

# KÄRCHER

makes a difference



## HIGH-PRESSURE TRAILERS

Independence and reliability on the road

# BECOME INDEPENDENT



HD trailer

Our configurable high-pressure trailers combine extraordinary mobility and maximum user-friendliness with an innovative machine concept. Our HD and HDS trailers are the ideal solution for municipalities, construction sites, rental fleets and industry.



HDS trailer

# HIGH-PRESSURE MOBILE CLEANING

A well-designed concept instead of spontaneous tinkering. Like us, they don't do things by halves. Our trailers are based on a well-designed integrated concept with defined properties and capabilities: uncompromising performance, high mobility, ease of use and maximum independence. We have prioritised the components from our tried-and-tested high-pressure cleaners and have used very few new ones. This means, in addition to the known benefits of the technology, we have been able to keep the work undertaken by our service staff and the spare parts logistics simple.

Our HD and HDS trailers make it possible to use powerful high-pressure technology on the move and even in locations without a power or water supply. Durability, reliability and efficiency also top the list of features for this concept.

Many components come from our high-pressure cleaner model series, which has been tried-and-tested a million times over. Operating the machine is very simple. The storage compartment in the rear for canisters, accessories and other items, completes the impressive ergonomics concept. Configuration options make the trailer your custom machine.





**Ease of use: Operating the machine is just as simple and convenient as with all Kärcher HD/HDS trailers with EASY Operation.** This one-switch operation makes it extremely easy for the user to handle. At the same time, it reduces the risk of operating errors to the bare minimum.

- Hose reels reduce set-up times and provide safe storage.
- The roomy storage compartments boast plenty of space for accessories, tools, cleaning agents and everything else you might need for the cleaning task at hand.

**Low maintenance: Every machine needs servicing on a regular basis.** The large machine hood on the HDS trailer, under which all the important components are positioned within easy access, and the free access on the HD trailer, along with the use of tried-and-tested components, make work easier for our Kärcher service technicians.

- Well-designed service menu on the HDS trailer for rapid diagnostics.
- Customised service packages tailored precisely to your individual requirements.

**Reliability: HD and HDS trailers are systematically designed for long service life in daily use.** A large number of tried-and-tested Kärcher components, including burners, pumps and control electronics in particular, have been used to do this.

Numerous safety functions protect against damage in the case of failure, for example the water shortage protection on the HDS trailer stops the pump from dry running. And the water softening feature protects the heating coil against harmful lime deposits.

All HD/HDS trailers have an antifreeze system to protect the machine in cold outside temperatures.

# HD TRAILER: STAY COOL UNDER PRESSURE

High-pressure cleaning and Kärcher go hand in hand. We have been driving high-pressure cleaning forwards by means of innovations for several decades now. We are now making this technology more mobile than ever before.

**Independence: Powerful and reliable Yanmar diesel and Honda petrol engines (all EU STAGE V) enable use without the need for a power supply.** You always have everything you need for the cleaning application right there on the trailers: water, cleaning agents, accessories.

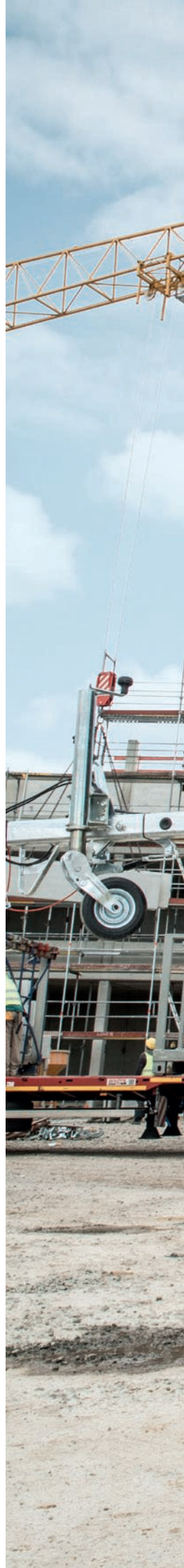
The large integrated water tank on the HD trailer allows for independent cleaning at full performance for up to one hour and, with a reduced water flow, for up to two hours. You can choose to add an additional 20-litre fuel canister to your HD trailer, which will enable long periods of use.

**Efficiency: An HD trailer shows initiative.**

If the high-pressure gun is not actuated, automatic speed reduction lowers the noise level and fuel consumption.

**Individuality: You can configure your HD trailer to match your individual requirements.** That also includes being able to opt for a forklift-compatible platform instead of a trailer.

The purpose of use and existing vehicle fleet will decide whether your HD module comes with or without an axle. As an alternative to the trailer, you can choose the Cab platform version which you can use on loading platforms or in a static position on site. The maximum support load of 75 kg gives you independence and flexibility. You can tow the HD trailer with virtually any passenger vehicle.





