# Hot water middle class HDS 9/18-4 M

Our new medium and super class hot water high-pressure cleaners not only do a first-class job of cleaning, they are also extremely rugged and simple to operate. The new ECO mode, unique to Kärcher, makes them truly unbeatable. When the machine is set to this mode it operates automatically in the most economical temperature range. This not only saves running costs, it is also good for the environment.

- Trigger gun Easy Press
- Trigger gun with Softgrip insert
- High-pressure hose 10 m
  Longlife
- Spray lance 1050 mm
- Power nozzle
- Servo control
- Anti-twist system
- Tanks for detergent
- scale inhibitor and fuel can be filled from outside
- Control panel with indicator lamps
- Three piston axial pump with ceramic piston
- Pressure cut-off
- Pole reversing plug (3-phase)
- Electronic service control
- Electronic service control with LED display
- 2 cleaning agent tanks
- Dry running protection

## Order number: 1.077-801.0

Supply voltage Ph/V/Hz	3/400/50
Flow rate (l/h)	450-900
Pressure (bar/MPa)	30-180/3-18
Max. temperature (°C)	80-155
Power rating (kW)	6.4
Heating oil consumption, full load (kg/h)	5.8
Fuel tank (I)	25
Fuel tank	-
Weight (kg)	156
Measures (L x W x H) (mm)	1330x750x1060
Cleaning agent tank (I)	20





## Accumulator kit

## Add-on accumulator for HDS M/S

The accumulator can be mounted on the HDS machine in order to dampen pressure surges, which conserves the machine's line system.

## Order number 2.641-803.0

## Adapter

## Adapter M22 - Swivel

M22 x 1,5female and swivel connection. For extension of high-pressure hoses with AVS connection or for usage of the telescopic lance with a high-pressure hose with AVS connection.

## Order number 4.424-004.0

## Adapter for variable pressure spray lance

## Adapter for variable pressure lance

For items 4.760-230 and 4.760-362 for mounting accessories to lance, M 24/18 x 1.5  $\,$ 

Order number 4.762-075.0

## Angle vario nozzle 0°-90°

## Variable angle nozzle 0-90°

Variable angle nozzle for spray angle adjustment from 0° to 90°. For easy adjustment to all kinds of soiling and surfaces.

## Order number 4.763-039.0

## Angular spray lance

## WC and gutter lance

Stainless steel lance WC and gutter with nozzle insert. Specially shaped for effective and hygienic cleaning of gutters and toilets.

## Order number 4.760-073.0

## Automatic, self-winding hose reels

## Hose reel, automatic, 20 m, painted

Automatic hose reel of durable plastic. Painted steel bracket. Suitable for 20 m high-pressure hose.

## Order number 2.639-919.0

## Swivel holder

Swivel holder for automatic hose reel wall mounting. For maximum action radius and flexibility of high-pressure hose. Rotatable 120°. Galvanised steel.

## Order number 2.639-931.0

## Hose reel, automatic, 20 m, stainless steel

Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m highpressure hose.

Order number 6.391-421.0

















## Automatic, self-winding hose reels

## ABS hose reel stainless steel

High-grade, automatic steel hose reel. Especially suitable for use in the food industry. The material and finish provide for a corrossion-resistant, watertight capsuled sprong drive. Connection for HP hoses with nipple.

#### Order number 2.641-866.0

## ABS wall fastening stainless steel

Swivelling wall bracket made of high-grade steel (for 2.641-866). This makes maximum flexibility and convenience possible when working with the HP hose.

## Order number 2.641-867.0

Automatic hose reel as a complete attachment kit that's easy to mount. Suitable for HDS medium and super class. For maximum convenience when winding and unwinding the high-pressure hose.

## Order number 2.642-957.0

Automatic hose reel for 20 m high-pressure hose. The console consists of stainless steel, the drum is made from plastic.

Order number 6.392-965.0

Add-on kit hose reel

## Add-on kit hose reel plastics

Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.

Order number 6.392-975.0

## Barrel and tank cleaning

## **Barrel cleaner**

The BC 14/12 is an spray system for the efficient interior cleaning of containers and barrels##, specially oak barrels with a volume of between 225 and 600 litres. One cleaning cycle is completed within 36 seconds and every spot in the container is covered by a water jet. After cleaning is finished the BC 14/12 can easily and conveniently take up the dirty water. The transformer included with the BC 14/12 makes it possible to use it worldwide (110 - 240 V, 50 - 60 Hz). The nozzle kits included make possible use with high-pressure cleaners with a water volume of 600 to 1400 I / h. Electrical components are protected in accordance with IP 55.

