



**New 2- or 3-broom comfort  
sweeping technology**

**Smallest turning circle in its class**

**Increased driving and operating  
comfort**

# Citymaster 1650

Multifunctional outdoor cleaning machine in the 3.5-t class



The new Citymaster 1650 offers extremely high levels of flexibility and comfort, because this sweeper with all-wheel steering and articulated joint is also a versatile implement carrier. With a wide range of different attachments and superstructures available, this machine meets every seasonal challenge in municipal application – and provides fast and economically efficient working. In addition, the Citymaster 1650 offers a comprehensive range of innovative features providing increased operating comfort, safety and efficiency – e.g. the height-adjustable steering column, a 270° camera system or the new 2- or 3-broom comfort sweeping technology.

- **Can be driven by anyone holding a Class B driving licence**
- **Low consumption and emission values**
- **Efficient hydraulic attachment drive**
- **Spacious cabin, increased ergonomics at the workplace**
- **Full LED lighting system plus LED work light**



#### **This vehicle can work almost anywhere**

Compact, manoeuvrable, and equipped with excellent climbing power: The Citymaster 1650 can be used on all paved surfaces in the city – without restrictions and at maximum payload. From light-duty maintenance cleaning to efficient basic cleaning tasks after the winter: Hako's solution covers the entire performance range of a much larger sweeper – and thanks to its slim design and high manoeuvrability, this machine can also work in confined areas and on footpaths. The sophisticated and fully suspended chassis ensures excellent kerb-climbing abilities and trouble-free driving even on bad roads – without any adverse effects on the driver.



#### **Environmentally friendly – and pleasing to the ear**

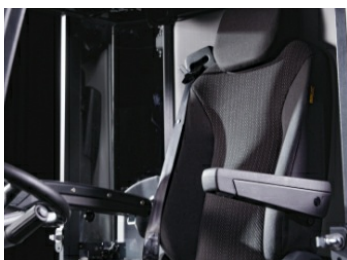
The Citymaster 1650's distinguishing benefits are its low consumption- and emission values. Intelligent drive systems provide exactly the right kind of power required for the task on hand, which increases the machine's economic efficiency. The low-emission engine with a particle filter – in combination with Hako's state-of-the-art sweeping technology providing efficient dust control and particularly low fine dust and particulate emissions on a 4-star level (United PM2.5/PM10 Test) – allows working in the city centre as well as in quiet residential areas. Even early in the morning or late at night.





## Special features

# Citymaster 1650: Clever ideas for practical application



**Improved ergonomics:** Extended seat options and the height-adjustable steering column ensure that the workplace can easily be adapted to the driver's individual needs, which is yet another benefit when the vehicle is operated by different drivers. And what's more: The fully electric foot pedals with improved ergonomics are of great benefit to everyone.



**Increased safety:** The fully glazed cabin offers a good view onto the working area. And the camera system increases the driver's field of view by another 270°, which is particularly important when turning at crossroads.



**More stable:** The widely spaced articulated joint with maintenance-free bearings provides a stable connection between the front and the rear part of the vehicle. Coil springs, shock absorbers and stabilisers ensure safe driving and kerb-climbing characteristics even when the vehicle is fully loaded.



**Brighter:** Maintenance-free full LED lighting system with a high luminous efficacy and comparatively low power requirements; and individually configurable LED work lights for the brooms, the suction duct and the rear of the cabin.



**More flexible:** Quick-change system with four interfaces; front coupling triangle providing easy changing of attachments; interface at the suction system; changing frame for superstructures; rear attachment frame for additional tools or accessories and a trailer coupling.



**More comfortable:** The chassis is fully suspended. The driver's seat is air-sprung and optimally adapted to the chassis. Together, these features ensure high levels of comfort to facilitate long working days and protect the vehicle from damage.



**More environmentally friendly:** The low-emission and low-consumption engine with a particle filter protects the environment and saves fuel. The machine's dust-control system has been independently tested and certified according to EUUnited.



**More back-friendly:** The Citymaster 1650 has been awarded the AGR quality label (by the German association Aktion Gesunder Rücken e.V.). High levels of seating comfort and flexibility as well as Hako's quick-change system allowing easy one-man operation without the need for tools make this machine particularly back-friendly, which has been independently tested and approved by AGR.



## Multifunctionality

# Multifunctional: For all-season use

The Citymaster 1650 can work all year round. In months with fewer sweeping tasks or when the sweeper can't be used at all due to bad weather conditions, the machine offers additional application options such as winter service tasks or utilisation as a versatile implement carrier for green area and road-side greenery maintenance.



### Sweeper with 2- or 3-broom systems

You can select (and switch between) 2- or 3-broom systems for the Citymaster 1650.

- 2-broom comfort sweeping unit: equipped with a broom-head-adjustment system that allows adapting the broom settings to kerbs of different heights and inclinations, available for right- and left-hand drives.

