

with combustion engine

## HDS 13/24 PE Cage



Petrol-fuelled hot-water high-pressure cleaner with float tank, anti-scale protection, fuel shortage safeguard, steam level. Detergent mixture at high pressure. Electric and manual start.

### Standard accessories:

- Trigger gun Easy Press
- Trigger gun with soft grip
- High-pressure hose 15 m
- Spray lance 1050 mm
- Triple nozzle (0°/25°/40°) Power nozzle
- Cage frame
- Anti-twist system (AVS)
- Electric starter
- Power nozzle
- Sturdy tubular steel frame for handling with crane



Order no.: 1.811-201.0

### Technical data

Pressure (bar/MPa)	30-240/3-24
Water flow rate (l/min)	680-1250
Max. temperature (°C)	max. 140-max. 80
Consumption fuel oil (kg/h)	8.6
Engine type	GX 620
Engine manufacturer	Honda
Engine performance, net. (kW)	13.5
Engine performance, gross (kW/hp)	14.9/20
Weight (kg)	295
Dimensions (L x W x H) (mm)	1300x810x1100

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## Details

### Description

Powerful, hot water high-pressure cleaner with robust four-stroke petrol engine and electric starter for operation independent of an electricity supply. All components are accommodated in a sturdy tubular steel frame which provides all-round protection during heavy-duty applications.

The frame is specially designed for mechanical handling with a crane or fork-lift truck. The engine is equipped with an automatic speed reducing facility which lowers the noise level during work breaks and greatly extends the service life of the high-pressure cleaner. The standard electric starter enhances starting comfort. High-grade materials in the high-pressure pump, i.e. brass cylinder head, stainless steel valves, plated stainless-steel pistons, help guarantee a long service life and superior running characteristics.

A pressure relief valve, integral pressure and water flow controls as well as the steam mode ensure that performance can be ideally matched to different cleaning tasks. The high-performance burner, with upright heater coil and non-detonating continuous ignition, has an infinitely variable setting between 30°C and 150°C.

Safety features, such as the low oil cut-out, safety valves, low water cut-out and low heating oil cut-out help protect the machine in tough day-to-day operating conditions. The float tank with its integrated drip-feed scale inhibitor (DGT) reliably isolates the unit from the drinking water main and protects all components that come into contact with water from scale and other deposits.

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### Application

For mobile applications

Designed for professionals

Optimum cleaning power

For everywhere where there is no convenient electricity supply

For rental businesses, construction companies, farms and forestry services as well as local governments

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### Features & Benefits

Drive:

Air-cooled 20 HP four-stroke petrol engine (HONDA) with electric starter

Easy to start, robust, high-performance, self-sufficient mobility

High-pressure pump:

Brass cylinder head with suction and pressure valves from high-grade steel

Long service life, allows use of a wide range of detergents,

Boiler and burner system:

High performance burner with permanent ignition, vertical heating coil, heating performance 100kW

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Even heat distribution, no corrosion due to condensation, emission values are lower than the standards

Safety and control equipment:

Fuel control light and deficiency protection

Automatic burner cut-out, fuel pump does not run dry

Water deficiency cut-out

Burner is automatically switched off when water supply is low, protection against overheating

Miscellaneous:

Sturdy tube frame chassis, powder coated.

Overall protection to avoid damage, easy to load with a crane or forklift, corrosion resistant

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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



### 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 no. 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 no. 2.639-931.0



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

Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.

Order no. 6.391-421.0



### 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



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### Coupling

#### Double connector

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

Order no. 4.403-002.0



### Cup foam lance

#### Tank 1L

Order no. 6.414-954.0



### Dirt blaster - changeover to fan jet

#### 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



### 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



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### Dirt blaster – non-changeover

#### 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 no. 4.763-254.0



### Doppelstrahlrohr

#### 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 no. 6.394-665.0



### 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 no. 4.775-463.0



### Fine-mesh water filter

#### Fine-mesh water filter with adapter

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

Order no. 4.730-102.0



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

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

Order no. 2.638-270.0



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

Order no. 6.388-458.0



#### Geka coupling with hose liner, 1"

Order no. 6.388-465.0



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### 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 no. 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 no. 2.640-679.0



### 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 high-pressure cleaner. Electric motor drive. Operation is possible both vertically and horizontally

Order no. 3.631-039.0



### HP nozzle spray angle 0°

#### High-pressure nozzle with 0° spray angle

High-pressure nozzle with powerful jet for extremely stubborn dirt.

Order no. 2.884-540.0



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### 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 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 no. 6.390-208.0



### Longlife 400 with unions on both sides

#### High-pressure hose 1.5 m, DN 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).

Order no. 6.390-178.0



### Machine-specific nozzle kit for HSC##

#### Nozzle kit for surface cleaners (type-specific) 1100 - 1300 l/h

Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (1100 to 1300 l/h).

