



HDS 4.5/22-4M Ea

The perfect machines for car dealers, building trade, agriculture and municipal use: our super class machines set standards in terms of technology, performance, ease of use, economy, service life and environmental protection.



1 Economical

- 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 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.

3 Storage

- Storage hooks for power cord and high-pressure hose.

4 Mobility concept

- „Jogger“ design with large rubber tyre wheels and swivel castors.
- Sturdy tie-down points for safe transit



HDS 4.5/22-4M Ea

- Economical ecoefficiency mode
- Two detergent tanks

Technical data

Water Volume	GPM	2 / 4,5
Operating pressure	PSI	460 / 2250
Connected load	A	30
Power rating	hp	9,5
Operating temp. max	°F	86
Weight	lbs	377
Dimensions (L x W x H)	in	52,5 × 29,5 × 41,5
Power supply	Ph / V / Hz	1 / 220-240 / 60

Equipment

Anti-twist system (AVS)	■	Steam mode	■
Low fuel cut-out	■	Power nozzle	■
Exhaust gas temperature limiter	■	Steam nozzle	■
Three piston axial pump	with ceramic piston	SDS system	■
Trigger gun	Easy-press trigger gun	Scale inhibitor	■
Infinitely variable pressure and water flow control on the unit	■	Control panel with indicator lamps	■
Pressure switch control	■	Two detergent tanks	■
Trigger gun with soft grip	■	Switch-CHEM-System	-
Integral fuel and detergent tank	■		
Dry run protection	■		
Low-speed 4-pole motor	■		

■ Included in delivery.



		Order no.	ID		Length	RRP	Description	
Standard with unions on both sides								
High-pressure hose packaged	1	6.391-342.0	ID 8	315 bar	10 m			▲
High-pressure hose, 15 m DN 8, 315 bar, including rotary coupling	2	6.390-010.0	ID 8	315 bar	15 m			▲
High-pressure hose, 20 m DN 8, 315 bar, extension	3	6.390-031.0	ID 8	315 bar	20 m			▲
High-pressure hose, 30 m DN 8, including rotary coupling	4	6.390-293.0	ID 8	315 bar	30 m			▲
High-pressure hose, 15 m DN 10, 220 bar, extension	5	6.390-023.0	ID 10	220 bar	15 m			▲
Longlife 400 with unions on both sides								
High-pressure hose Longlife 400, 10 m, DN 8, including rotary coupling	6	6.388-083.0	ID 8	400 bar	10 m			▲
High-pressure hose packaged	7	6.391-354.0	ID 8	400 bar	10 m			▲
High-pressure hose Longlife 400, 15 m, DN 8, including rotary coupling	8	6.389-709.0	ID 8	400 bar	15 m			▲
High-pressure hose Longlife 400, 20 m, DN 8, extension	9	6.390-027.0	ID 8	400 bar	20 m			▲
High-pressure hose Longlife 400, 30 m DN 8, including rotary coupling	10	6.390-294.0	ID 8	400 bar	30 m			▲
High-pressure hose 1.5 m, DN 8, including connectors	11	6.390-178.0	ID 8	400 bar	1,5 m			□
Food industry version with unions on both sides								
High-pressure hose, 10 m DN 8, suitable for food industry, extension piece	12	6.389-479.0	ID 8	250 bar	10 m			▲
High-pressure hose, 20 m DN 8, suitable for food industry, extension piece	13	6.389-581.0	ID 8	250 bar	20 m			▲
Longlife food design with screw connections at both ends								
High pressure hose food DN 8 / 10 m	14	6.391-864.0	ID 8	400 bar	10 m			▲
High-pressure hose food industry 400 bar, 20 m, DN 8, including rotary coupling	15	6.391-887.0	ID 8	400 bar	20 m			▲
Standard								
High-pressure hose, 15 m DN 8, AVS trigger gun connector	16	6.390-185.0	ID 8	315 bar	15 m			■
Longlife 400								
High-pressure hose packaged	17	6.391-351.0	ID 8	400 bar	10 m			□
High-pressure hose Longlife 400, 20 m DN 8, AVS trigger gun connector	18	6.390-208.0	ID 8	400 bar	20 m			□
Food industry version								
High-pressure hose, 10 m, DN 8, AVS trigger gun connection, food industry, grey	19	6.390-704.0	ID 8	250 bar	10 m			□
High-pressure hose, 20 m DN 8, AVS trigger gun connector, suitable for food industry, grey	20	6.390-705.0	ID 8	250 bar	20 m			□

