

High-pressure cleaning – everywhere and at any time



Powerful and always available: Stationary cleaning systems

Professional high-pressure cleaning is indispensable for the maintenance and care of tools, rooms, outdoor areas and vehicle fleets in industry and the trades. The special advantages of stationary high-pressure cleaning come into their own in all those places where it is necessary to clean to high standards on a regular basis.

- **Unlimited availability**

High-pressure water is fed from a central supply unit via a pipework system to permanently installed take-off points. Professional cleaning technology is thus available at any time, even over long distances, by simply pressing a button – all without tiresome transport, setting up and waiting times.

- **Comprehensive safety system**

All safety aspects of the high-pressure plant and the pipework system are monitored. Tampering and operator errors can be virtually excluded. Preset parameters such as metering rate and operating pressure guarantee an optimum cleaning process and result.

- **Versatile range of applications**

There are no limits to the possible uses of stationary high-pressure cleaning systems. Washing bays can be equipped with the appropriate accessories to cope with the widest range of cleaning operations.



Your decision is made easier with Kärcher®. As the world's leading manufacturer of cleaning systems we offer you:

- **Complete customised solutions**

Thanks to our broad line of systems, application-specific accessories and special cleaning and care agents, you receive a system equipped exactly to meet your requirements and specifications.

- **Turn-key systems**

We provide full support from the planning phase to the installation and commissioning of your plant.

- **Worldwide service network**

An extensive service network with subsidiaries in more than 30 countries as well as 36,000 sales outlets worldwide guarantees excellent support combined with competent after-sales service.

- **Leasing and hire purchase**

Be it full or partial amortization, contracts subject to notice or hire purchase: Kärcher® Leasing can offer you a tailor-made arrangement to finance our products.

The right plant for every requirement



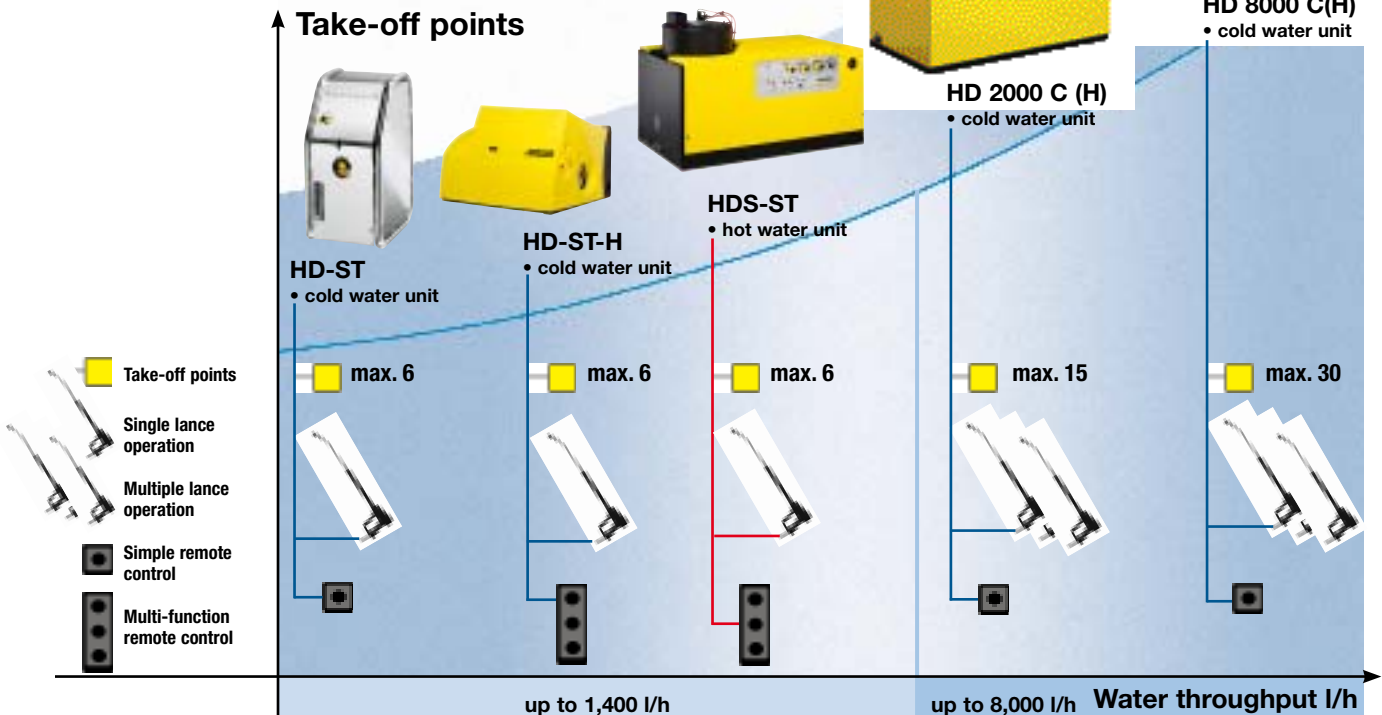
Our stationary high-pressure cleaners provide a variety of capacities, standard equipment and water throughputs. We can therefore choose the system that best suits your specific requirements.

