

with combustion engine

HDS 1000 BE

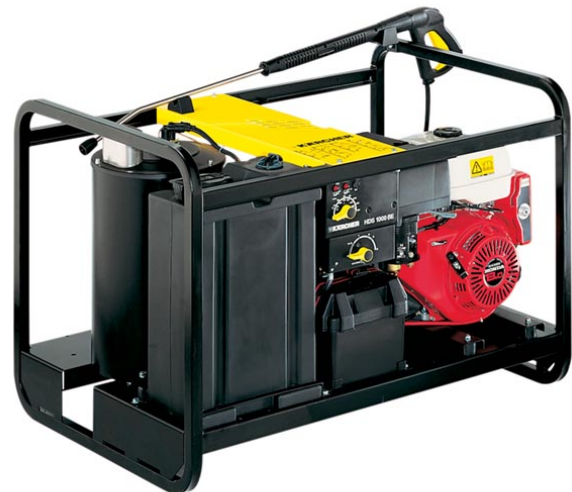


makes a difference

Petrol-fuelled hot-water high-pressure cleaner with float tank, anti-scale protection, fuel shortage safeguard, steam level and infinitely variable pressure and water flow rate. 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
- Servo-Control
- Sturdy tubular steel frame for handling with crane



Order no.: 1.811-935.0

Technical data

Pressure (bar/MPa)	40-210/4-21
Flow rate (l/h)	450-900
Max. temperature (°C)	max. 98-max. 80
Consumption fuel oil (kg/h)	5.6
Engine type	GX 390/petrol
Engine manufacturer	Honda
Engine performance, net. (kW)	8.2
Engine performance, gross (kW/hp)	9.75/13
Weight (kg)	165
Dimensions (L x W x H) (mm)	1130x750x855

with combustion engine

HDS 1000 BE



makes a difference

Accessories

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 no. 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 no. 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 no. 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 no. 4.760-073.0



with combustion engine

HDS 1000 BE



makes a difference

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



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 spring 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



with combustion engine

HDS 1000 BE



makes a difference

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. 6.415-084.0



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 no. 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 no. 4.403-002.0



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 no. 6.394-668.0



Tank 1L

Order no. 6.414-954.0



with combustion engine

HDS 1000 BE



makes a difference

Dirt blaster - 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 no. 4.763-957.0



Dirt blaster – changeover to low pressure cleaning agent intake

Dirt blaster with changeover to detergent injection

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 no. 4.763-951.0



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. 4.763-253.0



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 no. 6.394-665.0



with combustion engine

HDS 1000 BE



makes a difference

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 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, 90-120 µm, R 1", suitable for pressure and suction

Mounts to machine, suitable for pressure and suction mode, 90-120 µm

Order no. 2.638-255.0



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



with combustion engine

HDS 1000 BE



makes a difference

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 no. 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 no. 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 no. 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 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



with combustion engine

HDS 1000 BE



makes a difference

Food industry version

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 nozzle, R 3/4" with hose liner

Order no. 6.388-455.0



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

Order no. 6.388-458.0



Geka coupling with hose liner, 1"

Order no. 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 no. 2.642-305.0



with combustion engine

HDS 1000 BE



makes a difference

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



Hard surface cleaner FRV 30

FR Venturion

With the integrated, automatic suction of the waste 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 waste 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 no. 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 no. 2.642-433.0



Extension hose 5 m

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

Order no. 4.440-939.0



with combustion engine

HDS 1000 BE



makes a difference

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



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)

Order no. 3.631-009.0



Hose reel add-on kit

Hose reel kit for HDS 801/1050 B/D

ABS hose reel for mounting on the machine. For safe and tidy stowage of high-pressure hoses (with connecting hose to machine's HP outlet). Can be rotated under pressure, with M 22 x 1.5 connection.

Order no. 2.637-733.0



HP detergent injector

Detergent injector for high pressure

Cleaning agent dosage at high pressure 3 - 5 %

Order no. 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 no. 3.637-001.0



with combustion engine

HDS 1000 BE



makes a difference

HP nozzle spray angle 0°

High-pressure nozzle with 0° spray angle

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

Order no. 2.884-536.0



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 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 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



High-pressure hose packaged

Order no. 6.391-351.0



with combustion engine

HDS 1000 BE



makes a difference

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



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 kit for surface cleaners (type-specific) 850 - 1100 l/h

Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (850 to 1100 l/h).

Order no. 2.640-442.0



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

Unit-specific nozzle kit for order number 3.637-170 750-1000 l/h

For HD/HDS 750 - 1000 l/h. Consists of nozzle insert + HP power nozzle + union

Order no. 4.769-047.0



with combustion engine

HDS 1000 BE



makes a difference

Nozzle insert with order no. 3.637-001

Nozzle kit for order number 3.637-001, high-pressure for units from 1,100 l/h

For high pressure with machines above 1.100 l/h

Order no. 4.769-002.0



Nozzle insert for order number 3.637-001, low pressure for units from 1,100 l/h

For low pressure with machines above 1.100 l/h

Order no. 4.769-006.0



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 no. 6.415-444.0



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



with combustion engine

HDS 1000 BE



makes a difference

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

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 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 no. 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 no. 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 no. 5.394-059.0



with combustion engine

HDS 1000 BE



makes a difference

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 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 no. 6.390-028.0



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 no. 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 no. 6.390-030.0



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 no. 5.763-015.0



with combustion engine

HDS 1000 BE



makes a difference

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 no. 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 no. 5.763-016.0



Pipe cleaning nozzle

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

Order no. 5.763-020.0



Pipe cleaning nozzle

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

Order no. 5.763-017.0



Pipe cleaning nozzle

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

Order no. 5.763-021.0



with combustion engine

HDS 1000 BE



makes a difference

Power nozzle spray angle 15°

Power nozzle 15° spray angle

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

Order no. 2.883-390.0



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. 2.883-894.0



PCH / Power Nozzle 25250

Order no. 5.765-078.0



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. 2.884-524.0



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 no. 4.762-016.0



with combustion engine

HDS 1000 BE



makes a difference

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



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



with combustion engine

HDS 1000 BE



makes a difference

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



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



with combustion engine

HDS 1000 BE



makes a difference

Rotating washing brush

Rotating washing brush for ≥ 800 l/h high-pressure cleaners

The rotating wash brush driven by the water jet is suitable for > 800 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 ≥ 800 l/h high-pressure cleaners

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

Order no. 4.762-288.0



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 no. 5.394-294.0



Special hoses

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

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



with combustion engine

HDS 1000 BE



makes a difference

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



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

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



with combustion engine

HDS 1000 BE



makes a difference

Suction filter

Suction filter without non-return valve

Without non-return valve, brass

Order no. 4.730-019.0



Water filter

Order no. 6.414-956.0



Take-off point equipment

Servo control

Order no. 4.775-470.0



Telescopic spray lance

Telescopic jet pipe

Order no. 6.394-690.0



Trigger guns

High end high-pressure trigger gun

Order no. 4.775-823.0



with combustion engine

HDS 1000 BE



makes a difference

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



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



with combustion engine

HDS 1000 BE



makes a difference

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



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



Wheel mounting kit

Practical kit with pneumatic tyres

Practical kit with pneumatic tyres for HDS 1000 BE and HDS 1000 DE high-pressure cleaners. For improved manoeuvrability.

Order no. 2.637-820.0



Y distributor

Y distributor

Order no. 4.405-048.0

