



## 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.



### 1 Maximum efficiency

- Highly efficient burner technology.

### 3 Service-friendly

### 2 Simple operation

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



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### Technical data

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

### Equipment

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

■ Included in delivery.

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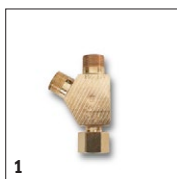


		Order Number	ID	Max. working pressure	Length	Price	Description	
<b>Standard with unions on both sides</b>								
High-pressure hose, 15 m DN 10, 220 bar, extension	1	6.110-042.0	ID 10	220 bar	15 m		15 m high-pressure hose (M 22 x 1.5) with kink protection and threaded couplings at both ends. Further 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			▲
Hose assembly TR DN10 22MPa 10m	6	6.110-041.0	ID 10	220 bar	10 m			▲
Hose assembly premium DN10 22MPa 40m	7	6.110-045.0	ID 10	220 bar	40 m		with union on both sides, M 22 x 1.5 with anti-kink protection. NW 10/155°C/220 bar	□
<b>Longlife 400 with unions on both sides</b>								
High-pressure hose Longlife 400, 20 m, DN 8, extension	8	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	9	6.110-029.0	ID 8	400 bar	15 m		With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose packaged	10	6.110-038.0	ID 8	400 bar	10 m			□
High-pressure hose Longlife 400, 30 m DN 8, including rotary coupling	11	6.110-023.0	ID 8	400 bar	30 m		With rotary coupling, 2 x M 22 x 1.5	□
<b>Longlife food industry version with unions on both sides</b>								
High pressure hose food DN 8 / 10 m	12	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	
<b>Y distributor</b>									
Y distributor	1	4.111-024.0							<input type="checkbox"/>

Available accessories.     Extension hose.

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**KÄRCHER**



		Order Number	Flow rate	Nozzle size	Diame-ter	Price	Description	
<b>Hard Surface Cleaner FRV 30</b>								
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"/>
<b>Hard surface cleaner FR 30 ME</b>								
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"/>
<b>Hard Surface Cleaner FR 50</b>								
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"/>
<b>Machine-specific nozzle kit for FR</b>								
Nozzle kit for surface cleaners (type-specific) 1100 - 1300 l/h	5	2.639-188.0	1100-1300 l/h				Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (1100 to 1300 l/h).	<input type="checkbox"/>
Nozzle pack for hard surface cleaners (machine-specific) 1300 - 1.800 l/h	6	2.640-781.0	1300-1800 l/h				Machine-specific nozzle kit Kärcher power nozzle for hard surface cleaners	<input type="checkbox"/>
<b>Machine-specific nozzle kits for FRV</b>								
Nozzle pack 080	7	2.642-982.0		80				<input type="checkbox"/>
<b>Hard surface cleaner FRV 30 Me</b>								
Suction hose FRV 30 me	8	4.441-040.0						<input type="checkbox"/>
FRV 30 ME	9	2.111-012.0					Surface cleaner with integrated waste water pick-up	<input type="checkbox"/>
<b>Surface Cleaner FR 50 Me</b>								
	10	2.111-024.0						<input type="checkbox"/>

Available accessories. ▲ Extension hose.

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		Order Number					Price	Description	
<b>Nozzle union</b>									
Protection part TR only for replacement	1	4.112-011.0							<input type="checkbox"/>
<b>Rotary coupling</b>									
Rotary coupling	2	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"/>
<b>Coupling</b>									
Coupler -2xM22x1,5	3	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"/>
<b>Connector</b>									
Nozzle connector/screw connector	4	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"/>
	5	4.111-038.0							<input type="checkbox"/>
<b>Adapter EASY!Lock</b>									
Adapter 1 M22AG-TR22AG	6	4.111-029.0							<input type="checkbox"/>
Adapter 2 M22IG-TR22AG	7	4.111-030.0							<input type="checkbox"/>
Adapter 3 M22IG-TR22AG	8	4.111-031.0							<input type="checkbox"/>
Adapter M22 - Swivel	9	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	10	4.111-033.0							<input type="checkbox"/>
Adapter 6 TR22IG-M22AG	11	4.111-034.0							<input type="checkbox"/>
Adapter 7 M18IG-TR20AG	12	4.111-035.0							<input type="checkbox"/>
Adapter 8 TR20IG-M18AG	13	4.111-036.0							<input type="checkbox"/>
ADAPTER for replacement TR22IG-M22AG Er	14	4.111-046.0							<input type="checkbox"/>

Available accessories. ▲ Extension hose.