• **Single or multiple lance operation?**

Units designed for **single lance operation** allow only one take-off point to be used at a time. These units are particularly suitable for smaller companies with a limited number of applications. HD-C units are recommended for larger companies as they are rated for up to 30 take-off points. As many as 10 lances may be used simultaneously with such units, hence the reference to **multiple lance operation**.

• **Cold or hot water?**

Cold-water units are used in places where hot water is available from a centralized water supply or where cleaning with cold water is sufficient. Depending on the model concerned, the inlet temperature may be between 60 and 80°C. **Hot-water units** with an integral oil or gas burner operate with hot water or steam.



Food industry: Highest level of hygiene

The strictest hygiene regulations are imposed in food production and meat processing. This applies to the entire production process with its machines and conveyors as well as transportation in containers and vehicles, and disposal at the end of the line. In order to achieve germ-free cleaning results, Kärcher® recommends that workplaces be equipped with foam spray lances for the use of RM 732 disinfectant.



- **Optimum hygiene**

The insides and outsides of machines and equipment are covered in foam at low pressure using RM 732 and the foam lance to achieve a disinfecting effect.



- **Main wash at high pressure**

After waiting for up to 20 minutes the self-cleaning foam is flushed away using the high-pressure fan jet nozzle.



- **All-round cleanliness**

Foam cleaning with RM 732 ensures optimum cleanliness in the interiors of trucks and refrigerated vehicles. High-pressure is used for cleaning the bodywork from outside.



- **Caution when choosing temperature**

Hot water dissolves greases quickly and saves chemicals. On the other hand, albumin is baked into the surface at temperatures above 60°C.



- **Efficient floor cleaning**

Using the stainless steel floor cleaning tool guarantees maximum cleanliness without annoying splash water, particularly in narrow spaces between machines and equipment.

Beverage industry and wine-cellar: Wide radius of action for comprehensive cleanliness



Stationary high-pressure cleaning is simply unbeatable in wine-cellar and bottling plants. A big radius has to be covered – from production equipment, bottling plant and conveyors to all containers and barrels as well as silo vehicles and tankers. The question as to whether a cold or hot water unit should be used depends to a great extent on the type of beverages that are produced and bottled. Kärcher® has developed an acid foam cleaner, RM 58 ASF, which easily removes stubborn dirt and tartar.

- **Cleanliness in difficult-to-reach areas**

You can achieve excellent cleaning results with the FR 30, even in areas where access is awkward. It features a flexible joint.



- **360° cleaning power with the HKF 50**

Kärcher®'s line of accessories includes special spray heads for cleaning the insides of tanks, barrels and containers.