#### Features of the HD trailer

1,000 l water tank

5.4 l fuel tank (diesel)/  
6.1 l fuel tank (petrol)

Yanmar diesel engine rated at 7.4 kW/  
Honda petrol engine rated at 9.5 kW

**Cab:** HP on frame with forklift  
pockets and water tank

**Trailer:** HD on chassis with  
water tank

# HDS TRAILER: THINGS ARE HOTTING UP

There are cleaning applications for which cold water under high pressure does not achieve the required results. Or at least, not in a reasonable period of time. That's where our hot water high-pressure cleaners come into play. Use them to remove graffiti, chewing gum, oils and greases quickly and easily.

**Independence: powerful and reliable Yanmar diesel engines (EU STAGE V) enable use without the need for a power supply.** You always have everything you need for the cleaning application right there on the HDS trailers: water, cleaning agents, accessories.

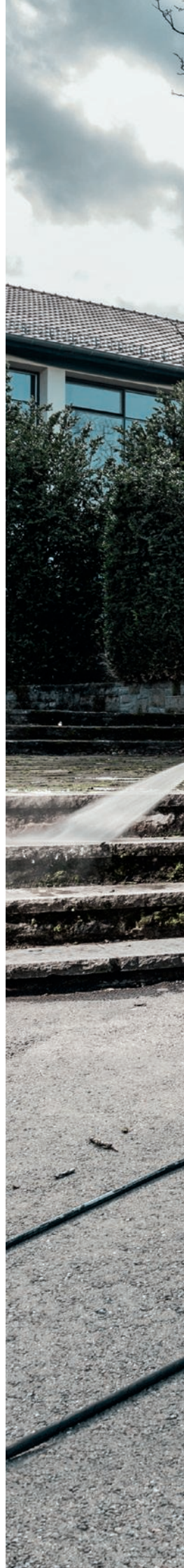
The large integrated water tank on the HDS trailer allows for independent cleaning at full performance for up to 30 minutes and, with a reduced water flow, for up to one hour. The large fuel tank means you can perform long cleaning applications without interruption.

**Individuality: you can configure your HDS trailer to match your individual requirements.** That also includes being able to opt for a forklift-compatible platform instead of a trailer. The purpose of use and existing vehicle fleet will decide whether your HDS module comes with or without an axle.

As an alternative to the trailer, you can choose the Skid or Cab platform versions which you can use on loading platforms or in a static position on site. Hose reels for the water connection and the high-pressure hose reduce the set-up times and provide safe storage.

**Efficiency: The combination of effective Kärcher burners, powerful heat exchangers and eco!efficiency mode results in noticeable savings in fuel and reduces emissions to a minimum.** An HDS trailer switches itself off no later than after a standby time of 45 minutes to save fuel. If the high-pressure gun is not actuated, automatic speed reduction lowers the noise level and fuel consumption.

- Heat exchangers that preheat the water using waste heat from the engine use up to 14 per cent less fuel.
- In Kärcher eco!efficiency mode, the water temperature is limited to 60°C, which is more than sufficient for most applications and noticeably reduces consumption.







#### Features of the HDS trailer

500 l water tank

100 l fuel tank

Yanmar diesel engine rated at 19 kW

**Skid:** HDS on frame without hood or water tank

**Cab:** HDS on frame with hood and water tank

**Trailer:** HDS on chassis with hood and water tank

# HD/HDS TRAILERS IN USE

A coherent concept always takes into account all the important aspects: the tasks, operation, attachment and removal, efficiency and environmental protection.

Our trailers are highly mobile thanks to short set-up times, extremely convenient due to electro start and ease of operation, and their large water tank and hose reel make them self-sufficient and flexible. With our trailers, you can access any location of use with ease and can even clean without a power or water supply. Fuel-efficient, clean engines in line with EU STAGE V ensure superior performance with minimum consumption and emissions.





## TYPICAL CLEANING TASKS IN MUNICIPALITIES

- **Cleaning of public areas:** street furniture, rubbish bins, open spaces, play equipment
- **Cleaning of road infrastructure:** roads, tunnels, traffic lights and signs
- **Cleaning of car parks:** barriers, floors and walls
- **Cleaning of buildings in outside areas:** walls, doors, roofs and portals
- **Special cleaning:** removal of graffiti and chewing gum without a trace

## TYPICAL CLEANING TASKS ON CONSTRUCTION SITES

- **Facade cleaning and renovation:** soot, grease, bird droppings
- **Cleaning of construction vehicles and equipment:** scaffolding, concrete covers and planking
- **Restoration of monuments**
- **Building refurbishment after fires**