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



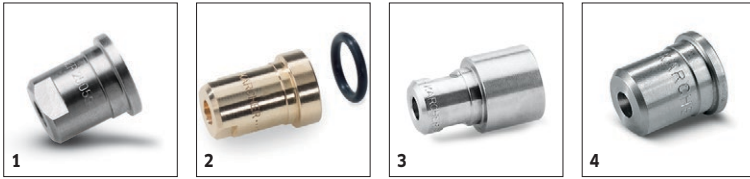
		Order no.	ID		Length	RRP	Description	
Longlife food design								
High-pressure hose Longlife 400, 10 m, DN 8, AVS trigger gun connection	21	6.391-885.0	ID 8	400 bar	10 m			<input type="checkbox"/>
High-pressure hose Longlife 400, 20 m, DN 8, AVS trigger gun connection	22	6.391-886.0	ID 8	400 bar	20 m			<input type="checkbox"/>
Special hoses								
High-pressure hose 1.5 m, DN 8, including connectors, outlet bend	23	6.388-886.0	ID 8	400 bar	1,5 m			<input type="checkbox"/>

Included in delivery.
 Available accessories.
 Extension hose.



		Order no.	Water Volume				RRP	Description	
Easy Press high-pressure trigger gun with holding force reduction (Kärcher patent)									
Easy press high-pressure trigger gun with softgrip	1	4.775-463.0							■
Trigger guns									
High end high-pressure trigger gun	2	4.775-823.0							□
Quick connect									
Quick coupling	3	6.401-458.0							□
Plug nipple	4	6.401-459.0							□

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



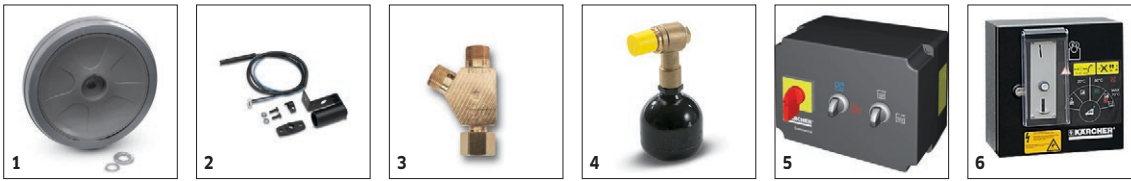
		Order no.	Nozzle size				RRP	Description	
Power nozzle spray angle 25°									
Power nozzle 25° spray angle	1	2.883-403.0	65						■
25° power nozzle for applying cleaning agent	2	2.884-521.0	250						□
Power nozzle spray angle 15°									
Power nozzle 15° spray angle	3	2.113-049.0	70						□
Power nozzle spray angle 40°									
Power nozzle 40° spray angle	4	2.884-526.0	75						□

