



HDS 13/20 De Tr1

The HDS 13/20 trailer operates at pressures of 200 bar and is the perfect solution for mobile, self-sufficient hot water cleaning at high pressure. Ideal not only for everyday cleaning in the municipal sector, but also for industry and construction.



4-8 h



SERVO CONTROL



EASY!Force



ANTI-TWIST

1 Maximum efficiency

- Highly efficient burner technology.

3 Service-friendly

2 Simple operation

- Safe and ample storage for protective gear, accessories and cleaning agents.



HDS 13/20 De Tr1

Technical data

Order Number		1.524-952.2
Engine manufacturer		Yanmar
Fuel		Diesel
Power rating	kW / hp	19 / 26 / 19 / 26
Flow rate	l/h	900-1300
Pressure	bar / MPa	60-200 / 6-20
	kg/h	11,3
Weight	kg	950
Dimensions (L x W x H)	mm	3646 × 1747 × 1735

Equipment

Trigger gun		EASY!Force Advanced
High-pressure hose	m	30
Spray lance	mm	1050
Power nozzle		■
Servo Control		■

■ Included in delivery.

ACCESSORIES FOR HDS 13/20 DE TR1

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		Order Number	ID	Max. working pressure	Length		Price	Description	
Standard with unions on both sides									
High-pressure hose, 15 m DN 10, 220 bar, extension	1	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	2	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	3	6.110-044.0	ID 10	220 bar	25 m				▲
Hose assembly premium DN12 21MPa 15m	4	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 protection.	▲
Hose assembly premium DN12 21MPa 40m	5	6.110-060.0	ID 12	210 bar	40 m				▲
Longlife 400 with unions on both sides									
High-pressure hose Longlife 400, 20 m, DN 8, extension	6	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	7	6.110-029.0	ID 8	400 bar	15 m			With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose packaged	8	6.110-038.0	ID 8	400 bar	10 m				□
High-pressure hose Longlife 400, 30 m DN 8, including rotary coupling	9	6.110-023.0	ID 8	400 bar	30 m			With rotary coupling, 2 x M 22 x 1.5	□
Longlife food industry version with unions on both sides									
High pressure hose food DN 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	▲

□ Available accessories. ▲ Extension hose.

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		Order Number					Price	Description	
Y distributor									
Y distributor	1	4.111-024.0							<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate	Nozzle size		Price	Description	
Hard Surface Cleaner FRV 30								
Add-on kit hose attachment	1	2.642-528.0						<input type="checkbox"/>
Add-on kit dirt trap	2	2.642-532.0						<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
Machine-specific nozzle kit for FR								
Nozzle pack for hard surface cleaners (machine-specific) 1300 - 1.800 l/h	5	2.640-781.0	1300-1800 l/h				Machine-specific nozzle kit Kärcher power nozzle for hard surface cleaners	<input type="checkbox"/>
Machine-specific nozzle kits for FRV								
Nozzle pack 080	6	2.642-982.0		80				<input type="checkbox"/>
Hard surface cleaner FRV 30 Me								
Suction hose FRV 30 me	7	4.441-040.0						<input type="checkbox"/>
FRV 30 ME	8	2.111-012.0						<input type="checkbox"/>
Surface Cleaner FR 50 Me								
	9	2.111-024.0						<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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		Order Number						Price	Description	
Nozzle union										
Protection part TR only for replacement	1	4.112-011.0								<input type="checkbox"/>
Coupling parts										
	2	6.987-705.0								<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
	6	4.111-038.0								<input type="checkbox"/>
Adapter EASY!Lock										
Adapter 1 M22AG-TR22AG	7	4.111-029.0								<input type="checkbox"/>
Adapter 2 M22IG-TR22AG	8	4.111-030.0								<input type="checkbox"/>
Adapter 3 M22IG-TR22AG	9	4.111-031.0								<input type="checkbox"/>
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.	<input type="checkbox"/>
Adapter 5 TR22IG-M22AG	11	4.111-033.0								<input type="checkbox"/>
Adapter 6 TR22IG-M22AG	12	4.111-034.0								<input type="checkbox"/>
Adapter 7 M18IG-TR20AG	13	4.111-035.0								<input type="checkbox"/>
Adapter 8 TR20IG-M18AG	14	4.111-036.0								<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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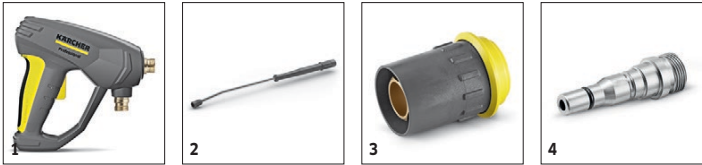




		Order Number	Nozzle size					Price	Description	
HP nozzle spray angle 0°										
High-pressure nozzle spray angle °0	1	2.113-037.0	75						High-pressure nozzle with powerful jet for extremely stubborn dirt.	<input type="checkbox"/>
Power nozzle spray angle 15°										
Power nozzle spray angle 15°	2	2.113-049.0	70						Fan jet nozzle with 15° spray angle suitable for stubborn dirt.	<input type="checkbox"/>
Power nozzle spray angle 25°										
Power nozzle TR for replacement 25070	3	2.113-028.0	70							<input type="checkbox"/>
Power nozzle spray angle 40°										
Power nozzle spray angle 40°	4	2.113-056.0	75						Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.	<input type="checkbox"/>

☐ Available accessories.
 ☐ Extension hose.

