

HD 9/23 De EASY!

For independent use in areas with poor infrastructure: the HD 9/23 De diesel-powered, mobile cold water high-pressure cleaner with 230 bar pressure for high cleaning performance.



1 Maximum independence

2 Optimum ease of use

HD 9/23 De EASY!, 1.187-907.0, 2017-03-09

TECHNICAL DATA AND EQUIPMENT

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HD 9/23 De EASY!

■ Automatic speed reduction

Technical data

Order No.		1.187-907.0
EAN code		4054278210582
Operating pressure	**bar / MPa**	40-230 / 4-23
Flow rate	**l/h**	400-930
Max. feed temperature	**°C**	max. 60
Engine type		L 100 N / Diesel
Power rating	**kW / hp**	7,4 / 10
Weight	**kg**	108
Dimensions (L x W x H)	**mm**	870 × 725 × 1170

Equipment

Trigger gun		EASY!Force Advanced
High-pressure hose	**m**	15 / ID 8, 315 bar
Spray lance	**mm**	1050
Anti-twist system		-
Infinitely variable pressure and water flow control on the unit		■
Electric starter		■
Servo Control		-

■ **Included in delivery.**

ACCESSORIES FOR HD 9/23 DE EASY!
1.187-907.0

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		Order No.	ID	Max. working 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 manual coupling. Further data: DN 8/155°C/315 bar.	▲
High-pressure hose, 20 m DN 8, AVS trigger gun connector	2	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 manual coupling. Further data: DN 8/155°C/315 bar.	▲
High-pressure hose, 15 m DN 8, AVS trigger gun connector	3	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 manual coupling. Further data: DN 8/155°C/315 bar.	■
Longlife 400 with unions on both sides									
High-pressure hose Longlife 400, 30 m ID 8, including rotary coupling	4	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, ID 8, extension	5	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, ID 8, including rotary coupling	6	6.110-029.0	ID 8	400 bar	15 m			With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose 1.5 m, ID 8, including connectors	7	6.110-024.0	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).	□
	8	6.110-069.0	ID 8	400 bar	1,5 m				□
High-pressure hose packaged	9	6.110-038.0	ID 8	400 bar	10 m				□
Longlife food industry version with unions on both sides									
High pressure hose food ID 8 / 10 m	10	6.110-053.0	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	▲
Special hoses									
High-pressure hose 1.5 m, ID 8, including connectors, outlet bend	11	6.110-068.0	ID 8	400 bar	1,5 m				□

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

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		Order No.	Flow rate				Price	Description	
Trigger guns									
Extended easy press trigger gun	1	4.118-005.0						Extended easy press high-pressure trigger gun for high-pressure hoses with rotating connector.	■
Servo Control									
Servo control	2	4.118-008.0	750–1100 l/h						■
Quick connect									
Quick-fitting pipe union coupler trapezo	3	2.115-000.0							□
Quick-fitting pipe union plug nipple tra	4	2.115-001.0							□

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		Order No.	Nozzle size				Price	Description	
Power nozzle spray angle 25°									
	1	2.113-010.0	48						■
Nozzle chemical TR for replacement 25250	2	2.113-020.0	250						■
HP nozzle spray angle 0°									
High-pressure nozzle spray angle °0	3	2.113-034.0	50					High-pressure nozzle with powerful jet for extremely stubborn dirt.	□
Power nozzle spray angle 40°									
Power nozzle spray angle 40°	4	2.113-054.0	50					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 No.	Max. working pressure	Length			Price	Description	
Rotating spray lances									
1050 mm lance, rotatable, ergonomic	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.	■
Lance 250 mm, non-rotatable	2	4.112-027.0	300 bar	250 mm					□
550 mm lance, non-rotatable	3	4.112-024.0	300 bar	400 mm					□
Rotatable lance, 600 mm, ergonomic	4	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.	□
Lance 850 mm, rotatable, ergonomic	5	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.	□
Lance 1550 mm, rotatable, ergonomic	6	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.	□
Lance 2050 mm, rotatable, ergonomic	7	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.	□
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	4.112-029.0						Stainless steel lance WC and gutter with nozzle insert. Specially shaped for effective and hygienic cleaning of gutters and toilets.	□
Gutter cleaner									
Gutter cleaning lance	10	2.112-015.0						The lance is suited for cleaning of gutter systems. Because of the shape of the lance and the special nozzle the gutter can be cleaned without removing the cover plates.	□
Undercarriage spray lance									
Underbody lance	11	4.112-032.0		700 mm				Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.	□
Zusatzhandgriff									
	12	4.321-380.0							□

