



### **HDS 1000 De**

Hot water high-pressure cleaner with Yanmar diesel engine









### 1 Optimum ease of use

- Automatic burner cut-out in case of water shortage, overheating protection.
- Ergonomically designed trigger gun for ease of use.

#### 2 Maximum performance

- High-output burner with upright heating coil and continuous ignition without deflagration.
- For removing stubborn deposits.

## **TECHNICAL DATA AND EQUIPMENT.**





#### HDS 1000 De

- Diesel engine with electric starter
- $\hfill \blacksquare$  Professional high-performance hot water unit

Technical data		
Order Number		1.811-941.0
EAN code		4054278169187
Pressure	bar / MPa	40-180 / 4-18
Flow rate	l/h	450-870
Max. temperature	°C	max. 80
Consumption fuel oil	kg/h	5,6
Engine type		L 100 N / Diesel
Engine manufacturer		Yanmar
Power rating	kW / hp	7,4 / 10
Weight	kg	185
Dimensions (L x W x H)	mm	1130 × 750 × 855

Equipment		
Trigger gun		EASY!Force Advanced
Trigger gun with soft grip		
High-pressure hose	m	15
Spray lance	mm	1050
Cage frame		T .
Anti-twist system (AVS)		
Electric starter		T.
Power nozzle		
Servo Control		
Sturdy tubular steel frame for I	handling	

■ Included in delivery.



























		Order Number	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, 30 m DN 8, including rotary coupling	3	6.110-014.0	ID 8	315 bar	30 m		With rotary coupling, 2 x M 22 x 1.5
High-pressure hose, 15 m DN 10, 220 bar, extension	4	6.110-042.0	ID 10	220 bar	15 m		15 m high-pressure hose M 22 x 1.5) with kink protection and threaded couplings at both ends. Further data: DN 10/155°C/220 bar.
High-pressure hose, 20 m DN 10, 220 bar, extension	5	6.110-043.0	ID 10	220 bar	20 m		with union on both sides, M 22 x 1.5 with anti-kink protection. NW 10/155°C/220 bar
High-pressure hose, 25 m DN 10, extension, not rotatable	6	6.110-044.0	ID 10	220 bar	25 m		
Hose assembly premium DN12 21MPa 15m	7	6.110-059.0	ID 12	210 bar	15 m		High-pressure hose for water volumes greater than 1,800 l , h. With union on both sides. 2x M 22 x 1.5 with anti-kink
Hose assembly premium DN12 21MPa 40m	8	6.110-060.0	ID 12	210 bar	40 m		protection.
High-pressure hose, 15 m DN 8, AVS trigger gun connector	9	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 si	ides						
High-pressure hose Longlife 400, 30 m DN 8, including rotary coupling	10	6.110-023.0	ID 8	400 bar	30 m		With rotary coupling, 2 x M 22 x 1.5
High-pressure hose Longlife 400, 20 m, DN 8, extension	11	6.110-027.0	ID 8	400 bar	20 m		with rotary coupling, 2 x M 22 x 1.5
High-pressure hose Longlife 400, 15 m, DN 8, including rotary coupling	12	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, DN 8, including connectors	13	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).
	14	6.110-069.0	ID 8	400 bar	1,5 m		
High-pressure hose packaged	15	6.110-038.0	ID 8	400 bar	10 m		
Longlife food industry version with	unior	s on both sides					
High pressure hose food DN 8 / 10 m	16	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

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.











		Order Number	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				С
Quick-fitting pipe union plug nipple tra	4	2.115-001.0				Г

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.





		Order Number	Nozzle size		Price	Description
Power nozzle spray angle 25°						
Power nozzle spray angle 25°	1	2.113-023.0	50			Fan jet nozzle with 25° spray angle, suitable for large areas and removing stubborn dirt and stains.
HP nozzle spray angle 0°						
High-pressure nozzle spray angle °0	2	2.113-034.0	50			High-pressure nozzle with powerful jet for extremely stubborn dirt.
Power nozzle spray angle 15°						
Power nozzle spray angle 15°	3	2.113-047.0	55			Fan jet nozzle with 15° spray angle suitable for 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.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.





	_	1		1				
			Max. working					
		Order Number	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.	
Jet pipe extension TR 1000 mm	8	4.112-048.0	300 bar	1000 mm				
Double lance								
Double lance 960 mm	9	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	10	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 1050 mm	11	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.	
Telescopic spray lance	1 12	14112 0270	225 bar	L = 400 mm	ı	ı		
Telescopic jet pipe Restraint belt for telescopic jet	12	4.112-037.0 6.373-987.0	225 bar	5400 mm	-		Convenient strap for relief when working with the telescopic	ᆜ
pipe	13	U.\08E-6\c.U					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	14	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	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	1	1 4 224 222 2			ı			
	16	4.321-380.0						

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.