# SELF-SUFFICIENT, MOBILE AND SUITABLE FOR LONG PERIODS OF WORK





Technical data		HD 9/23 De	HD 9/23 Ge
Engine manufacturer		Yanmar	Honda
Engine type		L100 V/Diesel	GX 390/Petrol
Engine rating	kw / PS	7.4 / 10	9.5 / 13
Flow rate	l/h	400-930	400-930
Working pressure	bar / MPa	40-230 / 4-23	40-230 / 4-23
Max. inlet temperature	°C	60	60
Unladen weight	kg	600	600
Dimensions	mm	3,560 × 1,496 × 1,484	3,560 × 1,496 × 1,484
Fuel consumption, full load	l/h	1.9	3.5
Order no.		<b>1.524-954.2</b>	<b>1.524-954.2</b>

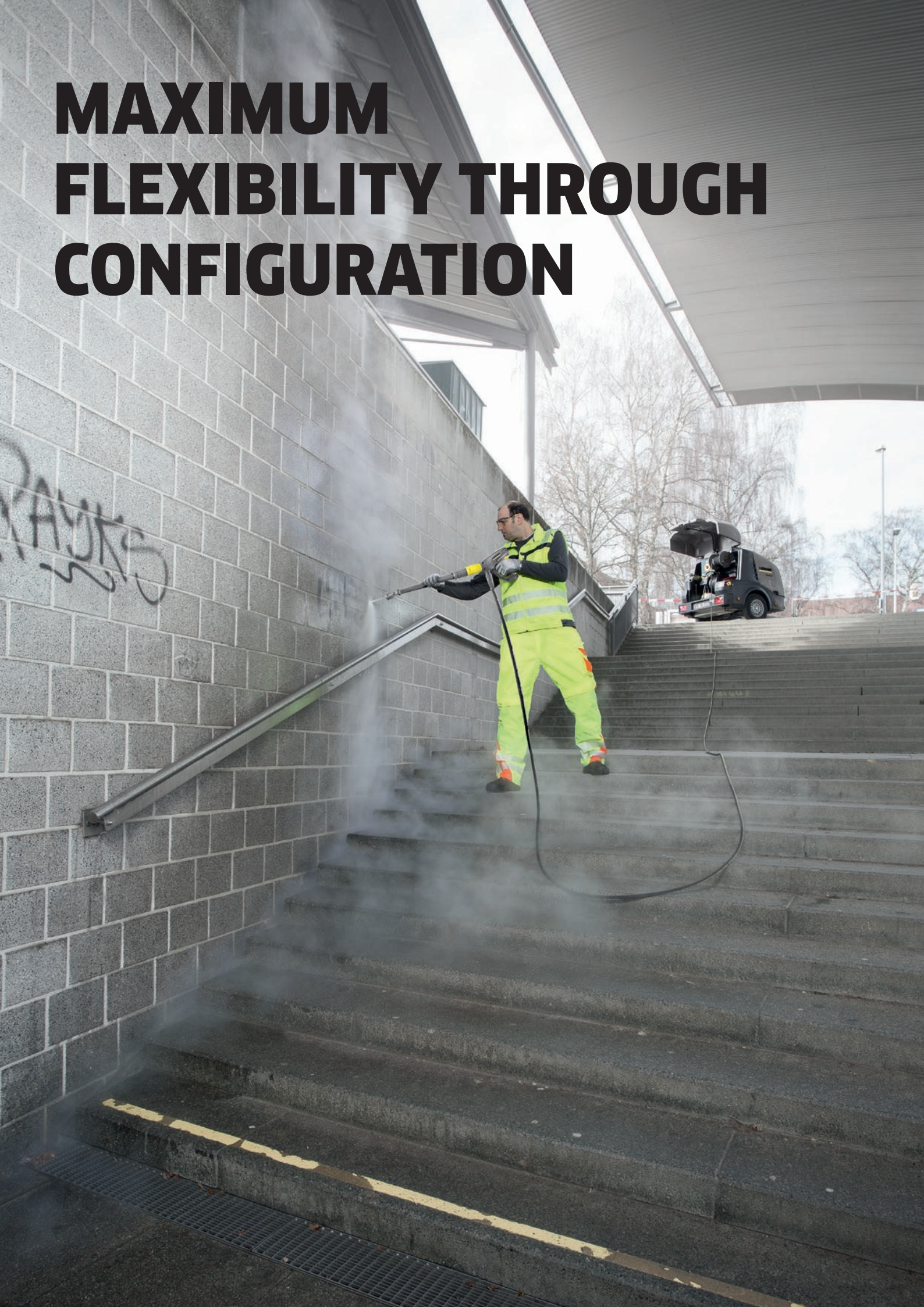
Accessories package (optional)		HD 9/23 De	HD 9/23 Ge
Spray gun		EASY!Force Advanced	EASY!Force Advanced
High-pressure hose	m	Standard: 15/Premium: 30	Standard: 15/Premium: 30
Spray lance	mm	1,050	1,050
Servo Control		■	■
Power nozzle		■	■
Dirt blaster		Premium	Premium

■ Included in the scope of supply.

