

## HDS 13/20-4 S

For maximum performance in the harshest conditions: the super class hot water high-pressure cleaner with 4-pole, water-cooled electric motor and robust 3-piston axial pump.



Made in Germany



Order no.

1.071-937.0

- Robust 3-piston axial pump
- Save time and energy: EASY!Force high-pressure gun and EASY!Lock quick-release fasteners
- 2 cleaning agent tanks with rinse function

### Technical data

EAN code		4054278955841
Current type	Ph / V / Hz	3 / 400 / 50
Flow Rate	l/h	600 - 1300
Operating pressure	bar / MPa	30 - 200 / 3 - 20
Temperature (supply 12°C)	°C	min. 80 - max. 155
Consumption fuel oil	kg/h	9.5
Heating oil consumption, eco!efficiency	kg/h	7.6
Power rating	kW	9.5
Power cable	m	5
Fuel tank	l	25
Weight (with accessories)	kg	206
Weight incl. packaging	kg	215.9
Dimensions (L × W × H)	mm	1330 × 750 × 1060

### Equipment

Trigger gun		EASY!Force Advanced
High-pressure hose length	m	10
High-pressure hose type		Longlife
High-pressure hose specification		DN 8,400 bar
Spray lance	mm	1050
Power nozzle		■
Pressure switch control		■
Optional two-lance operation		■
Pole reversing plug (three-phase)		■
SDS system		■
Servo Control		■
Two detergent tanks		■
Dry running protection		■

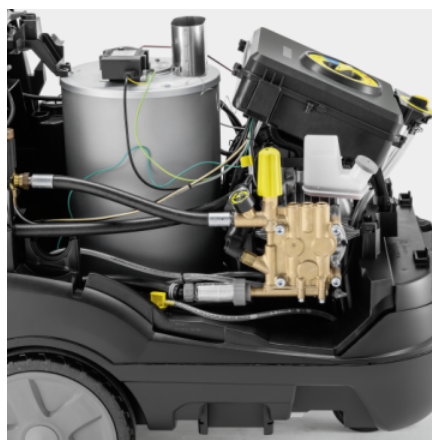
■ included in delivery.

Users must receive training on this device.



## High efficiency

- In ecoefficiency mode, the machine operates in the most economical temperature range (60 °C) – with full water flow.
- The burner cycles are optimised to reduce fuel consumption by 20% compared to full load operation.



## Maximum efficiency

- Highly efficient, tried-and-tested "Made in Germany" burner technology.
- 4-pole electric motor with 3-piston axial pump.
- Water-cooled motor for a high performance and long service life.



## Multiple storage spaces for accessories integrated into the machine

- On-board storage for full range of accessories. Includes 2 hooks for suction hose and power cord.
- Spacious storage compartment, e.g. for detergents, gloves or tools.

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		Order no.	Description	
<b>TRIGGER GUNS</b>				
<b>Trigger guns</b>				
EASY!Force Advanced	1	4.118-005.0	Effortless, not energy-sapping: the EASY!Force high-pressure gun uses the recoil force of the high-pressure jet to reduce the holding force for the operator to zero.	■
EASY!Force conversion kit 1 - from high-pressure hose	2	4.111-050.0	For retrofitting Kärcher high-pressure cleaners with existing high-pressure hose: EASY!Force conversion kit 1 with EASY!Force high-pressure gun, spray lance and all adapters through to the nozzle.	□
EASY!Force conversion kit 2 - from machine	3	4.111-051.0	Developed for retrofitting existing high-pressure cleaners from Kärcher: EASY!Force conversion kit 2 with EASY!Force high-pressure gun, spray lance, high-pressure hose and necessary adapters.	□
EASY!Force conversion kit 3 - high-pressure gun	4	4.111-052.0	Compatible with existing high-pressure hose and spray lance: EASY!Force conversion kit 3, incl. EASY!Force trigger gun and all necessary adapters for upgrading your high-pressure cleaner.	□
<b>Servo Control</b>				
Servo Control, 1100 l/h -	5	4.118-009.0	Servo control for water flow and pressure control (> 1100 l/h) on the trigger gun.	■
<b>SPRAY LANCES</b>				
<b>Rotating spray lances</b>				
Spray lance, 1050 mm, rotatable	6	4.112-000.0	1050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	■
LED nozzle light	7	2.680-002.0	Bright, lightweight LED work light for direct mounting on spray lance of EASY!Force high-pressure gun. Better view in unfavourable lighting conditions for up to 5 working hours.	□
Spray lance, 250 mm, rotatable	8	4.112-027.0	Spray lance, 250 mm, rotatable, ergonomic	□
Spray lance, 400 mm, rotatable	9	4.112-024.0	Spray lance, 400 mm, rotatable, ergonomic	□
Spray lance, 600 mm, rotatable	10	4.112-007.0	600 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Spray lance, 840 mm, rotatable	11	4.112-006.0	850 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Spray lance, 1550 mm, rotatable	12	4.112-018.0	1550 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Spray lance, 2050 mm, rotatable	13	4.112-021.0	2050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Spray lance extender, 1000 mm	14	4.112-048.0	Spray lance extension with EASY!Lock connection. Length 1000 mm.	□

■ Included in delivery. □ Available accessories.

