



# HDS 7/10-4 M

Medium class hot water pressure washer with a host of user-friendly features.







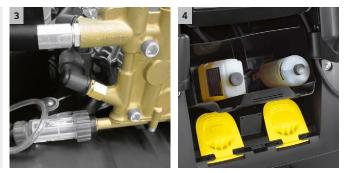


#### 1 Efficiency

- In the Eco setting the unit operates in the most economical temperature range (60°C) with full water flow.
- Burner cycles are optimised to reduce fuel consumption by up to 20% compared to full-load operation.

#### 2 Maximum efficiency

- Highly efficient burner technology.
- 4-pole, slow-running electric motor guarantees a long working time.



#### 3 Operational reliability

- The large, integrated fine-mesh water filter reliably protects the high-pressure pump against dirt particles.
- An integrated exhaust gas thermostat switches off the drive motor if the exhaust gas temperature exceeds 300°C.

#### 4 Storage

- Safe and ample storage for protective gear, accessories and cleaning agents.
- Storage hooks for power cord and high-pressure hose.

# **TECHNICAL DATA AND EQUIPMENT.**

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#### HDS 7/10-4 M

- Axial pump with turbo blowerEconomical ecolefficiency mode
- SDS system

Technical data		
Order Number		1.077-901.0
EAN code		4054278140032
Current type	Ph / V / Hz	1 / 240 / 50
Flow rate	l/h	350-700
Pressure	bar / MPa	30-100 / 3-10
Max. temperature	°C	80 / 155
Power rating	kW	3,4
Consumption fuel oil	kg/h	4,6
Fuel tank	I	25
Weight	kg	159,3
Dimensions (L x W x H)	mm	1330 × 750 × 1060

#### Equipment

-40.6				
		20 + 10   tank	Electronic service control with LED display	•
Trigger gun		EASY!Force Advanced	Two detergent tanks	
High-pressure hose	m	10 / Longlife	Dry running protection	
Spray lance	mm	1050		
Power nozzle				
Servo Control				
ANTI!Twist				
Anti-twist system (AVS)		-		
Tanks for detergent, scale inhibitor and fuel can be filled from outside	d	•		
Control panel with indicator lamps				
Pressure switch control				
Included in delivery.				

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		1					
				Max. working			
		Order Number	ID	pressure	Length	Price	Description
Standard with unions on both sides	;			-			
High-pressure hose, 10 m DN 8, AVS trigger gun connector	1	6.110-031.0	ID 8	315 bar	10 m		10 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manu- al coupling. Further data: DN 8/155°C/315 bar.
High-pressure hose, 15 m DN 8, AVS trigger gun connector	2	6.110-030.0	ID 8	315 bar	15 m		15 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manu- al coupling. Further data: DN 8/155°C/315 bar.
High-pressure hose, 20 m DN 8, AVS trigger gun connector	3	6.110-032.0	ID 8	315 bar	20 m		20 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manu- al coupling. Further data: DN 8/155°C/315 bar.
High-pressure hose, 30 m DN 8, including rotary coupling	4	6.110-014.0	ID 8	315 bar	30 m		With rotary coupling, 2 x M 22 x 1.5
High-pressure hose, 15 m DN 10, 220 bar, extension	5	6.110-042.0	ID 10	220 bar	15 m		15 m high-pressure hose M 22 x 1.5) with kink protection and threaded couplings at both ends. Further data: DN 10/155°C/220 bar.
High-pressure hose, 20 m DN 10, 220 bar, extension	6	6.110-043.0	ID 10	220 bar	20 m		with union on both sides, M 22 x 1.5 with anti-kink protection. NW $10/155^{\circ}C/220$ bar
High-pressure hose, 25 m DN 10, extension, not rotatable	7	6.110-044.0	ID 10	220 bar	25 m		_
Hose assembly premium DN10 22MPa 40m	8	6.110-045.0	ID 10	220 bar	40 m		
Hose assembly premium DN12 21MPa 15m	9	6.110-059.0	ID 12	210 bar	15 m		High-pressure hose for water volumes greater than 1,800 l / h. With union on both sides. 2x M 22 x 1.5 with anti-kink
Hose assembly premium DN12 21MPa 40m	10	6.110-060.0	ID 12	210 bar	40 m		protection.
Hose assembly TR DN10 22MPa 10m		6.110-041.0	ID 10	220 bar	10 m		
onglife 400 with unions on both si		6 4 4 9 9 9 9 9	10.0	100 hav	0.0		With extern concluse 2 + M 22 + 4 5
High-pressure hose Longlife 400, 30 m DN 8, including rotary coup- ing	12	6.110-023.0	ID 8	400 bar	30 m		With rotary coupling, 2 x M 22 x 1.5
High-pressure hose Longlife 400, 20 m, DN 8, extension	13	6.110-027.0	ID 8	400 bar	20 m		with rotary coupling, 2 x M 22 x 1.5
High-pressure hose Longlife 400, 15 m, DN 8, including rotary coup- ling	14	6.110-029.0	ID 8	400 bar	15 m		With rotary coupling, 2 x M 22 x 1.5
High-pressure hose packaged	15	6.110-038.0	ID 8	400 bar	10 m		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.
High-pressure hose 1.5 m, DN 8, ncluding connectors	16	6.110-024.0	ID 8	400 bar	1,5 m		1.5 m high-pressure hose (DN 8, M $22 \times 1.5$ ) with kink pro- tection and connectors at both ends. For connecting to hose reels with appropriate connector (M $22 \times 1.5$ ).
Food industry version with unions	on bot	h sides	I	1	I I		
High-pressure hose, 10 m ID 8, suitable for food industry, extensi- on piece	17	6.110-051.0	ID 8	250 bar	10 m		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 x 1.5 with anti-kink sleeve.
High-pressure hose, 20 m ID 8, suitable for food industry, extensi- on piece	18	6.110-052.0	ID 8	250 bar	20 m		20 m high-pressure hose (DN 8) with swivel coupling. Non- discolouring outer layer for use in the food industry. Con- nectors at both ends, M 22 x 1.5, with kink protection. NW 8/155°C/250 bar.