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		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.	<input type="checkbox"/>
Servo Control									
Servo control	2	4.118-009.0	1100 l/h						<input type="checkbox"/>
Quick connect									
Quick-fitting pipe union coupler trapezo	3	2.115-000.0							<input type="checkbox"/>
Quick-fitting pipe union plug nipple tra	4	2.115-001.0							<input type="checkbox"/>

☐ 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	4.115-000.0							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"/>
Nozzle pack for wet blasting attachment										
Nozzle pack TR wet jet set 0070	3	2.112-027.0	70							<input type="checkbox"/>
Boron carbide nozzle										
Boron carbide nozzle, for machines as of 1000 l/h	4	6.415-083.0	8 mm						In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.	<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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		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						<input type="checkbox"/>
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).	<input type="checkbox"/>
Hose assembly TR pipe cleaning DN6 max.2	3	6.110-047.0	250 bar						<input type="checkbox"/>
Pipe cleaning nozzle									
Nozzle pipe cleaning size 80	4	5.763-087.0		80	25 mm			Pipe cleaning nozzle with 24 mm diameter. With 4 nozzles tilted back at a 30° angle.	<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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

☐ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate				Price	Description	
Cup foam lance									
Packing complete for 6.394-968.0	1	2.112-017.0							<input type="checkbox"/>
Tank 1L	2	6.414-954.0							<input type="checkbox"/>
Inno Foam Set									
Inno foam kit	3	2.112-008.0						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	2.112-011.0						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 110 Inno/Easy set 1000 - 1300 l/h	5	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 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.	<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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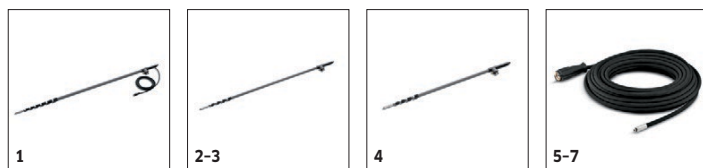


		Order Number	Length					Price	Description	
Automatic, self-winding hose reels										
Add-on kit hose reel plastics	1	6.392-074.0	20 m						Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.	<input type="checkbox"/>
Add-on kit hose reel	2	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"/>
Hose reel, automatic, 20 m, painted	3	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, 20 m, stainless steel	4	6.392-105.0	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	5	6.392-076.0	20 m						Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
	6	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 corrosion-resistant, watertight capsuled spring drive. Connection for HP hoses with nipple.	<input type="checkbox"/>
Swivel holder	7	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	8	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"/>

☐ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate	Water 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.	<input type="checkbox"/>
Telescopic rod complete 10m CFK	2	4.110-007.0		max. 60 °C					<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<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"/>

☐ Available accessories. ▲ Extension hose.

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		Order Number	Max. working pressure	Length			Price	Description	
Rotating spray lances									
Lance 250 mm, non-rotatable	1	4.112-027.0	300 bar	250 mm					<input type="checkbox"/>
550 mm lance, non-rotatable	2	4.112-024.0	300 bar	400 mm					<input type="checkbox"/>
Rotatable lance, 600 mm, ergonomic	3	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.	<input type="checkbox"/>
Lance 850 mm, rotatable, ergonomic	4	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.	<input type="checkbox"/>
1050 mm lance, rotatable, ergonomic	5	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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
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).	<input type="checkbox"/>
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.	<input type="checkbox"/>
Flexible spray lance									
Flexible lance 1050 mm	10	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.	<input type="checkbox"/>
Telescopic spray lance									
Telescopic jet pipe	11	4.112-037.0	225 bar	5400 mm					<input type="checkbox"/>
Restraint belt for telescopic jet pipe	12	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.	<input type="checkbox"/>
Gutter cleaner									
Gutter cleaning lance	13	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.	<input type="checkbox"/>
Undercarriage spray lance									
Underbody lance	14	4.112-032.0		700 mm				Stainless steel lance for effective and easy underbody and wheel arch cleaning. Without high-pressure nozzle.	<input type="checkbox"/>
Additional handle									
	15	4.321-380.0							<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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		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.	<input type="checkbox"/>
Rotating washing brush									
	2	4.113-002.0	800-1300 l/h						<input type="checkbox"/>
	3	4.113-005.0	800-1300 l/h						<input type="checkbox"/>

☐ Available accessories. ▲ Extension hose.

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		Order Number	Length	Diameter			Price	Description	
Suction filter									
Water filter	1	6.414-956.0							<input type="checkbox"/>
Suction filter with check valve	2	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	3	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"/>

☐ Available accessories.
 ☐ Extension hose.