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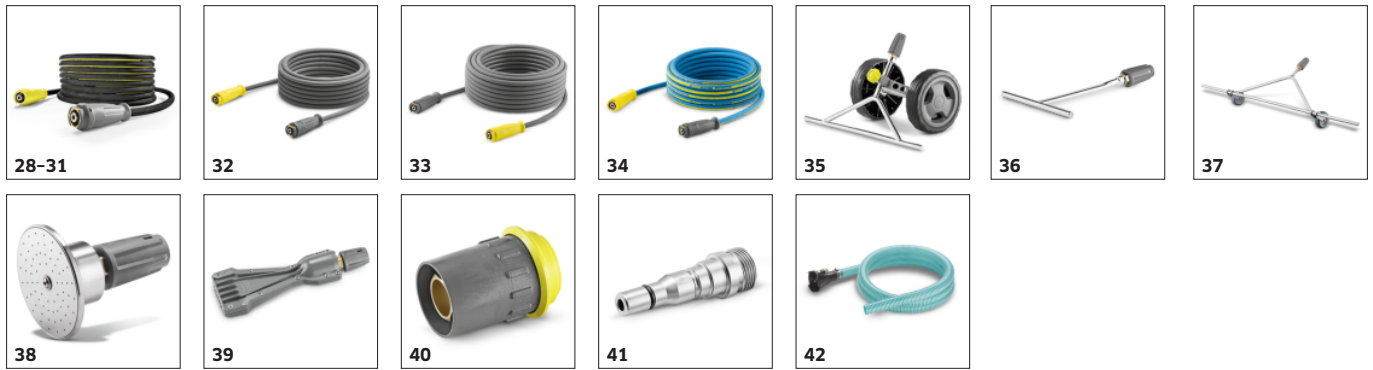
		Order no.	Description	
<b>SPRAY LANCES</b>				
<b>Double lance</b>				
Double lance, 960 mm	15	2.112-016.0	960 mm double lance for variable pressure adjustment on handle at full water flow rate. Suitable for agricultural use ( e.g. stable cleaning).	<input type="checkbox"/>
<b>Angular spray lance</b>				
WC and gutter lance	16	4.112-029.0	Stainless steel lance WC and gutter with nozzle insert. Specially shaped for effective and hygienic cleaning of gutters and toilets.	<input type="checkbox"/>
<b>Flexible spray lance</b>				
Flexible lance, 1050 mm	17	4.112-035.0	1050 mm flexible lance with variable bend from 20° to 140°, ideal for cleaning difficult to reach areas, e.g. gutters.	<input type="checkbox"/>
High pressure articulated joint	18	4.112-057.0	For hard-to-reach areas: High-pressure articulated joint with infinite angle adjustment up to 120°. Simply attach directly to the spray lance of the pressure washer.	<input type="checkbox"/>
<b>Gutter cleaner</b>				
Gutter cleaning lance	19	2.112-015.0	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.	<input type="checkbox"/>
<b>Undercarriage spray lance</b>				
Underbody lance	20	4.112-032.0	Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.	<input type="checkbox"/>
<b>Additional handle</b>				
Additional handle for EASY!Lock spray lances	21	4.321-380.0	Comfortable in every situation - the additional handle is easy to attach to the spray lance of our new EASY!Lock generation and makes work easier by allowing you to adjust your posture to suit the particular task.	<input type="checkbox"/>
<b>KÄRCHER POWER NOZZLE</b>				
<b>Power nozzle spray angle 25°</b>				
Power Nozzle , 070	22	2.113-028.0	Fan jet nozzle for large-area coverage and stubborn dirt and stains.	<input checked="" type="checkbox"/>
<b>HP nozzle spray angle 0°</b>				
Power nozzle 0°, 075	23	2.113-037.0	High-pressure nozzle with powerful jet for extremely stubborn dirt.	<input type="checkbox"/>
<b>Power nozzle spray angle 15°</b>				
Power nozzle 15°, 070	24	2.113-049.0	Fan jet nozzle with 15° spray angle suitable for stubborn dirt.	<input type="checkbox"/>
<b>Power nozzle spray angle 40°</b>				
Power Nozzle 40°, 075	25	2.113-056.0	Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.	<input type="checkbox"/>
<b>HIGH-PRESSURE HOSES</b>				
<b>Longlife 400 with unions on both sides</b>				
High-pressure hose Longlife, 10 m, ID 8, 400 bar, 2 × EASY!Lock	26	6.110-038.0	Durable, 10 m long high-pressure hose (ID 8) with double steel reinforcement and EASY!Lock hand screw connection at both ends and ANTI!Twist. Approved for 400 bar pressure.	<input checked="" type="checkbox"/>
High-pressure hose Longlife, 1,5 m, ID 8, 400 bar, 2 × EASY!Lock	27	6.110-024.0	1.5 m high-pressure hose (DN 8, M 22 × 1.5) with kink protection and connectors at both ends. For connecting to hose reels with appropriate connector (M 22 × 1.5).	<input type="checkbox"/>
<b>Standard with unions on both sides</b>				
High-pressure hose, 10 m, ID 8, 315 bar, 2 × EASY!Lock	28	6.110-031.0	10 m high-pressure hose (M 22 × 1.5) with kink protection. With patented rotating TR22 trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.	<input type="checkbox"/>

