

Valid from 01.01.2021

## Engine:

Watercooled HATZ 2.0 TDI 4-cylinder diesel engine 55 kW (75 HP) @ 2,700 rpm  
Work speeds selectable 1,600 - 2,400 rpm (ECO/Standard/MAX)  
CommonRail direct injection, 1,952 cm<sup>3</sup>, fuel capacity 52 l,  
exhaust emissions according to 2016/1628/EC stage V, DOC, DPF, self cleaning and lifetime proof.

EU vehicle homologation as EU-tractor T2a.

## Drive:

Hydrostatic 2-stage drive with 4 wheel motors. Permanent all-wheel drive with automatic load and slip compensation. Automotive drive with automatic load sensing and engine speed adjusted to travel speed in travel and work mode via 2 foot pedals. Load- and speed-dependent driving mode switching. Work mode with constant engine speed (ECO/Standard/MAX) and control of drive speed via 2 foot pedals.

## Driving modes:

travel mode:	0-40 km/h
work mode:	0-24 km/h
quick winter service	0-40 km/h
reverse mode:	0-12 km/h.

## Chassis and steering:

4-wheel-chassis with maintenance-free articulated joint. Fully hydraulic steering with steering angle 45°. Fully suspended chassis with spiral springs and shock absorbers, Panhard rod front and rear, in the rear additional stabiliser for low rolling risk Attachment quick-change system.

## Tires:

front/rear	225/70 R15C Standard tires
front/rear	255/65 R16 Universal tires
front/rear	320/55-15 T559 turf tires

## Brakes:

Wear-free operating brake on all 4 wheels by relief of the drive pedal, additional hydraulic disc brake acting on the front axle, brake pressure and load dependent brake support by hydraulic drive system on both axles, electrohydraulic park brake acting on the rear axle.

## Driver's cabin:

ROPS-tested 1-seat safety comfort cabin, safety glass, water heating system with air conditioning. 2 frame-type doors with sliding windows. Fully folding rear view mirrors left and right. Driver's seats and belt systems according to options list. Steering post adjustable (see options). Stowing areas for personal items. Multifunctional display for machine control, display of the operating conditions and machine parameters. Right arm rest with integrated one-handed machine control with turning-pushing lever and 2 joysticks.

## Electric system:

12 Volt-system, battery 12 V 85 Ah, AC generator 14.4 V 150A .  
Light equipment according to EC-type approval (see options), working spotlights, preparation beacon (foldable socket), 7-line command line drivers post to back of cabin, 3-pin socket at drivers post 12V DC supply to external control boxes incl. speed signal. Twin USB-charger socket.

## Hydraulic system:

Load sensing high-pressure hydraulic system with electrically commanded control block. Hydraulic manual pump for emergency hopper actuation and loosening of the park brake.

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

## Water system:

Fresh water system with electric water pump. Water flow adjustable, fresh water tank approx. 200 litres with level indicator. Suction hose for pressure washer incl. connection port in vehicle rear.

## Front lift / attachment points:

Hydraulic front lift capacity 600 kg (observe centre of gravity of attachment device) in connection with quick-couple triangle cat. 0. Front lift-out with throttle valve and hydraulic pressure adjustment (optional). Extraction hose and attachment interface for dirt and grass collection, rear implement attachment for sand and salt spreader up to 450 kg. Loading platform (option) capacity 500 kg (observe admissible rear axle load). Prepared for trailer hitch (option).

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# Citymaster 1650



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## Basic machine

### Dimensions:

length over all*: mm	3,830
vehicle width without mirrors mm	1,210
wheel width (standard tires): mm	1,210
wheel width (universal tires) mm	1,280
wheel width (grass tires): mm	1,375
height (standard tires): mm	1,970
wheel base: mm	1,600
track width (dep. on tires): mm	975-1,055
turning radius inside: mm	1,290
turning radius outside mm	2,760
*) without trailer hitch / with trailer hitch +185 mm	

### Weights:

unladen weight basic device* kg	2,035
max. laden weight kg	3,500
max. front axle load kg	1,700
max. rear axle load kg	2,400
trailer load unbraked kg	750
at permissible train weight 4,250 kg / 12% slope	
trailer load braked kg	2,000
at permissible train weight 5,250 kg / 12% slope	

