

## HDS 13/20-4 S \*EU

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.

### Standard accessories:

- Trigger gun : Easy Press
- Trigger gun with soft grip
- High-pressure hose 10 m Longlife
- Spray lance 1050 mm
- Power nozzle
- Servo Control
- Anti-twist system (AVS)
- Three piston axial pump with ceramic piston
- Pressure switch control
- Pole reversing plug (three-phase)
- SDS system
- Electronic service control
- Electronic service control with LED display
- 2 detergent tanks
- Dry run cut-out



**Order no.: 1.071-801.0**

### Technical data

Power supply Ph/V/Hz	3/400/50
Water flow rate (l/h)	650-1300
Pressure (bar/MPa)	30-200/3-20
Max. temperature (°C)	155-80
Connected load	9.3
Consumption fuel oil (kg/h)	6.2
Fuel tank (l)	25
Weight (kg)	186
Dimensions (L x W x H) (mm)	1330x750x1060
Detergent tank (l)	20
Detergent tank (l)	20-10

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## Details

### Description

The hot water high-pressure cleaners of the new middle- and super-class convince with their 6 main features. 1. Environmental protection Greater efficiency with the new ECO mode, service switch for controlling water hardness, turbo fan, precision detergent metering, optimized burner technology and a high-efficiency pump. 2. User friendliness This is ensured by a central, clearly arranged control panel designed for intuitive operation, a spray lance holder, LED display, an integral, low-friction hose reel for 20 metres hose that swivels through 180°, and much more. 3. Cleaning performance Highly efficient cleaning is guaranteed by patented nozzle technology, ceramic pistons, turbo fan as well as increased pump efficiency. Accessories are optimized for specific applications and designed to exactly suit customer requirements. 4. Mobility The mobility concept features two casters, large rubber-tyred wheels, ergonomic handles, lifting points for handling with a forklift, lashing rings and a recessed tread for tilting the machine to guarantee maximum manoeuvrability. 5. Reliability Guaranteed by flue gas monitoring, a corrosion-proof, flexurally stiff, robust chassis, machine protector system, three-piston axial pump with ceramic pistons, heat resistant flue outlet, and much more. 6. Service friendliness Easy access to all components that require servicing and a service switch to call up operating data at any time for troubleshooting.

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### Application

For medium-sized shops and automobile business For car washes For chassis washing For engine washing For the pre-wash in car washes General cleaning tasks in the industry, municipalities and agriculture

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### Features & Benefits

The new ECO mode In the ECO mode the machine operates in the most economical temperature range (60°C) and at the maximum water flow rate. Compared to full-load operation at 80°C, fuel consumption is reduced by up to 20% by optimizing burner operating cycles. Service switch The service switch offers a choice of five settings to suit local water hardness. This allows optimum metered quantities of descaler and corrosion inhibitor to be added. And it prevents the build-up of limescale on the heater coil. Furthermore, operating data (machine service) can be called up at any time. Easy Press and Servo Control The Easy Press trigger gun significantly reduces holding and operating effort. The precise Servo controller allows the user to adjust the water flow rate and operating pressure directly on the trigger gun. Three-piston axial pump The new, optimized pump is characterized by particularly high efficiency and a long service life. Ceramic pistons The three pistons of the axial pump are made of hard, wear-resistant ceramics. This guarantees an exceptionally long wear life. Detergent switch The detergent switch is used to select the exactly metered quantities required from the detergent tanks. In the 'O' position (feed off), the system is rinsed clear with fresh water. 4-pole motor The main features of the 4-pole low-speed motor are its longevity and low noise level. Control panel The controls and LED indicators on the new Kärcher medium and super class hot water high-pressure cleaners are clearly laid out and designed for intuitive operation. Defined lifting points for forklift The new generation of high-pressure cleaners has defined lifting points for handling with a forklift truck – ideal for loading and unloading Lashing rings Defined rope attachment points for safe transportation in a service vehicle. Manoeuvrability Sturdy large diameter wheels with rubber tyres and casters guarantee trouble-free manoeuvrability. This is enhanced by the ergonomic handles, which are suitable for pushing or pulling the machine. Tilting aid The tilting aid enables the machine to be raised at the front to overcome obstacles such as steps, for example. Flue gas temperature sensor The flue gas temperature sensor inside the flue shuts off the machine when the flue gas temperature exceeds 300°C. This ensures greater safety for both the machine and the operator. Chassis The chassis is made of corrosion-free plastic. It has an all-round bump guard and built-in fuel and detergent tanks. Fine mesh water filter The fine mesh water filter upstream