		Order Number			Price	Description
Wheel mounting kit						
Practical kit with pneumatic tyres	1	2.637-820.0				Practical kit with pneumatic tyres for HDS 1000 BE and HDS 1000 DE high-pressure cleaners. For improved manoeuvrability.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.





















		ı		1	1	1	
		Order Number	Flow rate	Nozzle size		Price	Description
Hard Surface Cleaner FRV 30							
Add-on kit hose attachment	1	2.642-528.0					
Add-on kit dirt trap	2	2.642-532.0					
Hard surface cleaner FR 30 ME							
FR 30 ME surface cleaner	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.
Hard Surface Cleaner FR 50							
FR 50 surface cleaner	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.
Machine-specific nozzle kit for FR							
Nozzle kit for surface cleaners (type-specific) 850 - 1100 l/h	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).
Machine-specific nozzle kits for FR	V						
Nozzle kit 050 for FRV 30	6	2.642-433.0		50			
Hard surface cleaner FRV 30 Me							
Suction hose FRV 30 me	7	4.441-040.0					
FRV 30 ME	8	2.111-012.0					
Surface Cleaner FR 50 Me							
	9	2.111-024.0					

<sup>■</sup> Included in delivery. □ Available accessories. ▲ Extension hose.































		Order Number			Price	Description
Nozzle union						
Protection part TR only for replacement	1	4.112-011.0				
Coupling parts						
	2	6.987-705.0				
Rotary coupling		,	1			
Rotary coupling	3	4.111-021.0				Kärcher rotary coupling prevents twisting and kinking of high-pressure hoses for ease of use. Connector M $22 \times 1.5$ m. With grip protection.
Coupling		,	1			
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					1	
Adapter 1 M22AG-TR22AG	7					
Adapter 2 M22IG-TR22AG	8					
Adapter 3 M22IG-TR22AG	9					
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 or	der no	. 3.637-170				
Machine-specific nozzle kit with order no. 3.637-170.0 750-1000 I/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 I/h	19	4.769-001.0				For low pressure with machines up to 1.100 l/h







		Order Number	Nozzle size		Price	Description
Wet blasting attachment (without r	nozzle)	j				
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 attach	ment					
Nozzle pack TR wet jet set 0050	3	2.112-023.0	50			
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.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.











								٦
		Order Number	Max. working pressure	Nozzle size		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	-
Drain cleaning dirt blaster D 30/060	5	6.415-947.0		60	30 mm		necessary forward movement, as well as convenient handling.	
Drain cleaning dirt blaster D 35/060	6	6.415-949.0		60	35 mm		Γ	
Pipe cleaning nozzle	7	5.763-015.0		55	16 mm		16 mm pipe cleaning nozzle with internal thread. Various jet [	
	8	5.763-016.0		60	16 mm		directions for environmentally-friendly cleaning of blocked drains and pipes.	
	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.	

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.





		Order Number	Max. working pressure	Nozzle size		Price	Description
Dirt blaster, large							
Dirt blaster - without changeover function	1	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.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.

















		Order Number	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 Set						
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
Inno foam kit	4	2.112-008.0				stationary high-pressure and HDS pressure cleaners for cleaning or disinfection.
Easy Foam Set						
Easy Foam Set with RM injector	5	2.112-010.0				HP foam system for use with. HD/HDS units for cleaning and
Easy foam set	6	2.112-011.0				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 I/h	7	2.111-019.0	700-1000 l/h			Nozzle kit contains Kärcher power nozzles and nozzle inserts. For Inno/Easy-Foam set 700-1000 I/h. For optimal foam system performance.
Foam nozzle mounting kit						
Foam nozzle kit	8	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.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.



















					T	
		Order Number	Length		Price	Description
Hose reel add-on kit						
Hose reel kit for HDS 801/1050 B/D	1	2.110-005.0	20 m			ABS hose reel for mounting on the machine. For safe and tidy stowage of high-pressure hoses (with connecting hose to machine's HP outlet). Can be rotated under pressure, with M 22 x 1.5 connection.
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.
	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.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.











	1							
				Water feed				
		Order Number	Flow rate	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.

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.









		Order Number	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							
	2	4.113-002.0	800-1300 l/h				
	3	4.113-005.0	800-1300 l/h				

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.















		Order Number	Length	Diameter		Price	Description	
Geka coupling								
With hose nozzle, R 1"	1	6.388-465.0						
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, 100 $\mu$ m, R 3/4"	5	2.638-255.0					Mounts to machine, suitable for pressure and suction mode, $90\text{-}120~\mu\text{m}$	
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".	
Fine-mesh water filter, 100 $\mu\text{m},$ R 1"	7	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".	

<sup>■</sup> Included in delivery. 

Available accessories. 

Extension hose.