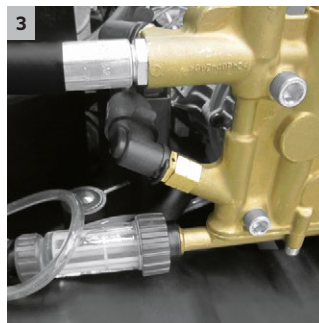




HDS 4.5/22-4 M Ea

The HDS 4.5/22-4 M with 4-pole, water-cooled electric motor (220 V), 2 cleaning agent tanks and service electronics is the most powerful hot water high-pressure cleaner in the middle class.



1 Efficiency

- In the 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.

2 Maximum efficiency

- Proven and highly efficient burner technology.
- Four-pole electric motor with three-piston axial pump.

3 Operational safety

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

4 Storage

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



HDS 4.5/22-4 M Ea

- Economical ecoefficiency mode
- 2 cleaning agent tanks
- Three-phase motor: water-cooled

Technical data

Order no.	1.071-908.0	
EAN code	886622014119	
Supply voltage	Ph / V / Hz	1 / 220 - 240 / 60
Flow rate	l/h	540 - 1020
Pressure	bar / MPa	30 - 152 / 3 - 15.2
Pressure	PSI	460 / 2250
Temperature (for supply 12 °C)	°C	80 / 155
Connection load	kW	7.1
Consumption of heating oil or gas at full load	kg/h	7.5
Consumption of heating oil in ecoefficiency mode	kg/h	6
Fuel tank	l	25
Number of simultaneous users		1
Portability		cart
Weight	kg	190
Dimensions (L x W x H)	mm	1330 x 750 x 1060

Equipment

Cleaning agent function	20 + 10 l tank	Service electronics with LED display	■
Spray gun	EASY!Force Advanced	2 cleaning agent tanks	■
High-pressure hose	m	Dry-running protection	■
Spray lance	mm		
Power nozzle	■		
Servo control	-		
ANTI!Twist	■		
Anti-twist system	-		
Tanks for cleaning agents, calcification protection and fuel that can be filled from the outside	■		
Control panel with display light	■		

■ Included in the scope of supply.

HDS 4.5/22-4 M EA

1.071-908.0

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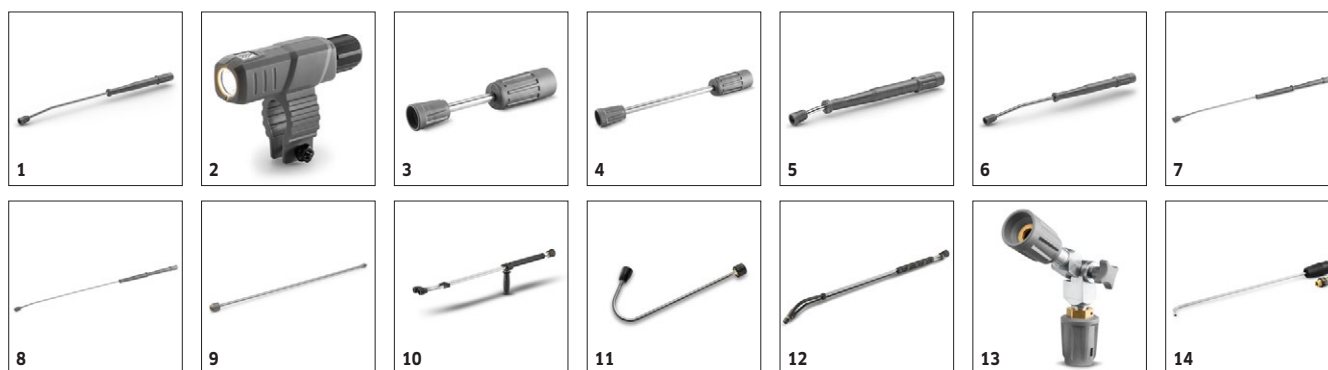


		Order no.	Flow rate				Price	Description	
Spray guns									
EASY!Force Advanced	1	4.118-005.0						Effortless, not energy-sapping: the EASY!Force high-pressure gun uses the recoil force of the high-pressure jet to reduce the holding force for the operator to zero.	■
EASY!Force conversion kit 1 - from 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.	□
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 coupling	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.	□
Male coupling	7	2.115-001.0						Hardened stainless steel male coupling for quick coupling 2.115-000. With M 22 x 1.5 external thread.	□