■ Included in delivery. □ Available accessories.



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		Order no.	Description	
<b>HIGH-PRESSURE HOSES</b>				
<b>Standard with unions on both sides</b>				
High-pressure hose, 15 m, ID 8, 315 bar, 2 × EASY!Lock	29	6.110-030.0	15 m high-pressure hose (M 22 × 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.	<input type="checkbox"/>
High-pressure hose, 20 m, ID 8, 315 bar, 2 × EASY!Lock	30	6.110-032.0	20 m high-pressure hose (M 22 × 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.	<input type="checkbox"/>
High-pressure hose, 30 m, ID 8, 315 bar, 2 × EASY!Lock	31	6.110-014.0	With rotary coupling, 2 × M 22 × 1.5	<input type="checkbox"/>
<b>Food industry version with unions on both sides</b>				
High-pressure hose food grade, 10 m, ID 8, 250 bar, 2 × EASY!Lock	32	6.110-051.0	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 × 1.5 with anti-kink sleeve.	<input type="checkbox"/>
High-pressure hose food grade, 20 m, ID 8, 250 bar, 2 × EASY!Lock	33	6.110-052.0	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 × 1.5, with kink protection. NW 8/155°C/250 bar.	<input type="checkbox"/>
<b>Longlife food industry version with unions on both sides</b>				
High-pressure hose food grade Longlife, 10 m, ID 8, 400 bar, 2 × EASY!Lock	34	6.110-053.0	With blue, non-marking and animal fat resistant outer covering: durable high-pressure hose (ID 8), 10 m long, ANTI!Twist and EASY!Lock hand screw connection at both ends.	<input type="checkbox"/>
<b>WEED CONTROL</b>				
WR 50	35	2.114-013.0	In combination with a hot water high-pressure cleaner from Kärcher, the 50 cm wide weed remover WR 50 is ideal for removing weeds. It comes with an adaptive chassis and nozzle adapter.	<input type="checkbox"/>
WR 20	36	2.114-014.0	For thorough weed removal: The WR 20 weed remover for use with a hot water high-pressure cleaner from Kärcher. Equipped with a 20 cm wide nozzle bar and nozzle adapter.	<input type="checkbox"/>
WR 100	37	2.114-015.0	Comfortable and fast weed removal: WR 100 weed remover with chassis, 100 cm wide nozzle bar and integrated nozzle adapter for use with hot water high-pressure cleaners.	<input type="checkbox"/>
WR 10	38	2.114-016.0	In combination with hot water high-pressure cleaners our WR 10 weed remover enables fast and thorough weed removal. With 10 cm spray head and nozzle adapter.	<input type="checkbox"/>
<b>ECO!BOOSTER</b>				
eco!Booster TR 080	39	2.113-089.0	eco!Booster with 50% higher area performance than the Kärcher power nozzle; ideal for delicate surfaces. For cold and hot water high-pressure cleaners (nozzle size 080).	<input type="checkbox"/>
<b>QUICK CONNECT</b>				
Quick-fitting pipe union coupler trapezo	40	2.115-000.0	For fast changes between different spray lances/accessories. Perfect for Kärcher spray unit, suitable for trigger gun/spray lance interface. With M 22 × 1.5 internal thread.	<input type="checkbox"/>
Quick-fitting pipe union plug nipple tra	41	2.115-001.0	Hardened stainless steel male coupling for quick coupling 2.115-000. With M 22 × 1.5 external thread.	<input type="checkbox"/>
<b>DRUM AND TANK CLEANING</b>				
Add-on kit mud sucker	42	2.641-798.0		<input type="checkbox"/>

■ Included in delivery. □ Available accessories.

