

## HDS 9/20-4 M

Extremely user-friendly middle class hot water high-pressure cleaner with robust 3-piston axial pump, water-cooled 4-pole electric motor and 2 detergent tanks.



Made in Germany



Order no.

1.071-941.0

### Technical data

EAN code		4054278955896
Number of current phases	Ph	3
Voltage	V	400
Frequency	Hz	50
Flow Rate	l/h	450 - 900
Operating pressure	bar / MPa	30 - 200 / 3 - 20
Temperature (supply 12°C)	°C	min. 80 - max. 155
Power rating	kW	7
Heating oil consumption ( 60°C ) / eco!efficiency mode	kg/h	6.5
Heating oil consumption, eco!efficiency	kg/h	5.2
Power cable	m	5
Fuel tank	l	25
Weight (with accessories)	kg	155.2
Weight incl. packaging	kg	165.1
Dimensions (L × W × H)	mm	1330 × 750 × 1060

### Equipment

Cleaning agent function		20 + 10 l tank
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		■
ANTI!Twist		■
Tanks for detergent, scale inhibitor and fuel can be filled from outside		■
Control panel with indicator lamps		■
Pressure switch control		■
Pole reversing plug (three-phase)		■
Servo Control		■
Two detergent tanks		■
Dry running protection		■

■ included in delivery.

This machine requires instruction.



## High efficiency

- In eco!efficiency 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.



## Wide-ranging accessories with EASY!Lock

- EASY!Force Advanced for fatigue-free work without any holding force.
- Pressure and water volume can be adjusted on the Servo Control controller positioned between the lance and trigger gun.
- Rotating 1050 mm stainless steel lance.



## 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.

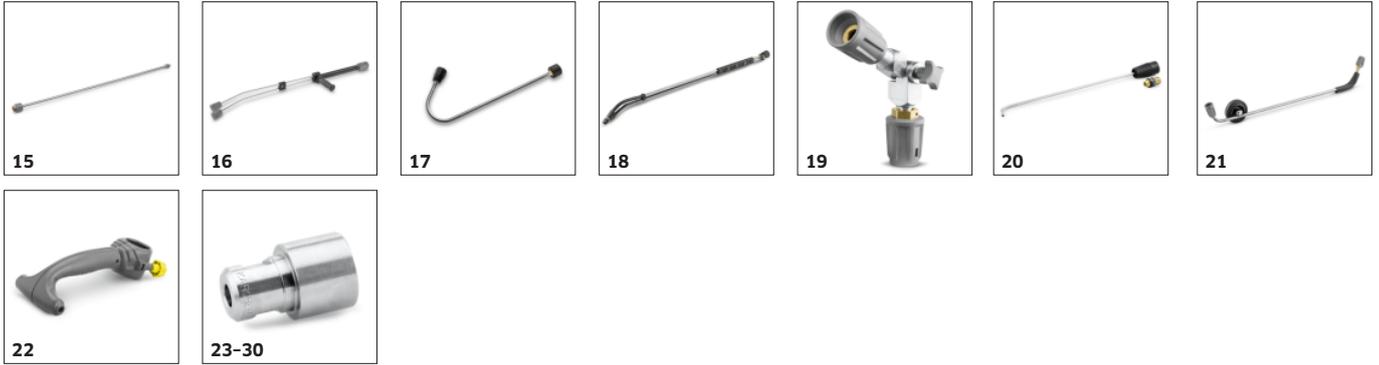
## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



		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, 750 l/h - 1100 l/h	5	4.118-008.0	Water quantity and pressure regulated directly from the hand spray gun.	■
Servo Control, 1100 l/h -	6	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	7	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	8	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	9	4.112-027.0	Spray lance, 250 mm, rotatable, ergonomic	□
Spray lance, 400 mm, rotatable	10	4.112-024.0	Spray lance, 400 mm, rotatable, ergonomic	□
Spray lance, 600 mm, rotatable	11	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	12	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	13	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	14	4.112-021.0	2050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□

■ Included in delivery. □ Available accessories.