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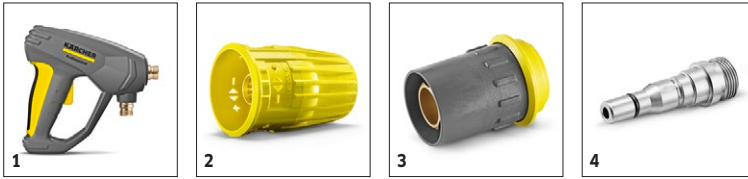
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		Order Number	Nozzle size					Price	Description	
<b>HP nozzle spray angle 0°</b>										
High-pressure nozzle spray angle 0°	1	2.113-037.0	75						High-pressure nozzle with powerful jet for extremely stubborn dirt.	<input type="checkbox"/>
<b>Power nozzle spray angle 15°</b>										
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"/>
	3	2.113-050.0	75							<input type="checkbox"/>
<b>Power nozzle spray angle 25°</b>										
Power nozzle TR 25032	4	2.113-071.0	32							<input type="checkbox"/>
Power nozzle TR for replacement 25070	5	2.113-028.0	70							<input type="checkbox"/>
<b>Power nozzle spray angle 40°</b>										
Power nozzle spray angle 40°	6	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	
<b>Trigger guns</b>									
EASY!Force Advanced	1	4.118-005.0						Effortless, not energy-sapping: the EASY!Force high-pressure gun uses the recoil force of the high-pressure jet to reduce the holding force for the operator to zero.	<input type="checkbox"/>
<b>Servo Control</b>									
Servo control	2	4.118-009.0	1100 l/h						<input type="checkbox"/>
<b>Quick connect</b>									
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	
<b>Wet blasting attachment (without nozzle)</b>									
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"/>
<b>Nozzle pack for wet blasting attachment</b>									
Nozzle pack TR wet jet set 0070	3	2.112-027.0	70						<input type="checkbox"/>
<b>Boron carbide nozzle</b>									
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	Diameter		Price	Description
<b>Pipe cleaning hose, ID 6</b>								
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"/>
<b>Pipe cleaning nozzle</b>								
Nozzle pipe cleaning size 80	4	5.763-087.0		80	24 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	
<b>Dirt blaster, large</b>									
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"/>
Dirt blaster - non-changeover	2	4.114-043.0	300 bar	90				Dirt blaster - rotating pencil jet - 10x cleaning power. Ceramic nozzle and bearing ring for long service life. Max. 300 bar/30 MPa, 85 °C	<input type="checkbox"/>

Available accessories.    ▲ Extension hose.

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		Order Number	Flow rate				Price	Description	
<b>Cup foam lance</b>									
Foam lance TR	1	4.112-055.0	900-2500 l/h						<input type="checkbox"/>
Packing complete for 6.394-968.0	2	2.112-017.0							<input type="checkbox"/>
Tank grey only for replacement 1L	3	6.414-050.0							<input type="checkbox"/>
<b>Inno Foam Set</b>									
Inno foam kit	4	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"/>
<b>Easy Foam Set</b>									
Easy foam set	5	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"/>
<b>Nozzle kits for Inno/Easy Foam Set</b>									
Nozzle kit 110 Inno/Easy set 1000 - 1300 l/h	6	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"/>
<b>Foam nozzle mounting kit</b>									
Foam nozzle kit	7	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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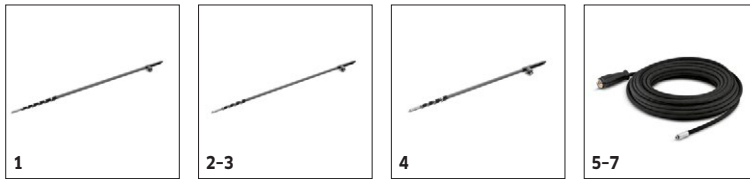
		Order Number	Length				Price	Description	
<b>Automatic, self-winding hose reels</b>									
Add-on kit hose reel plastics	1	6.392-074.0	20 m					Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.	<input type="checkbox"/>
Add-on 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"/>
	4	6.392-105.0	20 m						<input type="checkbox"/>
Hose reel, automatic, 20 m, 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"/>
ABS hose reel stainless steel	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 sprong drive. Connection for HP hoses with nipple.	<input type="checkbox"/>
Add-on kit hose reel TR 40m	7	6.392-442.0	40 m						<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>

Available accessories.    ▲ Extension hose.