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of the float tank traps suspended matter and protects the high-pressure pump from impurities. SDS Soft damping system The SDS soft damping system compensates for pressure surges in the high-pressure system and prolongs the life of all high pressure components (e.g. heater coil). Low fuel cut-out The unit shuts down automatically when the tank is empty. Machine Protector Adaptation The new machine protector system protects heater coils against the build-up of limescale. The cleaning agents in the machine protector Advance series are formulated to protect and maintain the whole machine. The practical 1-litre bottles are inserted in their integral holders and the high-pressure cleaner immediately identifies the care product being used. New to the range is a care additive for the high-pressure pump which also protects it against black water contamination (rust in heater coil due to very soft water).

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## Accessories

### Adapter for variable pressure spray lance

#### Adapter for variable pressure spray lance

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

Order no. 4.762-075.0



### Add-on kit for two-lance operation

#### ABS secondary jet pipe operation HDS 12/

For users who want to use two spray systems with one machine. The kit contains a Y distributor, a spray system consisting of a HP hose, spray lance, and trigger gun as well as two aligned power nozzles.

Order no. 2.641-805.0



### Anbausatz Fernbedienung

#### ABS Fernbedienung HDS M-Klasse

Order no. 2.642-157.0



### Anbausatz Münzfernbedienung

#### ABS Münzfernbedienung HDS M-Klasse

Order no. 2.642-158.0



## Anbausätze

### ABS 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 no. 2.641-803.0



## Angle vario nozzle 0°-90°

### Angle vario nozzle 0-90°

Makes it possible to change the high-pressure jet spray angle from 0°-90° (infinitely variable). This makes it easy to adapt it to all types of dirt and surfaces.

Order no. 4.763-036.0



## Angular spray lance

### Bathroom and eaves gitter spray lance

With nozzle. Specially shaped for cleaning of eaves gutters and for hygienically cleaning WCs. Stainless steel.

Order no. 4.760-073.0



## Automatic, self-winding hose reels

### Hose drum, automatic, 20 m, coated

Hose reel, automatic, 20 m, coated

Order no. 2.639-919.0



### Swivel holder

ABS swivel holder for 2.639-919.0

Order no. 2.639-931.0



## 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 corrosion-resistant, watertight capsuled sprung drive. Connection for HP hoses with nipple.

Order no. 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 no. 2.641-867.0



### Self-winding hose reel with swivel holder, stainless steel, 20 m

Automatic hose reel with swivel holder (high-grade steel)

Order no. 6.391-421.0



## Becher-Schaumlanze

### Foam lance

Short and handy foam lance with a 1-litre detergent tank directly at the lance. Due to its compact construction it is perfectly suited for foam cleaning of vehicles. Infinitely detergent dosage, swivel connection M22x1,5, adjustable jet angle.

Order no. 6.394-668.0



### Tank 1L

Order no. 6.414-954.0



## 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 no. 6.415-083.0**



## Connector

### Nozzle union / Screw union

For connecting HP nozzle and accessories directly to trigger gun ( with nozzle union) – 1 x M 22 x 1.5 / 1 x M 18 x 1.5

**Order no. 4.402-022.0**



## Coupling

### Double pipe union

For connecting and extending HP hoses. 2 x M 22 x 1,5 connections, brass with rubber protector

**Order no. 4.403-002.0**



## Dirt blaster – changeover to low pressure cleaning agent intake

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

Dirt blaster – rotating pencil jet – 10x cleaning power. Ceramic nozzle and bearing ring for long service life. Changeover to detergent intake (low pressure) max. 300 bar/30 MPa, 85 °C

**Order no. 4.763-952.0**



## Dirt blaster – non-changeover

### Dirt blaster - non-changeover

max. 300 bar/30 MPa, 85°C

Order no. 4.763-254.0



## Doppelstrahlrohr

### Double spray lance 960 mm

Infinitely adjustable control of the working pressure directly on the handle with full water quantity. Suitable above all for agriculture (e.g. cleaning stalls).

