

Basic unit Citymaster 1650

Motor:

Water-cooled HATZ 2.0 TDI 4-cylinder diesel engine 55 kW (75 hp) @ 2,700 rpm

Working speeds selectable 1,600 - 2,400 rpm (ECO/Standard/MAX)

CommonRail direct injection, 1,952 cm³, tank capacity 52 l,

Exhaust gas values according to Directive 2016/1628/EC Stage V, DOC, DPF, self-cleaning and permanently durable.

Homologation:

EU type approval as EU tractor T2a.

Drive system:

Hydrostatic, 2-stage drive via 4 wheel motors. Permanent all-wheel drive with automatic load and slip compensation.

Automotive travel drive with automatic load control and engine speed adapted to the driving speed when driving on the road via 2 foot pedals. Load- and speed-dependent gear shifting. Constant engine speed working stage (ECO/Standard/MAX) and travel speed control via 2 accelerator pedals.

Drive stages:

Transport mode: 0-40 km/h

Work mode: 0-24 km/h

Fast Winter: 0-40 km/h (spreader operation only)

Reverse mode: 0-12 km/h.

Chassis and steering:

4-wheel chassis with maintenance-free articulated joint. Fully hydraulic steering with 45° steering angle. Full-suspension chassis with coil springs and shock absorbers, Panhard rod front and rear, additional stabilizer at the rear for low roll tendency,

Attachment quick-change system.

Tyres:

front/rear 225/70 R15C standard tyres

front/rear 255/65 R16 universal tyres

front/rear 320/55-15 T559 turf tyres

Brakes:

Wear-free service brake on all 4 wheels by relieving the accelerator pedal, additional hydraulic disc brake acting on the front axle, brake pressure and load-dependent support by travel drive on both axles, electrohydraulic parking brake acting on the rear axle.

Driver's cab:

ROPS-approved 1-person safety comfort cabin, safety glass glazing, hot water heating system with air conditioning. 2 framed doors with sliding windows. Fully retractable side mirrors on the left and right. Driver's seats and belt systems see options. Steering column adjustable (see options).

Storage areas for personal equipment.

Multi-function display for machine control, display of operating states and machine parameters. One-handed machine operation integrated into the armrest on the right with rotary pushbutton and 2 joysticks.

Electrical system:

12 volt system, battery 12 V 85 Ah, three-phase alternator 14.4 V 150A. Lighting according to EC type approval (see options), work lights. Preparation of the rotating beacon (foldable socket). 7-pin trailer socket, control cable 7-pin steering column cab rear panel. 3-pin socket: 12V power supply for external control units and path signal. USB charging socket 2-way.

Wir erklären hiermit die Werte und Eigenschaften für das beschriebene Fahrzeug als übereinstimmend mit der technischen Ausführung zum angegebenen Gültigkeitszeitpunkt. Daten und Informationen aus Dokumenten mit früherem Erstell-Datum verlieren hiermit ihre Gültigkeit. Technische Änderungen im Sinne des Fortschrittes vorbehalten.

We herewith declare values and properties of the described vehicle as conform to the technical specification at the indicated date of validity. Data and information published in previously edited documents become invalid with this declaration. Technical modifications in the interests of progress reserved.

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Hydraulic system:

Load-sensing high-pressure hydraulics with electrically switched control block. Hydraulic hand pump for emergency container operation and release of the parking brake.

Hydraulic circuit front	0-50/0-70 l/min@225 bar
Hydraulic circuit rear	0-32 l/min@195 bar
Actuator front	2x double-acting
Tail actuator	1x double-acting

Water system:

Fresh water system with electric water pump. Water volume adjustable, fresh water tank approx. 200 litres with electronic level indicator. Suction line for high-pressure cleaner with connection in the rear of the vehicle.

Power lifts/connections:

Hydraulic front linkage lifting capacity 600 kg (note the centre of gravity of the attachment) in conjunction with quick-coupling triangle Cat. 0. Front lift with countersink throttle and downforce adjustment (option).

Suction hose and attachment interface for dirt and grass pick-up, rear implement connection for sand and salt spreaders up to 450 kg. Loading platform (option) load capacity 500 kg (note permissible rear axle load). Preparation for towing device (option).