		Order Number	ID	Max. working pressure	Length	Price	Description
Longlife food industry version with	unior	s on both sides					
High pressure hose food DN 8 / 10 m	19	6.110-053.0	ID 8	400 bar	10 m		Longlife HP hose for use in the food industry. Außende- cke## animal-grease-resistant, non-colour-bleeding materi- al. With rotary coupling, 2 x M 22 x 1,5

□ Available accessories. ▲ Extension hose. Included in delivery.

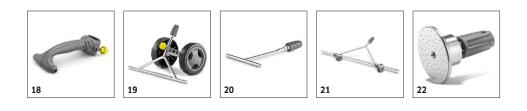
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		Order Number	Flow rate		Price	Description
Trigger guns						
EASY!Force Advanced	1	4.118-005.0				Effortless, not energy-sapping: the EASY!Force high-pressure gun uses the recoil force of the high-pressure jet to reduce the holding force for the operator to zero.
Conversion kit 1 from high pressu- re hose	2	4.111-050.0				A conversion kit which enables secure connection from an M22 hose onto our innovative EASY!Force trigger gun. The kit includes the EASY!Force Trigger gun, adaptors and lance.
Conversion kit 2 from device	3	4.111-051.0				Provides all the parts required to utilise our EASY!Force technology even on our non-Easy!Force machines. Including adaptors, lance, Easy!Force trigger gun and hose.
Conversion kit 3 only EASY!Force	4	4.111-052.0				A conversion kit for the EASY!Force gun, which includes the correct adaptors to conncect to the M22 style lance and hose.
Servo Control						· · · · · ·
Servo control	5	4.118-008.0	750-1100 l/h			Water quantity and pressure regulated directly from the hand spray gun.
Quick connect						
Quick-fitting pipe union coupler trapezo	6	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 x 1.5 internal thread.
Quick-fitting pipe union plug nipp- le tra	7	2.115-001.0				Hardened stainless steel male coupling for quick coupling 2.115-000. With M 22 x 1.5 external thread.