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



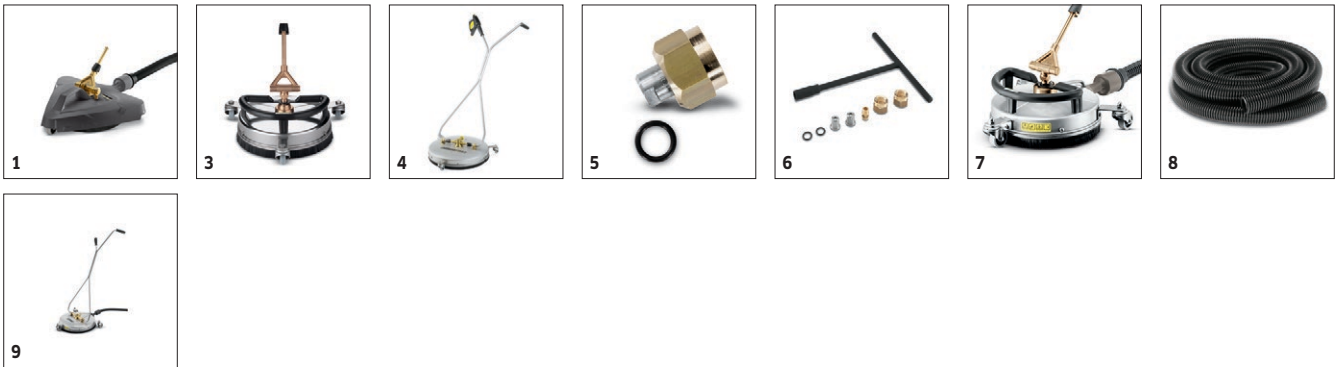
		Order no.		Length		RRP	Description	
Rotating spray lances								
1050 mm lance, rotatable, ergonomic	1	4.760-660.0	300 bar	1050 mm				■
Rotatable lance, 600 mm, ergonomic	2	4.760-664.0	300 bar	600 mm				□
Lance 850 mm, rotatable, ergonomic	3	4.760-663.0	300 bar	840 mm				□
Lance 1550 mm, rotatable, ergonomic	4	4.760-661.0	300 bar	1550 mm				□
Lance 2050 mm, rotatable, ergonomic	5	4.760-662.0	300 bar	2050 mm				□
Spray lances								
Anti-vibration lance	6	6.415-951.0	250 bar	950 mm				□
Spray lance								
Lance 250 mm, non-rotatable	7	4.760-667.0		250 mm				□
Double lance								
Double lance 960 mm	8	6.394-665.0	310 bar	960 mm				□
Variable pressure spray lance								
Variable pressure spray lance	9	4.760-362.0		670 mm				□
Variable pressure lance	10	4.760-230.0		1040 mm				□
Adapter for variable pressure spray lance								
Adapter for variable pressure lance	11	4.762-075.0						□
Angular spray lance								
WC and gutter lance	12	4.760-073.0						□
Flexible spray lance								
Flexible lance 1050 mm	13	6.394-654.0	210 bar	1050 mm				□
Telescopic spray lance								
Telescopic jet pipe	14	6.394-690.0	225 bar					□
Strap for telescopic spray pipe	15	6.373-987.0						□
Gutter cleaner								
Gutter cleaning lance	16	2.642-305.0						□
Undercarriage spray lance								
Underbody lance	17	4.760-245.0		700 mm				□
Weed control								
WR 50	18	2.643-758.0						□
WR 20	19	2.643-760.0						□

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



		Order no.					RRP	Description	
Grey wheel kit									
Grey wheel kit HDS M/S	1	2.641-975.0							<input type="checkbox"/>
Flame monitoring attachment kit									
ABS flame monitor for HDS M/S	2	2.641-796.0							<input type="checkbox"/>
Y distributor									
Y distributor	3	4.405-048.0							<input type="checkbox"/>
Accumulator kits									
Add-on accumulator for HDS M/S	4	2.641-803.0							<input type="checkbox"/>
Remote control set									
Remote control set	5	2.642-157.0							<input type="checkbox"/>
Coin-op remote control									
Coin-op remote control	6	2.642-158.0							<input type="checkbox"/>

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



		Order no.	Water Volume	Nozzle size	Diame- ter	RRP	Description	
Hard surface cleaner FRV 30								
FRV 30	1	2.642-999.0						<input type="checkbox"/>
Add-on kit rubber lip	2	2.642-910.0						<input type="checkbox"/>
FR 30 Me surface cleaner								
FR 30 ME surface cleaner	3	2.640-355.0			300 mm			<input type="checkbox"/>
Hard surface cleaner FR 50								
FR 50 surface cleaner	4	2.640-679.0			500 mm			<input type="checkbox"/>
Machine-specific nozzle kits for FR								
Nozzle kit for surface cleaners (type-specific) 850 - 1100 l/h	5	2.640-442.0	850-1100 l/h					<input type="checkbox"/>
Machine-specific nozzle kits for FRV								
Nozzle kit 050 - for FRV 30	6	2.642-433.0		50				<input type="checkbox"/>
FRV 30 Me surface cleaner								
FRV 30 ME	7	2.642-911.0						<input type="checkbox"/>
Suction hose FRV 30 me	8	4.441-040.0						<input type="checkbox"/>
Flächenreiniger FR 50 Me								
FRV 50 ME	9	2.643-598.0						<input type="checkbox"/>