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	Order no.	Description	
<b>ADD-ON KITS</b>			
Add-on kit hour counter	43	2.853-192.0	<input type="checkbox"/>
<b>OTHER HP ACCESSORIES</b>			
Jet gun	44	2.869-067.0	Short set-up time, easy transport, instant switch off - the jet gun is the affordable cleaning method for all kinds of small to medium-sized areas. Adjustable pressure/water volume. <input type="checkbox"/>
<b>FLUE PIPE</b>			
Flue gas adapter	45	4.656-079.0	Flue gas adapter with draught damper for flue pipe connection (adapter for HDS burners for connection to a stack system). <input type="checkbox"/>
<b>DICHTUNGEN FÜR TR-GEWINDE</b>			
Spare part set seals TR	46	2.880-001.0	<input type="checkbox"/>
<b>ROTARY NOZZLES (DIRT BLASTERS)</b>			
<b>Dirt blaster, large</b>			
Dirt blaster, large, 070/080	47	4.114-030.0	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. <input type="checkbox"/>
<b>MULTIPLE-JET NOZZLES</b>			
<b>Angle vario nozzle 0°-90°</b>			
Angled Vario nozzle, 055	48	4.113-008.0	Variable angle nozzle for spray angle adjustment from 0° to 90°. For easy adjustment to all kinds of soiling and surfaces. <input type="checkbox"/>
<b>STEAM NOZZLE / NOZZLE PROTECTOR / ROLLOVER NOZZLE</b>			
<b>Steam nozzle</b>			
Steam jet nozzle 50°	49	4.116-001.0	50° flat jet for cleaning and thawing operations in steam mode, e.g. thawing sand and gravel, de-icing formwork, dewaxing vehicles. <input type="checkbox"/>
Steam jet nozzle 40°, 110	50	2.114-012.0	<input type="checkbox"/>
<b>Rollover nozzle holder</b>			
Ball Nozzle Holder	51	4.764-012.0	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). <input type="checkbox"/>
<b>NOZZLE UNION / SPACER</b>			
<b>Nozzle union</b>			
Nozzle screws	52	4.112-011.0	Nozzle screws with protectors for high-pressure and power nozzles <input type="checkbox"/>
<b>PIPE CLEANING</b>			
<b>Pipe cleaning hose, ID 6</b>			
Hose assembly TR pipe cleaning DN6 max.2	53	6.110-046.0	The 10 m pipe cleaning hose is a highly flexible high pressure hose for pipe interior cleaning (threaded connection for nozzle R 1/8). <input type="checkbox"/>
Pipe cleaning hose, DN 6, 20 m, 220 bar	54	6.110-008.0	20 m flexible high-pressure hose (DN 6) for cleaning pipes up to 220 bar (threaded connection for R 1/8 nozzle). <input type="checkbox"/>
Hose assembly TR pipe cleaning DN6 max.2	55	6.110-047.0	The 30 m pipe cleaning hose is a highly flexible high pressure hose for pipe interior cleaning (threaded connection for nozzle R 1/8). <input type="checkbox"/>
<b>Pipe cleaning nozzle</b>			
Dirt blaster pipe cleaning D21/090	56	4.765-003.0	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. <input type="checkbox"/>

Available accessories.

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		Order no.	Description	
<b>PIPE CLEANING</b>				
<b>Pipe cleaning nozzle</b>				
Dirt blaster pipe cleaning D30/090	57	4.765-010.0	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.	<input type="checkbox"/>
Nozzle pipe cleaning size 100	58	5.763-088.0	Pipe cleaning nozzle with 24 mm diameter. With 4 nozzles tilted back at a 30° angle.	<input type="checkbox"/>
Pipe cleaning nozzle	59	5.763-019.0	16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	60	5.763-020.0		<input type="checkbox"/>
	61	5.763-021.0	30 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
<b>FLOOR AND HARD SURFACE CLEANER</b>				
<b>Hard Surface Cleaner FRV 30</b>				
Add-on kit hose attachment	62	2.642-528.0	Suction cup for fixing the suction hose to smooth surfaces.	<input type="checkbox"/>
Add-on kit dirt trap	63	2.642-532.0	Galvanised steel bucket for collecting coarse dirt and for fixing the suction hose in outside areas.	<input type="checkbox"/>
<b>Hard surface cleaner FR 30 ME</b>				
FR 30 ME surface cleaner	64	2.111-013.0	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.	<input type="checkbox"/>
<b>Hard Surface Cleaner FR 50</b>				
FR 50 surface cleaner	65	2.111-023.0	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.	<input type="checkbox"/>
<b>Machine-specific nozzle kit for FR</b>				
Nozzle kit for FR, 1100 l/h - 1300 l/h	66	2.639-188.0	Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (1100 to 1300 l/h).	<input type="checkbox"/>
<b>Machine-specific nozzle kits for FRV</b>				
Nozzle kit for FRV, 080	67	2.642-982.0	Machine-specific nozzle kit with Kärcher power nozzles and jet nozzle for FRV 30.	<input type="checkbox"/>
<b>Hard surface cleaner FRV 30 Me</b>				
FRV 30 Me Surface Cleaner	68	2.111-012.0	Thanks to automatic suction of the dirty water, the stainless steel FRV 30 Me Surface Cleaner makes surface cleaning more efficient in both inside and outside areas. Hot water cleaning up to 85°C.	<input type="checkbox"/>
Extension hose FRV 30 Me and FRV 50 Me	69	4.441-040.0	5 m extension hose for FRV 30 Me. Includes connecting adapter.	<input type="checkbox"/>
<b>Surface Cleaner FR 50 Me</b>				
FRV 50 Me surface cleaner	70	2.111-024.0	Surface cleaning with automatic suction of the dirty water for very large surfaces. Hot water cleaning up to 85°C.	<input type="checkbox"/>