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		Order Number	Max. working pressure	Length		Price	Description
Rotating spray lances							
1050 mm lance, rotatable, ergono- mic	1	4.112-000.0	300 bar	1050 mm			1050 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
Nozzle Light	2	2.680-002.0		125 mm			LED work light for assembly on EASY!Force spray lances, providing a clear view in poor lighting conditions ensuring controlled cleaning results.
Lance 250 mm, non-rotatable	3	4.112-027.0	300 bar	250 mm			600 mm stainless steel lance (manual coupling) with ergono-
550 mm lance, non-rotatable	4	4.112-024.0	300 bar	400 mm			mic handle for ease of use and protection. Rotatable 360°
Rotatable lance, 600 mm, ergono- mic	5	4.112-007.0	300 bar	600 mm			under pressure.
Lance 850 mm, rotatable, ergono- mic	6	4.112-006.0	300 bar	840 mm			850 mm stainless steel lance (manual coupling) with ergono- mic handle for ease of use and protection. Rotatable 360° under pressure.
Lance 1550 mm, rotatable, ergo- nomic	7	4.112-018.0	300 bar	1550 mm			1550 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
Lance 2050 mm, rotatable, ergo- nomic	8	4.112-021.0	300 bar	2050 mm			2050 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
Jet pipe extension TR 1000 mm	9	4.112-048.0	300 bar	1000 mm			Spray lance extension with EASY!Lock connection. Length
Double lance							1000 mm.
Double lance 960 mm	10	2.112-016.0	310 bar	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).
Angular spray lance WC and gutter lance	11	4.112-029.0					Stainless steel lance WC and gutter with nozzle insert. Spe- cially shaped for effective and hygienic cleaning of gutters and toilets.
Flexible spray lance		1	1	1			and concta.
Flexible lance 1050 mm	12 13	4.112-035.0 4.112-057.0	210 bar 300 bar	1050 mm			1050 mm flexible lance with variable bend from 20° to 140°, ideal for cleaning difficult to reach areas, e.g. gutters. For hard-to-reach areas: High-pressure articulated joint with
	15	T.112 UJ7.U					infinite angle adjustment up to 120°. Simply attach directly to the spray lance of the pressure washer.
Telescopic spray lance	1						1
Telescopic jet pipe	14	4.112-037.0	225 bar	5400 mm			Can be continuously extended from 1.8 to 5.4 m. For cleaning areas that are difficult to reach, such as ceilings or facades. With integrated HD trigger gun, M 22 x 1.5 connec- tion with rotary coupling. Connection for M 18 x 1.5 nozzles.
Restraint belt for telescopic jet pipe	15	6.373-987.0					Convenient strap for relief when working with the telesco- pic spray lance (6.394-690). The burden is optimally distri- buted on the body and longer periods of use are possible.
Gutter cleaner		1	I	1			
Gutter cleaning lance	16	2.112-015.0		960 mm			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.
Undercarriage spray lance					1	1	
Underbody lance	17	4.112-032.0	▲ Extension h	700 mm			Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.





		Order Number	Max. working pressure	Length		Price	Description
Additional handle							
Additional handle for EASY!Lock spray lances	18	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.
Weed control							
WR 50	19	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.
WR 20	20	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.
WR 100	21	2.114-015.0					For thorough weed removal: The WR 100 weed remover for use with a hot water high-pressure cleaner from Kärcher. Equipped with a 100 cm wide nozzle bar and nozzle adap- ter.
WR 10	22	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.



	Order Number	Nozzle size				Drice	Description
	order Homber	1102210 3120				FILCE	Description
1	2.113-011.0	54					Flat jet nozzle for large area performance and stubborn dirt.
2	2.113-035.0	55					High-pressure nozzle with powerful jet for extremely stub- born dirt.
3	2.113-047.0	55					Fan jet nozzle with 15° spray angle suitable for stubborn dirt.
4	2.113-055.0	55					Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.
	2	Order Number           1         2.113-011.0           2         2.113-035.0           3         2.113-047.0           4         2.113-055.0	2     2.113-035.0     55       3     2.113-047.0     55	1     2.113-011.0     54       2     2.113-035.0     55       3     2.113-047.0     55	1     2.113-011.0     54       2     2.113-035.0     55       3     2.113-047.0     55	1     2.113-011.0     54       2     2.113-035.0     55       3     2.113-047.0     55	1     2.113-011.0     54       2     2.113-035.0     55       3     2.113-047.0     55

 $\blacksquare$  Included in delivery.  $\hfill\square$  Available accessories.  $\hfill\blacksquare$  Extension hose.



		Order Number	Max. working pressure	Nozzle size		Price	Description	
Dirt blaster, large								
Dirt blaster - without changeover function	1	4.114-036.0	300 bar	55			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.	
Angle vario nozzle 0°-90°								
Variable angle nozzle 0-90°	2	4.113-006.0		80			Variable angle nozzle for spray angle adjustment from $0^{\circ}$ to $90^{\circ}$ . For easy adjustment to all kinds of soiling and surfaces.	
■ Included in delivery. □ Av	ailable	e accessories.	▲ Extension ho	ose.				