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		Order no.	Description	
<b>SPRAY LANCES</b>				
<b>Rotating spray lances</b>				
Spray lance extender, 1000 mm	15	4.112-048.0	Spray lance extension with EASY!Lock connection. Length 1000 mm.	<input type="checkbox"/>
<b>Double lance</b>				
Double lance, 960 mm	16	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	17	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	18	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	19	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	20	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	21	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	22	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 25°, 050	23	2.113-023.0	Fan jet nozzle with 25° spray angle, suitable for large areas and removing stubborn dirt and stains.	<input checked="" type="checkbox"/>
Power Nozzle , 070	24	2.113-028.0	Fan jet nozzle for large-area coverage and stubborn dirt and stains.	<input type="checkbox"/>
<b>HP nozzle spray angle 0°</b>				
Power nozzle 0°, 050	25	2.113-034.0	High-pressure nozzle with powerful jet for extremely stubborn dirt.	<input type="checkbox"/>
Power nozzle 0°, 075	26	2.113-037.0		<input type="checkbox"/>
<b>Power nozzle spray angle 15°</b>				
Power nozzle 15°, 055	27	2.113-047.0	Fan jet nozzle with 15° spray angle suitable for stubborn dirt.	<input type="checkbox"/>
Power nozzle 15°, 070	28	2.113-049.0		<input type="checkbox"/>

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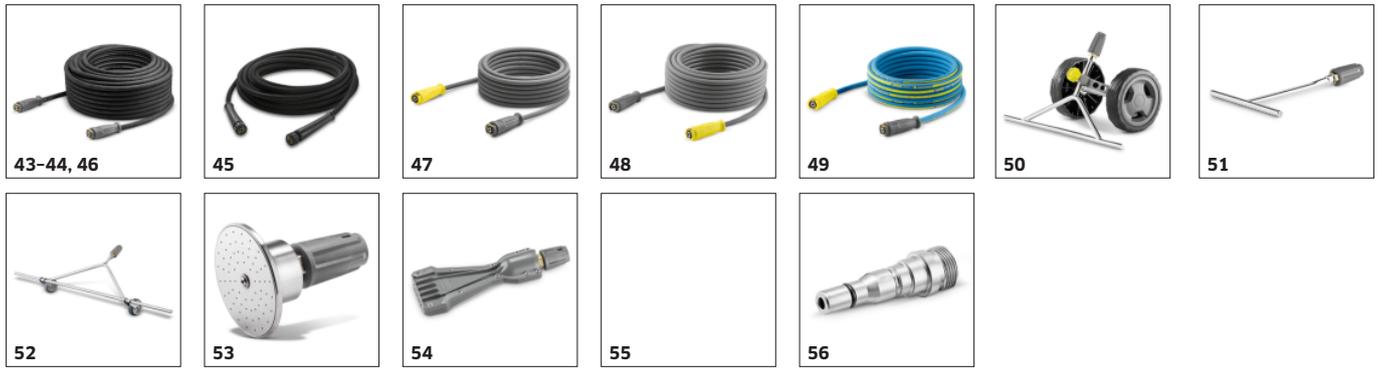
## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



	Order no.	Description	
<b>KÄRCHER POWER NOZZLE</b>			
<b>Power nozzle spray angle 40°</b>			
Power Nozzle 40°, 050	29	2.113-054.0	Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces. <input type="checkbox"/>
Power Nozzle 40°, 075	30	2.113-056.0	<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	31	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	32	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"/>
High-pressure hose Longlife, 30 m, ID 8, 400 bar, 2 × EASY!Lock	33	6.110-023.0	With rotary coupling, 2 × M 22 × 1.5 <input type="checkbox"/>
High-pressure hose Longlife, 20 m, ID 8, 400 bar, 2 × EASY!Lock	34	6.110-027.0	with rotary coupling, 2 × M 22 × 1.5 <input type="checkbox"/>
High-pressure hose Longlife, 15 m, ID 8, 400 bar, 2 × EASY!Lock	35	6.110-029.0	With rotary coupling, 2 × M 22 × 1.5 <input type="checkbox"/>
<b>Standard with unions on both sides</b>			
High-pressure hose, 10 m, ID 10, 220 bar, 2 × EASY!Lock	36	6.110-041.0	<input type="checkbox"/>
High-pressure hose, 10 m, ID 8, 315 bar, 2 × EASY!Lock	37	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"/>
High-pressure hose, 15 m, ID 8, 315 bar, 2 × EASY!Lock	38	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	39	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	40	6.110-014.0	With rotary coupling, 2 × M 22 × 1.5 <input type="checkbox"/>
High-pressure hose, 15 m, ID 10, 220 bar, 2 × EASY!Lock	41	6.110-042.0	15 m high-pressure hose M 22 × 1.5) with kink protection and threaded couplings at both ends. Further data: DN 10/155°C/220 bar. <input type="checkbox"/>
High-pressure hose, 20 m, ID 10, 220 bar, 2 × EASY!Lock	42	6.110-043.0	with union on both sides, M 22 × 1.5 with anti-kink protection. NW 10/155°C/220 bar <input type="checkbox"/>