Available accessories.

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		Order no.	Description	
<b>FOAM SYSTEMS</b>				
<b>Cup foam lance</b>				
Cup foam lance Advanced 3, 900 l/h - 2500 l/h	71	4.112-065.0		<input type="checkbox"/>
Cup foam lance DUO Advanced 3, 900 l/h - 2500 l/h	72	4.112-069.0		<input type="checkbox"/>
Cup foam lance Basic 3, 900 l/h - 2500 l/h	73	4.112-055.0	For high-pressure cleaners with a flow rate of 900-2500 l/h: new, robust and very high-quality foam cup lance with outstanding foam quality while consuming half as much cleaning agent.	<input type="checkbox"/>
1-litre cleaning agent container for cup foam lance basic	74	5.071-414.0		<input type="checkbox"/>
1-litre cleaning agent container for cup foam lance advanced	75	6.414-050.0	Additional 1-litre cleaning agent container for quick replacement of the cleaning agent (for foam lance 2.112-017.0 and 2.112-018.0).	<input type="checkbox"/>
<b>Inno Foam Set</b>				
Inno foam kit with detergent injector	76	2.112-000.0	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.	<input type="checkbox"/>
Inno foam kit	77	2.112-008.0		<input type="checkbox"/>
<b>Easy Foam Set</b>				
Easy Foam Set with RM injector	78	2.112-010.0	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.	<input type="checkbox"/>
Easy foam set	79	2.112-011.0		<input type="checkbox"/>
<b>Nozzle kits for Inno/Easy Foam Set</b>				
Nozzle kit 110 Inno/Easy set 1000 - 1300 l/h	80	2.111-020.0	Nozzle kit 110 contains Kärcher power nozzles and nozzle inserts. For Inn/Easy-Foam set 1000-1300 l/h. For optimal foam system performance.	<input type="checkbox"/>
<b>Foam nozzle mounting kit</b>				
Foam nozzle kit	81	2.112-013.0	Foaming agent kit. The foam nozzle is ideal for use in sanitary areas and the food industry and wherever long application times are necessary.	<input type="checkbox"/>
<b>MIXERS AND INJECTORS</b>				
<b>HP detergent injector</b>				
Detergent injector for high and low pressure (without nozzles)	82	4.637-032.0	Detergent injector for independent high and low pressure dosage. Maximum dosage about 15%.	<input type="checkbox"/>
Detergent injector for high pressure	83	4.637-033.0	Cleaning agent dosage at high pressure 3 - 5 %	<input type="checkbox"/>
<b>Machine-specific nozzle kit with order no. 3.637-170</b>				
Nozzle insert trapezoidal thread	84	4.769-013.0	For HD/HDS 1000 - 1200 l/h. Consists of nozzle insert + HP power nozzle + union	<input type="checkbox"/>

Available accessories.