Order number 2.641-740.0













## Boron carbide nozzle

#### Boron carbide nozzle, for machines as of 1000 l/h

In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.

Order number 6.415-084.0

**Coin-op remote control** 

**Coin-op remote control** 

Order number 2.642-158.0

## Connector

## Nozzle connector/screw connector

Nozzle connector/screw connector for connecting high-pressure nozzles and accessories to the high-pressure trigger gun (with nozzle connector). Connectors: 1x M 22 x 1.5 and 1x M 18 x 1.5.

Order number 4.402-022.0

## Coupling

#### Hose connector

Brass double connector for connecting and extending high-pressure hoses. With rubber protection. Connector: 2x M 22 x 1.5 m.

Order number 4.403-002.0

## Crane lifting kit

Crane loading kit for HDS middle and super class Effortless loading by crane.

Order number 2.642-424.0

## Cup foam lance

## Cup foam lance

Short, handy foam lance with adjustable spray angle with 1 litre detergent tank. Ideal for cleaning cars due to its compact design.

Order number 6.394-668.0

Tank 1L Order number 6.414-954.0











## Dirt blaster with changeover to fan jet

## Dirt blaster with changeover to fan jet

Dirt blaster with rotating pencil jet offers 10 times better cleaning performance. Changeover to high-pressure fan jet Further data: Max. 300 bar, 30 MPa, 85°C.

#### Order number 4.763-957.0

## Dirt blaster - with changeover to low pressure cleaning agent intake

## Dirt blaster - with changeover to low pressure cleaning agent intake

Dirt blaster with rotating pencil jet offers 10 times better cleaning performance. With changeover to detergent injection. Further data: Max. 300 bar, 30 MPa, 85°C.

## Order number 4.763-951.0

## Dirt blaster, large

## Dirt blaster - without changeover function

The dirt blaster with rotating pencil jet offers 10 times better cleaning performance. Ceramic nozzle and bearing ring for a long service life. Further data: Max. 300 bar, 30 MPa, 85°C.

Order number 4.763-253.0

## **Double lance**

## Double lance 960 mm

960 mm double lance for variable pressure adjustment on handle at full water flow rate. Suitable for agricultural use (e.g. stable cleaning).

Order number 6.394-665.0

## Easy Foam Set

## Easy foam set

HP foam system for use with. HD/HDS units for cleaning and disinfecting. Foam nozzle for connection to lance and HP chemical injector with precision 0-5% metering valve. The machine specific nozzle kit has to be ordered separately.

## Order number 2.640-693.0

## Easy Press high-pressure gun with holding power reduction (Kärcher patent)

## Easy press high-pressure trigger gun with softgrip

Easy press high-pressure trigger gun with softgrip. For high-pressure hoses DN 6 and DN 8 with 11 mm swivel diameter.

Order number 4.775-463.0

## Fine-mesh water filter

## Fine-mesh water filter with adapter

Fine-mesh water filter, 125  $\mu$ m, max. temperature 50°C. Protects the highpressure cleaner from dirt particles contained in the water. Water flow rate up to 1200 l/h. Connection 3/4", with adapter, 1".

## Order number 4.730-102.0













## Fine-mesh water filter

## Fine-mesh water filter, 100 µm, R 1"

Fine-mesh water filter, 100 µm, max. temperature 60°C. Connects to highpressure cleaner. Protects the high-pressure cleaner from dirt particles contained in the water. Water flow rate up to 1200 l/h. Connector 1".

## Order number 2.638-270.0

## Flame monitoring attachment kit

## ABS flame monitor for HDS M/S

More safety thanks to ABS HDS M/S flame monitoring system: A light sensor monitors the burner flame. The fuel supply cuts out automatically if the flame extinguishes.

Order number 2.641-796.0

## Flexible spray lance

## Flexible lance 1050 mm

1050 mm flexible lance with variable bend from 20° to 140°, ideal for cleaning difficult to reach areas, e.g. gutters.

Order number 6.394-654.0

## Flue pipe

## Flue gas adapter

Flue gas adapter with draught damper for flue pipe connection (adapter for HDS burners for connection to a stack system).