Order no. 6.394-665.0



## Dreckfräser - umschaltbar auf Flachstrahl

### Dirt blaster - changeover to fan jet

Dirt blaster – rotating pencil jet – 10x cleaning power. Ceramic nozzle and bearing ring for long service life. Changeover to high-pressure fan jet max. 300 bar/30 MPa, 85 °C

Order no. 4.763-958.0



## Drum and tank cleaning

### ABS barrel cleaner

The BC 14/12 is a 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 l / h. Electrical components are protected in accordance with IP 55.

Order no. 2.641-740.0



## 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 no. 2.640-693.0**



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

### Easy Press high-pressure gun with soft grip insert

Easy Press HP trigger guns, for HP hoses NW 6 / NW 8 with swivel diameter 11 mm

**Order no. 4.775-463.0**



## Fine-mesh water filter

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

Mounts to machine inlet, 100 µm

**Order no. 2.638-270.0**



### Fine mesh water filter, 80 µm, R 3/4" + 1", with adapter

Mounted to machine inlet, 80 µm, with adapter R 3/4" / 1"

**Order no. 4.730-102.0**



## Flexible spray lance

### Jet pipe flexible

Infinitely variable adjustment of the angle of the spray lance from 20° - 140°. Especially suitable for cleaning difficult-to-reach areas such as roof gutters, car roofs, undercarriages or wheel cases.

**Order no. 6.394-654.0**



## Flue pipe

Connection piece, oval - round, HDS 1291 ST

Order no. 4.656-079.0



## Foam nozzle mounting kit

**Anbausatz Schaumdüse**

For applying foam detergent in metered quantities in sanitary and food areas, or where long reaction time is necessary, mounts to spray lance in place of HP nozzle

Order no. 2.637-926.0



## Food industry version

**High-pressure hose, 10 m, DN 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 no. 6.390-704.0



**High-pressure hose, 20 m, DN 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 no. 6.390-705.0



## Geka coupling

**Geka coupling with hose liner, R 3/4"**  
with hose liner

Order no. 6.388-455.0



## Geka coupling

### Geka coupling with female thread, R 1"

with female thread

Order no. 6.388-458.0



### Geka-Kupplung mit Schlauchdüse 1"

Order no. 6.388-465.0



## Hard surface cleaner FR 30 ME

### FR 30 ME hard surface cleaner

A rotating nozzle beam with Kärcher Power nozzles has an area coverage up to 10 times larger than conventional methods. Stainless steel version. Ceramic bearings. Integral vacuum connection. Machine specific nozzle kit has to be ordered separately. Max. 250 bar / 1100 l/h / 80 °C

Order no. 2.640-355.0



## Hard surface cleaner FR 50

### FR 50 hard surface cleaner

A rotating nozzle beam with Kärcher Power nozzles has an area coverage up to 10 times larger than conventional methods. Stainless steel version. Ceramic bearings. Integral detergent valve. Machine specific nozzle kit has to be ordered separately. Max. 250 bar / 1800 l/h / 80 °C

Order no. 2.640-679.0



## HP detergent injector

### Detergent injector for high and low pressure (without nozzle)

Metering of cleaning agents. Separate from the machine (high pressure and low pressure). Dosage of up to 15%

Order no. 3.637-001.0



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### HP detergent injector

#### Detergent injector for high pressure

Cleaning agent dosage at high pressure 3 - 5 %

Order no. 3.637-170.0



### HP nozzle spray angle 0°

#### HP nozzle spray angle 0°

Solid jet for very stubborn dirt and stains.