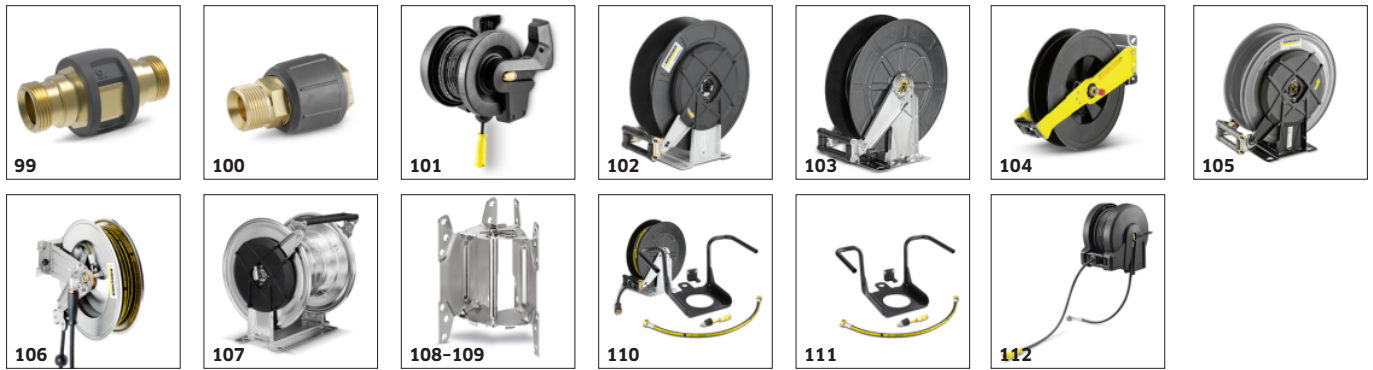
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	Order no.	Description	
<b>MIXERS AND INJECTORS</b>			
<b>Nozzle insert with order no. 3.637-001</b>			
High pressure for units rated 1100 l/h or more	85	4.769-002.0	For high pressure with machines above 1.100 l/h <input type="checkbox"/>
Low pressure for units rated 1100 l/h or more	86	4.769-006.0	For low pressure with machines above 1.100 l/h <input type="checkbox"/>
<b>COUPLING PARTS</b>			
<b>Rotary coupling</b>			
Rotary coupling	87	4.111-021.0	Kärcher rotary coupling prevents twisting and kinking of high-pressure hoses for ease of use. Connector Easy!Lock. With grip protection. <input type="checkbox"/>
<b>Connector</b>			
Nozzle connector/screw connector	88	4.111-022.0	Nozzle connector/screw connector for connecting high-pressure nozzles and accessories to the high-pressure trigger gun (with nozzle connector). Connectors: 1x M 22 × 1.5 and 1x M 18 × 1.5. <input type="checkbox"/>
Y distributor	89	4.111-024.0	Offers the option to connect two spray units to the machine. Installation on the high pressure outlet. <input type="checkbox"/>
Short spray unit	90	4.111-038.0	For attaching high-pressure nozzles and accessory parts to HP trigger gun (with nozzle screws). Not compatible with triple nozzles. <input type="checkbox"/>
<b>Adapter EASY!Lock</b>			
Adapter 1 M22AG-TR22AG	91	4.111-029.0	Adapter 1 to connect the old hose with the new hose <input type="checkbox"/>
Adapter 2 M22IG-TR22AG	92	4.111-030.0	Adapter 2 to connect the old device with the new hose and the old gun with the new hose <input type="checkbox"/>
Adapter 3 M22IG-TR22AG	93	4.111-031.0	Adapter 3 to connect the old gun with the new spray lance and new servo regulator <input type="checkbox"/>
Adapter M22 - Swivel	94	4.111-032.0	M22 × 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. <input type="checkbox"/>
Adapter 5 TR22IG-M22AG	95	4.111-033.0	Adapter 5 to connect the new gun with the old spray lance and new servo regulator with the old spray lance <input type="checkbox"/>
Adapter 6 TR22IG-M22AG	96	4.111-034.0	Adapter 6 to connect the new device with the old hose and the old hose with the new gun <input type="checkbox"/>
Adapter 7 M18IG-TR20AG	97	4.111-035.0	Adapter 7 to connect the old spray lance with the new nozzle <input type="checkbox"/>
Adapter 8 TR20IG-M18AG	98	4.111-036.0	Adapter 8 to connect the new spray lance with the old nozzle <input type="checkbox"/>

Available accessories.