- **Professional pipe cleaning**

Kärcher® has highly flexible high-pressure hoses in its range with a reach of up to 30 metres for cleaning inside pipes.

- **Powerful outdoor cleaning**

There is a wide variety of outdoor applications for high-pressure cleaning with the fan jet nozzle.

Automotive workshops: A clean appearance creates confidence

Powerful friends are needed in the battle against dirt, in workshops in particular. The amount of cleaning needed in and around vehicles is considerable and very varied: From parts cleaning, engine and underbody washing to washing the bodywork. Maintaining workshop areas, forecourts and yards with Kärcher® high-pressure systems also pays for itself because a clean image helps to boost customer confidence.



- **Promises gleaming results**

The RM 81 cleaner dissolves even stubborn dirt. The main wash is best performed with hot water.



- **Tough on dirt, gentle on material**

Engine wash with steam and reduced impact pressure.



- **For use in any position**

The FR 30 offers enormous cleaning power on the floor. But its ergonomic handle and extraction facility also make it suitable for cleaning walls and vehicle bodies.



- **Hot tip**

Stains containing oil can be removed without difficulty with a hot water unit (from 80°C up to steam mode).



- **Gentle action accessory**

Driven by the water jet, the rotary washing brush removes fine dust and traffic grime from all surfaces.

Agriculture: Powerful removal of heavy dirt



There is a wide range of uses for high-pressure cleaning on the farm. After all, it is mainly the cleaning power of water which is used for maintaining farm vehicles, machinery and stalls. In order to meet the highest standards of hygiene Kärcher® recommends its RM 732 disinfectant cleaner. Animals also enjoy being washed with the low-pressure jet.

- **High pressure beats any dirt**

Preserving value of machinery through regular cleaning with the high-pressure lance and fan jet. And your machines look like new.



- **Washing animals**

Even animals can be washed with the low-pressure fan jet (max. 30 bar).



- **Large area cleanliness**

High-pressure fan jet guarantees efficient cleaning of stall floors and outdoor areas around animal pens.



- **Cleaning inside and out**

The insides of transporters and the bodies of farm vehicles can be thoroughly cleaned with high pressure.



- **Big cleaning power**

Maximum cleaning power and area coverage – the Dirt Blaster is used for stubborn dirt and stains.

Municipal services: Cleanliness in the public's interest

Road clearing, refuse collection or the maintenance of public buildings and spaces are only some of the many services performed by a town's cleaning crews.

In order to remove the unwanted traces of the work done, there are a number of cleaning tasks that must be carried out back at the central depot. Refuse containers have to be flushed out, tools and vehicles have to be cleaned and the yards sprayed down. But high-pressure cleaning is also needed regularly in the canteen and washrooms, too.



- **Preserving values**

High-pressure washing is a must for vehicles used for spreading salt or grit and clearing snow in winter.



- **Removes dirt and odours**

Refuse disposal involves dirt and unpleasant smells. Vehicles are therefore sprayed with foam and washed at high pressure on a regular basis.



- **Economical interior cleaning**

The FR 30 and FR 50 hard surface cleaners excel on tiled floors, e.g. in the canteen or washrooms.



- **Full force maintenance**

The power of the high-pressure jet is first choice for cleaning bins and equipment.

Merchant ships and passenger liners: Cleanliness and preserving values on all decks



High-pressure cleaning makes an important contribution to preserving values and ensuring functionality on large cargo ships and cruise liners. It is necessary to comply with special requirements in the machine room and holds and also perform regular maintenance cleaning of the decks and superstructures. Equipped with an HD-C unit and kilometres of high-pressure pipework, the system is capable of performing a whole range of cleaning tasks efficiently, simultaneously and independently.

- **Real cleaning power**

High-pressure cleaning is the answer in all those areas where wind and weather leave their mark.



- **Great on hard surfaces**

A rotating nozzle beam with patented Kärcher® power nozzles increases area coverage by a factor of 10.