Options (ex works)		HD 9/23 De	HD 9/23 Ge
		<ul style="list-style-type: none"> <li>▪ High-pressure hose reel</li> <li>▪ Tarpaulin for the rear</li> <li>▪ Protective guard and splashback for the front</li> <li>▪ 20-litre diesel canister with transport lock</li> <li>▪ Elapsed time counter</li> <li>▪ Crane hook (trailer only)</li> <li>▪ Shock absorber (trailer only)</li> <li>▪ Impact protection for water tank (trailer only)</li> <li>▪ Flashing beacon (trailer only)</li> </ul>	<ul style="list-style-type: none"> <li>▪ High-pressure hose reel</li> <li>▪ Tarpaulin for the rear</li> <li>▪ Protective guard and splashback for the front</li> <li>▪ 20-litre petrol canister with transport lock</li> <li>▪ Elapsed time counter</li> <li>▪ Crane hook (trailer only)</li> <li>▪ Shock absorber (trailer only)</li> <li>▪ Impact protection for water tank (trailer only)</li> <li>▪ Flashing beacon (trailer only)</li> </ul>

Mobility	Cab	Trailer
	<ul style="list-style-type: none"> <li>▪ On stationary frame with forklift pockets</li> <li>▪ Integrated 1,000-litre water tank</li> </ul>	<ul style="list-style-type: none"> <li>▪ On chassis, support load of 75 kg</li> <li>▪ Integrated 1,000-litre water tank</li> <li>▪ With optional shock absorber</li> <li>▪ With optional crane hook</li> <li>▪ With optional impact protection for water tank</li> <li>▪ With optional flashing beacon</li> </ul>

# MAXIMUM FLEXIBILITY THROUGH CONFIGURATION





	HDS 9/50 De	HDS 13/35 De	HDS 17/20 De	HDS 13/20 De
	<ul style="list-style-type: none"> <li>Speed reduction</li> <li>Speed control</li> <li>With optional automatic pressure relief</li> </ul>	<ul style="list-style-type: none"> <li>Speed reduction</li> <li>Speed control</li> <li>With optional automatic pressure relief</li> </ul>	<ul style="list-style-type: none"> <li>Speed reduction</li> <li>Cleaning agent dosing unit</li> <li>Servo Control</li> <li>With optional preparation for two-spray lance operation</li> </ul>	<ul style="list-style-type: none"> <li>Speed reduction</li> <li>Cleaning agent dosing unit</li> <li>Servo Control</li> </ul>

Technical data		HDS 9/50 De	HDS 13/35 De	HDS 17/20 De	HDS 13/20 De
Engine manufacturer		Yanmar	Yanmar	Yanmar	Yanmar
Fuel		Diesel	Diesel	Diesel	Diesel
Engine rating	kW	19	19	19	19
Flow rate	l/h	500-900	650-1,300	900-1,700	900-1,300
Working pressure	bar / MPa	150-500 / 15-50	100-350 / 10-35	70-200 / 7-20	50-200 / 5-20
Max. temperature	°C	85 / 98	85 / 98	80 / 98	85 / 98
Unladen weight	kg	950	950	950	950
Dimensions	mm	3,646 × 1,747 × 1,735	3,646 × 1,747 × 1,735	3,646 × 1,747 × 1,735	3,646 × 1,747 × 1,735
Diesel consumption, full load	kg/h	9.7	12.4	11.8	11.3
Diesel consumption, ecoefficiency mode	kg/h	7.5	9.3	9.7	8.2
Order no.		1.524-521.2	1.524-521.2	1.524-952.2	1.524-952.2

Accessories package (optional)		HDS 9/50 De	HDS 13/35 De	HDS 17/20 De	HDS 13/20 De
Spray gun		Industrial trigger gun	Industrial trigger gun	EASY!Force Advanced	EASY!Force Advanced
High-pressure hose	m	30	30	30	30
Spray lance	mm	700	700	1,050	1,050
Power nozzle		■	■	■	■
Servo Control		-	-	■	■
Pressure adjustment via speed regulation		■	■	□	□

■ Included in the scope of supply. □ Optional.

Mobility	Skid	Cab	Trailer
	<ul style="list-style-type: none"> <li>Stationary frame with forklift pockets</li> <li>Without water tank</li> <li>Without covers</li> </ul>	<ul style="list-style-type: none"> <li>Stationary frame with forklift pockets</li> <li>Integrated 500-litre water tank</li> <li>With covers</li> </ul>	<ul style="list-style-type: none"> <li>On chassis</li> <li>Integrated 500-litre water tank</li> <li>With covers</li> <li>With optional shock absorbers</li> </ul>

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