



HDS-E 8/16-4 M 12KW

The HDS-E 8/16-4 M with electric boiler is ideal where exhaust gases are undesired. Thanks to a unique type of boiler insulation and eco!efficiency mode, it is efficient and eco-friendly.



1 Highly energy efficient, for high cost savings

- Highly effective insulating material saves up to 40% energy in stand-by mode.
- Unique eco!efficiency mode.

3 New servo control function

- For delivering a significantly higher water temperature to the accessories.

2 Extremely high temperature cleaning

- Highly effective insulating material saves up to 40% energy in stand-by mode.
- Unique eco!efficiency mode.

4 Efficient boiler design

- Short heating up time.



HDS-E 8/16-4 M 12KW

■ Economical ecoefficiency mode

Technical data

Order Number	1.030-211.0	
EAN code	4039784729414	
Number of current phases	Ph	3
Frequency	Hz	50
Voltage	V	420
Flow rate	l/h	300-760
Pressure	bar / MPa	30-160 / 3-16
Max. temperature	°C	30 / 85
Power rating	kW	16,5
Weight	kg	108
Dimensions (L x W x H)	mm	1330 x 750 x 1060

Equipment

Trigger gun	Easy-press trigger gun	Two detergent tanks	■
Trigger gun with soft grip	■		
High-pressure hose	m	10 / ID 6, 250 bar	
Spray lance	mm	1050	
Power nozzle	■		
Servo Control	■		
Emission-free electric heating	■		
Anti-twist system (AVS)	■		
Control panel with indicator lamps	■		
Three piston axial pump	with ceramic piston		
Pressure switch control	-		

■ Included in delivery.

ACCESSORIES FOR HDS-E 8/16-4 M 12KW

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		Order Number	ID	Max. working pressure	Length	Price	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		With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose, 20 m DN 8, 315 bar, extension	3	6.390-031.0	ID 8	315 bar	20 m		With M 22x1.5 union at both ends and anti-kink protection ID 8/155°C/315 bar	▲
High-pressure hose, 30 m DN 8, including rotary coupling	4	6.390-293.0	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	6.390-023.0	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, 15 m DN 10, extension, not rotatable	6	6.391-512.0	ID 10	220 bar	15 m		with union on both sides, M 22 x 1.5 with anti-kink protection. NW 10/155°C/220 bar	▲
High-pressure hose, 20 m DN 10, 220 bar, extension	7	6.390-726.0	ID 10	220 bar	20 m			▲
High-pressure hose, 25 m DN 10, extension, not rotatable	8	6.391-513.0	ID 10	220 bar	25 m			▲
Hose assembly premium DN10 22MPa 40m	9	6.391-510.0	ID 10	220 bar	40 m			▲
Hose assembly premium DN12 21MPa 15m	10	6.391-849.0	ID 12	250 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 protection.	▲
Hose assembly premium DN12 21MPa 40m	11	6.391-865.0	ID 12	250 bar	40 m			▲
Longlife 400 with unions on both sides								
High-pressure hose 1.5 m, DN 8, including connectors	12	6.390-178.0	ID 8	400 bar	1.5 m		1.5 m high-pressure hose (DN 8, M 22 x 1.5) with kink protection and connectors at both ends. For connecting to hose reels with appropriate connector (M 22 x 1.5).	▲
High-pressure hose Longlife 400, 10 m, DN 8, including rotary coupling	13	6.388-083.0	ID 8	400 bar	10 m		10 m high-pressure hose Longlife 400 (DN 8) with rotary coupling, two layer high-strength steel wire reinforced. Connectors at both ends, M 22 x 1.5, with kink protection.	▲
High-pressure hose packaged	14	6.391-354.0	ID 8	400 bar	10 m			▲
High-pressure hose Longlife 400, 15 m, DN 8, including rotary coupling	15	6.389-709.0	ID 8	400 bar	15 m		With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose Longlife 400, 20 m, DN 8, extension	16	6.390-027.0	ID 8	400 bar	20 m		with rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose Longlife 400, 30 m DN 8, including rotary coupling	17	6.390-294.0	ID 8	400 bar	30 m		With rotary coupling, 2 x M 22 x 1.5	▲
Food industry version with unions on both sides								
High-pressure hose, 10 m ID 8, suitable for food industry, extension piece	18	6.389-479.0	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, extension piece	19	6.389-581.0	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. Connectors at both ends, M 22 x 1.5, with kink protection. NW 8/155°C/250 bar.	▲
Longlife food industry version with unions on both sides								
High pressure hose food DN 8 / 10 m	20	6.391-864.0	ID 8	400 bar	10 m		Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding material. With rotary coupling, 2 x M 22 x 1,5	▲
High-pressure hose food industry 400 bar, 20 m, DN 8, including rotary coupling	21	6.391-887.0	ID 8	400 bar	20 m			▲