\* CM1650 Comfort, incl. driver 75 kg,  
May vary according to equipment

### Vehicle dimensions in combination with Citymaster 1650 2B sweeper:

length over all mm	4,510
unladen weight according to road homologation* kg	2,570
sweeper payload kg	930

### Vehicle dimensions in combination with Citymaster 1650 3B sweeper:

length over all mm	5,170
unladen weight according to road homologation* kg	2,690
sweeper payload kg	810

\* CM 1600 Classic, may vary according to equipment

### Vehicle dimensions in combination with Citymaster 1650 CityCleaner:

length over all mm	4,634
unladen weight according to road homologation* kg	2,570
hopper payload kg	930

\* CM1650 Comfort, incl. driver 75 kg,  
May vary according to equipment

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## Optional with additional sweeping equipment:

### „Blauer Engel“ (eco label RAL UZ 59a):

The Citymaster 1650 is labelled with the eco label „Blauer Engel“ for being especially silent during sweeping.  
<https://www.blauer-engel.de/en/products/business-municipality/municipal-vehicles>

### Sweeping unit 2 brooms (option):

Front sweeping unit on quick-couple triangle with triple collision protected brooms in direct view of the driver. Suction mouth collision protected between the wheels. Two hydraulic broom drives for brooms 900 mm (option). Maximum sweeping width 2,250 mm. Broom speed adjustable 0-120 rpm. Work width right/left hydraulically controlled separately via broom control. Broom inclination adjustable 2 axis manually and separately, broom pressure adjustable manually and individually.

### Sweeping unit 3 brooms (option):

Front sweeping unit on quick-couple triangle with collision protected brooms in direct view of the driver. Suction mouth collision protected between the wheels.

Base brooms: Two hydraulic drives for brooms 720 mm (option). Maximum sweeping width 1,890 mm. Broom speed adjustable 0-120 rpm. Broom pressure hydraulically adjustable, working width hydraulically adjustable, broom inclination adjustable 2 axis manually and separately.

Front broom: 1 hydraulic drive for broom 900 mm (option), separate control of speed and pressure, working width hydraulically adjustable, side shift option with automated broom turning reverse and automatic spray nozzle adjustment. Additional overload protection in broom arm. Total working width up to 2,350 mm. All brooms with hydraulic lift and parallel link for continuous sweeping pattern.

### CityCleaner (option):

Front mounted scrubbing deck with pendular body, 3 brushes 460 mm / total working width 1,240 mm, gimbal-mounted, quick change of brushes without tools. Integrated dirt water recycling system, optional fresh or recycling water operation. Squeegee directly behind brushhead, independent lift. Ramp climbing ability, additional collision protection by deflector rollers and flexible pick-up.  
Delivered without brushes.

### Suction mouth / suction canal (option):

Steel suction mouth on rollers with large debris flap. Suction mouth width 550 mm, hydraulic lift. Suction canal -Ø 180 mm, straight and aerodynamic layout.

### Dust control:

PM2.5/PM10-EU fine dust certificate 4 stars.

Adjustable water spray system at both brooms and water injection into the suction mouth for additional dust control. Feeds from vehicle tank 200 l. Optional water filling connection Storz D/C with gravity route. Gravity recirculation water system approx. 180 litres integrated in hopper bottom.

### Dirt hopper (option):

Fully usable dirt hopper from corrosion-resistant aluminium alloy. Nominal volume 1.500 l, total volume / useful volume (EN 15429): 1.433 / 1.086 l. Hopper payload 1,000 kg. Hydraulic tilting, hand pump for emergency hopper tipping via basic device. Dumping height 1,450 mm, dumping width 930 mm. 2 maintenance and cleaning openings in the front area, circulation water filling connection Storz C with gravity route in hopper wall

### Suction fan:

Hydraulically driven radial fan. Waste air duct via hopper lid. Water connector for cleaning. The sweeping setup meets the requirements of 2000/14/EG 99dB(A).