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## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



	Order no.	Description		
<b>HIGH-PRESSURE HOSES</b>				
<b>Standard with unions on both sides</b>				
High-pressure hose, 25 m, ID 10, 220 bar, 2 × EASY!Lock	43	6.110-044.0	with union on both sides, M 22 × 1.5 with anti-kink protection. NW 10/155°C/220 bar	<input type="checkbox"/>
High-pressure hose, 40 m, ID 10, 220 bar, 2 × EASY!Lock	44	6.110-045.0		<input type="checkbox"/>
High-pressure hose, 15 m, ID 12, 210 bar, 2 × EASY!Lock	45	6.110-059.0	High-pressure hose for water volumes greater than 1,800 l / h. With union on both sides. 2x M 22 × 1.5 with anti-kink protection.	<input type="checkbox"/>
High-pressure hose, 40 m, ID 12, 210 bar, 2 × EASY!Lock	46	6.110-060.0		<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	47	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	48	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	49	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	50	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	51	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	52	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	53	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 050	54	2.113-088.0	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 050).	<input type="checkbox"/>
<b>QUICK CONNECT</b>				
Quick-fitting pipe union coupler trapezo	55	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	56	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"/>

■ Included in delivery. □ Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



58



59



60-61



63



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67-68



69-71

	Order no.	Description	
<b>DRUM AND TANK CLEANING</b>			
Add-on kit mud sucker	57 2.641-798.0		<input type="checkbox"/>
<b>ADD-ON KITS</b>			
Add-on kit hour counter	58 2.853-192.0		<input type="checkbox"/>
<b>OTHER HP ACCESSORIES</b>			
Jet gun	59 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	60 4.656-149.0	Flue gas adapter with draught damper for flue pipe connection (adapter for HDS burners for connection to a stack system).	<input type="checkbox"/>
	61 4.656-080.0		<input type="checkbox"/>
<b>SEALS FOR TRAPEZOIDAL THREAD</b>			
Spare part set seals TR	62 2.880-001.0		<input type="checkbox"/>
<b>ROTARY NOZZLES (DIRT BLASTERS)</b>			
<b>Dirt blaster, large</b>			
Dirt blaster Vibrasoft, 050	63 4.114-066.0	Vibrasoft rotary nozzle with rotating point jet for ten times greater cleaning performance. Durable dirt blaster thanks to ceramic nozzle. Reduces vibrations by up to 30% for maximum ergonomics.	<input type="checkbox"/>
Dirt blaster, large, 050	64 4.114-027.0	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"/>
Dirt blaster, large, 070/080	65 4.114-030.0		<input type="checkbox"/>
<b>MULTIPLE-JET NOZZLES</b>			
<b>Angle vario nozzle 0°-90°</b>			
Angled Vario nozzle, 055	66 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°	67 4.116-000.0	Steam jet nozzle with 50° fan jet. For cleaning and thawing in steam stage. For thawing sand and gravel, de-icing formwork material or de-waxing vehicles.	<input type="checkbox"/>
	68 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.
Steam jet nozzle 40°, 070	69 2.114-006.0		<input type="checkbox"/>
Steam jet nozzle 40°, 110	70 2.114-012.0		<input type="checkbox"/>

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## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