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

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	Order Number	ID	Max. working pressure	Length	Price	Description	
Standard							
High-pressure hose, 10 m DN 6, AVS trigger gun connector	22	6.391-238.0	ID 6	250 bar	10 m	10 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 6/155°C/250 bar.	■
HD-Schlauch DN 6, 15m	23	6.391-394.0	ID 6	250 bar	15 m		□
High-pressure hose, 10 m, DN 6, 300 bar, AVS trigger gun connection	24	6.391-875.0	ID 6	300 bar	10 m	With patented AVS connection in the trigger gun (pivot-mounted) and hand screw union. M 22 x 1.5 with anti-kink protection. NW 6/155°C/300 bar	□
High-pressure hose, 10 m DN 8, AVS trigger gun connector	25	6.390-025.0	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 manual coupling. Further data: DN 8/155°C/315 bar.	□
High-pressure hose, 15 m DN 8, AVS trigger gun connector	26	6.390-185.0	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 manual coupling. Further data: DN 8/155°C/315 bar.	□
High-pressure hose, 20 m DN 8, AVS trigger gun connector	27	6.390-171.0	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 manual coupling. Further data: DN 8/155°C/315 bar.	□
Longlife 400							
High pressure hose DN 6, 10 m, Longlife	28	6.391-882.0	ID 6	400 bar	10 m	With patented AVS connection in the trigger gun (pivot-mounted).	□
High-pressure hose packaged	29	6.391-351.0	ID 8	400 bar	10 m		□
High-pressure hose Longlife 400, 20 m DN 8, AVS trigger gun connector	30	6.390-208.0	ID 8	400 bar	20 m	20 m high-pressure hose Longlife 400 (DN 8) with patented (rotating) AVS trigger gun connector and manual coupling. Two layer high-strength steel wire reinforced.	□
Food industry version							
High-pressure hose 15 m ID 6, AVS trigger gun connector 11 mm, suitable for food industry, grey	31	6.391-654.0	ID 6	250 bar	15 m	15 m high-pressure hose (DN 6) with patented (rotating) AVS trigger gun connector. Non-discolouring outer layer for use in the food industry. DN 6/155°C/250 bar.	□
High-pressure hose, 10 m, DN 8, AVS trigger gun connection, food industry, grey	32	6.390-704.0	ID 8	250 bar	10 m	Food industry version, AVS connection in the trigger gun. grey NW 8/155 °C/250 bar	□
High-pressure hose, 20 m ID 8, AVS trigger gun connector, suitable for food industry, grey	33	6.390-705.0	ID 8	250 bar	20 m	20 m high-pressure hose (DN 8) with patented (rotating) AVS trigger gun connector. Non-discolouring outer layer for use in the food industry. NW 8/155°C/250 bar.	□
Longlife food industry version							
High-pressure hose Longlife 400, 15 m, ID 6, AVS trigger gun connection	34	6.391-888.0	ID 6	400 bar	15 m	Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding material. With patented AVS connection in the pistol (pivot mounted)	□
High-pressure hose Longlife 400, 10 m, ID 8, AVS trigger gun connection	35	6.391-885.0	ID 8	400 bar	10 m		□
High-pressure hose Longlife 400, 20 m, ID 8, AVS trigger gun connection	36	6.391-886.0	ID 8	400 bar	20 m		□

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

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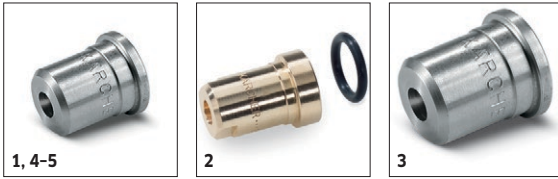


