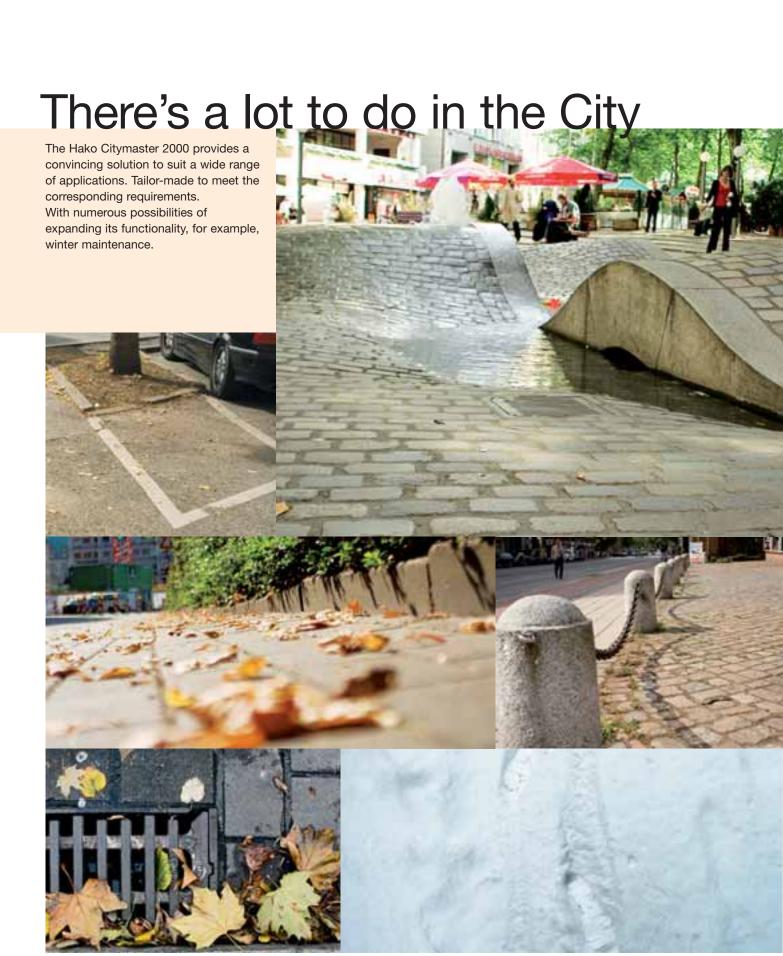




For a cleaner city. City Cleaning



Professional Solutions

The Hako Citymaster 2000 has been designed for use all year round and sets new standards in terms of use and driver comfort.

With heated front windscreen, as standard, for cold days or the connectible four wheel steering in working mode (which remains in its tracks) and many additional extras, the Hako Citymaster 2000 leaves nothing to the desired. With a hopper volume of 1.85 m³ the machine is able to achieve long usage times both in narrow, restricted areas as well as on open spaces and thus increases the effectiveness.

With the optional winter maintenance preparation, the Hako Citymaster 2000 can be operated as a full winter maintenance machine with an attachment gritter or dry material or damp salt attachment gritter with 800 I dry material volume.

- Excellent visibility of the area being cleaned as a result of large viewing windows.
- Comfort cab both for the driver and the passenger. Equipped with height and rake adjustable steering column. Handball support for fatigue-free operation of the joysticks.
- Warm water heating and multi-stage blower. Optional air conditioning.
- Comfort sprung driver's seat and passenger seat with adjustable back rest fitted as standard.
 Optional driver's seat with raised back rest, lumbar support and head rest, sprung passenger seat or air sprung driver's seat.
- Optional: integrated noise insulation package, enabling the Hako-Citymaster 2000 to achieve a noise level of only 99 dB(A). Thus it is possible to use the machine in noise-sensitive areas, even during the night.





Hako-Citymaster 2000 2B

2 Brush System

The Hako Citymaster 2000 with 2 brush system – as a heavy-duty sweeper – with its max. sweeping width of 2.50 m and the automatic four wheel steering switched on in working mode – ensures cleanliness not only on large areas but also in narrow, restricted areas and 90° corners, all year round.