### Designed with much attention to detail: Suction system and hopper

- All sweeping systems work with tangential suction and energy-saving fans to allow reliably good sweeping results while protecting pavement joints.
- Hako's patented circulating water system provides maximum dust control.
- The efficient separation system ensures maximum filling of the hopper.



### Winter service: powerful against ice and snow

Whether clearing snow or fighting black ice: In the winter, the Citymaster 1650's uncompromising multifunctionality unleashes significant efficiency and economic advantages.

### Snow clearing with the Citymaster 1650

With the Citymaster 1650, cities and municipalities are perfectly equipped for snow clearing tasks. A wide range of suitable snowploughs, universal front sweepers or single-purpose snow sweepers are available for every possible application to allow flexible adaptation to different amounts of snow and weather conditions. In addition, our rotary snowploughs, available in tiered performance classes, can cope with even extremely large amounts of snow.

### Fighting black ice with our high-performance solutions

Equipped with a loading bed, a rear-mounted gritter or a top-mounted silo gritter, the Citymaster 1650 can be easily adapted to meet individual requirements in the field of salting and gritting.

- Whether using sand, grit, granulate or salt – you can choose from our selection of cylindrical gritters for use on footpaths, combi gritters for use in car parks, or silo gritters in tiered performance classes.
- In addition, a brine spraying system is available for special applications.





### **Green area maintenance: versatile use, high area coverage**

The Citymaster 1650's multifunctionality ensures highly efficient green area maintenance. Whether the task on hand is lawn mowing or the maintenance of parks and sports fields: This "One for All" machine offers powerful performance at maximum economic efficiency.

### **Mowing-suction combi with a universal hopper**

The Citymaster 1650's universal hopper can also be used for lawn mowing tasks. The central suction system ensures that roadside greenery can be safely maintained without interfering with the flow of traffic, and allows working close to kerbs on either side of the road. The vacuum suction system is wear-free and easy to clean. Blockages are reduced to a minimum. The vacuum ensures compacting of the grass. And yet another advantage: The compact mower can also be used as rear-discharge mower or a mulch mower.

### **Citymaster 1650: maintains large intensive and extensive areas**

The Citymaster 1650 provides versatile use on large areas. Equipped with suitable attachments, this machine always offers the right solution.

- Large-area rotary mowers, available as a rear-discharge or a mulch mower: for demanding maintenance tasks in public parks or on sports fields
- Different flail/ mulch mowers: for extensive yet less frequently used areas requiring little maintenance



### **Citymaster 1650 CityCleaner: wet cleaning and oil spill removal**

Equipped with the CityCleaner scrub deck attachment, the Citymaster 1650 turns into a powerful machine providing intensive wet cleaning, and can also be used for the efficient removal of oil spills.

### **Intensive cleaning: gentle yet effective**

Equipped with the CityCleaner scrub deck, the Citymaster 1650 provides powerful wet cleaning while going easy on joints and surfaces. The machine can be used on both asphalt and concrete surfaces as well as on simple or high-quality paving and on coated floors as used, for example, in multi-storey car parks.

- Fully integrated in the quick-change system
- Ready to use in no time at all when combined with the universal hopper
- Fresh and circulating water system for long operating times

### **Oil spill removal**

The Citymaster 1650 CityCleaner has been independently certified for its suitability to clean traffic areas after accidents involving oil spills. Independently tested: Traffic safety is reliably restored after just a single application. Oil, particles and recovered water are collected in the universal hopper.

- Pre-cleaning with circulating water and simultaneous intake of particles (up to 25 mm)
- Post-cleaning with fresh water
- Specially formulated cleaning chemicals



Sweeping



Wet cleaning



Winter service



Green area  
maintenance



Transport

Technical data

Citymaster 1650 at a glance

Citymaster 1650	
Engine (type, emission standard, exhaust gas treatment)	Diesel, 55kW, Stage V, DOC, DPF
Type approval / driving licence	Tractor T2a, Class B
Drive	Hydrostat, 4x4, 40 km/h
Chassis and steering	chassis with fully hydraulic articulated steering, fully suspended chassis with coil springs and shock absorbers, attachment quick-change system
Tyres	225/70 R15C // 255/65 R16 // 320/55-15 T559
Braking system	disc brake at the front, integrated parking brake at the rear
Cabin	ROPS-tested 1-person safety comfort cabin, safety glazing. 2 doors with sliding windows, hot water heating / air conditioning (option).
Unladen weights	2.035 kg / 2.570 kg / 2.690 kg / 2.570 kg (Total weight/2B/3B/CC)
Permissible weights	3.500 kg / 1.700 kg / 2.400 kg (GVW/VA/HA)
Dimensions	3830 x 1210 x 1970 mm