Order number 4.656-149.0

## Flue gas adapter

Flue gas adapter with draught damper for flue pipe connection (adapter for HDS burners for connection to a stack system).

Order number 4.656-080.0

## Foam nozzle mounting kit

## Foam nozzle kit

Foaming agent kit. The foam nozzle is ideal for use in sanitary areas and the food industry and wherever long application times are necessary.

Order number 2.637-926.0

## Food industry version

## High-pressure hose, 10 m, ID 8, AVS trigger gun connection, food industry, grey

Food industry version, AVS connection in the trigger gun. grey NW 8/155 °C/250 bar

Order number 6.390-704.0

















## Food industry version

## High-pressure hose, 20 m ID 8, AVS trigger gun connector, suitable for food industry, grey

20 m high-pressure hose (DN 8) with patented (rotating) AVS trigger gun connector. Non-discolouring outer layer for use in the food industry. NW 8/155°C/250 bar.

#### Order number 6.390-705.0

## Food industry version with unions on both sides

## High-pressure hose, 10 m ID 8, suitable for food industry, extension piece

10 m high-pressure hose (DN 8) with patented (rotating) AVS trigger gun connector. Non-discolouring outer layer for use in the food industry. M 22 x 1.5 with anti-kink sleeve.

#### Order number 6.389-479.0

## High-pressure hose, 20 m ID 8, suitable for food industry, extension piece

20 m high-pressure hose (DN 8) with swivel coupling. Non-discolouring outer layer for use in the food industry. Connectors at both ends, M 22 x 1.5, with kink protection. NW 8/155 $^{\circ}$ C/250 bar.

Order number 6.389-581.0

Geka coupling

With hose nozzle, R 3/4" with hose liner

Order number 6.388-455.0

With female thread, R 1" with female thread Order number 6.388-458.0

With hose nozzle, R 1" Order number 6.388-465.0

## **Gutter cleaner**

## **Gutter cleaning lance**

The lance is suited for cleaning of gutter systems. Because of the shape of the lance and the special nozzle the gutter can be cleaned without removing the cover plates.

Order number 2.642-305.0











## Hard surface cleaner FR 30 ME

#### FR 30 ME surface cleaner

Hot water resistant stainless steel surface cleaner with double ceramic bearings, non-marking swivel castors and suction hose connection. Ideal for indoor cleaning, e.g. food industry.

#### Order number 2.640-355.0

## Hard surface cleaner FR 50

#### FR 50 surface cleaner

Hot water resistant stainless steel surface cleaner with 500 mm working width. Ideal for large areas. With double ceramic bearings, push handle, non-marking swivel castors and detergent dosing system.

Order number 2.640-679.0

## Hard surface cleaner FRV 30

#### **FRV 30**

With the integrated, automatic suction of the waster water the FRV 30 allows more efficient surface cleaning for indoor and outdoor usage. The inconvenient flushing of the surface after cleaning is not necessary anymore because the waster water can be drained off well-directed through the included 5m suction hose. Non-marking wheels and ceramic bearings are further quality features. Machine specific nozzle kit has to be ordered separately. Max. 250 bar / 1000 l/h / 60°C.

Order number 2.642-169.0

## Nozzle kit 050 for FRV 30

Kärcher FRV 30 nozzle kit includes power nozzles, unions and venturi nozzle for optimal cleaning performance. Special fitting tool included.

Order number 2.642-433.0

## Extension hose 5 m

5m extension hose for FRV 30. Connection sleeve included.

Order number 4.440-939.0

## Add-on kit rubber lip

For smooth floors indoors. The squeegee increases the suction performance of the FRV 30 and minimises the amount of water remaining. This means the floor is dry in just a few minutes.