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		Order Number				Price	Description	
Nozzle union		LL						
Nozzle screws	1	4.112-011.0					Nozzle screws with protectors for high-pressure and power	
UB dataward initiation							nozzles	
HP detergent injector Detergent injector for high and	2	4.637-032.0			1		Detergent injector for independent high and low pressure	
low pressure (without nozzles)	2	4.037 032.0					dosage. Maximum dosage about 15%.	
Detergent injector for high pressu-	3	4.637-033.0					Cleaning agent dosage at high pressure 3 - 5 %	
re Machine-specific nozzle kit with ord	lor no	2 6 2 7 1 7 0						
Nozzle insert trapezoidal thread	4 II	4.769-011.0	1		1	1	For HD/HDS 750 - 1000 I/h. Consists of nozzle insert + HP	
HDS-GER	-	4.705 011.0					power nozzle + union	
Nozzle insert with order no. 3.637-0	001							
Nozzle insert for Order No. 3.637- 001, high-pressure for machines up to 1100 l/h.	5	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.	
Low pressure for units rated up to	6	4.769-001.0					For low pressure with machines up to 1.100 l/h	
1100 l/h								
Rotary coupling Rotary coupling	7	4.111-021.0					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.	
Coupling								
Coupler -2xM22x1,5	8	4.111-037.0					Brass double connector for connecting and extending high- pressure hoses. With rubber protection. Connector: 2x M 22 x 1.5 m.	
Connector Nozzle connector/screw connector	9	4.111-022.0					Nozzle connector/screw connector for connecting high- pressure nozzles and accessories to the high-pressure trig- ger gun (with nozzle connector). Connectors: 1x M 22 x 1.5 and 1x M 18 x 1.5.	
Y distributor	10	4.111-024.0					Offers the option to connect two spray units to the machine	
Short spray unit	11	4.111-038.0					Installation on the high pressure outlet. For attaching high-pressure nozzles and accessory parts to HP trigger gun (with nozzle screws). Not compatible with	
							triple nozzles.	
Adapter EASY!Lock	12	4.111-029.0	1				Adapter 1 to connect the old base with the new base	
Adapter 1 M22AG-TR22AG Adapter 2 M22IG-TR22AG	12 13	4.111-029.0					Adapter 1 to connect the old hose with the new hose Adapter 2 to connect the old device with the new hose and	
	15						the old gun with the new hose	
Adapter 3 M22IG-TR22AG	14	4.111-031.0					Adapter 3 to connect the old gun with the new spray lance	
Adapter M22 - Swivel	15	4.111-032.0					and new servo regulator 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 connect	
Adapter 5 TR22IG-M22AG	16	4.111-033.0					tion. Adapter 5 to connect the new gun with the old spray lance and new servo regulator with the old spray lance	
Adapter 6 TR22IG-M22AG	17	4.111-034.0					Adapter 6 to connect the new device with the old hose and	-
							the old hose with the new gun	
Adapter 7 M18IG-TR20AG	18	4.111-035.0					Adapter 7 to connect the old spray lance with the new nozzle	
Adapter 8 TR20IG-M18AG	19	4.111-036.0					Adapter 8 to connect the new spray lance with the old	
■ Included in delivery. □ Ava			Extension hos				nozzle	



		Order Number		Price	Description	
ADAPTER for replacement TR22IG- M22AG Er	20	4.111-046.0			Rotatable adapter for connecting EASY!Force high-pressure gun and high-pressure hoses with M 22x1.5 connection	
Flue pipe						
Flue gas adapter	21	4.656-149.0			Flue gas adapter with draught damper for flue pipe connec-	
	22	4.656-080.0			tion (adapter for HDS burners for connection to a stack system).	Γ

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holes of 50 mm and more.

Nozzle for single-nozzle operation

Double handle. Precise control of the spray head

Screw plug for using a spray head with one nozzle

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

 Nozzle 090 for single nozzle operation HKF 50
 14
 6.415-447.0
 90

 Double handle for exact control of the spray head
 15
 2.863-036.0
 1

 Screw plug for using a spray head
 16
 5.411-061.0
 1

■ Included in delivery. □ Available accessories. ▲ Extension hose

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▲ Extension hose.

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□ Available accessories.

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■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Nozzle size		Price	Description
Wet blasting attachment (without n	nozzle)					·
Wet blasting attachment with flow control (without nozzles)	1	4.115-000.0				Paint, rust and scale removal made easy: Kärcher wet blas- ting attachment with flow control for adding blasting abrasi- ve to the high-pressure jet.
Wet blasting attachment without flow control (nozzles not included)	2	4.115-006.0				Paint, rust and scale removal made easy: Kärcher wet blas- ting attachment with flow control for adding blasting abrasi- ve to the high-pressure jet. Without flow control.
Nozzle pack for wet blasting attach	ment					
Nozzle pack TR wet jet set 0050	3	2.112-023.0	50			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
Boron carbide nozzle						•
Boron carbide nozzle, for machi- nes as of 1000 l/h	4	6.415-084.0	6 mm			In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.