- **Instant availability**

A stationary unit guarantees maximum availability even for cleaning jobs below deck – in the machine room and holds.



- **Spotless finish**

The rotary washing brush cleans surfaces thoroughly but gently.



HD-ST: Cold water units for single lance operation

HD-ST

- Smallest stationary unit for **cold water** high-pressure cleaning
- Maximum water inlet temperature **70°C**
- Cleans with cold or hot water (from existing water heater)
- Single lance operation
- Ready to use, suitable for direct connection at washing site
- Maximum of 6 take-off points
- All-stainless-steel unit
- Compact, space-saving construction



- **Servopress facility** for infinitely variable adjustment of pressure and water flow rate.

- **Switch box with adjustable timer module (2 – 8 min.)** to disconnect unit from power supply when it is not in use. Connection for remote control/reset.

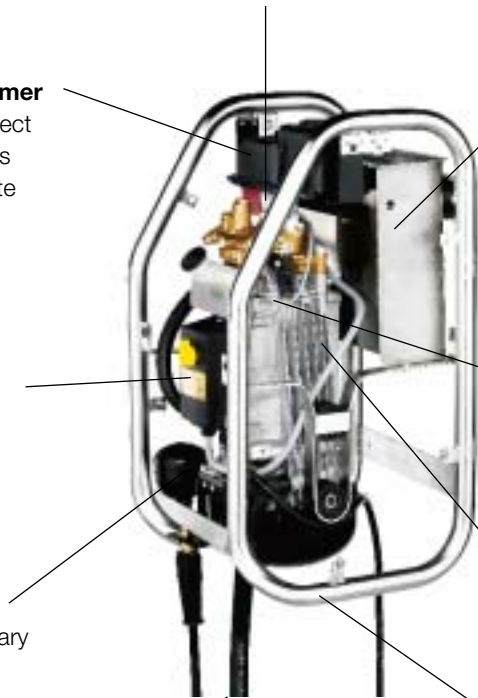
- **Stainless-steel float tank** for constant water feed, reliably prevents back flow.

- **Service-friendly access** to all components.

- **Detergent intake** in low-pressure mode with infinitely variable detergent valve.

- **Pulsation damper** avoids surges in pressure in the stationary pipework system.

- **Water and air-cooled motor housing.**



- Central access to all **service connections** (water inlet, HP outlet, power).

- **Tubular stainless-steel frame** with integral wall mounting bracket.

230/400 V/1-Ph/3-Ph/50 Hz	Water throughput (l/h)	Pressure (bar)
HD 6/15-4 ST	300 – 560	30 – 150
HD 6/16-4 ST	380 – 650	30 – 160
HD 9/16-4 ST	550 – 900	30 – 160
HD 13/12-4 ST	600 – 1300	30 – 120

HD-ST-H: Cold water units for single lance operation

HD-ST-H

- Stationary **cold water** high-pressure cleaner
- Maximum water inlet temperature **80°C**
- Cleans with cold or hot water (from existing water heater)
- Single lance operation
- Maximum of 6 take-off points



- **Electrical control** is prepared for operation with multi-function remote controls.



- Can be extended to two remote-controllable detergents with infinitely **variable metering**.

- **Built-in pressure pump** allows operation with hot water up to 80°C if on-site supply is available.

- **Air-cooled motor** drives pump equipped with **stainless-steel pistons** and **ceramic sleeves** which is rated for Servopress operation.

- **Stainless-steel float tank** for constant water feed.



- **Pulsation damper** avoids surges in pressure in the stationary pipework system.