Order no. 2.639-188.0



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

#### Nozzle 045 for dual nozzle operation HKF 50

Nozzle for dual-nozzle operation

Order no. 6.415-446.0



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

#### Nozzle 090 for single nozzle operation HKF 50

Nozzle for single-nozzle operation

Order no. 6.415-447.0



#### Cone for plugging into bungholes

Cone for plugging into bungholes

Order no. 4.132-002.0



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

Double handle. Precise control of the spray head

Order no. 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 no. 5.411-061.0



### Nozzle pack for wet blasting attachment

#### Nozzle pack for wet blasting attachment

Consisting of wet-blasting nozzle and nozzle insert, only for use with wet-blasting attachment 4762-010/-022

Order no. 2.637-904.0



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### 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 connector

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

Order no. 5.401-210.0



### Pipe cleaning nozzle

#### Pipe cleaning nozzle

24 mm brass pipe cleaning nozzle with external thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

Order no. 5.763-012.0



#### Pipe cleaning nozzle

24 mm brass pipe cleaning nozzle with external thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.

Order no. 5.763-013.0



### Power nozzle spray angle 15°

#### Power nozzle 15° spray angle

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

Order no. 2.883-392.0



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### Power nozzle spray angle 25°

#### Power nozzle 25° spray angle

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

Order no. 2.883-404.0



### Power nozzle spray angle 40°

#### Power nozzle 40° spray angle

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

Order no. 2.884-526.0



### 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 no. 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 no. 6.401-458.0



#### Plug nipple

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

Order no. 6.401-459.0



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### 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 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



#### 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 no. 4.401-091.0



### Rotating spray lances

#### 1050 mm lance, rotatable, ergonomic

1050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.

Order no. 4.760-660.0



#### Rotatable lance, 600 mm, ergonomic

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

Order no. 4.760-664.0



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### Rotating spray lances

#### 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 no. 4.760-663.0



#### 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 no. 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 no. 4.760-662.0



### Rotating washing brush

#### Rotating washing brush for <math>800\text{ l/h}</math> high-pressure cleaners

The rotating wash brush driven by the water jet is suitable for  $> 800\text{ l/h}$  high-pressure cleaners; gently and effectively removes fine dust and grime from all surfaces.

Order no. 4.762-284.0



#### Rotating washing brush for <math>800\text{ l/h}</math> high-pressure cleaners

The rotating wash brush driven by the water jet is suitable for  $> 800\text{ l/h}$  high-pressure cleaners; gently and effectively removes fine dust and grime from all surfaces.

Order no. 4.762-288.0



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### Shut-off cock

#### Shut-off valve

Shut-off valve for ease of use and convenient control of the pipe cleaning hose via convenient on/off function. Connects to the high-pressure cleaner (M 22 x 1.6).

Order no. 4.580-160.0



### Special hoses

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

Order no. 6.388-886.0



### Spray lance

#### Lance 250 mm, non-rotatable

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

Order no. 4.760-667.0



### standard

#### High-pressure hose, 15 m DN 8, AVS trigger gun connector

15 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.

Order no. 6.390-185.0



#### High-pressure hose, 10 m DN 8, AVS trigger gun connector

10 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.

Order no. 6.390-025.0



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## HDS 13/24 PE Cage



### standard

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

20 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.

Order no. 6.390-171.0



### Steam nozzle

#### Steam nozzle 40100

Order no. 2.885-043.0



#### 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



### Suction filter

#### Suction filter with check valve

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

Order no. 4.730-012.0



#### Suction filter without non-return valve

Without non-return valve, brass

Order no. 4.730-019.0



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### Suction filter

#### Water filter

Order no. 6.414-956.0



### Telescopic spray lance

#### Telescopic jet pipe

Order no. 6.394-690.0



### Trigger guns

#### High end high-pressure trigger gun

Robust, professional trigger gun made of food-grade and seawater resistant materials. With optimised flow for low pressure loss at water flow rates of up to 2500 l/h.

Order no. 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 no. 4.760-245.0



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### 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 no. 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 no. 4.760-230.0



### Water supply hose

#### Water supply hose

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

Order no. 4.440-207.0



#### Water supply hose

NW 19 R1" / R1", up to 85 °C

Order no. 4.440-270.0



### Wet blasting attachment (without nozzle)

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

Paint, rust and scale removal made easy: Kärcher wet blasting attachment with flow control for adding blasting abrasive to the high-pressure jet.

Order no. 4.762-010.0



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### Wet blasting attachment (without nozzle)

#### Wet blasting attachment without flow control (nozzles not included)

Paint, rust and scale removal made easy: Kärcher wet blasting attachment with flow control for adding blasting abrasive to the high-pressure jet. Without flow control.

Order no. 4.762-022.0



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### Y distributor

#### Y distributor

Order no. 4.405-048.0