69-71



72



73



74-76



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81-82



83-86

		Order no.	Description	
<b>STEAM NOZZLE / NOZZLE PROTECTOR / ROLLOVER NOZZLE</b>				
<b>Steam nozzle</b>				
Steam jet nozzle 40°, 060	71	2.114-004.0	Brass steam nozzle for operation of the HDS in steam stage.	<input type="checkbox"/>
<b>Rollover nozzle holder</b>				
Ball Nozzle Holder	72	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	73	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	74	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	75	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	76	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 D21/060	77	4.765-002.0	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"/>
Dirt blaster pipe cleaning D21/090	78	4.765-003.0		<input type="checkbox"/>
Dirt blaster pipe cleaning D30/060	79	4.765-005.0		<input type="checkbox"/>
Dirt blaster pipe cleaning D30/090	80	4.765-010.0		<input type="checkbox"/>
Nozzle pipe cleaning size 80	81	5.763-087.0	Pipe cleaning nozzle with 24 mm diameter. With 4 nozzles tilted back at a 30° angle.	<input type="checkbox"/>
Nozzle pipe cleaning size 100	82	5.763-088.0		<input type="checkbox"/>
Pipe cleaning nozzle	83	5.763-015.0	16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	84	5.763-019.0		<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



	Order no.	Description	
<b>PIPE CLEANING</b>			
<b>Pipe cleaning nozzle</b>			
Pipe cleaning nozzle	85 5.763-016.0	16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	86 5.763-020.0		<input type="checkbox"/>
	87 5.763-017.0	30 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	88 5.763-021.0		<input type="checkbox"/>
<b>FLOOR AND HARD SURFACE CLEANER</b>			
<b>Hard Surface Cleaner FRV 30</b>			
Add-on kit hose attachment	89 2.642-528.0	Suction cup for fixing the suction hose to smooth surfaces.	<input type="checkbox"/>
Add-on kit dirt trap	90 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	91 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	92 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, 850 l/h - 1100 l/h	93 2.640-442.0	Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (850 to 1100 l/h).	<input type="checkbox"/>
Nozzle kit for FR, 1100 l/h - 1300 l/h	94 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, 050	95 2.642-433.0	Machine-specific nozzle kit with Kärcher power nozzles and jet nozzle for FRV 30.	<input type="checkbox"/>
Nozzle kit for FRV, 080	96 2.642-982.0		<input type="checkbox"/>
<b>Hard surface cleaner FRV 30 Me</b>			
FRV 30 Me Surface Cleaner	97 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	98 4.441-040.0	5 m extension hose for FRV 30 Me. Includes connecting adapter.	<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



		Order no.	Description	
<b>FLOOR AND HARD SURFACE CLEANER</b>				
<b>Surface Cleaner FR 50 Me</b>				
FRV 50 Me surface cleaner	99	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"/>
<b>FOAM SYSTEMS</b>				
<b>Cup foam lance</b>				
Cup foam lance Advanced 3, 900 l/h - 2500 l/h	100	4.112-065.0		<input type="checkbox"/>
Cup foam lance DUO Advanced 3, 900 l/h - 2500 l/h	101	4.112-069.0		<input type="checkbox"/>
Cup foam lance Basic 3, 900 l/h - 2500 l/h	102	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	103	5.071-414.0		<input type="checkbox"/>
1-litre cleaning agent container for cup foam lance advanced	104	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	105	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	106	2.112-008.0		<input type="checkbox"/>
<b>Easy Foam Set</b>				
Easy Foam Set with RM injector	107	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	108	2.112-011.0		<input type="checkbox"/>
<b>Nozzle kits for Inno/Easy Foam Set</b>				
Nozzle kit 090 Inno/Easy kit 700 - 1000 l/h	109	2.111-019.0	Nozzle kit contains Kärcher power nozzles and nozzle inserts. For Inno/Easy-Foam set 700-1000 l/h. For optimal foam system performance.	<input type="checkbox"/>
Nozzle kit 110 Inno/Easy set 1000 - 1300 l/h	110	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	111	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)	112	4.637-032.0	Detergent injector for independent high and low pressure dosage. Maximum dosage about 15%.	<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