### Wander hose (optional):

Self-retracting telescopic handheld suction hose that can be used on either side of the vehicle; working length up to 3,80 m, diameter 125 mm, stored in the middle of the vehicle permanently ready for operation

### High-pressure cleaner (option):




High-pressure pump integrated into the hopper 13 l/min @ 120 bar with spray lancet and hose 10 m. Supply from fresh water tank 200 l.

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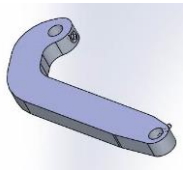

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>basic unit and basic options</b>				
the basic unit is incomplete in configuration. Please select the correspondig options !				
 <p><b>Citymaster 1650 Comfort</b> according to technical description. Delivery with Operating Manual in DE and EN. Other languages see below !</p>		A3	99149115	67.720,00
 <p><b>Road homologation national Germany - net</b> CoC and vehicle data sheet for registration as tractor based on EU-type approval. NEW: Contains declaration of VIN identity for direct traffic registration without need to present machine at traffic authority.</p>			40009022	150,00
			40009022	60,00
<p><b>+12</b></p> <p><b>warranty extension + 12 months</b> up to a total of 24 months: 2,4% surcharge on list price (incl. options but w/o consumable materials as e.g. brushes, brooms or detergents)</p>			40009070	
<p><b>+24</b></p> <p><b>warranty extension + 24 months</b> up to a total of 36 months: 4,8% surcharge on list price (incl. options but w/o consumable materials as e.g. brushes, brooms or detergents)</p>			40009071	
 <p><b>HFM - Hako-Fleet-Management</b> For prices and details see separate price list. The web-based Hako Fleet Management records all important commercial data and live operating states when working, which are then displayed clearly and transparently in the web portal on all mobile devices.</p>				








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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>basic unit and basic options</b> (continued)				
 <p><b>hydraulic fluid</b> <b>filling with standard hydraulic fluid</b></p>	A3		99143998	286,00
 <p><b>or:</b> <b>Filling with biologically degradable hydraulic fluid</b></p>	A3		99143930	917,00
<b>operation of rear hydraulic dumping system</b>				
 <p><b>hydraulic control standard</b> to operate rear hydraulics (e.g dumping of hopper) from drivers seat.</p>	A3		99261901	97,00
<p><b>or:</b> <b>external hydraulic control rear</b> as before but additionally 2-handed operation at vehicle rear</p>	A3		99261902	507,00
<b>top links</b>				
 <p><b>top link standard</b> non-adjustable top link suitable for sweeping units or CityCleaner</p>	A3		99351231	209,00
 <p><b>top link adjustable</b> Recommended for adjustment of inclination of attachment devices and for simplified pick-up of attachment devices with standard coupling triangle cat. 0.</p>	A3		99351230	654,00
<p><b>(R) top link adjustable</b> as before but for separate delivery</p>	A3		99351239	682,00

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<b>basic unit and basic options</b> (continued)			
 <p><b>paint code and additional conservation</b> On the Citymaster 1650 only the parts in original Hako-red can obtain a different colour. These are the side panels of the rear machine part and the hopper side panels (see paint options there).</p>			
 <p><b>Single colour red</b> HAKO-red (RAL 2002)</p>	A3	99149194	1.297,00
 <p><b>Single colour orange</b> Local Authority Orange (RAL 2011)</p>	A3	99149195	1.297,00
 <p><b>Single colour white</b> white (RAL 9010)</p>	A3	99149196	1.297,00
 <p><b>Paint code individual</b> according to customer requests, colour must be given as a RAL code requires: Paint code white 99149196</p>		40009033	upon request
 <p><b>additional conservation</b> of whole machine with high grade protection wax. Recommended for all machines in professional winter use. Net price.</p>		40009033	450,00
 <p><b>HFM - Hako-Fleet-Management - see separate price list</b> The web-based Hako Fleet Management records all important commercial data and live operating states when working, which are then displayed clearly and transparently in the web portal on all mobile devices.</p>			