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

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		Order no.	Max. working pressure	Length			Price	Description	
Rotating spray lances									
Spray lance	1	4.112-000.0	300 bar	1050 mm				1050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	■
LED nozzle light	2	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	3	4.112-027.0	300 bar	250 mm				Spray lance, 250 mm, rotatable, ergonomic	□
	4	4.112-024.0	300 bar	400 mm				Spray lance, 400 mm, rotatable, ergonomic	□
	5	4.112-007.0	300 bar	600 mm				600 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
	6	4.112-006.0	300 bar	840 mm				850 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
	7	4.112-018.0	300 bar	1550 mm				1550 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
	8	4.112-021.0	300 bar	2050 mm				2050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Spray lance extender	9	4.112-048.0	300 bar	1000 mm				Spray lance extension with EASY!Lock connection. Length 1000 mm.	□
Double lance									
Double lance	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									
Spray lance for toilets and rain gutters	11	4.112-029.0						Stainless steel lance WC and gutter with nozzle insert. Specially shaped for effective and hygienic cleaning of gutters and toilets.	□
Flexible spray lance									
Flexible lance	12	4.112-035.0	210 bar	1050 mm				1050 mm flexible lance with variable bend from 20° to 140°, ideal for cleaning difficult to reach areas, e.g. gutters.	□
High pressure articulated joint	13	4.112-057.0	300 bar					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.	□
Gutter cleaner									
Gutter cleaning lance	14	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									
Underbody lance	15	4.112-032.0		700 mm				Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.	□
Additional handle									
Additional handle for EASY!Lock spray lances	16	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. Regularly changing your posture relieves the strain on your body, making work more relaxed. Thanks to the 360°-rotatable spray lance, the additional handle can simply be fully rotated whilst working for greater flexibility.	□

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0



1-4

		Order no.	Nozzle size				Price	Description	
Power nozzle spray angle 25°									
Power nozzle	1	2.113-061.0	65					Fan jet nozzle with 25° spray angle, suitable for large areas and removing stubborn dirt and stains.	■
HP nozzle spray angle 0°									
Power nozzle	2	2.113-037.0	75					High-pressure nozzle with powerful jet for extremely stubborn dirt.	□
Power nozzle spray angle 15°									
Power nozzle	3	2.113-049.0	70					Fan jet nozzle with 15° spray angle suitable for stubborn dirt.	□
Power nozzle spray angle 40°									
Power nozzle	4	2.113-056.0	75					Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.	□