		Order Number	Flow rate				Price	Description	
Easy Press high-pressure gun with holding power reduction (Kärcher patent)									
Easy press high-pressure trigger gun with softgrip	1	4.775-463.0						Easy press high-pressure trigger gun with softgrip. For high-pressure hoses DN 6 and DN 8 with 11 mm swivel diameter.	■
Servo Control									
Servo control	2	4.775-470.0	750-1100 l/h						■
Trigger guns									
High end high-pressure trigger gun	3	4.775-823.0							□
Quick connect									
Quick coupling	4	6.401-458.0						For quick change of different spray lances and accessories. Optimum adaption to Kärcher accessories, especially for connection between trigger gun and spray lance. With M22 x 1,5 female.	□
Plug nipple	5	6.401-459.0						Hardened stainless steel nipple for quick coupling 6.401-458. With M22 x 1,5 male.	□

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

ACCESSORIES FOR HDS-E 8/16-4 M 12KW

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		Order Number	Nozzle size				Price	Description	
Power nozzle spray angle 25°									
Power nozzle spray angle 25°	1	2.883-398.0	45					Fan jet nozzle with 25° spray angle, suitable for large areas and removing stubborn dirt and stains.	■
	2	2.884-521.0	250						□
HP nozzle spray angle 0°									
High-pressure nozzle spray angle 0°	3	2.884-534.0	45					High-pressure nozzle with powerful jet for extremely stubborn dirt.	□
Power nozzle spray angle 15°									
Power nozzle spray angle 15°	4	2.883-389.0	45					Fan jet nozzle with 15° spray angle suitable for stubborn dirt.	□
Power nozzle spray angle 40°									
Power nozzle spray angle 40°	5	2.884-523.0	45					Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.	□

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

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		Order Number	Max. working pressure	Length		Price	Description	
Rotating spray lances								
1050 mm lance, rotatable, ergonomic	1	4.760-660.0	300 bar	1050 mm			1050 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	■
Rotatable lance, 600 mm, ergonomic	2	4.760-664.0	300 bar	600 mm			600 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Lance 850 mm, rotatable, ergonomic	3	4.760-663.0	300 bar	840 mm			850 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Lance 1550 mm, rotatable, ergonomic	4	4.760-661.0	300 bar	1550 mm			1550 mm stainless steel lance (manual coupling) with ergonomic handle for ease of use and protection. Rotatable 360° under pressure.	□
Lance 2050 mm, rotatable, ergonomic	5	4.760-662.0	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 lances								
Anti-vibration lance	6	6.415-951.0	250 bar	950 mm			The spring-loaded 360° loop handle significantly reduces the vibrations on the spray lance, reducing the physical burden on the user, e.g. when working with the dirt blaster.	□
Spray lance								
Lance 250 mm, non-rotatable	7	4.760-667.0		250 mm			250 mm stainless steel lance. With manual coupling. Non-rotatable.	□
Double lance								
Double lance 960 mm	8	6.394-665.0	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	9	4.760-073.0					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 1050 mm	10	6.394-654.0	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.	□
Telescopic spray lance								
Restraint belt for telescopic jet pipe	11	6.373-987.0					Convenient strap for relief when working with the telescopic spray lance (6.394-690). The burden is optimally distributed on the body and longer periods of use are possible.	□
Gutter cleaner								
Gutter cleaning lance	12	2.642-305.0					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.	□
Undercarriage spray lance								
Underbody lance	13	4.760-245.0		700 mm			Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.	□

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

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		Order Number					Price	Description	
Crane lifting kit									
Crane loading kit for HDS middle and super class	1	2.642-424.0						Effortless loading by crane.	<input type="checkbox"/>
Grey wheel kit									
Grey wheel kit HDS M/S	2	2.641-975.0							<input type="checkbox"/>

