Kränzle B 170 T	Kränzle B 200 T	Kränzle B 240 T	Kränzle B 270 T	Kränzle B 230 T	Kränzle therm CA 11/130	Kränzle therm CA 12/150	Kränzle therm CA 15/120	Kränzle therm C 11/130	Kränzle therm C 13/180	Kränzle therm C 15/150	Kränzle therm 895-1	Kränzle therm 1165-1	Kränzle therm 875-1
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Pipe cleaning hose
with nozzle, 10 m - Order No. 41.058 1, **15 m** - Order No. 41.058,
20 m - Order No. 41.058 2, **25 m** - Order No. 41.058 3, **30 m** - Order No. 41.058 4
- with additional front bore: same order no. with addition of the letter - F -, e.g. „41.058 F"

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Spray guard, Order No. 41.052

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Nonreturn valve with anti-vacuum device, Order No. 41.016 4

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Ball cock with 2 x ST 30 screwed union, Order No.13.291 2

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Water intake filter, Order No. 13 300 - with union nut 3/4" female thread, Order No. 13 300 3

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Cleaning powder Carclin, 4 kg, Order No. 41.258 7

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All cleaner, 5 l, Order No. 41.258 9 **All cleaner**, 25 l, Order No. 41.258 8

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Foam cleaner, 1 l, Order No. 41.258 1

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Decalcifying concentrate, 1 l , Order No. 41.258 0

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Moss & Algae Removing concentrate, 1 l, Order No. 41.270

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