 $\blacksquare$  Included in delivery.  $\hfill\square$  Available accessories.  $\hfill\blacksquare$  Extension hose.

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		Order Number			Price	Description	
Crane lifting kit			1				
Crane loading kit for HDS middle and super class	1	2.642-424.0				Effortless loading by crane.	
Transport eyelet attachment kit	2	2.644-053.0				Robust transport eyelet attachment kit for the secure fixing of HDS Medium and Super Class pressure washers during transport.	
Flame monitoring attachment kit							
ABS flame monitor for HDS M/S	3	2.641-796.0				More safety thanks to ABS HDS M/S flame monitoring sys- tem: A light sensor monitors the burner flame. The fuel supply cuts out automatically if the flame extinguishes.	
Accumulator kits							
Add-on accumulator for HDS M/S	4	2.641-803.0				The accumulator can be mounted on the HDS machine in order to dampen pressure surges, which conserves the machine's line system.	
Remote control set							
Remote control set	5	2.642-157.0				Remote control for the machines of the HDS Middle and Super class with the functions on/off, hot/cold water and cleaning agent on/off. For mounting to a wall.	
Coin-op remote control							
Coin-op remote control	6	2.642-158.0				Retrofittable coin acceptor for machines in the HDS Middle and Super class for self-service operation. For installation on the machine.	



			1			
		Order Number		Price	De- scripti- on	
Geka coupling						
With hose nozzle, R 3/4"	1	6.388-455.0			with hose liner	
With hose nozzle, R 1"	2	6.388-465.0			with hose barb	
Hose coupling	3	6.388-458.0			with female thread	
Suction filter						
Water filter	4	6.414-956.0			Suitable for ponds, storage tanks or similar, polyami- de filter casing, stainless steel strainer, 800 µm mesh, R 3/4" and R 1" connec- tion, without non- return valve	
Suction filter with check valve	5	4.730-012.0			Brass suction filter suitable for ponds, storage tanks, etc. With check valve.	

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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## HDS 7/10-4 M 1.077-901.0



				1			
		Order Number			Price	De- scripti- on	
Fine-mesh water filter		1	1	1			
Fine-mesh water filter with adap- ter	6	4.730-102.0				Fine- mesh water filter, 125 µm, max. tempe- rature 50°C. Protects the high- pressure cleaner from dirt particles contai- ned in the water. Water flow rate up to 1200 U/h. Connec- tion 3/4", with adapter, 1".	



		Order Number		Price	De- scripti- on	
Fine-mesh water filter, 100 µm, R 1"	7	2.638-270.0			Fine- mesh water filter, 100 µm, max. tempe- rature 60°C. Connects to high- pressure cleaner. Protects the high- pressure cleaner. Protects the high- pressure cleaner from dirt particles contai- ned in the water. Water flow rate up to 1200 l/h. Connec- tor 1".	
Water supply hose Water supply hose	8	4.440-038.0			NW 13 R1" / R 3/4", up to 30 °C	
	9	4.440-207.0			NW 19 R1" / R 3/4", up to 85 °C, for pick-up	

■ Included in delivery. 
□ Available accessories. ▲ Extension hose.

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## HDS 7/10-4 M 1.077-901.0



		Order Number		Price	De- scripti- on	
Backflow check valve		· ·				
Backflow preventer	10	2.641-374.0			To pre- vent deter- getting into the drinking water cycle in case of inlet at low- pressu- re hot water resistant up to 800 °C - tes- ted accor- ding to IEC 60335- 2-79 - integ- rated leakage protec-	



		Order Number	Flow rate		Price	Description	
Push-on washing brush						1	
Push-on wash brush, M 18 x 1.5	1	4.113-001.0				Push-on wash brush for universal use. Simply push on to lance. Connector: M 18 x 1.6.	
Rotating washing brush							
Rotating wash brush for < 800 l/h machines, nylon bristles	2	4.113-004.0	500-800 l/h			The rotating wash brush gently removes fine dust and traf- fic film from all surfaces. Temperature resistant up to $60^{\circ}$ C. (M 18 x 1.5, replaceable brush insert).	
Rotating wash brush for < 800 l/h machines, natural bristles	3	4.113-003.0	500-800 l/h			Driven by water stream. Gently removes fine dust and traffic film from any surface. Temperature resistant up to 60°C, M 18 x 1.5 (replaceable brush insert).	