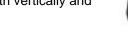
Order number 2.642-910.0

## HKF 50 spray head, brass

#### HKF 50 spray head, brass

Depth of immersion 850 mm. Interior cleaning head for barrels and containers with bungholes of 50 mm and more. Can be directly connected to the highpressure cleaner. Electric motor drive. Operation is possible both vertically and horizontally

## Order number 3.631-039.0

















## Order number 3.631-009.0 **HP** detergent injector Detergent injector for high pressure Cleaning agent dosage at high pressure 3 - 5 % Order number 3.637-170.0 Detergent injector for high and low pressure (without nozzles) Detergent injector for independent high and low pressure dosage. Maximum dosage about 15%. Order number 3.637-001.0 HP nozzle spray angle 0° High-pressure nozzle spray angle °0 High-pressure nozzle with powerful jet for extremely stubborn dirt. Order number 2.884-535.0 Inaktiv Spray lance, 2,050 mm, swivelling, ergonomical Spray lance, 2,050 mm, swivelling, ergonomical Order number 4.760-366.0 Inno Foam Set Inno foam kit High-pressure foam system with double lance (foam nozzle and high-pressure jet for rinsing). For use with mobile and stationary high-pressure and HDS pressure cleaners for cleaning or disinfection. Order number 2.640-692.0 Longlife 400 High-pressure hose packaged Order number 6.391-351.0

High-pressure hose Longlife 400, 10 m DN 8, AVS trigger gun connection with patented AVS connection in trigger gun (pivot-mounted)

Order number 6.389-856.0

## HKF 50 spray head, stainless steel

## Spray head HKF 50, stainless steel

Motor-driven interior cleaning head for the industrial container cleaning of small barrels (barrels of 200 - 500 l)



 $\square$ 

## Longlife 400

## High-pressure hose Longlife 400, 20 m DN 8, AVS trigger gun connector

20 m high-pressure hose Longlife 400 (DN 8) with patented (rotating) AVS trigger gun connector and manual coupling. Two layer high-strength steel wire reinforced.

#### Order number 6.390-208.0

## Longlife 400 with unions on both sides

## High-pressure hose 1.5 m, ID 8, including connectors

1.5 m high-pressure hose (DN 8, M 22 x 1.5) with kink protection and connectors at both ends. For connecting to hose reels with appropriate connector (M 22 x 1.5).

High-pressure hose Longlife 400, 10 m, ID 8, including rotary

#### Order number 6.390-178.0

coupling

10 m high-pressure hose Longlife 400 (DN 8) with rotary coupling, two layer high- strength steel wire reinforced. Connectors at both ends. M 22 x 1.5, with kink protection.	
Order number 6.388-083.0	
<b>High-pressure hose Longlife 400, 10 m, DN 8, extension</b> without rotary coupling, 2 x M 22 x 1.5	-0
Order number 6.390-026.0	
<b>High-pressure hose Longlife 400, 20 m, ID 8, extension</b> with rotary coupling, 2 x M 22 x 1.5	
Order number 6.390-027.0	
High-pressure hose packaged	
Order number 6.391-354.0	
High-pressure hose Longlife 400, 15 m, ID 8, including rotary coupling	
With rotary coupling, 2 x M 22 x 1.5	

Order number 6.389-709.0

## High-pressure hose Longlife 400, 30 m ID 8, including rotary coupling With rotary coupling, 2 x M 22 x 1.5

Order number 6.390-294.0

## Longlife food industry version

## High-pressure hose Longlife 400, 10 m, ID 8, AVS trigger gun connection

Longlife HP hose for use in the food industry. Außendecke## animal-greaseresistant, non-colour-bleeding material. With patented AVS connection in the pistol (pivot mounted)







## Longlife food industry version

## Order number 6.391-885.0

## High-pressure hose Longlife 400, 20 m, ID 8, AVS trigger gun connection

Longlife HP hose for use in the food industry. Außendecke## animal-greaseresistant, non-colour-bleeding material. With patented AVS connection in the pistol (pivot mounted)

## Order number 6.391-886.0

## Longlife food industry version with unions on both sides

## High pressure hose food ID 8 / 10 m

Longlife HP hose for use in the food industry. Außendecke## animal-greaseresistant, non-colour-bleeding material. With rotary coupling, 2 x M 22 x 1,5

## Order number 6.391-864.0

## High-pressure hose food industry 400 bar, 20 m, ID 8, including rotary coupling

Longlife HP hose for use in the food industry. Außendecke## animal-greaseresistant, non-colour-bleeding material. With rotary coupling, 2 x M 22 x 1,5

## Order number 6.391-887.0

## Machine-specific nozzle kit for FR

Nozzle kit for surface cleaners (type-specific) 650 - 850 l/h Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (650 to 850 l/h).