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



		Order no.					RRP	Description	
Nozzle union									
Nozzle connector	1	5.401-210.0							<input type="checkbox"/>
Spacer (including nozzle union)									
Spacer (incl.nozzle union)	2	5.394-294.0							<input type="checkbox"/>
Coupling parts									
	3	6.987-705.0							<input type="checkbox"/>
Rotary coupling									
Rotary coupling	4	4.401-091.0							<input type="checkbox"/>
Coupling									
Coupler -2xM22x1,5	5	4.403-002.0							<input type="checkbox"/>
Connector									
Nozzle connector/screw connector	6	4.402-022.0							<input type="checkbox"/>
Adapters									
Adapter M22 - Swivel	7	4.424-004.0							<input type="checkbox"/>
Flue pipe									
Flue gas adapter	8	4.656-149.0							<input type="checkbox"/>
	9	4.656-080.0							<input type="checkbox"/>
Cleaning agent injector									
Injector complete HDS 10/20-4M	10	6.645-762.0							<input type="checkbox"/>
Add-on kit proportioning valve	11	6.500-000.0							<input type="checkbox"/>
Detergent injector for high pressure	12	3.637-170.0							<input type="checkbox"/>
Detergent injector for high and low pressure (without nozzles)	13	3.637-001.0							<input type="checkbox"/>
Machine-specific nozzle kit with order no. 3.637-170.0									
Device-specific nozzle kit with order no. 3.637-170, 750-1,000 l/h	14	4.769-047.0							<input type="checkbox"/>
Nozzle insert with order no. 3.637-001.0									
Nozzle insert for Order No. 3.637-001, high-pressure for machines up to 1100 l/h.	15	4.769-003.0							<input type="checkbox"/>
Nozzle insert with order no. 3.637-001, low pressure for devices up to 1,100 l/h	16	4.769-001.0							<input type="checkbox"/>

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



		Order no.	Nozzle size	Diame- ter	RRP	Description	
HKF 50 spray head, brass							
HKF 50 spray head , brass	1	3.631-039.0					<input type="checkbox"/>
Nozzle kit for spray head HKF 50 (3.631-009.0 / 3.631-039.0)							
Nozzle 030 for dual nozzle operation HKF 50	2	6.415-444.0	30				<input type="checkbox"/>
Cone for plugging into bungholes	3	4.132-002.0					<input type="checkbox"/>
Double handle for exact control of the spray head	4	2.863-036.0					<input type="checkbox"/>
Screw plug for using a spray head with one nozzle	5	5.411-061.0					<input type="checkbox"/>
Nozzle 070 for HKF 50	6	6.415-077.0	70				<input type="checkbox"/>
Pipe cleaning hose, ID 6							
Pipe cleaning hose	7	6.390-028.0	120 bar				<input type="checkbox"/>
Pipe cleaning hose, DN 6, 30 m	8	6.390-029.0	120 bar				<input type="checkbox"/>
Pipe cleaning hose, DN 6, 20 m, 220 bar	9	6.390-030.0	250 bar				<input type="checkbox"/>
Pipe cleaning nozzle							
Pipe cleaning dirt blaster D 25 / 060	10	6.415-945.0	60	25 mm			<input type="checkbox"/>
Pipe cleaning dirt blaster D 30 / 060	11	6.415-947.0	60	30 mm			<input type="checkbox"/>
Pipe cleaning dirt blaster D 35 / 060	12	6.415-949.0	60	35 mm			<input type="checkbox"/>
Pipe cleaning nozzle	13	5.763-015.0	55	16 mm			<input type="checkbox"/>
	14	5.763-016.0	60	16 mm			<input type="checkbox"/>
	15	5.763-017.0	50	30 mm			<input type="checkbox"/>
Rotating pipe cleaning nozzle	16	6.415-440.0	65	16 mm			<input type="checkbox"/>

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



		Order no.		Nozzle size			RRP	Description	
Angled vario nozzle 0-90°									
Variable angle nozzle 0-90°	1	4.763-058.0		55					<input type="checkbox"/>
Dirt blaster, large									
Dirt blaster - without changeover function	2	4.763-254.0	300 bar	70					<input type="checkbox"/>
Inaktiv									
Dirt blaster - changeover to low pressure cleaning agent intake	3	4.763-952.0	300 bar	70					<input type="checkbox"/>
Inaktiv									
Dirt blaster - changeover to fan jet	4	4.763-958.0	300 bar	70					<input type="checkbox"/>

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



		Order no.	Nozzle size				RRP	Description	
Wet blasting attachment (without nozzle)									
Wet blasting attachment with flow control (without nozzles)	1	4.762-010.0							<input type="checkbox"/>
Wet blasting attachment without flow control (nozzles not included)	2	4.762-022.0							<input type="checkbox"/>
Nozzle kits for wet jet unit									
Nozzle kit for wet blasting attachment 040	3	2.637-900.0	40						<input type="checkbox"/>
Boron carbide nozzle									
Boron carbide nozzle, for machines as of 1000 l/h	4	6.415-084.0	6 mm						<input type="checkbox"/>