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		Order no.	Description	
<b>COUPLING PARTS</b>				
<b>Adapter EASY!Lock</b>				
Coupler -2xM22x1,5	99	4.111-037.0	Brass double connector for connecting and extending high-pressure hoses. With rubber protection. Connector: 2x M 22 × 1.5 m.	<input type="checkbox"/>
ADAPTER for replacement TR22IG-M22AG Er	100	4.111-046.0	Rotatable adapter for connecting EASY!Force high-pressure gun and high-pressure hoses with M 22x1.5 connection	<input type="checkbox"/>
<b>HOSE REELS</b>				
<b>Automatic, self-winding hose reels</b>				
Automatic plastic hose reel incl. high-pressure hose, 15 m	101	2.639-257.0		<input type="checkbox"/>
Automatic hose reel, powder-coated steel / plastic, 20 m	102	6.392-074.0	Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.	<input type="checkbox"/>
Automatic stainless steel / synthetic material hose drum, 20 m	103	6.392-083.0	Automatic hose reel for 20 m high-pressure hose. The console consists of stainless steel, the drum is made from plastic.	<input type="checkbox"/>
Automatic hose reel, coated, 20 m	104	6.392-106.0	Automatic hose reel of durable plastic. Painted steel bracket. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
Hose reel, automatic, basalt grey-coated, 20 m	105	6.392-105.0	Automatic hose reels provide the highest level of safety and convenience for winding and unwinding HP hoses.	<input type="checkbox"/>
Automatic hose reel, stainless steel, includes swivel holder, 20 m	106	6.392-076.0	Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
Automatic stainless steel hose reel, 40 m	107	6.392-442.0	Automatic hose reels provide the highest level of safety and convenience for winding and unwinding HP hoses. Compatible high-pressure hose, e.g. order no. 6.110-076.0 (ID 8, 40 m, 400 bar, 1x hose reel connection attachment kit).	<input type="checkbox"/>
Powder-coated swivel holder	108	2.639-931.0	Swivel holder for automatic hose reel wall mounting. For maximum action radius and flexibility of high-pressure hose. Rotatable 120°. Galvanised steel.	<input type="checkbox"/>
Stainless steel swivel holder	109	2.641-867.0	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.	<input type="checkbox"/>
<b>Anbausatz Schlauchtrommel automatik</b>				
Attachment kit automatic hose reel HDS M/S	110	2.110-011.0	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.	<input type="checkbox"/>
Attachment kit automatic hose reel holder HDS M/S	111	2.110-020.0	Holder includes connection material for installing an automatic hose reel to machines in the HDS Middle and Super classes.	<input type="checkbox"/>
Mounting kit AHR HDS-M/S Next	112	2.110-030.0		<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 13/20-4 S 1.071-937.0



	Order no.	Description	
<b>FACADE AND SOLAR PANEL CLEANING</b>			
<b>Brushes</b>			
Brush hard	113	6.960-133.0	Brush with hard bristles for cleaning industry facades and floor coverings and removing coarse dirt. Simple installation on telescopic lances or high-pressure lances from Kärcher. <input type="checkbox"/>
Brush medium	114	6.960-134.0	Optimally cleans facades, roller shutters and textile fabrics: the brush with medium-hard bristles for fast and simple attachment to telescopic lances or high-pressure lances from Kärcher. <input type="checkbox"/>
Brush soft	115	6.960-135.0	For simple installation on telescopic lances or high-pressure lances from Kärcher: brush with soft bristles for deep cleaning of sensitive surfaces such as glass or solar systems. <input type="checkbox"/>
iSolar 800 Advanced	116	6.368-095.0	For water flow rates of 1,100–1,300 l/h: The 800-mm iSolar water-driven brush head with two contra-rotating disc brushes and flexible angle joint ensures that photovoltaic systems are given an even clean. <input type="checkbox"/>
iSolar 400 Advanced	117	6.368-093.0	The iSolar 400 water-driven disc brush (working width 400 mm) is designed for water flow rates of 1,100–1,300 l/h. For small to medium-sized photovoltaic systems (including elevated systems). <input type="checkbox"/>
<b>Telescopic</b>			
TL low pressure adapter	118	4.580-097.0	TL low-pressure adapter comprising ball valve for tool-free installation on telescopic lances. Ideal for applications with rotating high-pressure brushes. <input type="checkbox"/>
Telescopic lance TL 7 F	119	4.762-609.0	Telescopic lance TL 7 F with up to 7 m reach made from robust and lightweight glass fibre. With practical quick-release fasteners for simple retraction and extension. <input type="checkbox"/>
Telescopic lance TL 7 H	120	4.762-610.0	Multifunctional hybrid telescopic lance TL 7 H made of rigid and lightweight carbon-glass fibre mix. Telescopic thanks to quick-release fastenings. Up to 7 m reach. <input type="checkbox"/>
Telescopic lance TL 10 H	121	4.762-611.0	Up to 10 m reach: hybrid telescopic lance TL 10 H. Comprising carbon-glass fibre mix and suitable for multifunctional use. Simple retraction and extension thanks to quick-release fasteners. <input type="checkbox"/>
Telescopic lance TL 10 C	122	4.762-612.0	Carbon fibre telescopic lance TL 10 C. With up to 10 m reach and practical quick-release fasteners. Multifunctional use for cleaning facades, windows or solar panels. <input type="checkbox"/>
Telescopic lance TL 14 C	123	4.762-613.0	Maximum rigidity with minimum weight: telescopic lance TL 14 C made from carbon fibre. Enormous reach of 14 m, multifunctional use and easy to use thanks to quick-release fasteners. <input type="checkbox"/>
TL high pressure adapter	124	4.775-154.0	TL high-pressure adapter, flexible high-pressure gun for high-pressure cleaning with telescopic lances. Ergonomic, easy to install, suitable for right- and left-handed individuals. <input type="checkbox"/>
<b>Wasserenthärtung</b>			
WS 50	125	6.368-463.0	The mobile WS 50 water softening unit prevents lime residue on clean surfaces. A special ion-exchange resin removes the dissolved limescale from the water. <input type="checkbox"/>
WS 100	126	6.368-464.0	The mobile WS 100 water softening unit prevents lime residue on clean surfaces. A special ion-exchange resin removes the dissolved limescale from the water. <input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 13/20-4 S 1.071-937.0