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

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		Order No.					Price	Description	
Y distributor									
Y distributor	1	4.111-024.0							☐
Cage frame attachment kit									
Add-on kit frame Cage breit	2	2.637-007.0							☐

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

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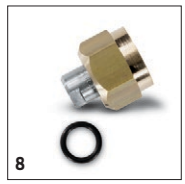

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		Order No.	Flow rate	Nozzle size	Diame-ter		Price	Description	
Hard Surface Cleaner FRV 30									
Add-on kit rubber lip	1	2.642-910.0						For smooth floors indoors. The squeegee increases the suction performance of the FRV 30 and minimises the amount of water remaining. This means the floor is dry in just a few minutes.	☐
Extension hose 5 m	2	4.440-939.0						5m extension hose for FRV 30. Connection sleeve included.	☐
Add-on kit hose attachment	3	2.642-528.0							☐
Add-on kit dirt trap	4	2.642-532.0							☐
FRV 30	5	2.111-010.0							☐
Hard surface cleaner FR 30 ME									
FR 30 ME surface cleaner	6	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.	☐
Hard Surface Cleaner FR 50									
FR 50 surface cleaner	7	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.	☐
Machine-specific nozzle kit for FR									
Nozzle kit for surface cleaners (type-specific) 850 - 1100 l/h	8	2.640-442.0	850–1100 l/h					Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (850 to 1100 l/h).	☐
Machine-specific nozzle kits for FRV									
Nozzle kit 050 for FRV 30	9	2.642-433.0		50					☐
FRV 30 Me surface cleaner									
Suction hose FRV 30 me	10	4.441-040.0							☐
FRV 30 ME	11	2.111-012.0							☐
Surface Cleaner FR 50 Me									
	12	2.111-024.0							☐

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

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		Order No.					Price	Description	
Nozzle union									
Protection part TR only for replacement	1	4.112-011.0							☐
Coupling parts									
	2	6.987-705.0							☐
Rotary coupling									
Rotary coupling	3	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	4	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	5	4.111-022.0						Nozzle connector/screw connector for connecting high-pressure nozzles and accessories to the high-pressure trigger gun (with nozzle connector). Connectors: 1x M 22 x 1.5 and 1x M 18 x 1.5.	☐
	6	4.111-038.0							☐
Adapter EASY!Lock									
Adapter 1 M22AG-TR22AG	7	4.111-029.0							☐
Adapter 2 M22IG-TR22AG	8	4.111-030.0							☐
Adapter 3 M22IG-TR22AG	9	4.111-031.0							☐
Adapter M22 - Swivel	10	4.111-032.0						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.	☐
Adapter 5 TR22IG-M22AG	11	4.111-033.0							☐
Adapter 6 TR22IG-M22AG	12	4.111-034.0							☐
Adapter 7 M18IG-TR20AG	13	4.111-035.0							☐
Adapter 8 TR20IG-M18AG	14	4.111-036.0							☐
HP detergent injector									
Detergent injector for high and low pressure (without nozzles)	15	4.637-032.0						Detergent injector for independent high and low pressure dosage. Maximum dosage about 15%.	☐
Detergent injector for high pressure	16	4.637-033.0						Cleaning agent dosage at high pressure 3 - 5 %	☐
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	17	4.769-047.0						For HD/HDS 750 - 1000 l/h. Consists of nozzle insert + HP power nozzle + union	☐
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.	18	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 1100 l/h	19	4.769-001.0						For low pressure with machines up to 1.100 l/h	☐

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

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		Order No.	Max. working pressure	Nozzle size			Price	Description	
Triple nozzles									
Triple nozzle 050	1	4.117-037.0	300 bar	50				Triple nozzle with manual nozzle changeover. Convenient spray adjustment. For high-pressure cleaners with injector; low-pressure fan jet for detergent removal and application. Connector M 18x1.5.	□
Angle vario nozzle 0°-90°									
Spezial nozzle 0005	2	4.113-007.0		50				Variable angle nozzle for spray angle adjustment from 0° to 90°. For easy adjustment to all kinds of soiling and surfaces.	□
Dirt blaster, large									
Dirt blaster - without changeover function	3	4.114-027.0	300 bar	50				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.	□