HWE 860: Hot-water generator for small stationary HD-ST-H units



HWE 860

- Hot-water generator for use with small stationary HD-ST-H units
- Electrically heated
- About 3 min. pre-heating time
- Max. temperature for brief period: 80°C dependent on machine model

230/400 V/ 3-Ph /50 Hz	Water throughput (l/h)	Pressure (bar)
HD 6/16-4 ST-H	380 – 650	30 – 160
HD 9/16-4 ST-H	550 – 950	30 – 160
HD 13/12-4 ST-H	600 – 1350	30 – 120

Other voltages on request

HDS-ST: Hot water units for single lance operation

HDS-ST Oil/Gas

- **Hot water unit** – maximum water inlet temperature 35°C
- Cleans with cold water or hot water at 80°C or hot steam **up to 140°C**
- Built-in continuous flow heater (fuel oil, natural gas)
- Single lance operation
- Maximum of 6 take-off points



Gas-fired

- **GASTEC QA (quality tested)** is an independent quality mark for gas-fired products. With this quality mark the manufacturer guarantees that the product complies with the highest safety, quality and functional standards in Europe.



Oil-fired

Compact gas burner with fresh air feed



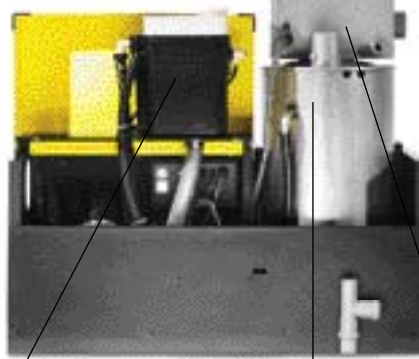
- Fresh air feed

- **Sophisticated flue gas ducting**
As the flue gas system of the HDS 9/16 ST Gas is closed and independent of ambient air, an installation in open rooms is possible, i.e. no separate equipment room is necessary.

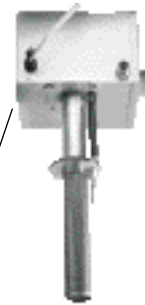
Enhanced safety

- Integrated system pressure relief
- Low-water cut-out in supply line
- Soft damping system
- Dry-run cutout

HDS-ST Gas



- Float tank
- Water-cooled stainless-steel boiler



- Stainless-steel **blower/burner** with
 - extremely high efficiency gas burner unit (97 %)
 - low CO/NO_x emissions < 40 p.p.m.

400 V/ 3-Ph /50 Hz	Water throughput (l/h)	Pressure (bar)
HDS 9/14-4 ST Eco	500 – 930	30 – 140
HDS 12/14-4 ST Eco	600 – 1200	30 – 140

400 V/ 3-Ph /50 Hz	Water throughput (l/h)	Pressure (bar)
HDS 9/16-4 ST Gas	500 – 960	30 – 160
HDS 9/16-4 ST Gas Lpg	500 – 960	30 – 160
HDS 12/14-4 ST Gas	600 – 1200	30 – 140
HDS 12/14-4 ST Gas Lpg	600 – 1200	30 – 140

HD-C: Cold water systems for multiple lance operation

HD-C

- **Cold water system**
- Water inlet temperature
Version C max. **60°C**
Version CH max. **80°C**
- Cleans with cold water or hot water (via in-house hot water supply or heat exchanger)
- Multiple lance operation
- Maximum of 30 take-off points
- Maximum machine safety as a result of separate monitoring of motor oil, water and electric motor temperatures
- Automatic shutdown protects against leaks and water damage in event of burst pipes
- Comprehensive range of accessories to equip take-off points for specific requirements

- Ready-to-use compact unit of modular construction with up to two **pump units**, a **stainless-steel float tank** and **switchgear cabinet** for central control installed in a **fully enclosed frame**.



- **Switchgear cabinet**
- **Pump units**



- Once it has been activated, the HD-C can be **started automatically**. The **electrical control system** provides a stand-by time of approximately 6 hours. The HD-C unit can thus be restarted from a distance by means of the **starter button** which is available as an optional extra.