		Order no.	Description	
<b>FACADE AND SOLAR PANEL CLEANING</b>				
<b>Wassereenthärtung</b>				
WS Regenerator	127	6.368-465.0	With the WS Regenerator regeneration system, the softening cartridges of the water softening units WS 50 and WS 100 can be backflushed and regenerated at the push of a button.	<input type="checkbox"/>
<b>Hoses</b>				
Hose solar	128	6.392-978.0	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.	<input type="checkbox"/>
	129	6.392-977.0	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.	<input type="checkbox"/>
	130	6.392-976.0	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.	<input type="checkbox"/>
<b>Attachment kits and adapters</b>				
Case sheet steel	131	6.988-152.0	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.	<input type="checkbox"/>
<b>WET BLASTING ATTACHMENT</b>				
<b>Wet blasting attachment (without nozzle)</b>				
Wet blasting attachment with flow control (without nozzles)	132	4.115-000.0	Paint, rust and scale removal made easy: Kärcher wet blasting attachment with flow control for adding blasting abrasive to the high-pressure jet.	<input type="checkbox"/>
Wet blasting attachment without flow control (nozzles not included)	133	4.115-006.0	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.	<input type="checkbox"/>
<b>Nozzle pack for wet blasting attachment</b>				
Nozzle pack TR wet jet set 0070	134	2.112-027.0	Consisting of wet jet nozzle and nozzle insert - only for use in combination with wet jet unit 4.115-000.0   4.115-006.0.	<input type="checkbox"/>
<b>Boron carbide nozzle</b>				
Boron carbide nozzle, for machines as of 1000 l/h	135	6.415-083.0	In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.	<input type="checkbox"/>
<b>DRUM AND TANK CLEANING</b>				
<b>Barrel and tank cleaning</b>				
Barrel cleaner BC 14/12	136	2.112-020.0	The barrel cleaner BC 14/12 is a spray unit for the internal cleaning of containers and drums - in particular oak barrels with a capacity between 225 and 600 liters.	<input type="checkbox"/>
Rotary cleaner head M63E	137	6.751-061.0		<input type="checkbox"/>
<b>WATER CONNECTION</b>				
<b>Geka coupling</b>				
With hose nozzle, R 3/4"	138	6.388-455.0	with hose liner	<input type="checkbox"/>
With hose nozzle, R 1"	139	6.388-465.0	with hose barb	<input type="checkbox"/>
Hose coupling	140	6.388-458.0	with female thread	<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 13/20-4 S 1.071-937.0



		Order no.	Description	
<b>WATER CONNECTION</b>				
<b>Suction filter</b>				
Water filter	141	6.414-956.0	Suitable for ponds, storage tanks or similar, polyamide filter casing, stainless steel strainer, 800 µm mesh, R 3/4" and R 1" connection, without non-return valve	<input type="checkbox"/>
Suction filter with check valve	142	4.730-012.0	Brass suction filter suitable for ponds, storage tanks, etc. With check valve.	<input type="checkbox"/>
<b>Fine-mesh water filter</b>				
Add-on kit water filter universal	143	2.637-020.0		<input type="checkbox"/>
Fine-mesh water filter with adapter	144	4.730-102.0	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".	<input type="checkbox"/>
Fine-mesh water filter, 100 µm, R 1"	145	2.638-270.0	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".	<input type="checkbox"/>
<b>Water supply hose</b>				
Water supply hose	146	4.440-207.0	NW 19 R1" / R 3/4", up to 85 °C, for pick-up	<input type="checkbox"/>
	147	4.440-270.0	NW 19 R1" / R1", up to 85 °C	<input type="checkbox"/>
<b>WASHING BRUSHES</b>				
<b>Push-on washing brush</b>				
Push-on wash brush, M 18 × 1.5	148	4.113-001.0	Push-on wash brush for universal use. Simply push on to lance. Connector: M 18 × 1.6.	<input type="checkbox"/>
<b>Rotating washing brush</b>				
Rotating wash brush for > 800 l/h machines, nylon bristles	149	4.113-002.0	Driven by water stream. Gently removes fine dust and traffic film from any surface. Temperature resistant up to 60°C, M 18 × 1.5 (replaceable brush insert).	<input type="checkbox"/>
Rotating wash brush for > 800 l/h machines, natural bristles	150	4.113-005.0		<input type="checkbox"/>
<b>ADD-ON KITS</b>				
<b>Flame monitoring attachment kit</b>				
Add-on kit flame guard HDS	151	2.644-475.0		<input type="checkbox"/>

Available accessories.