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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.	☐
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.	☐
Nozzle pack for wet blasting attachment									
Nozzle kit for wet blasting attachment 050	3	2.637-902.0	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 4.762-010/-022.	☐
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.	☐

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

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		Order No.	Max. working pressure	Nozzle size	Diame-ter		Price	Description	
Pipe cleaning hose, ID 6									
Hose assembly TR pipe cleaning DN6 max.2	1	6.110-046.0	250 bar						☐
Pipe cleaning hose, DN 6, 20 m, 220 bar	2	6.110-008.0	250 bar					20 m flexible high-pressure hose (DN 6) for cleaning pipes up to 220 bar (threaded connection for R 1/8 nozzle).	☐
Hose assembly TR pipe cleaning DN6 max.2	3	6.110-047.0	250 bar						☐
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 han-dling.	☐
Drain cleaning dirt blaster D 30/060	5	6.415-947.0		60	30 mm				☐
Drain cleaning dirt blaster D 35/060	6	6.415-949.0		60	35 mm				☐
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.	☐
	8	5.763-016.0		60	16 mm				☐
	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.	☐
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.	☐

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

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		Order No.	Flow rate				Price	Description	
Cup foam lance									
Packing complete for 6.394-968.0	1	2.112-017.0							☐
Tank 1L	2	6.414-954.0							☐
Inno Foam Kit									
Inno foam kit with detergent injector	3	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.	☐
Easy Foam Set									
Easy Foam Set with RM injector	4	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.	☐
Nozzle kits for Inno/Easy Foam Set									
Nozzle kit 090 Inno/Easy kit 700 - 1000 l/h	5	2.111-019.0	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.	☐
Foam nozzle mounting kit									
Foam nozzle kit	6	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.	☐

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

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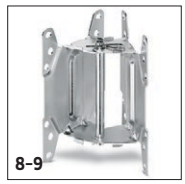










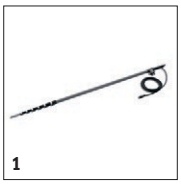


		Order No.	Length				Price	Description	
Hose reel add-on kit									
Add-on kit hose reel	1	2.110-004.0	30 m						☐
Automatic, self-winding hose reels									
Add-on kit hose reel plastics	2	6.392-074.0	20 m					Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.	☐
Add-on kit hose reel	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.	☐
Hose reel, automatic, 20 m, painted	4	6.392-106.0	20 m					Automatic hose reel of durable plastic. Painted steel bracket. Suitable for 20 m high-pressure hose.	☐
Add-on kit hose reel lacquered basaltgra	5	6.392-105.0	20 m						☐
Hose reel, automatic, 20 m, stainless steel	6	6.392-076.0	20 m					Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.	☐
ABS hose reel stainless steel	7	6.392-122.0	20 m					High-grade, automatic steel hose reel. Especially suitable for use in the food industry. The material and finish provide for a corrossion-resistant, watertight capsuled sprong drive. Connection for HP hoses with nipple.	☐
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.	☐
ABS wall fastening stainless steel	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.	☐

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

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		Order No.	Flow rate	Feed temperature	Length	Length	Price	Description	
Solar cleaning – telescopic lances									
Telescopic rod complete 14m	1	4.110-002.0		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.	☐
Telescopic rod complete 10m CFK	2	4.110-007.0		max. 60 °C					☐
Telescopic rod complete 10m	3	4.110-003.0		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.	☐
iSolar TL 7 H (without hose)	4	4.110-004.0		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.	☐
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.	☐
	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.	☐
	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.	☐

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

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		Order No.	Flow rate				Price	Description	
Push-on washing brush									
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									
Washing brush rotary	2	4.113-002.0	800–1300 l/h						□
	3	4.113-005.0	800–1300 l/h						□

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

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		Order No.	Length	Diameter			Price	Description	
Geka coupling									
With hose nozzle, R 3/4"	1	6.388-455.0						with hose liner	☐
Hose coupling	2	6.388-458.0						with female thread	☐
Suction filter									
Water filter	3	6.414-956.0							☐
Suction filter with check valve	4	4.730-012.0						Brass suction filter suitable for ponds, storage tanks, etc. With check valve.	☐
Fine-mesh water filter									
Fine-mesh water filter with adapter	5	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".	☐
Water supply hose									
Water supply hose	6	4.440-038.0	7,5 m					NW 13 R1" / R 3/4", up to 30 °C	☐
Backflow check valve									
Backflow preventer	7	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	☐

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