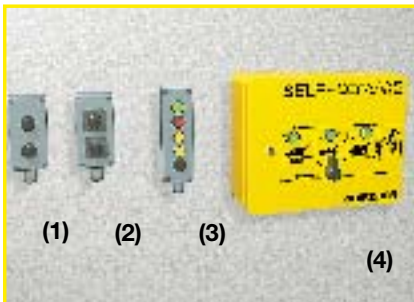
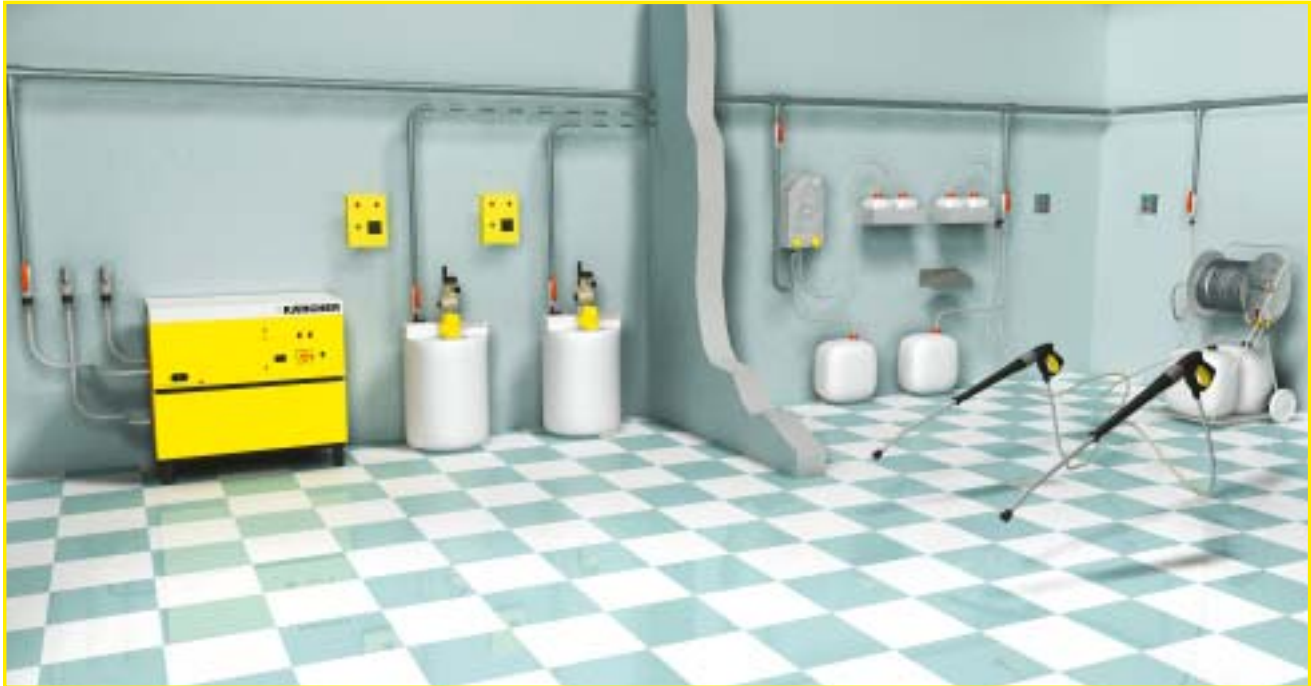
400 V/ 3-Ph /50 Hz	Water throughput (l/h)	Pressure (bar)
HD 2000 C(H)	700 – 1900	120
HD 3000 C(H)	700 – 2900	65
HD 4000 C(H)	700 – 3900	100
HD 4000 C(H)/2	700 – 3800	120
HD 6000 C(H)	700 – 5800	60
HD 6000 C(H)/2	700 – 5800	100
HD 8000 C(H)/2	700 – 7800	100