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

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		Order Number	Flow rate	Nozzle size	Diame- ter	Price	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					For smooth floors indoors. The squeegee increases the suction performance of the FRV 30 and minimises the amount of water remaining. This means the floor is dry in just a few minutes.	<input type="checkbox"/>
Extension hose 5 m	3	4.440-939.0					5m extension hose for FRV 30. Connection sleeve included.	<input type="checkbox"/>
Add-on kit hose attachment	4	2.642-528.0						<input type="checkbox"/>
Add-on kit dirt trap	5	2.642-532.0						<input type="checkbox"/>
Hard surface cleaner FR 30								
FR 30	6	2.642-997.0			300 mm			<input type="checkbox"/>
Hard surface cleaner FR 30 ME								
FR 30 ME surface cleaner	7	2.640-355.0			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								
FR 50 surface cleaner	8	2.640-679.0			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 kit for FR								
Nozzle kit for surface cleaners (type-specific) 650 - 850 l/h	9	2.639-187.0	650-850 l/h				Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (650 to 850 l/h).	<input type="checkbox"/>
Machine-specific nozzle kits for FRV								
Nozzle kit 045 for FRV 30	10	2.642-432.0		45				<input type="checkbox"/>
Adapter for home & garden pressure washers								
Adapter FR mit Consumer-Geräte	11	4.762-402.0						<input type="checkbox"/>
Hard surface cleaner FRV 30 Me								
FRV 30 ME	12	2.642-911.0						<input type="checkbox"/>
Suction hose FRV 30 me	13	4.441-040.0						<input type="checkbox"/>
Surface Cleaner FR 50 Me								
	14	2.643-598.0						<input type="checkbox"/>

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

ACCESSORIES FOR HDS-E 8/16-4 M 12KW 1.030-211.0



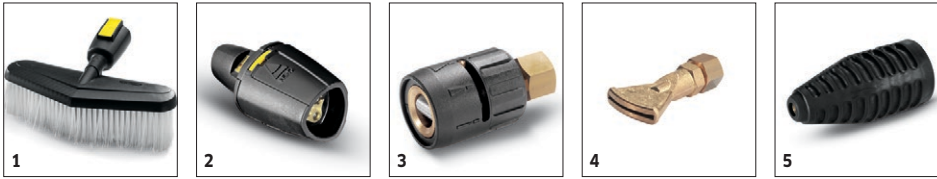
										Order Number	Price	Description	
Nozzle union													
Nozzle connector	1	5.401-210.0										For protecting and connecting Kärcher power nozzles to spray lances (M 18 x 1.5 IG).	<input type="checkbox"/>
Spacer (including nozzle union)													
Spacer (incl. nozzle union)	2	5.394-294.0										Guarantees constant safety clearance, e.g. for tyres and bodywork. Helps prevent damage to sensitive surfaces. Mounts directly to lance.	<input type="checkbox"/>
Coupling parts													
	3	6.987-705.0											<input type="checkbox"/>
Rotary coupling													
Rotary coupling	4	4.401-091.0										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.	<input type="checkbox"/>
Coupling													
Coupler -2xM22x1,5	5	4.403-002.0										Brass double connector for connecting and extending high-pressure hoses. With rubber protection. Connector: 2x M 22 x 1.5 m.	<input type="checkbox"/>
Connector													
Nozzle connector/screw connector	6	4.402-022.0										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"/>
Adapter													
Adapter M22 - Swivel	7	4.424-004.0										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 connection.	<input type="checkbox"/>
HP detergent injector													
Detergent injector for high pressure	8	3.637-170.0										Cleaning agent dosage at high pressure 3 - 5 %	<input type="checkbox"/>
Detergent injector for high and low pressure (without nozzles)	9	3.637-001.0										Detergent injector for independent high and low pressure dosage. Maximum dosage about 15%.	<input type="checkbox"/>
Machine-specific nozzle kit with order no. 3.637-170													
Machine-specific nozzle kit with order no. 3.637-170.0 750-1000 l/h	10	4.769-047.0										For HD/HDS 750 - 1000 l/h. Consists of nozzle insert + HP power nozzle + union	<input type="checkbox"/>
Nozzle insert with order no. 3.637-001													
Nozzle insert for Order No. 3.637-001, high-pressure for machines up to 1100 l/h.	11	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"/>
Low pressure for units rated up to 1100 l/h	12	4.769-001.0										For low pressure with machines up to 1.100 l/h	<input type="checkbox"/>