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

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		Order no.	ID	Max. working pressure	Length	Price	Description	
Longlife 400 with unions on both sides								
High-pressure hose Longlife	1	6.110-038.0	DN 8	400 bar	10 m		Durable, 10 m long high-pressure hose (DN 8) with double steel core and EASY!Lock manual screw fitting on both sides and ANTI!Twist. Approved for 400 bar pressure.	■
	2	6.110-024.0	DN 8	400 bar	1.5 m		1.5 m short high-pressure hose (DN 8). Comfortable EASY!Lock manual screw fitting on both sides for robust and quick connections. Durable and designed for up to 400 bar pressure.	□
	3	6.110-023.0	DN 8	400 bar	30 m		Robust high-pressure hose with double steel core, ANTI!Twist and EASY!Lock manual screw fitting on both sides. Nominal size DN 8, 30 m long, for up to 400 bar pressure.	□
	4	6.110-027.0	DN 8	400 bar	20 m		High-pressure hose with ANTI!Twist, EASY!Lock manual screw fittings and double steel core. 20 m long, nominal size DN 8, EASY!Lock manual screw fitting on both sides.	□
	5	6.110-029.0	DN 8	400 bar	15 m		The double steel core ensures a particularly long life of this 15 m long high-pressure hose (DN 8), which is approved for pressures up to 400 bar.	□
Standard with unions on both sides								
High-pressure hose	6	6.110-031.0	DN 8	315 bar	10 m		High-pressure hose (DN 8) suitable up to 315 bar pressure. With innovative EASY!Lock manual screw fitting on both sides, ANTI!Twist and 10 m long.	□
	7	6.110-030.0	DN 8	315 bar	15 m		15 m long high-pressure hose, DN 8, with ANTI!Twist and time-saving EASY!Lock manual screw fitting on both sides.	□
	8	6.110-032.0	DN 8	315 bar	20 m		20 m long high-pressure hose (DN 8) equipped with the time-saving and robust EASY!Lock manual screw fitting on both sides. Approved for pressures up to 315 bar.	□
	9	6.110-014.0	DN 8	315 bar	30 m		Comfortable length (30 m) and innovative EASY!Lock manual screw fitting: High-pressure hose (DN 8) with ANTI!Twist for pressures up to 315 bar.	□
	10	6.110-042.0	DN 10	220 bar	15 m		Equipped with innovative EASY!Lock manual screw fitting and suitable for pressures up to 220 bar: 15 m long high-pressure hose (DN 10).	□
	11	6.110-043.0	DN 10	220 bar	20 m		20 m in length and the extremely time-saving and comfortable EASY!Lock manual screw fitting on both sides are some of the main features of this high-pressure hose (DN 10).	□
	12	6.110-044.0	DN 10	220 bar	25 m		Impressive values and basic equipment: 25 m long high-pressure hose (DN 10) developed for pressures up to 220 bar.	□
	13	6.110-045.0	DN 10	220 bar	40 m		40 m long high-pressure hose with EASY!Lock system for the time-saving manual screw connection (both sides). Nominal size (DN) 10, working pressure up to 220 bar.	□
	14	6.110-059.0	DN 12	210 bar	15 m		Designed for working pressures up to 250 bar: High-pressure hose (DN 12) with a length of 15 m. Has the comfortable EASY!Lock manual screw fitting on both sides.	□
	15	6.110-060.0	DN 12	210 bar	40 m		With EASY!Lock manual screw fitting and lots of room for manoeuvre thanks to 40 m in length: High-pressure hose (DN 12) with EASY!Lock manual screw fitting on both sides. Suitable for working pressures up to 250 bar.	□
	16	6.110-041.0	DN 10	220 bar	10 m		Impressive values and basic equipment: 25 m long high-pressure hose (DN 10) developed for pressures up to 220 bar.	□

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA 1.071-908.0

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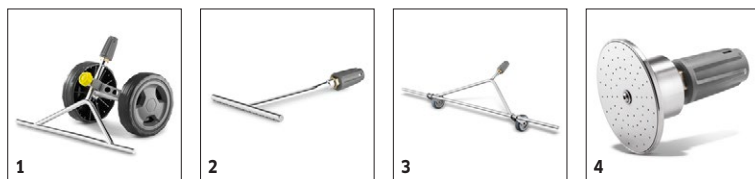
		Order no.	ID	Max. working pressure	Length	Price	Description	
Food industry version with unions on both sides								
High-pressure hose food grade	17	6.110-051.0	DN 8	250 bar	10 m		High-pressure hose (ID 6), 10 m long, with grey, non-marking outer covering. Approved for use in the food industry. With quick and robust EASY!Lock hand screw connection at both ends.	<input type="checkbox"/>
	18	6.110-052.0	DN 8	250 bar	20 m		Suitable for use in food industry: 20 m long high-pressure hose (ID 8) with grey, non-marking outer covering, AN-TITwist and EASY!Lock hand screw connections.	<input type="checkbox"/>
Longlife food design with screw connections at both ends								
High-pressure hose food grade Longlife	19	6.110-053.0	DN 8	400 bar	10 m		With blue, non-marking and animal fat resistant outer covering: durable high-pressure hose (ID 8), 10 m long, AN-TITwist and EASY!Lock hand screw connection at both ends.	<input type="checkbox"/>
Special hoses								
High-pressure hose curved	20	6.110-068.0	DN 8	400 bar	1.5 m		For connection to hose reels: high-pressure hose, with M 22 × 1.5 connection and curved EASY!Lock hand screw connection. 1.5 m long, suitable for up to 400 bar working pressure.	<input type="checkbox"/>

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

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		Order no.					Price	Description	
Weed control									
WR 50	1	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	2	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	3	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	4	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"/>

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0



		Order no.	Max. working pressure	Nozzle size			Price	Description	
Dirt blaster, large									
Dirt blaster	1	4.114-030.0	300 bar	70				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"/>
Angled vario nozzle 0-90°									
Angled Vario nozzle	2	4.113-008.0		55				Variable angle nozzle for spray angle adjustment from 0° to 90°. For easy adjustment to all kinds of soiling and surfaces.	<input type="checkbox"/>

■ Included in the scope of supply. ☐ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