The right accessories and cleaning agents to suit every need

Application	Target group	Accessory	Cleaning agent
Foaming 	Food industry, abattoirs	<ul style="list-style-type: none"> Inno Foam Set, Order No. 2.640-151 	RM 732/RM 735 disinfectant cleaner/disinfectant Reaction time approx. 20 min. RM 734 disinfection cleaner, foam, alkaline
	Beverage industry/ wine-cellars	<ul style="list-style-type: none"> Easy Foam Set, Order No. 2.640-691 + Machine-specific nozzle kit Order No. 2.640-xxx 	RM 58 ASF (alkaline) foam cleaner RM 59 ASF (acid) foam cleaner RM 734 disinfection cleaner, foam, alkaline
	Municipalities		Outdoors: RM 57 foam cleaner, neutral Indoor: RM 732 disinfectant cleaner
	Agriculture		RM 732/RM 735 disinfectant cleaner/disinfectant Reaction time approx. 20 min.
High-pressure cleaning with Kärcher® power nozzle  <p>40% higher impact pressure</p>	Beverage industry/ wine-cellars		RM 55 universal cleaner RM 734 disinfection cleaner, foam, alkaline
	Municipalities Agriculture	<ul style="list-style-type: none"> Power nozzles with different spray angles 	RM 81 active wash, alkaline RM 31 active cleaner, alkaline RM 81 active wash, alkaline RM 81 active wash, alkaline
	Ship's equipment	<ul style="list-style-type: none"> 0° fan jet 15° fan jet 25° fan jet 40° fan jet Dirt Blaster 	
	Automotive workshop		RM 31 active cleaner, alkaline/ Automotive parts cleaning RM 81 active wash, alkaline Vehicle body, underbody
Floor cleaning  	Food industry, abattoirs	FR 30, Order No. 2.640-355 FR 50, Order No. 2.640.679 Stainless steel floor cleaning tool, including 4 nozzles Order No. 2.637-064	RM 750 intensive deep cleaner RM 69 floor deep cleaner
	Beverage industry/ wine-cellars, municipalities	FR 50, Order No. 2.640.679 Plastic floor cleaning tool without nozzles Order No. 4.763-154	RM 750 intensive deep cleaner RM 69 floor deep cleaner
	Automotive workshop	FR 30, Order No. 2.640-355 FR 50, Order No. 2.640.679	RM 750 intensive deep cleaner RM 69 floor deep cleaner
	Ship's equipment	FR 50, Order No. 2.640.679 Plastic floor cleaning tool without nozzles Order No. 4.763-154	RM 750 intensive deep cleaner RM 69 floor deep cleaner
Washing brush 	Municipalities	Push-on washing brush Order No. 4.762-016	Outdoor: RM 81 active wash, alkaline, RM 55 universal cleaner
	Automotive workshop	Rotary washing brush Order No. 4.762-xxx *	RM 81 active wash, alkaline, vehicle body
	Ship's equipment	Rotary washing brush Order No. 4.762-xxx *	RM 81 active wash, alkaline

* various versions available

Components for tailor-made systems



- **Remote control of plants:**
for HD-ST and HD-C:
simple remote control (1)
for HD-ST-H and HDS-ST:
multi-function remote control,
mechanical (2) and electric (3) as
well as coin-op remote control (4).



- **A hose track system** is available
for flexible and convenient vehicle
cleaning.



- **Complete take-off point:**
Stainless steel housing with hose
holder, injector, 3-way cock for
detergents, quick-action coupling
and remote control.



- **Metering cart** made of stainless
steel, with hose reel, two 20-litre
detergent tanks and detergent
injector.



- **Wall bracket for tanks**
Accommodates two 5-litre tanks
with three-way cock for selecting
detergent.



- **Detergent injector** with a metering
valve for infinitely variable addition of
detergent, and a bypass valve.

More detailed information is available from our system planners. We will be pleased to hear from you.

