



# HOLDER

## HOLDER X SERIES

BENEFITS, FEATURES AND TECHNICAL DATA





# HOLDER X SERIES



## COMFORTABLE CAB

**The largest cab of its class offers maximum comfort during when working.**

- Fitted with high-quality materials
- Low noise level
- Largest amounts of headroom and legroom in its class
- Insulated glazing
- Sliding window on the right and left
- Exit on the right possible
- Air-suspension seat with seat heating
- Adjustable steering column
- Rear-view camera
- Perfect airflow for air conditioning and heater
- 12 V sockets for electric devices and 2 x USB ports
- Storage options



## DRIVE TRAIN

**Strongest and fastest machine in the segment**

- Either with petrol or diesel engine
- Powerful 42 HP / 44 HP
- Eco mode for quiet sweeping
- Large fuel tank
- High performance at low speeds



## 2 ATTACHMENT POINTS

**Perfect conditions for sweeping, mowing, watering, snow clearing and much more.**

- Front power lift
- Second attachment point for mounted units
- 1-person installation of attachments
- Very low rear section, resulting in a low centre of gravity for excellent driving characteristics and safety in all applications
- Storage stand for easy attachment changes
- Towing operation possible via 50 mm ball coupling

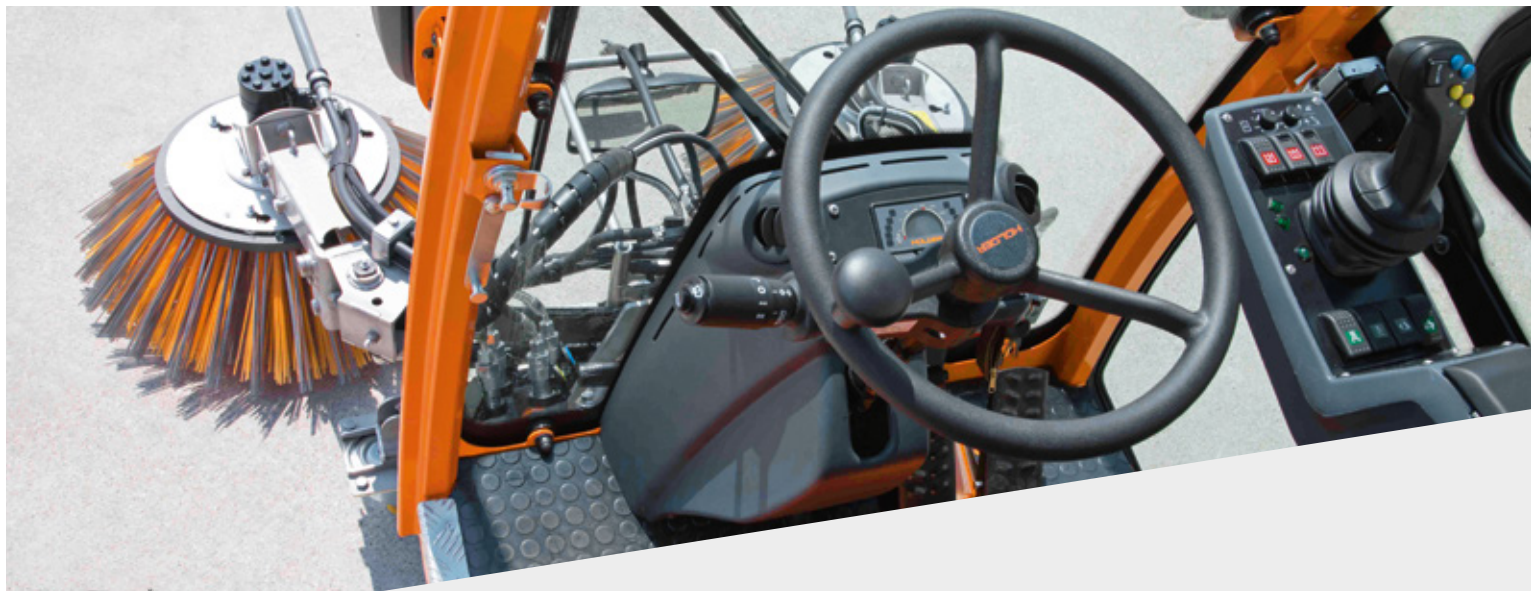


## EASY SERVICE ACCESS

**Daily service tasks can be carried out without removing the attachments.**

- Easy service access for daily servicing even with mounted attachments (diesel, hydraulic fluid, engine oil, cooling water, air filter)
- Windscreen washer container can be topped up from the outside
- Jump start possible from the outside
- Electronic control system mounted in cab for protection against moisture and dirt
- Lubrication points accessible from the outside