As a result of the separate brush control the Hako Citymaster 2000 2 B is particularly suitable for narrow areas, in which a separate swivelling of the brushes and the highest possible flexibility is required. With the standard four wheel steering, which remains in its tracks, the Hako Citymaster 2000 can be manoeuvred in every corner or narrow alleyway.

- Designed for heavy-duty sweeping use. As a result of the extreme suction performance ideally suited for heavy, stubborn dirt.
- Standard recirculatory water system for dust control in the suction mouth, for extremely dirty applications additional clean water nozzles on the brushes and in the suction box/shaft.
- Easy to clean, smooth dirt hopper without indentations.



- Separate brush control for the Hako Citymaster 2000 2 B.
- Sweeping system connection via the front coupling triangle, as a result possible to easily alternate between summer and winter maintenance equipment.
- Patented collision protection of the sweeping system in three directions, whereby a minimisation of the costs incurred as a result of collision damage is achieved.





Hako-Citymaster 2000 3B

3 Brush System

- The Citymaster 2000 with 3 brush system as a heavy-duty sweeper is convincing as a result of its multi-functionality in summer as well as in winter. With a max. working width of 2.60 m and the automatic four wheel steering switched on in working mode, the Citymaster 2000 with 3 brush system is ideal for working on wide paths as well as for sweeping on two levels, around traffic islands and e.g. in gutters.
- Designed for heavy-duty sweeping use e.g. as a result of the extreme suction performance ideally suited for heavy, stubborn dirt.
- Standard recirculatory water system for dust control in the suction mouth, for extremely dusty applications, additional clean water nozzles on the brushes and in the suction box/shaft.
- Easy to clean, smooth dirt hopper without indentations.
- Separate brush control for the pulled brush and the 3rd brush.



- Sweeping system connection via the front coupling triangle, as a result possible to easily alternate between summer and winter maintenance equipment.
- Collision protection on the pulled brushes, which are arranged and protected underneath the cab and are able to retract underneath the cab in the event of a collision from outside. The third brush is

equipped with a joint and can thus get out of the way in the event of a collision.

After a collision the brush returns to its starting position and work can be carried on as normal.

As a result a minimisation of the costs incurred due to collision damage is achieved.



Fit for the environment...

- The Citymaster 2000 is equipped with an environmentally-friendly
 2.0 I industrial engine with integrated soot particulate filter.
 - This soot particulate filter remains maintenance-free over the whole machine life, which means that no additional costs are incurred. The system filters approx. 95% of the soot particles from the used air and thus reduces the share of noxious substances from the exhaust fumes.
- The hand held suction hose (optional) guarantees quick, easy and simple operation. It is mounted on the rear hopper door and is integrated in the total height of the vehicle. As a result entrances in underground car parks or places with height restricted access do not prove to be a problem.
- Thanks to the swinging arm and a length of approx. 3 m it is possible to work on both sides of the vehicle.



eco-friendly



- The hand-held suction hose has a diameter of 120 mm, whereby sufficient suction power exists for any requirements. After work has finished the suction hose can be packed away again safely and protected against collisions.
- Handy: toolbox as a storage area for the standpipe, C-hose and further small parts at the rear of the vehicle.

Hako-Citymaster 2000 WD

<u>in winter too.</u>



- The Hako Citymaster 2000 is just as much in its element doing winter maintenance tasks.
- For small winter maintenance jobs a gritter attachment is available for sand, salt and grit. Combined with a front mounted sweeper or various sprung flap snow ploughs, with a working width up to 170 cm, there is nothing in the way of snow removal and speedy gritting of footpaths and cycle tracks.
- For seasonal adaptation, to deal with large winter maintenance tasks, a gritter attachment (dry material or damp salt gritter), with a max. 8001 dry material capacity, is available for extensive gritting of roads, footpaths and cycle tracks.