Order no. 2.884-540.0



### Inno Foam Set

#### Inno foam set

HP foam system for use with mobile and stationary HD/HDS units for cleaning and disinfection. Twin spray lance with foam nozzle and changeover to HP jet for clear rinsing etc., HP chemical injector with precision 0-5% metering valve. The machine specific nozzle kit has to be ordered separately.

Order no. 2.640-692.0



### Longlife 400

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

with patented AVS connection in trigger gun (pivot-mounted)

Order no. 6.389-856.0



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

with patented AVS connection in trigger gun (pivot-mounted)

Order no. 6.390-208.0



## Longlife 400 with unions on both sides

### High-pressure hose 1.5 m, DN 8, including connecting parts

with union on both sides, M22 x 1.5 with anti-kink protection. For connecting hose reels with M22 x 1.5 union.

Order no. 6.390-178.0



## Longlife food industry version

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

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

Order no. 6.391-885.0



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

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

Order no. 6.391-886.0



## Machine-specific nozzle kit for HSC##

### Nozzle pack for hard surface cleaners (machine-specific) 1100 - 1,300 l/h

Machine-specific nozzle kit Kärcher power nozzle for hard surface cleaners

Order no. 2.639-188.0



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

### Machine-specific nozzle kit for order no. 3.637-170 1000-1200 l/h

For HD/HDS 1000 - 1200 l/h. Consists of nozzle insert + HP power nozzle + union

Order no. 4.769-048.0



## Nozzle insert with order no. 3.637-001

**Nozzle insert to order no. 3.637-001, High pressure for machines as of 1100 l/h**

For high pressure with machines above 1.100 l/h

**Order no. 4.769-002.0**



**Nozzle insert to order no. 3.637-001, Low pressure for machines as of 1100 l/h**

For low pressure with machines above 1.100 l/h

**Order no. 4.769-006.0**



## Nozzle kits for Inno/Easy Foam Set

**Nozzle kit 110 for Inno/Easy Set 1000 - 1,300 l/h**

Optimal adaptation to different machine outputs for economic use.

**Order no. 2.640-689.0**



## Nozzle pack for wet blasting attachment

**Nozzle pack for wet blasting attachment 075**

Nozzle pack for wet-blasting nozzle for items 28 / 29 Consisting of wet-blasting nozzle and nozzle insert – only in conjunction with wet-blasting attachment 4.762-010/ -022

**Order no. 2.637-907.0**



## Nozzle protector for steam nozzle

**Nozzle protector (rubber)**

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

**Order no. 5.394-059.0**



**Nozzle union**

**Nozzle union**

With protector for high-pressure and Power nozzles M 18 x 1.5

**Order no. 5.401-210.0**



**Nozzle union food industry**

Made of special brass alloy for use in the food industry.

**Order no. 5.401-318.0**



**Pipe cleaning nozzle**

**Pipe cleaning nozzle**

For the clean, environmentally-friendly cleaning of blocked drains and pipes.

Nozzle orifices are positioned so that the nozzle pulls itself and the hose into the pipe. Brass nozzle with connection M 22 x 1.5 outer thread - for mounting directly on the HP hose. 4 x 45° toward the rear, Ø 24 mm

**Order no. 5.763-012.0**



**Pipe cleaning nozzle**

For the clean, environmentally-friendly cleaning of blocked drains and pipes.

Nozzle orifices are positioned so that the nozzle pulls itself and the hose into the pipe. Brass nozzle with connection M 22 x 1.5 outer thread - for mounting directly on the HP hose. 8 x 45° toward the rear, Ø 24 mm

**Order no. 5.763-013.0**



**Power nozzle spray angle 15°**

**Power nozzle spray angle 15°**

Fan jet nozzle for stubborn dirt and stains.