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>User manuals / service booklets</b>				
<b>Note:</b>				
<b>Please order the manual in the language of your choice.</b>				
The first manual, which is delivered together with the vehicle, is free of charge. All additional manuals ordered with a machine or separately are billed at the standard price indicated in the price list. Orders for additional (loose) manuals are processed by our spare parts department.				
Set User manual/Service booklet German	00		99221600	w/o add. cost
Set User manual/Service booklet English	00		99221610	w/o add. cost
Set User manual/Service booklet French	00		99221620	w/o add. cost
Set User manual/Service booklet Spanish	00		99221630	w/o add. cost
Set User manual/Service booklet Dutch	00		99221640	w/o add. cost
Set User manual/Service booklet Swedish	00		99221650	w/o add. cost
Set User manual/Service booklet Danish	00		99221655	w/o add. cost
Set User manual/Service booklet Norwegian	00		99221670	w/o add. cost
Set User manual/Service booklet Finish	00		99221680	w/o add. cost
Set User manual/Service booklet Italian	00		99221691	w/o add. cost
Set User manual/Service booklet Russian	00		99221692	w/o add. cost
Set User manual/Service booklet Chinese	00		99221694	w/o add. cost
Set User manual/Service booklet Turkish	00		99221695	w/o add. cost
Set User manual/Service booklet Polish	00		99221696	w/o add. cost

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<b>Required selective equipment cabin</b>				
<b>vehicle light equipment</b>				
				
	<p><b>Note:</b> There is a preparation for the beacon in the basic unit included. An order without a beacon is possible.</p> <p><b>warnig beacon standard</b> occupies standard, tiltable connection socket at left rear cabin roof</p>			
	A3		99261806	62,00
				
	<p><b>alternative:</b></p> <p><b>warnig beacon LED</b> occupies standard, tiltable connection socket at left rear cabin roof</p>			
	A3		99261805	113,00
				
	<p><b>standard light equipment right-hand driving</b> main head lights, indicators and position lamps standard, work light/ broom light LED, combination tail lights LED</p> <p><b>or:</b></p> <p><b>standard light equipment left-hand driving</b> as before, but left hand drive</p>			
	A3		99261111	318,00
				
	<p><b>alternative:</b></p> <p><b>LED light equipment right-hand driving</b> all lights in LED, additional LED reverse and fog tail light as well as reverse signal device (can be muted).</p> <p><b>or:</b></p> <p><b>LED light equipment left-hand driving</b> as before, but for left hand drive</p>			
	A3		99261112	1.327,00
	A3		99261212	1.327,00
				
	<p><b>Rear view mirrors</b></p> <p><b>rear view mirror standard</b></p>			
	A1		99843131	66,00
				
	<p><b>or:</b></p> <p><b>rear view mirrors heated</b></p>			
	A1		99843130	402,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Required selective equipment cabin</b> (continued)				
 <p><b>Steering posts</b> <b>Steering post standard</b> Compact steering wheel, combination lever for indicator / horn, steering post adjustable.</p>	A3		99149184	897,00
	 <p><b>or:</b> <b>Comfort steering post</b> Comfort steering wheel, multifunction lever with operation of windshield wiper and indicator with self-reset and horn. Steering post adjustable in angle and height.</p>	A3	99149183	1.594,00
 <p><b>driver's seats</b> all seats with adjustable armrest left as well as adjustable armrest right with integrated machine control. <b>drivers seat GRAMMER MSG75GL-521</b> Air-suspended seat with height, length and weight settings. Adjustable back rest, back extension, adjustable lumbar support, integrated 2-point safety belt.</p>	A2		99844708	1.587,00
	 <p><b>or:</b> <b>comfort driver's seat ISRINGHAUSEN 6830 KM/870</b> Air-suspended seat with height, length and weight settings. Wide seat cushions, adjustable back rest, extensible back extension, adjustable lumbar support, seat heating, left armrest adjustable, integrated 3-point safety belt. Incl. heating</p>	A3	99844710	3.665,00

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<b>Required selective equipment wheels and tyres</b>				
<b>wheels and tyres</b>				
				
<b>Standard tyres</b> Set of tyres = 4 pcs.complete with tyres 225/70 R15C. Tyre width 1,210 mm	A3		99301800	2.112,00
				