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		Order no.						Price	Description	
Nozzle union										
Nozzle screws	1	4.112-011.0							Nozzle screws with protectors for high-pressure and power nozzles	<input type="checkbox"/>
Cleaning agent injector										
Cleaning agent injector for high and low pressure (without nozzles)	2	4.637-032.0							Detergent injector for independent high and low pressure dosage. Maximum dosage about 15%.	<input type="checkbox"/>
Cleaning agent injector for high pressure (without nozzle)	3	4.637-033.0							Cleaning agent dosage at high pressure 3 - 5 %	<input type="checkbox"/>
Machine-specific nozzle kit with order no. 4.637-033.0										
Nozzle kit 1000-1200 l/h	4	4.769-013.0							For HD/HDS 1000 - 1200 l/h. Consists of nozzle insert + HP power nozzle + union	<input type="checkbox"/>
Nozzle insert with order no. 4.637-032.0										
Nozzle insert up to 1,100 l/h - high pressure	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.	<input type="checkbox"/>
Nozzle insert up to 1,100 l/h - low pressure	6	4.769-001.0							For low pressure with machines up to 1.100 l/h	<input type="checkbox"/>
Rotary coupling										
Rotary coupling	7	4.111-021.0							Reliably prevents twisting of HP hoses. Connection Easy!Lock. Handle protection	<input type="checkbox"/>
Connector										
Screw socket for surface cleaners and Servo Control controllers	8	4.111-022.0							For attaching high-pressure nozzles and accessory parts to the HD trigger gun (with nozzle screws) - 1 x M 22 x 1.5/1 x M 18 x 1.5.	<input type="checkbox"/>
Y distributor	9	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	10	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"/>
EASY!Lock adapter										
Adapter 1 M22AG-TR22AG	11	4.111-029.0							Adapter 1 to connect the old hose with the new hose	<input type="checkbox"/>
Adapter 2 M22IG-TR22AG	12	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	13	4.111-031.0							Adapter 3 to connect the old gun with the new spray lance and new servo regulator	<input type="checkbox"/>
Adapter 4 TR22IG-D11	14	4.111-032.0							Adapter 4 to connect the new gun with the old swivel hose	<input type="checkbox"/>
Adapter 5 TR22IG-M22AG	15	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	16	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	17	4.111-035.0							Adapter 7 to connect the old spray lance with the new nozzle	<input type="checkbox"/>
Adapter 8 TR20IG-M18AG	18	4.111-036.0							Adapter 8 to connect the new spray lance with the old nozzle	<input type="checkbox"/>
Adapter hose extension 9 TR	19	4.111-037.0							Adapter 9 to connect the new hose with the new hose	<input type="checkbox"/>
Adapter 12 rotary coupling EASY!Lock 22 IG - M22 x 1.8 AG	20	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"/>
Flue pipe										
Flue gas adapter	21	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"/>
	22	4.656-080.0								<input type="checkbox"/>

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

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		Order no.	Max. working pressure	Nozzle size	Diameter	Price	Description	
Pipe cleaning hose, ID 6								
Pipe cleaning hose, ID 6, 10 m, max. 250 bar	1	6.110-046.0	250 bar				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, ID 6, 20 m, max. 250 bar	2	6.110-008.0	250 bar				The 20 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, ID 6, 30 m, max. 250 bar	3	6.110-047.0	250 bar				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"/>
Pipe cleaning nozzle								
Pipe cleaning dirt blaster D21/060	4	4.765-002.0		60	21 mm		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"/>
Pipe cleaning dirt blaster D30/060	5	4.765-005.0		60	30 mm			<input type="checkbox"/>
Pipe cleaning nozzle 120	6	5.763-089.0		120	24 mm		Pipe cleaning nozzle with 24 mm diameter. With 8 nozzles tilted back at a 30° angle.	<input type="checkbox"/>
Pipe cleaning nozzle	7	5.763-019.0		65	16 mm		16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	8	5.763-020.0		65	16 mm			<input type="checkbox"/>
	9	5.763-021.0		70	30 mm		30 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
Rotating pipe cleaning nozzle	10	6.415-440.0		65	16 mm		Rotating pipe cleaning nozzle with internal thread and four rotating jets for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
Drum and tank cleaning								
Add-on kit mud sucker	11	2.641-798.0					For connection to the high-pressure hose of Kärcher high-pressure cleaners: Powerful sludge suction cleaner for the retrofitting of high-pressure cleaners to dirt pumps.	<input type="checkbox"/>
Barrel and tank cleaning								
Barrel cleaner BC 14/12	12	2.112-020.0					The BC 14/12 barrel cleaner is a spray unit for the interior cleaning of containers and barrels - especially oak barrels with a capacity of between 225 and 600 litres.	<input type="checkbox"/>
HKF 50 spray head, brass								
HKF 50 M spray head	13	3.631-039.0					Constant rotational speed and lightweight design: The compact interior cleaning head for cleaning vats and tanks with openings of 50 mm or wider.	<input type="checkbox"/>
	14	3.631-058.0					Compact interior cleaning head for cleaning containers with openings of 50 millimetres or wider. The device stands out from the crowd with its constant rotational speed and lightweight design.	<input type="checkbox"/>
Nozzle kit for spray head HKF 50 (3.631-009.0 / 3.631-039.0)								
Nozzle 045 for 2-nozzle operation HKF 50	15	6.415-446.0		45			Nozzle for dual-nozzle operation	<input type="checkbox"/>
Nozzle 090 for 1-nozzle operation HKF 50	16	6.415-447.0		90			Nozzle for single-nozzle operation	<input type="checkbox"/>
Double grip for precise control of spray head	17	2.863-036.0					Double handle. Precise control of the spray head	<input type="checkbox"/>
Screw plug for using a spray head with one nozzle	18	5.411-061.0					Screw plug for using a spray head with one nozzle	<input type="checkbox"/>