**Order no. 2.883-392.0**



## Power nozzle spray angle 25°

### Power nozzle spray angle 25°

Fan jet nozzle for large-area coverage and stubborn dirt and stains

Order no. 2.883-404.0



## Power nozzle spray angle 40°

### Power nozzle spray angle 40°

Fan jet nozzle for large-area coverage – suitable for sensitive surfaces

Order no. 2.884-526.0



## Rollover nozzle holder

### Rollover nozzle holder

Changes from solid to fan jet with flick of the wrist. Knurled nut for changeover to low pressure detergent intake, without nozzles (order machine-specific Kärcher Power nozzle separately)

Order no. 4.764-012.0



## Rotary coupling

### Rotary coupling

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

Order no. 4.401-076.0



## Rotating coupler

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

Order no. 4.401-091.0



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### Rotating spray lances

Jet pipe packaged only for replacement

Order no. 4.760-660.0



Jet pipe packaged only for replacement

Order no. 4.760-664.0



Jet pipe packaged only for replacement

Order no. 4.760-663.0



Jet pipe packaged only for replacement

Order no. 4.760-661.0



Jet pipe packaged only for replacement

Order no. 4.760-662.0



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**Rotating washing brush**

**Rotating washing brush for machines > 800 l/h**

Driven by water jet. Gently removes fine dust and traffic film from all surfaces. Temperature resistant up to 80 °C, M 18 x 1.5 (replaceable brush element).

**Order no. 4.762-283.0**



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**Rotating washing brush for machines > 800 l/h**

Driven by water jet. Gently removes fine dust and traffic film from all surfaces. Temperature resistant up to 80 °C. M 18 x 1.5. (replaceable brush element)

**Order no. 4.762-287.0**



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**Servo Control**

**Servo control**

Water quantity and pressure control directly on the trigger gun

**Order no. 4.775-471.0**



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**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 no. 5.394-294.0**



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**Special hoses**

**High-pressure hose, 1.5 m DN 8, connection to hose reel**

**Order no. 6.388-886.0**



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**Spray lance**

Jet pipe packaged only for replacement

Order no. 4.760-667.0



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**Steam nozzle**

Steam nozzle 40110

Order no. 2.885-044.0



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**Steam nozzle .**

50° flat jet for cleaning and thawing operations in steam mode, e.g. thawing sand and gravel, de-icing formwork, dewaxing vehicles.

Order no. 4.766-024.0



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**Suction filter**

**Suction filters with non-return valve**

With non-return valve, brass

Order no. 4.730-012.0



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**Suction filter without non-return valve**

Without non-return valve, brass

Order no. 4.730-019.0



**Suction filter**

**Water filter**

Order no. 6.414-956.0



**Teleskopstrahlrohr**

**Telescopic jet pipe**

Order no. 6.394-690.0



**Undercarriage spray lance**

**Underbody lance**

Mobile. For effective and convenient cleaning of underbodies, chassis and wheel arches. Stainless steel. Without HP nozzle.

Order no. 4.760-245.0



**Variable pressure spray lance**

**Variable pressure spray lance, 1,040 mm**

With integrated pressure gauge for infinitely variable pressure control directly on the spray lance. Nozzle union M 24 x 1.5. Addition of cleaning agent at low pressures.

Order no. 4.760-230.0



**Variable pressure spray lance, 670 mm**

With integrated pressure gauge for infinitely variable pressure control directly on the spray lance. Nozzle union M 24 x 1.5. Addition of cleaning agent at low pressures.

Order no. 4.760-362.0



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### Wet blasting attachment (without nozzle)

#### Wet blasting attachment with flow control (without nozzle)

Adds abrasive to high-pressure jet. For removing paint, rust, scaling. Mounts to spray lance instead of the of high-pressure nozzle. With flow control.

Order no. 4.762-010.0



#### Wet blasting attachment without flow control (without nozzle)

Adds abrasive to high-pressure jet. For removing paint, rust, scaling. Mounts to spray lance instead of the of high-pressure nozzle. Without flow control.

Order no. 4.762-022.0



### Y-Verteiler

#### Y-Verteiler

Order no. 4.405-048.0