113



114-115



116-119



120



121



122



123



124



125



126

		Order no.	Description	
<b>MIXERS AND INJECTORS</b>				
<b>HP detergent injector</b>				
Detergent injector for high pressure	113	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 HDS-GER	114	4.769-011.0	For HD/HDS 750 - 1000 l/h. Consists of nozzle insert + HP power nozzle + union	<input type="checkbox"/>
Nozzle insert trapezoidal thread	115	4.769-013.0	For HD/HDS 1000 - 1200 l/h. Consists of nozzle insert + HP power nozzle + union	<input type="checkbox"/>
<b>Nozzle insert with order no. 3.637-001</b>				
Nozzle insert for Order No. 3.637-001, high-pressure for machines up to 1100 l/h.	116	4.769-003.0	Nozzle insert for detergent injector 3.637-001 for high-pressure detergent application. For high-pressure cleaners with a water flow rate up to 1100 l/h.	<input type="checkbox"/>
High pressure for units rated 1100 l/h or more	117	4.769-002.0	For high pressure with machines above 1.100 l/h	<input type="checkbox"/>
Low pressure for units rated up to 1100 l/h	118	4.769-001.0	For low pressure with machines up to 1.100 l/h	<input type="checkbox"/>
Low pressure for units rated 1100 l/h or more	119	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	120	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	121	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 x 1.5 and 1x M 18 x 1.5.	<input type="checkbox"/>
Y distributor	122	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	123	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	124	4.111-029.0	Adapter 1 to connect the old hose with the new hose	<input type="checkbox"/>
Adapter 2 M22IG-TR22AG	125	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	126	4.111-031.0	Adapter 3 to connect the old gun with the new spray lance and new servo regulator	<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



		Order no.	Description	
<b>COUPLING PARTS</b>				
<b>Adapter EASY!Lock</b>				
Adapter M22 - Swivel	127	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	128	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	129	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	130	4.111-035.0	Adapter 7 to connect the old spray lance with the new nozzle	<input type="checkbox"/>
Adapter 8 TR20IG-M18AG	131	4.111-036.0	Adapter 8 to connect the new spray lance with the old nozzle	<input type="checkbox"/>
Coupler -2xTR22 - EASY!Lock	132	4.111-037.0	Adapter 9 to connect the new hose with the new hose	<input type="checkbox"/>
ADAPTER for replacement TR22IG-M22AG Er	133	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	134	2.639-257.0		<input type="checkbox"/>
Automatic hose reel, powder-coated steel / plastic, 20 m	135	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	136	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	137	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	138	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	139	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	140	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"/>

Available accessories.

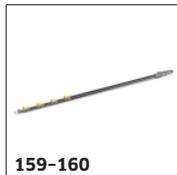
## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



		Order no.	Description	
<b>HOSE REELS</b>				
<b>Automatic, self-winding hose reels</b>				
Powder-coated swivel holder	141	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	142	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	143	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	144	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	145	2.110-030.0		<input type="checkbox"/>
<b>FACADE AND SOLAR PANEL CLEANING</b>				
<b>Brushes</b>				
Drive for roller brush 500	146	4.762-584.0	Hydraulic drive for rotating roller brushes. For cleaning façades or solar power installations with our professional high-pressure cleaners. Installation on spray lance or telescopic lance.	<input type="checkbox"/>
Splash guard for roller brush 500	147	4.762-621.0	Splash guard with velcro fastening for rotating roller brush. Clear view of the brush thanks to transparent film, with protection against splashes at the same time.	<input type="checkbox"/>
Roller brush 500 soft	148	4.762-623.0	Soft brush attachment for use with hydraulic drive (4.762-584.0). Ideal for glass and solar power installation cleaning. Easy quick-change system and secure mounting on drive.	<input type="checkbox"/>
Roller brush 500 medium	149	4.762-624.0	Medium-hard brush attachment for use with hydraulic drive (4.762-584.0). Suitable for sensitive façades, foils and fabrics. Easy and safe quick-change system.	<input type="checkbox"/>
Roller brush 500 hard	150	4.762-625.0	Hard brush attachment for use with hydraulic drive (4.762-584.0). For rough façades, stone and wooden patios. Safe and easy quick-change system.	<input type="checkbox"/>
Brush hard	151	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	152	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	153	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	154	6.368-094.0	iSolar 800 water-driven brush head, 800 mm wide, for water flow rates of 700-1,000 l/h. With two contra-rotating disc brushes and flexible angle joint. For photovoltaic systems.	<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