## Order number 2.639-187.0

## Machine-specific nozzle kit with order no. 3.637-170

Machine-specific nozzle kit with order no. 3.637-170.0 750-1000 l/h For HD/HDS 750 - 1000 l/h. Consists of nozzle insert + HP power nozzle + union

## Order number 4.769-047.0

## Nozzle insert with order no. 3.637-001

## Nozzle insert for Order No. 3.637-001, high-pressure for machines up to 1100 l/h.

Nozzle insert for detergent injector 3.637-001 for high-pressure detergent application. For high-pressure cleaners with a water flow rate up to 1100 l/h.

## Order number 4.769-003.0

Low pressure for units rated up to 1100 l/h For low pressure with machines up to 1.100 l/h

Order number 4.769-001.0

## Nozzle kit for HKF 50 spray head (3.631-009.0 / 3.631-039.0)

Nozzle 030 for dual nozzle operation HKF 50 Nozzle for dual-nozzle operation

## Order number 6.415-444.0

















## Nozzle kit for HKF 50 spray head (3.631-009.0 / 3.631-039.0)

Cone for plugging into bungholes Cone for plugging into bungholes

#### Order number 4.132-002.0

#### Double handle for exact control of the spray head Double handle. Precise control of the spray head

Order number 2.863-036.0

## Screw plug for using a spray head with one nozzle

Screw plug for using a spray head with one nozzle

## Order number 5.411-061.0

## Nozzle kits for Inno/Easy Foam Set

## Nozzle kit 090 Inno/Easy kit 700 - 1000 l/h

Nozzle kit contains Kärcher power nozzles and nozzle inserts. For Inno/Easy-Foam set 700-1000 l/h. For optimal foam system performance.

## Order number 2.640-688.0

Nozzle pack for wet blasting attachment

## Nozzle kit for wet blasting attachment 050

Nozzle kit with wet blasting nozzle and nozzle insert (type specific). For optimal Kärcher wet blasting attachment performance. Only in combination with wet blasting attachment 4.762-010/-022.

Order number 2.637-902.0

## Nozzle protector for steam nozzle

## Nozzle protector (rubber)

Nozzle protector for steam nozzles 4.766-023 and 4.766-024.

## Order number 5.394-059.0

## Nozzle union

## **Nozzle connector**

For protecting and connecting Kärcher power nozzles to spray lances (M 18 x 1.5 IG).

Order number 5.401-210.0

## Pipe cleaning hose, ID 6

Pipe cleaning hose

20 m flexible high-pressure hose (DN 6) for cleaning pipes (threaded connection for R 1/8 nozzle).

## Order number 6.390-028.0























## Pipe cleaning hose, ID 6

## Pipe cleaning hose, DN 6, 30 m

30 m flexible high-pressure hose (DN 6) for cleaning pipes (threaded connection for R 1/8 nozzle).



#### Order number 6.390-029.0

#### Pipe cleaning hose, DN 6, 20 m, 220 bar

20 m flexible high-pressure hose (DN 6) for cleaning pipes up to 220 bar (threaded connection for R 1/8 nozzle).

Order number 6.390-030.0



## Pipe cleaning nozzle

Pipe cleaning nozzle with 24 mm diameter. With 4 nozzles tilted back at a 30° angle.

Order number 5.763-087.0

The forward-tilted rotating pencil jet removes the most stubborn dirt. The three backwards-tilted jets ensure the necessary forward movement, as well as convenient handling.

#### Order number 6.415-945.0

The forward-tilted rotating pencil jet removes the most stubborn dirt. The three backwards-tilted jets ensure the necessary forward movement, as well as convenient handling.

#### Order number 6.415-947.0

The forward-tilted rotating pencil jet removes the most stubborn dirt. The three backwards-tilted jets ensure the necessary forward movement, as well as convenient handling.

## Order number 6.415-949.0

## Pipe cleaning nozzle

16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

Order number 5.763-015.0



## Pipe cleaning nozzle

## Pipe cleaning nozzle

16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

Order number 5.763-019.0

## Pipe cleaning nozzle

16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

## Order number 5.763-016.0

## Pipe cleaning nozzle

30 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

Order number 5.763-017.0

30 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

Order number 5.763-021.0

Pipe cleaning nozzle

## Power nozzle spray angle 15°

**Power nozzle spray angle 15°** Fan jet nozzle with 15° spray angle suitable for stubborn dirt.

Order number 2.883-390.0

## Power nozzle spray angle 25°

**Power nozzle spray angle 25°** Fan jet nozzle with 25° spray angle, suitable for large areas and removing stubborn dirt and stains.