## ERGONOMIC OPERATING CONSOLE

**Intuitive operation enables easy and effortless working.**

- Adjustable armrest fitted to the seat
- 1-handed operation
- Standard operating concept for different attachments
- Application pre-selection via programme switch
- Short learning period thanks to intuitive operating concept
- Most important functions on joystick, including direction lever, floating position and control valve operation



## SWEEPING, MOWING, SLUICING

**Three applications with just one container.**

- X<sup>3</sup> container with a water capacity of up to 450 litres and a large container flap for very easy draining
- Sweeping/suction system with 150 l of fresh water and a water circulation system
- High-performance, rotary mower deck with rear discharge or for mowing/collection
- Varied options for irrigation, e.g. watering and sluicing
- Tank-to-tank connection system



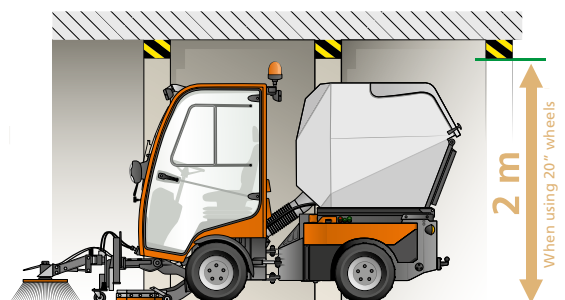
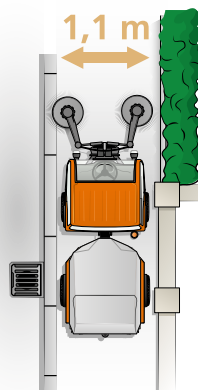


# INSPIRING TECHNOLOGY



## SUITABLE FOR PAVEMENTS AND UNDERGROUND CAR PARKS

- Compact dimensions make it suitable for a great variety of applications
- The maximum total weight including attachments is well below the legal limit for pavements (3.5 tons)
- The benefits for you: Ideal working conditions on pavements, in underground car parks, subways, courtyards and alleyways

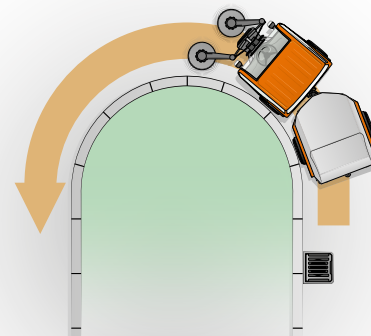






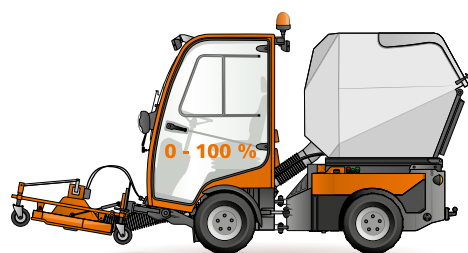
## ARTICULATED STEERING

- Front and rear sections as well as front and rear attachment move in one line
- Ensures manoeuvrability, accuracy, directional stability, very small turning circles and optimum power transmission
- The benefits for you: Less manoeuvring, less manual re-working, precise working close to the edge, soil protection and minimum tyre wear



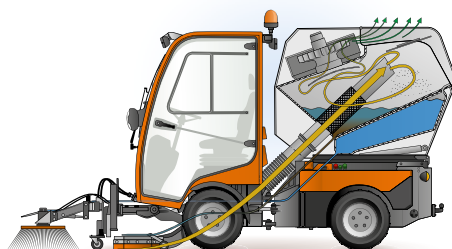
## HYDRAULIC WEIGHT COMPENSATION

- The weight of the attachment can be transferred to the whole vehicle steplessly
- Hydraulic control ensures that the soil sequence is ideally followed
- Increased traction while working, e.g. on slippery surfaces and puts less strain on attachments