NEW: both mini and maxi winter maintenance equipment can be operated at a speed of 45 km/h as an option. Thus there is nothing standing in the way of effective use on long paths or roads. With this expansion of its functions the Hako Citymaster 2000 ensures

that areas can be walked on and driven upon safely all year round and not just during the sweeping

As a result of possible use all year round the effectiveness is increased and fleet costs reduced.



Technical Data

Engine: Water-cooled large size industrial turbo diesel engine, VW 2.0 I, 74.0 kW, IMO EURO IV CBKA, (100 hp) at 3,000 rpm. With maintenance-free soot particulate filter in a closed system. 4 cylinder 4 stroke engine. Injection pump system, water cooling, working revolutions 1900 - 2200 rpm. Regulation of working revolutions via TIP UP-DOWN switch. Emission levels according to Euro 4. Fuel tank 50 litres.

Drive transmission: Hydrostatic drive with electronic control. 2 drive stages to be switched under load, differential lock (acting on rear axle). Drive control with automatic load regulation in transport and work mode or specified engine revolutions (noise limitation).

Drive performance: Transport mode: 0-50 km/h, working mode 0-15 km/h, reverse transport mode 0-25 km/h, reverse working mode: 0-15 km/h. Optional winter maintenance up to 45 km/h.

Chassis and steering: Welded frame, dropped in the front part and angled, rigid axles guided at longitudinal swinging arms and Panhard rod, helical spring system, additional rubber springs and hydraulic shock absorbers. Hydrostatic front wheel steering with connectible four wheel steering.

Tyres: Standard: 4 wheels on 6J 15 H2 ET 50 rims, tyres: 215/70 R 15 C. Special tyres 255/75 R15 available.

Brakes: Hydraulic dual circuit brake system with servobrake and load-dependent regulation of braking power on front and rear axle. Tandem vacuum servobrake, automatic brake re-adjustment, mechanical parking brake acting on rear axle.

Cabin: 2-seat full comfort cabin in space frame design with airsprung comfort driver's seat, adjustable to the driver's weight. Ergonomic arrangement of all operational elements. Warm water heating and heated, tinted wrap-around windscreen, made of safety glass, fitted as standard: large glazed doors with sliding

windows and large viewing window in the bottom part.; folding wing mirrors adjustable from inside; air conditioning system optional.

Sweeping unit: 1.85 m3 stainless steel tank, hydraulic tipping to 45°, emptying height 1,450 mm. Quick exchange front mounted sweeper unit in view of the driver. Hydraulically drive plate brushes, brush speed and working width adjustable from the driver's seat, side and front collision protection.

Fan: High-performance multi-bladed radial fan, rubber-cushioned and sound-proofed.



Power lift/attachments: Front power lift with 2 double-acting hydraulic cylinders (lifting, lowering, ground pressure) and floating position with quick coupling triangle cat. 1 N. Lifting capacity at coupling triangle

Dimensions and weights CM 2000 2B/CM 2000 3B:

Length with brushes	mm	4.550/4.947
Width (fixed parts/without mirrors)	mm	1.300
Height (standard tyres)	mm	1.995
Unladen weight acc. to German StVZO	kg	2.900/3.000
Maximum laden weight	kg	4.500
Wheelbase	mm	1.900
Track width	mm	1.033
Ground clearance, overall	mm	150
Maximum sweeping width	mm	2.500/2.600
Clean water tank	1	330

We reserve the right to change the shape, colour and design of machines in the interests of continued technical development.

Everything speaks for Hako:



Cleanliness with safety. Hako machines adhere to strict quality regulations/standards -"Quality made by Hako". We also take care of what we sell -world-wide.

Sales, hire, leasing, rental. With Hako, you can plan your capital expenditure on a completely individual basis. You can enter into short-term. medium-term or long-term agreements So you can get on again as quickly with regard to machine usage.



We are there for you day and night. Round-the-clock service and express spare parts delivery - order today and have the parts tomorrow! as possible.



Close to you, wherever you are. The unsurpassed, close knit Hako sales and service network means we are always close at hand a bonus when you need us. Convince yourself.



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