Order number 2.883-399.0

PCH / Power Nozzle 25250 Order number 5.765-078.0











## Power nozzle spray angle 40°

#### Power nozzle spray angle 40°

Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.

Order number 2.884-524.0

## Push-on washing brush

## Push-on wash brush, M 18 x 1.5

Push-on wash brush for universal use. Simply push on to lance. Connector: M 18 x 1.6.

Order number 4.762-016.0

#### Quick connect

## Quick coupling

For quick change of different spray lances and accessories. Optimum adaption to Kärcher accessories, especially for connection between trigger gun and spray lance. With M22 x 1,5 female.

Order number 6.401-458.0

## Plug nipple

Hardened stainless steel nipple for quick coupling 6.401-458. With M22 x 1,5 male.

Order number 6.401-459.0

Remote control set

## **Remote control set**

Order number 2.642-157.0

## Rollover nozzle holder

#### **Rollover nozzle holder**

Rollover nozzle holder for contactless changeover from pencil jet to fan jet as well as low-pressure detergent injection via knurled nut. Without nozzle insert. (Additional type-specific power nozzle).

Order number 4.764-012.0

**Rotary coupling** 

## **Rotary coupling**

Reliably prevents high-pressure hose twisting. Connection M 22 x 1.5 m. protector

Order number 4.401-076.0

## Rotary coupling

Kärcher rotary coupling prevents twisting and kinking of high-pressure hoses for ease of use. Connector M 22 x 1.5 m. With grip protection.

## Order number 4.401-091.0





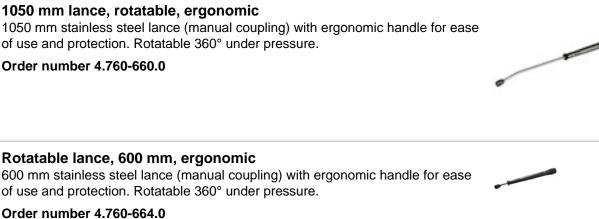












## Lance 850 mm, rotatable, ergonomic

850 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.

## Order number 4.760-663.0

**Rotating spray lances** 

## Lance 1550 mm, rotatable, ergonomic

1550 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.

Order number 4.760-661.0

## Lance 2050 mm, rotatable, ergonomic

2050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.

Order number 4.760-662.0

## Rotating washing brush

## Rotating washing brush for <#38;#60; 800 l/h high-pressure cleaners

The rotating wash brush driven by the water jet is suitable for > 800 l/h highpressure cleaners; gently and effectively removes fine dust and grime from all surfaces.

## Order number 4.762-284.0

## Rotating washing brush for <#38;#60; 800 l/h high-pressure cleaners

The rotating wash brush driven by the water jet is suitable for > 800 l/h highpressure cleaners; gently and effectively removes fine dust and grime from all surfaces.

## Order number 4.762-288.0









## Servo control Order number 4.775-470.0



Solarreinigung	
<b>Telescopic rod complete 14m</b> Full carbon telescopic rod for maximum rigidity with minimal weight. With 14 m max. reach and practical quick-release couplings for easy extension and retraction.	8
Order number 4.107-052.0	
<b>Telescopic rod complete 10m</b> Telescopic rod made from a carbon/fibreglass mixture for maximum rigidity with minimum weight. With 10 m max. reach and practical quick-release couplings for easy extension and retraction. <b>Order number 4.107-053.0</b>	5
<b>Telescopic rod complete 7,2m</b> Telescopic rod made from a carbon/fibreglass mixture for maximum rigidity with minimum weight. With 7.2 m max. reach and practical quick-release couplings for easy extension and retraction.	5
Order number 4.107-054.0	
Brush iSolar 800 Water-powered brush head (800 mm) with two contra-rotating disc brushes for cleaning photovoltaic systems. With flexible angle joint for uniform cleaning.	
Order number 6.368-454.0	
<b>Brush iSolar 400</b> Water-driven disc brushes with a working width of 400 mm for cleaning smaller and medium-sized photovoltaic systems. Also perfect for use on elevated systems.	۲
Order number 6.368-456.0	
<b>Hose solar</b> High-quality, flexible HP hose (with rubber covering) for the iSolar TL 14. The outer layer has especially good sliding properties when extending and retracting the telescopic rod.	
Order number 6.392-976.0	
	×
<b>Hose solar</b> High-quality, flexible HP hose (with rubber covering) for the iSolar TL 10. The outer layer has especially good sliding properties when extending and retracting the telescopic rod.	
Order number 6.392-977.0	
	×
Hose solar High-quality, flexible HP hose (with rubber covering) for the iSolar TL 7. The outer layer has especially good sliding properties when extending and retracting the telescopic rod. Order number 6.392-978.0	

## Solarreinigung

#### Safety barrier

Certified personal security system for rooftop work. Contents: Travelling fall arrestor with shock absorber and 15 m kernmantle rope, harness, anchoring sling and sheet steel case.