		Order no.	Description	
<b>FACADE AND SOLAR PANEL CLEANING</b>				
<b>Brushes</b>				
iSolar 800 Advanced	155	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	156	6.368-092.0	iSolar 400 brush for water flow rate of 700-1,000 l/h. The water-driven disc brush with a width of 400 mm cleans small to medium-sized photovoltaic systems. Also perfect for use on elevated systems.	<input type="checkbox"/>
	157	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	158	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	159	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	160	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	161	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	162	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	163	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	164	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>Wassereenthärtung</b>				
WS 50	165	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	166	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"/>
WS Regenerator	167	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	168	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"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



168-170



171



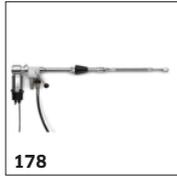
172-173



174-175



176-177



178



179



180-181



182

	Order no.	Description		
<b>FACADE AND SOLAR PANEL CLEANING</b>				
<b>Hoses</b>				
Hose solar	169	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"/>
	170	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	171	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)	172	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)	173	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 0055	174	2.112-024.0	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"/>
Nozzle pack TR wet jet set 0070	175	2.112-027.0		<input type="checkbox"/>
<b>Boron carbide nozzle</b>				
Boron carbide nozzle, for machines as of 1000 l/h	176	6.415-084.0	In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.	<input type="checkbox"/>
	177	6.415-083.0		<input type="checkbox"/>
<b>DRUM AND TANK CLEANING</b>				
<b>Barrel and tank cleaning</b>				
Barrel cleaner BC 14/12	178	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	179	6.751-061.0		<input type="checkbox"/>
<b>Nozzle kit for HKF 50 spray head (3.631-009.0 / 3.631-039.0)</b>				
Nozzle 045 for dual nozzle operation HKF 50	180	6.415-446.0	Nozzle for dual-nozzle operation	<input type="checkbox"/>
Nozzle 090 for single nozzle operation HKF 50	181	6.415-447.0	Nozzle for single-nozzle operation	<input type="checkbox"/>
Double handle for exact control of the spray head	182	2.863-036.0	Double handle. Precise control of the spray head	<input type="checkbox"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



	Order no.	Description	
<b>DRUM AND TANK CLEANING</b>			
<b>Nozzle kit for HKF 50 spray head (3.631-009.0 / 3.631-039.0)</b>			
Screw plug for using a spray head with one nozzle	183	5.411-061.0	Screw plug for using a spray head with one nozzle <input type="checkbox"/>
<b>WATER CONNECTION</b>			
<b>Geka coupling</b>			
With hose nozzle, R 3/4"	184	6.388-455.0	with hose liner <input type="checkbox"/>
With hose nozzle, R 1"	185	6.388-465.0	with hose barb <input type="checkbox"/>
Hose coupling	186	6.388-458.0	with female thread <input type="checkbox"/>
<b>Suction filter</b>			
Water filter	187	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	188	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	189	2.637-020.0	<input type="checkbox"/>
Fine-mesh water filter with adapter	190	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"	191	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	192	4.440-207.0	NW 19 R1" / R 3/4", up to 85 °C, for pick-up <input type="checkbox"/>
	193	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	194	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	195	4.113-004.0	The rotating wash brush gently removes fine dust and traffic film from all surfaces. 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	196	4.113-003.0	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"/>

Available accessories.

## EQUIPMENT FOR HDS 9/20-4 M 1.071-941.0



	Order no.	Description	
<b>ADD-ON KITS</b>			
<b>Flame monitoring attachment kit</b>			
Add-on kit flame guard HDS	197	2.644-475.0	<input type="checkbox"/>
<b>Remote control set</b>			
Add-on kit remote control HDS M/S/C	198	2.394-005.0	<input type="checkbox"/>

Available accessories.