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

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		Order Number	Max. working pressure	Nozzle size		Price	Description	
Triple nozzles								
Triple jet nozzle 045	1	4.767-153.0	300 bar	45				<input type="checkbox"/>
Triple nozzle, touchless changeover								
Triple nozzle, touchless changeover	2	4.767-002.0		45			Triple nozzle with high-pressure pencil jet (25°) and low-pressure fan jet (40°). Fast and easy jet changeover by turning the nozzle.	<input type="checkbox"/>
Angle vario nozzle 0°-90°								
Spezial nozzle 0005	3	4.763-039.0		50			Variable angle nozzle for spray angle adjustment from 0° to 90°. For easy adjustment to all kinds of soiling and surfaces.	<input type="checkbox"/>
Dirt Blaster, small								
Dirt blaster	4	4.767-100.0	180 bar	45			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. 180 bar, 18 MPa, 60°C.	<input type="checkbox"/>
Dirt blaster, large								
Dirt blaster - without changeover function	5	4.763-988.0	300 bar	45			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"/>

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

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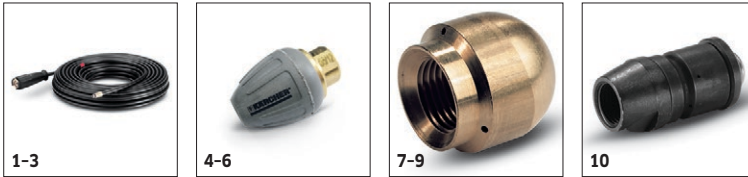


		Order Number	Nozzle size				Price	Description	
Wet blasting attachment (without nozzle)									
Wet blasting attachment with flow control (without nozzles)	1	4.762-010.0						Paint, rust and scale removal made easy: Kärcher wet blasting attachment with flow control for adding blasting abrasive to the high-pressure jet.	<input type="checkbox"/>
Wet blasting attachment without flow control (nozzles not included)	2	4.762-022.0						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"/>
Nozzle pack for wet blasting attachment									
Nozzle kit for wet blasting attachment 045	3	2.637-901.0	45					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 4.762-010/-022.	<input type="checkbox"/>
Boron carbide nozzle									
Boron carbide nozzle, for machines 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.	<input type="checkbox"/>

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

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		Order Number	Max. working pressure	Nozzle size	Diameter		Price	Description	
Pipe cleaning hose, ID 6									
Pipe cleaning hose	1	6.390-028.0	120 bar					20 m flexible high-pressure hose (DN 6) for cleaning pipes (threaded connection for R 1/8 nozzle).	<input type="checkbox"/>
Pipe cleaning hose, DN 6, 30 m	2	6.390-029.0	120 bar					30 m flexible high-pressure hose (DN 6) for cleaning pipes (threaded connection for R 1/8 nozzle).	<input type="checkbox"/>
Pipe cleaning hose, DN 6, 20 m, 220 bar	3	6.390-030.0	250 bar					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"/>
Pipe cleaning nozzle									
Drain cleaning dirt blaster D 25/060	4	6.415-945.0		60	25 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"/>
Drain cleaning dirt blaster D 30/060	5	6.415-947.0		60	30 mm				<input type="checkbox"/>
Drain cleaning dirt blaster D 35/060	6	6.415-949.0		60	35 mm				<input type="checkbox"/>
Pipe cleaning nozzle	7	5.763-015.0		55	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	5.763-016.0		60	16 mm				<input type="checkbox"/>
	9	5.763-017.0		50	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	6.415-428.0		50	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"/>

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

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		Order Number	Flow rate				Price	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					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"/>
Inno Foam Set									
Inno foam kit	3	2.640-692.0						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"/>
Easy Foam Set									
Easy foam set	4	2.640-693.0						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"/>
Nozzle kits for Inno/Easy Foam Set									
Nozzle kit 090 Inno/Easy kit 700 - 1000 l/h	5	2.640-688.0	700-1000 l/h					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"/>
Foam nozzle mounting kit									
Foam nozzle kit	6	2.637-926.0						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 delivery. □ Available accessories. ▲ Extension hose.