Dimensions basic machine:

Length over all*	mm	3.829
Vehicle width (without mirrors)	mm	1,210
Radbreite (225/65R16C)	mm	1.210
Wheel width (255/65R16)	mm	1,280
Height (225/65R16C)	mm	1,970
Height (255/65R16)	mm	1,985
Wheelbase:	mm	1,600
Track gauge (depending on tyres)	mm	975 -1,055
Tropics (225/65R16C)		
Dwi	mm	2,575
Dsa	mm	5.142
Dwa	mm	5.514

*) without pulling device / with pulling device +185 mm

Weights:

Empty weight basic unit*	kg	2,035
Permissible total weight	kg	3,500
Permissible axle load front	kg	1,700
Permissible axle load rear	kg	2,400
Towing capacity unbraked	kg	750
with permissible gross combination weight 4,250 kg / 12% incline		
Towing capacity braked	kg	2,000
with permissible gross combination weight 5,250 kg / 12% incline		

* CM1650 Comfort, incl. driver 75 kg,
deviations depending on equipment

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Vehicle dimensions when equipped with Citymaster 1650 2B sweeper:

Length over all	mm	4.510	
Curb weight according to StVZO*	kg		2,570
Sweeper payload	kg	930	

Vehicle dimensions when equipped with Citymaster 1650 3B sweeper:

Length over all	mm	5,170	
Curb weight according to StVZO*	kg		2,690
Sweeper payload	kg	810	

Vehicle dimensions when equipped with Citymaster 1650 CityCleaner:

Length over all	mm	4.634	
Curb weight according to StVZO*	kg		2,570
Payload of the waste container	kg	930	

*) incl. driver 75 kg, deviations depending on equipment

Optionally with sweeping equipment additionally:

“Blue Angel” (RAL UZ 59a ecolabel):

The Citymaster 1650 has been awarded the Blue Angel for particularly low noise emissions during sweeping operations.

<https://www.blauer-engel.de/de/produktwelt/gewerbe-kommune/kommunalfahrzeuge>

Sweeping unit 2-broom (option):

Front-side vacuum sweeper unit on quick-change coupling triangle with 3-fold collision-protected disc broom in the driver's field of vision. Suction mouth between the wheels. Two hydraulically driven mounts for disc brushes 900 mm (option).

Maximum sweeping width 2,250 mm. Broom speed adjustable 0120 rpm. Working width right/left separately hydraulically adjustable via broom control. Broom inclination 2-fold and individually adjustable, broom pressure individually adjustable.

Sweeping unit 3-broom (option):

Vacuum sweeper unit on the front side on quick-change coupling triangle with header broom protected against collision in the driver's field of vision. Suction mouth between the wheels.

Basic broom: Two hydraulically driven mounts for 720 mm drawn disc brushes (option). Maximum sweeping width 1,890 mm. Broom speed adjustable 0120 rpm. Broom pressure hydraulically adjustable, working width hydraulically adjustable, broom inclination 2-fold and individually adjustable.

Feed brush: 1 hydraulically driven holder for disc brush 900 mm (option), separately adjustable broom speed / broom pressure, hydraulically adjustable working width, sideways reversible right / left with automatic broom rotation direction reversal and automatic spray nozzle adjustment. Additional overload protection in the broom arm, total working width up to 2,350 mm. All brooms with hydraulic broom lift and parallelogram guide for constant sweeping level.

CityCleaner (Option):

Front-mounted scrubbing unit with oscillating housing, 3 brushes 460 mm / total working width 1,240 mm with gimbal suspension, tool-free brush quick-change system. Integrated wastewater recycling system, optionally fresh or circulating water operation. Directly behind the deck, separately extendable suction mouth with ramp collision protection, additional collision protection via deflector rollers and flexible suspension.

Suction mouth (option) / suction channel:

Steel suction mouth guided on castors with coarse waste flap. Suction mouth width 550 mm, Hydraulic suction mouth lifting. Suction duct Ø 180 mm, laid straight and streamlined.

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Dust binding:

PM2.5/PM10-EUnited Fine Dust Certificate 4 stars.

Metered water sprinkler on both disc brushes and in front of the suction mouth, additional fresh water supply into the suction mouth for additional dust binding. Supply from vehicle-side water tank. Optional Storz D/C water filling connection for fresh water tank with free-fall section. Gravity circulating water system approx. 180 litres, of which 80 litres are integrated in the bottom of the container.

Waste container (option):

Fully fillable waste container made of corrosion-resistant aluminium alloy. Nominal volume 1,500 l, total volume / usable volume (DIN EN 15429): 1,433 / 1,086l. Container payload 1,000 kg. Hydraulically tiltable, hand pump for container tipping in an emergency via basic unit. Emptying height 1,450 mm, emptying width 930 mm.

2 maintenance and cleaning openings in the front area, Storz C circulating water filling connection with free-fall section in the container wall

Suction fan:

Hydraulically driven centrifugal blower. Exhaust air duct via container lid. Water connection for cleaning.

The sweeping body meets the requirements of 2000/14/EC 99dB(A).

Manual suction hose (optional) :

Self-retracting telescopic hand-held suction hose that can be used on both sides of the vehicle, operating length up to 3.80 m, diameter 125 mm, permanently ready for operation in the middle of the vehicle

High-pressure cleaner (option):

High-pressure pump integrated in the tank 13 l/min @ 120 bar with spray lance and hose 10 m. Supply from fresh water tank.

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