#### Order number 6.683-213.0

## Spacer (including nozzle union)

## Spacer (incl.nozzle union)

Guarantees constant safety clearance, e.g. for tyres and bodywork. Helps prevent damage to sensitive surfaces. Mounts directly to lance.

Order number 5.394-294.0

Special hoses

## High-pressure hose 1.5 m, ID 8, including connectors, outlet bend

## Order number 6.388-886.0

## Spray lance

## Lance 250 mm, non-rotatable

250 mm stainless steel lance. With manual coupling. Non-rotatable.

Order number 4.760-667.0

## Spray lances

## Anti-vibration lance

The spring-loaded 360° loop handle significantly reduces the vibrations on the spray lance, reducing the physical burden on the user, e.g. when working with the dirt blaster.

## Order number 6.415-951.0

## Standard with unions on both sides

## High-pressure hose, 10 m DN 8, 315 bar, extension

with union on both sides, M 22 x 1,5 with anti-kink protection. NW 8/155°C/315 bar

Order number 6.389-891.0

High-pressure hose, 15 m DN 8, 315 bar, including rotary coupling With rotary coupling, 2 x M 22 x 1.5

## Order number 6.390-010.0

High-pressure hose, 20 m DN 8, 315 bar, extension With M 22x1.5 union at both ends and anti-kink protection ID 8/155°C/315 bar

Order number 6.390-031.0















## Standard with unions on both sides

High-pressure hose, 15 m DN 10, 220 bar, extension 15 m high-pressure hose M 22 x 1.5) with kink protection and threaded couplings at both ends. Further data: DN 10/155°C/220 bar.

Order number 6.390-023.0

High-pressure hose packaged Order number 6.391-342.0

High-pressure hose, 30 m DN 8, including rotary coupling With rotary coupling, 2 x M 22 x 1.5 Order number 6.390-293.0

## Steam nozzle

Steam nozzle 40070

Order number 2.885-041.0

## Steam jet nozzle

Steam jet nozzle with 50° fan jet. For cleaning and thawing in steam stage. For thawing sand and gravel, de-icing formwork material or de-waxing vehicles.

Order number 4.766-023.0

Suction filter

Suction filter with check valve Brass suction filter suitable for ponds, storage tanks, etc. With check valve.

Order number 4.730-012.0

#### Suction filter without non-return valve Without non-return valve, brass

Order number 4.730-019.0

Water filter Order number 6.414-956.0

## **Telescopic spray lance**

**Telescopic jet pipe** Order number 6.394-690.0























## **Telescopic spray lance**

Convenient strap for relief when working with the telescopic spray lance (6.394-690). The burden is optimally distributed on the body and longer periods of use are possible.

#### Order number 6.373-987.0



## Trigger guns

## High end high-pressure trigger gun Order number 4.775-823.0

## Undercarriage spray lance

#### Underbody lance

Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.

#### Order number 4.760-245.0

## Variable pressure spray lance

#### Variable pressure spray lance

670 mm variable pressure lance with integrated pressure gauge. Variable pressure adjustment on the handle. Nozzle connector: M 24 x 1.5. Low pressure detergent application.

#### Order number 4.760-362.0

## Variable pressure lance

1040 mm pressure adjustable lance with integrated pressure gauge. Variable pressure adjustment on the handle. Nozzle connector: M 24 x 1.5. Low pressure detergent application.

#### Order number 4.760-230.0

## Water supply hose

Water supply hose NW 13 R1" / R 3/4", up to 30 °C

Order number 4.440-038.0

Water supply hose NW 19 R1" / R 3/4", up to 85 °C, for pick-up

Order number 4.440-207.0



Water supply hose NW 19 R1" / R1", up to 85 °C

Order number 4.440-270.0

# 9