ACCESSORIES FOR HDS-E 8/16-4 M 12KW

1.030-211.0

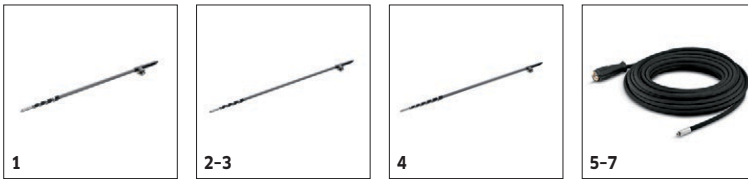


		Order Number	Length				Price	Description	
Automatic, self-winding hose reels									
Swivel holder	1	2.639-931.0						Swivel holder for automatic hose reel wall mounting. For maximum action radius and flexibility of high-pressure hose. Rotatable 120°. Galvanised steel.	<input type="checkbox"/>
ABS wall fastening stainless steel	2	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"/>
Add-on kit hose reel plastics	3	6.392-975.0	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"/>
Add-on kit hose reel	4	6.392-965.0	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"/>
Hose reel, automatic, 20 m, painted	5	2.639-919.0	20 m					Automatic hose reel of durable plastic. Painted steel bracket. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
Hose reel, automatic, 20 m, stainless steel	6	6.391-421.0	20 m					Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
ABS hose reel stainless steel	7	2.641-866.0	20 m					High-grade, automatic steel hose reel. Especially suitable for use in the food industry. The material and finish provide for a corrosion-resistant, watertight capsuled sprong drive. Connection for HP hoses with nipple.	<input type="checkbox"/>

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

ACCESSORIES FOR HDS-E 8/16-4 M 12KW

1.030-211.0



		Order Number	Flow rate	Water feed temperature	Length	Length	Price	Description	
Solar cleaning - telescopic lances									
iSolar TL 7 H (without hose)	1	4.107-054.0		max. 60 °C				Telescopic rod made from a carbon/fibreglass mixture for maximum rigidity with minimum weight. With 7.2 m max. reach and practical quick-release couplings for easy extension and retraction.	<input type="checkbox"/>
Telescopic rod complete 10m	2	4.107-053.0		max. 60 °C				Telescopic rod made from a carbon/fibreglass mixture for maximum rigidity with minimum weight. With 10 m max. reach and practical quick-release couplings for easy extension and retraction.	<input type="checkbox"/>
Telescopic rod complete 10m CFK	3	4.107-055.0		max. 60 °C					<input type="checkbox"/>
Telescopic rod complete 14m	4	4.107-052.0		max. 60 °C				Full carbon telescopic rod for maximum rigidity with minimal weight. With 14 m max. reach and practical quick-release couplings for easy extension and retraction.	<input type="checkbox"/>
Hose solar	5	6.392-978.0		max. 155 °C				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"/>
	6	6.392-977.0		max. 155 °C				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"/>
	7	6.392-976.0		max. 155 °C				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"/>

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

ACCESSORIES FOR HDS-E 8/16-4 M 12KW

1.030-211.0



		Order Number	Flow rate				Price	Description	
Push-on washing brush									
Push-on wash brush, M 18 x 1.5	1	4.762-016.0						Push-on wash brush for universal use. Simply push on to lance. Connector: M 18 x 1.6.	<input type="checkbox"/>
Rotating washing brush									
	2	4.762-561.0	500-800 l/h						<input type="checkbox"/>
	3	4.762-560.0	500-800 l/h						<input type="checkbox"/>

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

ACCESSORIES FOR HDS-E 8/16-4 M 12KW

1.030-211.0

KÄRCHER



		Order Number	Length	Diameter		Price	Description	
Geka coupling								
With hose nozzle, R 1/2"	1	6.388-461.0					with hose liner	<input type="checkbox"/>
With hose nozzle, R 3/4"	2	6.388-455.0						<input type="checkbox"/>
With hose nozzle, R 1"	3	6.388-465.0						<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					Brass suction filter suitable for ponds, storage tanks, etc. With check valve.	<input type="checkbox"/>
Fine-mesh water filter								
Fine-mesh water filter with adapter	6	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 supply hose								
Water supply hose	7	4.440-038.0	7,5 m				NW 13 R1" / R 3/4", up to 30 °C	<input type="checkbox"/>
	8	4.440-207.0	7,5 m				NW 19 R1" / R 3/4", up to 85 °C, for pick-up	<input type="checkbox"/>
Backflow check valve								
Backflow preventer	9	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"/>

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