## THREE APPLICATIONS IN ONE: THE X<sup>3</sup> CONTAINER

- Completely new multi-functional container for sweeping/suction, mowing/suction and irrigation
- High-quality container made of stainless steel
- 1000 l gross container volume
- One of the largest vacuum extractor fans in its class
- High suction power due to short but large suction hose
- Significant time and cost savings in addition to increased environmental protection



## POWERFUL HYDRAULICS

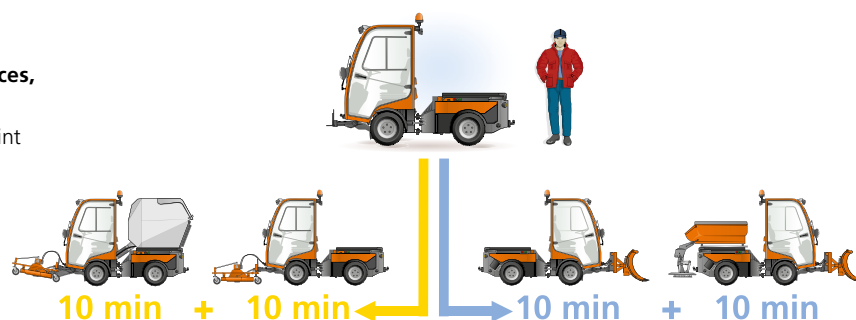
- Thanks to maintenance-free 3-pump system
- The benefits for you: Hydraulic circuits that can be operated independently for using different attachments at the same time



## FAST ATTACHMENT CHANGES

Thanks to a sophisticated design with standardised interfaces, Holder attachments can be changed quickly and easily.

- Front attachments are mounted on the front lift via a three-point linkage (ISO 730/1)
- Rear attachments, such as flatbeds, containers or spreaders, are simply pushed over the installation frame and secured with a quick-release fastener
- All that is left to do is connect the hydraulic hoses to the non-drip couplings



# THINKING AHEAD RATHER THAN RELYING ON POST-TREATMENT.

Planning security for Holder customers with small implement carriers below 50 HP.

## THE PROBLEM

The EU limit values for fine dust are frequently exceeded, especially in large cities. This results in fine dust warnings and driving restrictions in city centres.

The limit values that will come into force with the Stage V emission standard in 2019 will require exhaust gas treatment for diesel engines in the performance class between 30 and 50 HP.

## THE CONSEQUENCES

Lifecycle costs for diesel engines will double and additional operating costs will be generated.

A diesel engine that has undergone exhaust gas treatment requires approx. 30% more space, so vehicles will become larger and this vehicle class will have:

- More components
- Higher costs
- Larger/wider dimensions

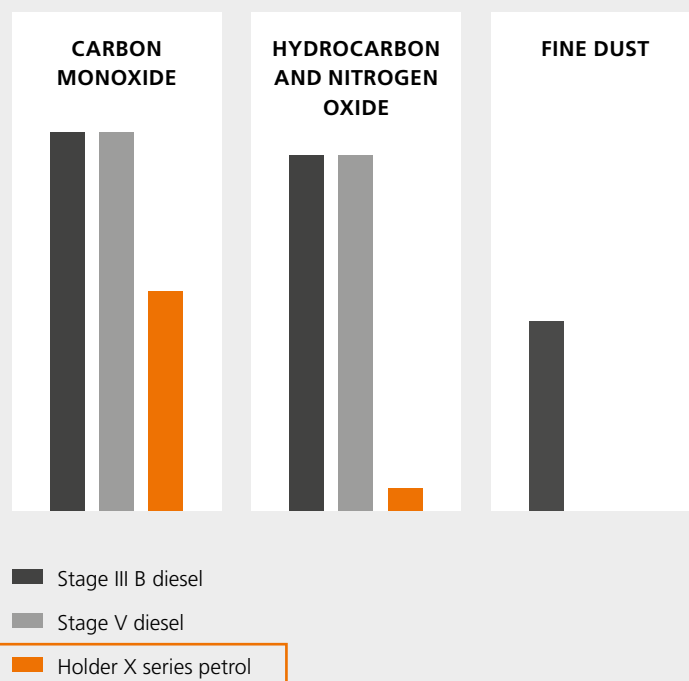


## THE SOLUTION

The Holder engineers have become the first on the market to develop a compact sweeper with a petrol engine.