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

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		Order no.	Flow rate	Nozzle size	Diameter	Price	Description	
Hard Surface Cleaner FRV 30								
Hose fastening attachment kit	1	2.642-528.0					Suction cup for fixing the suction hose to smooth surfaces.	<input type="checkbox"/>
Dirt trap attachment kit	2	2.642-532.0					Galvanised steel bucket for collecting coarse dirt and for fixing the suction hose in outside areas.	<input type="checkbox"/>
FRV 30 Me surface cleaner								
Hard Surface Cleaner FR 30 Me	3	2.111-013.0			300 mm		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"/>
Hard Surface Cleaner FR 50								
Surface Cleaner FR 50 Me	4	2.111-023.0			500 mm		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"/>
Machine-specific nozzle kits for FR								
Nozzle kit for FR	5	2.640-442.0	850 - 1100 l/h				Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (850 to 1100 l/h).	<input type="checkbox"/>
Machine-specific nozzle kits for FRV								
Nozzle kit for FRV	6	2.642-982.0		80			Machine-specific nozzle kit with Kärcher power nozzles and jet nozzle for FRV 30.	<input type="checkbox"/>
FRV 30 Me surface cleaner								
Extension hose FRV 30 Me and FRV 50 Me	7	4.441-040.0					5 m extension hose for FRV 30 Me. Includes connecting adapter.	<input type="checkbox"/>
FRV 30 Me Surface Cleaner	8	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"/>
Surface Cleaner FR 50 Me								
FRV 50 Me surface cleaner	9	2.111-024.0					Surface cleaning with automatic suction of the dirty water for very large surfaces - this means the FRV 50 Me. Hot water cleaning up to 85°C. The FRV 50 Me features a temperature-resistant 10 m polyurethane suction hose. Additional quality features are the non-marking steering rollers and double ceramic bearing. Machine-specific nozzle kit must be ordered separately. Max. 250 bar / 2000 l/h / 85°C.	<input type="checkbox"/>