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



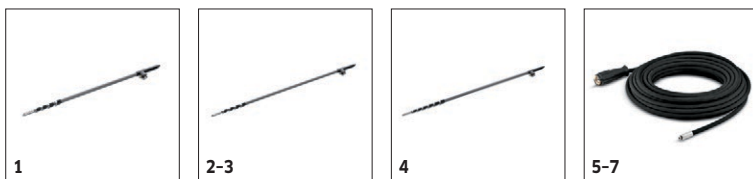
		Order no.	Water Volume				RRP	Description	
Cup foam lance									
Tank 1L	1	6.414-954.0							<input type="checkbox"/>
Cup foam lance	2	6.394-668.0	1200 l/h						<input type="checkbox"/>
Inno Foam Kit									
Inno foam kit	3	2.640-692.0							<input type="checkbox"/>
Easy Foam Set									
Easy foam set	4	2.640-693.0							<input type="checkbox"/>
Nozzle kits for Inno/Easy Foam Set									
Nozzle kit 110 Inno/Easy set 1000 - 1300 l/h	5	2.640-689.0	1000-1300 l/h						<input type="checkbox"/>
Foam nozzle mounting kit									
Foam nozzle kit	6	2.637-926.0							<input type="checkbox"/>

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



	Order no.	Length				RRP	Description		
Automatic, self-winding hose reels									
ABS holder, automatic hose drum HDS M/S	1	2.643-040.0							<input type="checkbox"/>
Swivel holder	2	2.639-931.0							<input type="checkbox"/>
Add-on kit hose reel plastics	3	6.392-975.0	20 m						<input type="checkbox"/>
Add-on kit hose reel	4	6.392-965.0	20 m						<input type="checkbox"/>
Hose reel, automatic, 20 m, painted	5	2.639-919.0	20 m						<input type="checkbox"/>
Hose reel, automatic, 20 m, stainless steel	6	6.391-421.0	20 m						<input type="checkbox"/>
ABS hose reel stainless steel	7	2.641-866.0	20 m						<input type="checkbox"/>
ABS automatic hose drum HDS M/S	8	2.642-957.0	20 m						<input type="checkbox"/>

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



		Order no.	Water Volume	Water feed temperature	Length	Length	RRP	Description	
Solar cleaning - telescopic lances									
iSolar TL 7 H (without hose)	1	4.107-054.0		60 °C					<input type="checkbox"/>
Telescopic rod complete 10m	2	4.107-053.0		60 °C					<input type="checkbox"/>
Telescopic rod complete 10m CFK	3	4.107-055.0		60 °C					<input type="checkbox"/>
Telescopic rod complete 14m	4	4.107-052.0		60 °C					<input type="checkbox"/>
Hose solar	5	6.392-978.0		155 °C					<input type="checkbox"/>
	6	6.392-977.0		155 °C					<input type="checkbox"/>
	7	6.392-976.0		155 °C					<input type="checkbox"/>

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



		Order no.	Water Volume			RRP	Description	
Push-on washing brush								
Push-on wash brush, M 18 x 1.5	1	4.762-016.0						<input type="checkbox"/>
Rotating washing brush								
Washing brush rotary	2	4.762-559.0	900-1300 l/h					<input type="checkbox"/>
	3	4.762-562.0	900-1300 l/h					<input type="checkbox"/>

Included in delivery.
 Available accessories.
 Extension hose.



		Order no.	Length	Diameter		RRP	Description	
Geka coupling								
Geka connector with hose barb, R 3/4"	1	6.388-455.0						<input type="checkbox"/>
Geka coupling with hose liner, 1"	2	6.388-465.0						<input type="checkbox"/>
Hose coupling	3	6.388-458.0						<input type="checkbox"/>
Suction filter								
Water filter	4	6.414-956.0						<input type="checkbox"/>
Suction filter with check valve	5	4.730-012.0						<input type="checkbox"/>
Water fine filter								
Fine-mesh water filter with adapter	6	4.730-102.0						<input type="checkbox"/>
Fine-mesh water filter, 100 µm, R 1"	7	2.638-270.0						<input type="checkbox"/>
Water supply hose								
Water supply hose	8	4.440-038.0	7,5 m					<input type="checkbox"/>
	9	4.440-207.0	7,5 m					<input type="checkbox"/>
	10	4.440-270.0	7,5 m					<input type="checkbox"/>

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