This means that we are already well below the emission limit values of the coming Stage V emission standard. And we have achieved it without the complex exhaust gas treatment a diesel engine would require.

## COMPARISON OF EMISSION VALUES



## PERFECTLY MATCHED ATTACHMENTS FOR USE ALL YEAR ROUND

- X<sup>3</sup> container for sweeping, mowing, watering and sluicing
- Flatbed
- Parking devices
- 2-brush system with individual brush control
- Front sweeping brush
- Front sickle mower with optional mulching kit
- Washing bar
- Side clearing shield
- Vario snow plough
- Roller spreader
- Disc spreader

## YOU'RE IN GOOD HANDS WITH US

- Up to 36-month warranty
- Reliable spare parts supply
- Close service network and local partners
- Long service life
- Good value retention
- Rental, financing and leasing

## YOUR BENEFITS



Cost saving



Time saving



Safety



Comfort



Working result

## SPECIFICATIONS



	X 45i	X 45
<b>ENGINE</b>	Kubota 4-cylinder petrol	Kubota 4-cylinder turbodiesel
<b>Displacement</b>	1605 cm <sup>3</sup>	1498 cm <sup>3</sup>
<b>Power</b>	32.6 kW (44 HP)	31 kW (42 HP)
<b>Nominal speed</b>	2600 rpm	2800 rpm
<b>Cooling system</b>	Water cooling system	
<b>Fuel tank capacity</b>	42 l	
<b>DRIVE</b>	Hydrostatic drive, stepless speed regulation, 4 (four) equal sized wheels	
<b>Maximum speed</b>	27 km/h	
<b>Brakes</b>	Hydraulic service brake on the front axle, active on all four wheels via the hydrostatic drive, mechanical parking brake on the front axle with two drum brakes	
<b>HYDRAULICS</b>	1. circuit 55 l/min at 2600 rpm, 2. circuit 30 l/min at 2600 rpm, 3. circuit 5 l/min at 2600 rpm	
<b>Quantity of hydraulic oil</b>	19 l	
<b>Excavation force</b>	750 kg (front)	
<b>WEIGHT</b>	Includes driver of 75 kg; depends on tyres and equipment	
<b>Empty weight</b>	1280 kg	
<b>Permissible total weight</b>	2300 kg	
<b>Permissible axle load</b>	Front: 1190 kg / rear: 1190 kg	
<b>Tow bar load on the trailer coupling</b>	75 kg	
<b>Towing capacity</b>	With brakes 900 kg	
<b>Maximum payload</b>	1020 kg	
<b>DIMENSIONS</b>	Tyres: 20 x 10.00-10 / 23 x 10.50-12	
<b>Wheelbase</b>	1360 mm	
<b>Total length</b>	2870 – 2905 mm	
<b>Total height</b>	1960 mm / 2020 mm	
<b>Total outer width</b>	1094 mm (without external mirrors)	
<b>Turning circle</b>	2150 mm	
<b>SUCTION SWEEPER</b>		
<b>Container gross/net</b>	1 m <sup>3</sup> / 0.7 m <sup>3</sup>	
<b>Fresh water tank</b>	150 l	
<b>Max. sweeping width</b>	2050 mm	

**HOLDER IN ACTION: [www.youtube.com/user/maxholdergmbh](http://www.youtube.com/user/maxholdergmbh)**



**CONVENTIONAL  
SIMPLY DOESN'T CUT  
IT FOR US. FEATURES  
THAT MAKE EVERY  
DAY EASIER.**



#### **Hands-free system**

A Bluetooth hands-free system that is easy to operate and has conveniently placed control elements.



#### **Start/stop system**

Environmentally and economically sound: The system ensures that no grit is ejected from the spreader while the vehicle is stationary.



#### **Comfortable König seat**

Air-suspension driver's seat with integrated three-point seat belt, seat made from breathable mesh material for optimum ventilation during the summer and quick heating via the two-stage seat heating during the winter.



#### **Rear-view camera**

The rear-view camera makes it possible to view the sweeping result from the cab and assists safe reversing.



#### **LED daytime running lights**

For better visibility: The daytime running lights as required by Swiss road traffic regulations come in a modern LED version for the X series.

Optimum guidance, sales and service from your Holder partner:

**HOLDER**  
NO COMPROMISE

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