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0

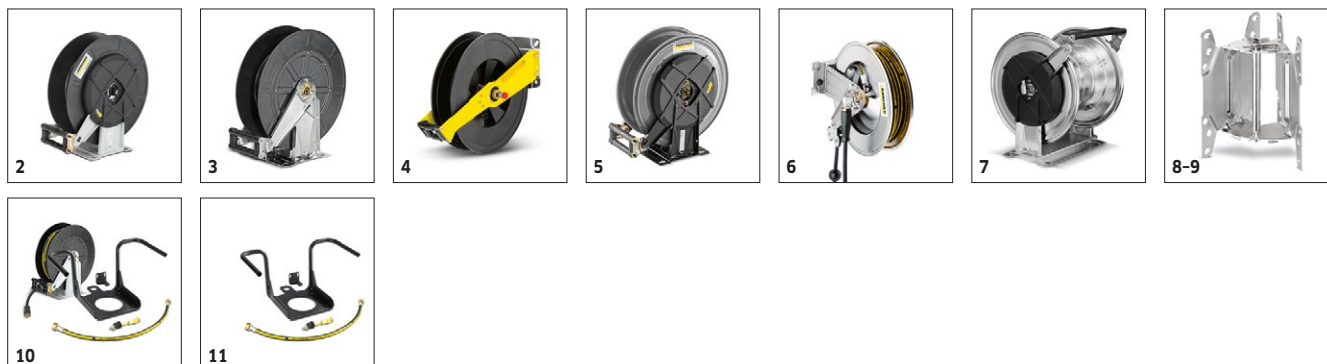
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		Order no.	Flow rate					Price	Description	
Cup foam lance										
Cup foam lance Basic 3	1	4.112-055.0	900 - 2500 l/h						High-quality, simple and durable: Basic 3 cup foam lance for high-pressure cleaners with a flow rate of 900-2500 l/h. Halves the cleaning agent consumption while maintaining optimum foam quality.	<input type="checkbox"/>
1-litre cleaning agent container for cup foam lance basic	2	5.071-414.0							For the quick change of the cleaning agent: Additional 1 litre cleaning agent container for basic foam lance (2.112-053.0, 2.112-054.0 and 2.112-055.0).	<input type="checkbox"/>
Cup foam lance Advanced	3	2.112-018.0							Short, handy foam lance with adjustable spray angle with 1 litre detergent tank. Ideal for cleaning cars due to its compact design.	<input type="checkbox"/>
1-litre cleaning agent container for cup foam lance advanced	4	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"/>
Cup foam lance Advanced 3	5	4.112-065.0	900 - 2500 l/h						Specially designed for use with aggressive cleaning agents: High-quality cup foam lance Advanced 3 with spray angle adjustment and Ecobras for high-pressure cleaners from Kärcher.	<input type="checkbox"/>
Cup foam lance DUO Advanced 3	6	4.112-069.0	900 - 2500 l/h						DUO Advanced 3 cup foam lance, designed for use with aggressive detergents. With instant switching to high-pressure cleaning, spraying angle adjustment and two-litre tank.	<input type="checkbox"/>
Inno Foam Kit										
Inno Foam Set with detergent injector	7	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 Set	8	2.112-008.0								<input type="checkbox"/>
Easy Foam Set										
Easy Foam Set with RM injector	9	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	10	2.112-011.0								<input type="checkbox"/>
Nozzle kits for Inno/Easy Foam Set										
Nozzle kit 110 for Inno / Easy Set 1,000-1,300 l/h	11	2.111-020.0	1000 - 1300 l/h						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"/>
Foam nozzle mounting kit										
Foam nozzle attachment kit	12	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"/>

■ Included in the scope of supply. □ Available accessories.

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		Order no.	Length					Price	Description	
Automatic, self-winding hose reels for wall mounting										
Automatic plastic hose reel incl. high-pressure hose	1	2.639-257.0	15 m						Spring-mounted and ready-to-use automatic hose reel for wall mounting. Simplifies handling of the high-pressure hose, shortens set-up times and increases occupational safety.	<input type="checkbox"/>
Automatic hose reel, powder-coated steel / plastic	2	6.392-074.0	20 m						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	3	6.392-083.0	20 m						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	4	6.392-106.0	20 m						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	5	6.392-105.0	20 m						Automatic hose reels provide the highest level of safety and convenience for winding and unwinding HP hoses. For example: order no. 6.110-011.0 (ID 8, 20 m, 315 bar) or order no. 6.110-028.0 (ID 8, 20 m, 400 bar Longlife).	<input type="checkbox"/>
Automatic hose reel, stainless steel, includes swivel holder	6	6.392-076.0	20 m						Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
Automatic stainless steel hose reel	7	6.392-442.0	40 m						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	8	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	9	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"/>
Automatic, self-winding hose reel attachment kit										
Attachment kit automatic hose reel HDS M/S	10	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	11	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"/>

■ Included in the scope of supply. □ Available accessories.

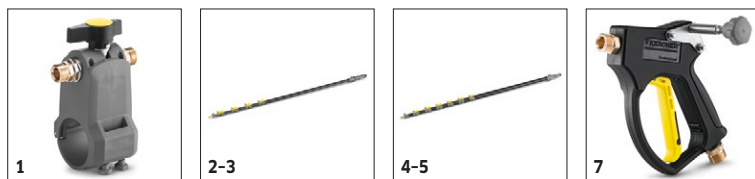
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		Order no.	Flow rate	Length of the product	Length	Price	De-scrip-tion	
Telescopic lances								
■ Included in the scope of supply. □ Available accessories.								