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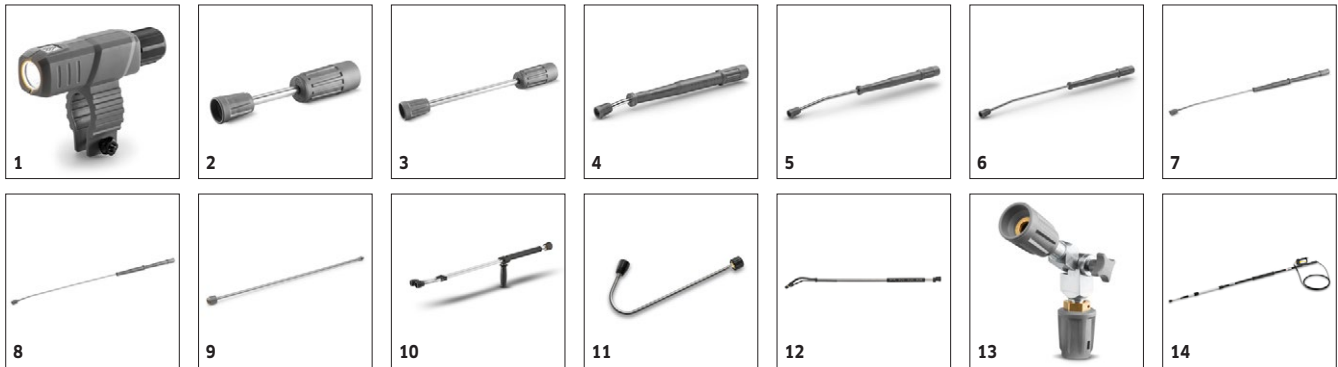


		Order Number	Flow rate	Water feed temperature	Length	Length	Price	Description	
<b>Solar cleaning - telescopic lances</b>									
Telescopic rod complete 14m	1	4.110-002.0		max. 60 °C				Full carbon telescopic rod for maximum rigidity with minimal weight. With 14 m max. reach and practical quick-release 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	
<b>Rotating spray lances</b>									
Nozzle light	1	2.680-002.0			125 mm				<input type="checkbox"/>
Lance 250 mm, non-rotatable	2	4.112-027.0	300 bar		250 mm				<input type="checkbox"/>
550 mm lance, non-rotatable	3	4.112-024.0	300 bar		400 mm				<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
1050 mm lance, rotatable, ergonomic	6	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	7	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	8	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"/>
Jet pipe extension TR 1000 mm	9	4.112-048.0	300 bar		1000 mm				<input type="checkbox"/>
<b>Double lance</b>									
Double lance 960 mm	10	2.112-016.0	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"/>
<b>Angular spray lance</b>									
WC and gutter lance	11	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"/>
<b>Flexible spray lance</b>									
Flexible lance 1050 mm	12	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"/>
Articulated joint TR 20	13	4.112-057.0	300 bar						<input type="checkbox"/>
<b>Telescopic spray lance</b>									
Telescopic jet pipe	14	4.112-037.0	225 bar		5400 mm				<input type="checkbox"/>
Restraint belt for telescopic jet pipe	15	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"/>
<b>Gutter cleaner</b>									
Gutter cleaning lance	16	2.112-015.0			960 mm			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"/>
<b>Undercarriage spray lance</b>									
Underbody lance	17	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"/>
<b>Additional handle</b>									
	18	4.321-380.0							<input type="checkbox"/>
<b>Weed control</b>									
WR 50 trapezoidal thread	19	2.114-013.0							<input type="checkbox"/>
WR 20 trapezoidal thread	20	2.114-014.0							<input type="checkbox"/>
WR 100	21	2.114-015.0							<input type="checkbox"/>
WR 10	22	2.114-016.0							<input type="checkbox"/>

Available accessories. ▲ Extension hose.

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		Order Number	Flow rate				Price	Description	
<b>Push-on washing brush</b>									
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"/>
<b>Rotating washing brush</b>									
	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	
<b>Suction filter</b>								
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"/>
<b>Fine-mesh water filter</b>								
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.