Everything at glance

Type		Water inlet temperature	Model	Order No.	Water throughput (l/h)	Operating pressure		Connected load (kW) 400 V 3-Ph /50 Hz	Consumption light fuel oil, nat.gas (full load)	Weight (kg)	Dimensions (length x width x height in mm)
						(bar)	(mPA)				
HD-ST	Single lance operation	70°C	cold water units	HD 6/15-4 ST	1.374-203	300-560	30-150	3-15	3.5	60	370 x 410 x 722
				HD 6/16-4 ST	1.374-201	380-650	30-160	3-16	3.5	60	370 x 410 x 722
				HD 9/16-4 ST	1.374-101	550-900	30-160	3-16	6.0	60	370 x 410 x 722
				HD 13/12-4 ST	1.374-301	600-1300	30-120	3-16	6.5	60	370 x 410 x 722
HD-ST-H		80°C	cold water units	HD 6/16-4 ST-H	1.211-205	380-650	30-160	3-16	3.6	80	700 x 600 x 470
				HD 9/16-4 ST-H	1.042-205	550-950	30-160	3-16	5.6	85	700 x 600 x 470
				HD 13/12-4 ST-H	1.212-205	600-1350	30-120	3-12	5.6	90	700 x 600 x 470
HDS-ST		hot water units	35°C	HDS 9/14-4 ST Eco	1.698-915	500-930	30-140	3-14	6.4	5.8 kg/h	140
	HDS 12/14-4 ST Eco			1.699-915	600-1200	30-140	3-14	7.5	7.1 kg/h	160	1110 x 565 x 690
	HDS 9/16-4 ST GAS			1.251-101	500-960	30-160	3-16	6.4	7.2 ms/h	160	1110 x 565 x 970
	HDS 9/16-4 ST GAS LPG			1.251-104	500-960	30-160	3-16	6.4	5.7 kg/h	160	1110 x 565 x 970
	HDS 12/14-4 ST GAS			1.251-105	600-1200	30-140	3-14	7.5	8.9 ms/h	170	1110 x 565 x 1080
	HDS 12/14-4 ST GAS LPG			1.251-106	600-1200	20-140	3-14	7.5	7.2 kg/h	170	1110 x 565 x 1080
HD-C	Multiple lance operation	60°C	cold water units	HD 2000 C -DA-	1.508-025	700-1960	120	12	10.5	190	1090 x 615 x 1070
				HD 2000 C -SDA-	1.508-035	700-1960	120	12	10.5	190	1090 x 615 x 1070
				HD 3000 C -SDA-	1.967-035	700-2900	65	6.5	10.5	190	1090 x 615 x 1070
				HD 4000 C -SDA-	1.509-035	700-3900	100	10	15.0	245	1090 x 615 x 1070
				HD 4000 C/2 -DA-	1.508-160	700-3860	120	12	21.0	300	1090 x 615 x 1550
				HD 4000 C/2 -SDA-	1.508-170	700-3860	120	12	21.0	300	1090 x 615 x 1550
				HD 6000 C -SDA-	1.967-045	700-5800	60	6	16.0	255	1090 x 615 x 1070
				HD 6000 C/2 -SDA-	1.509-150	700-5800	100	10	26.5	360	1090 x 615 x 1550
		80°C		HD 8000 C/2 -SDA-	1.509-170	700-7800	100	10	32.0	410	1090 x 615 x 1550
				HD 2000 CH -DA-	1.508-105	700-1960	120	12	10.5	210	1090 x 615 x 1070
				HD 2000 CH -SDA-	1.508-115	700-1960	120	12	10.5	210	1090 x 615 x 1070
				HD 4000 CH -SDA-	1.509-115	700-3900	100	10	16.0	265	1090 x 615 x 1070
				HD 4000 CH/2 -DA-	1.508-260	700-3800	120	12	21.0	305	1090 x 615 x 1550
				HD 4000 CH/2 -SDA-	1.508-270	700-3800	120	12	21.0	305	1090 x 615 x 1550
				HD 6000 CH/2 -SDA-	1.509-250	700-5800	100	10	26.5	375	1090 x 615 x 1550
				HD 8000 CH/2 -SDA-	1.509-270	700-7800	100	10	32.0	430	1090 x 615 x 1550

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