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		Order no.	Flow rate	Length of the product	Length	Price	Description	
Hoses								
iSolar HP hose 7	1	6.392-978.0			8.5 m			☐
iSolar HP hose 10	2	6.392-977.0			11.5 m			
iSolar HP hose 14	3	6.392-976.0			15 m			

■ Included in the scope of supply. ☐ Available accessories.

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		Order no.	Nozzle size				Price	Description	
Wet blasting attachment (without nozzle)									
Wet blasting attachment with flow control (without nozzles)	1	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)	2	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"/>
Boron carbide nozzle									
Boron carbide nozzle, for machines up to 1,000 l/h	3	6.415-084.0	6 mm					In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.	<input type="checkbox"/>

■ Included in the scope of supply.
 ☐ Available accessories.



		Order no.						Price	Description	
Attachment kit for transport										
Transport eyelet attachment kit	1	2.644-053.0							Robust transport eyelet attachment kit for the secure fixing of HDS Medium and Super Class pressure washers during transport.	<input type="checkbox"/>
Flame monitoring attachment kit										
Flame monitoring attachment kit for HDS Middle and Super Class	2	2.641-796.0							More safety thanks to ABS HDS M/S flame monitoring system: A light sensor monitors the burner flame. The fuel supply cuts out automatically if the flame extinguishes.	<input type="checkbox"/>
Accumulator kits										
Pressure tank attachment kit for HDS Middle and Super Class	3	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.	<input type="checkbox"/>
Remote control set										
Remote control attachment kit for HDS Middle and Super Class	4	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.	<input type="checkbox"/>
Coin-op remote control										
Coin remote control attachment kit for HDS Middle and Super Class	5	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.	<input type="checkbox"/>

■ Included in the scope of supply. □ Available accessories.

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		Order no.						Price	Description	
Geka coupling										
Geka connector with hose barb, R 3/4"	1	6.388-455.0							with hose liner	<input type="checkbox"/>
Geka connector with hose barb, R 1"	2	6.388-465.0							with hose barb	<input type="checkbox"/>
Geka connector with internal thread, R 1"	3	6.388-458.0							with female thread	<input type="checkbox"/>
Suction filter										
Water suction filter	4	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	5	4.730-012.0							Brass suction filter suitable for ponds, storage tanks, etc. With check valve.	<input type="checkbox"/>
Water fine filter										
Universal water fine filter, 25 µm	6	2.637-020.0							Water fine filter, mesh size 25 µm, max. temperature 50 °C. Protects the machine from small dirt particles in the water. Water volume up to 1200 l/h. 3/4" connection, with 1" adapter.	<input type="checkbox"/>
Water fine filter, with adapter	7	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"/>
Water fine filter, 100 µm, R 1"	8	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"/>
Water supply hose										
Water supply hose	9	4.440-207.0							NW 19 R1" / R 3/4", up to 85 °C, for pick-up	<input type="checkbox"/>
	10	4.440-270.0							NW 19 R1" / R1", up to 85 °C	<input type="checkbox"/>
Backflow check valve										
Backflow preventer	11	2.641-374.0							To prevent detergent getting into the drinking water cycle in case of inlet at low-pressure. - hot water resistant up to 80 °C - tested according to IEC 60335-2-79 - integrated leakage protection	<input type="checkbox"/>
Other HP Accessories										
Jet gun	12	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"/>

■ Included in the scope of supply. □ Available accessories.

HDS 4.5/22-4 M EA

1.071-908.0



		Order no.	Flow rate				Price	Description	
Push-on washing brush									
Push-on wash brush	1	4.113-001.0						For general-purpose cleaning of all surfaces. Clamps directly onto the spray lance. Connection M 18 x 1.5	<input type="checkbox"/>
Rotating washing brush									
Rotating wash brush for > 800 l/h machines, nylon bristles	2	4.113-002.0	800 - 1300 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).	<input type="checkbox"/>
Rotating wash brush for > 800 l/h machines, natural bristles	3	4.113-005.0	800 - 1300 l/h						<input type="checkbox"/>

■ Included in the scope of supply.
 ☐ Available accessories.