<b>Universal tyres</b> Set of tyres = 4 pcs.complete with tyres 255/65 R16, tyre width 1280 mm. @ 3 bar inflation conform with footpath applications	A3		99301900	2.291,00
				
<b>Turf tyres Trelleborg</b> set of wheels = 4 pcs, complete with tyres 320/55-15 Trelleborg T559 , tyre width 1375 mm. Not to be used with snow chains. Max. rear axle load: 2180 kg	A3		99302000	2.403,00
<b>recommendable for universal resp. Turf tyres:</b>				
				
<b>Mudguard extensions</b> to reduce soiling of machine during operation	A3		99307131	405,00
<b>(R) Mudguard extensions</b> as before but for separate delivery	A3		99307138	430,00
<b>spare wheels</b>				
<b>Spare wheel standard tyre</b> 1 pc, wheel complete with rim, tyre and valve.	A3		99301803	529,00
<b>Spare wheel universal tyre</b> 1 pc, wheel complete with rim, tyre and valve.	A3		99301903	573,00
<b>Spare wheel turf tyres</b> 1 pc, complete with rim, valve and tyre	A3		99302003	601,00
<b>snow chains</b>				
				
<b>(R) snow chains 225/70R15 standard tyres</b> 2 pieces = 1 set	A3	2	99302900	838,00
<b>(R) Snow chains 255/65 R16 universal tyres</b> 2 pieces = 1 set	A3	2	99303100	1.129,00

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# Citymaster 1650



Clean ahead

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<b>Order examples</b>				
				75.326,00
<p><b>Basic implement carrier Citymaster 1650</b> Required minimum order scope, comprising of:</p> <ul style="list-style-type: none"> <li>99149115 basic unit CM1650</li> <li>99143998 hydraulic oil standard</li> <li>99261901 hydraulic operation standard</li> <li>99351230 top link adjustable</li> <li>99149194 paint code standard red</li> <li>99261805 beacon LED</li> <li>99261111 light equipment RHD standard</li> <li>99843131 rear view mirror standad</li> <li>99149184 steering post standard</li> <li>99844708 seat air suspenson GRAMMER</li> <li>99301900 tyres 255/65 R16</li> </ul>				
				79.856,00
<p><b>Universal implement carrier Citymaster 1600</b> incl. trailer towing device and loading platform, comprising of:</p> <ul style="list-style-type: none"> <li>99149115 basic unit CM1650</li> <li>99143998 hydraulic oil standard</li> <li>99261901 hydraulic operation standard</li> <li>99351230 top link adjustable</li> <li>99149194 paint code standard red</li> <li>99261805 beacon LED</li> <li>99261111 light equipment standard RHD</li> <li>99843131 rear view mirror standad</li> <li>99149184 steering post standard</li> <li>99844708 seat air suspenson GRAMMER</li> <li>99301900 tyres 255/65 R16</li> <li>99143830 loading platform</li> <li>99350402 trailer towing device</li> <li>99350500 ball-type coupling</li> </ul>				

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Clean ahead

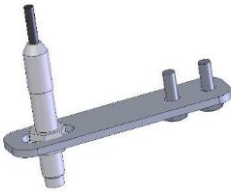
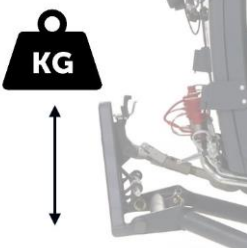
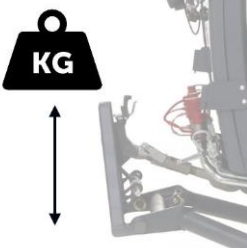


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<b>Order examples</b> (continued)				
 <p><b>Sweeper 2B Citymaster 1650</b>            required minimum order scope, comprising of:            99149115 basic unit CM1650            99143998 hydraulic oil standard            99261901 hydraulic operation standard            99351230 top link adjustable            99149194 paint code standard red            99261805 beacon LED            99261111 light equipment standard RHD            99843131 rear view mirror standad            99149184 steering post standard            99844708 seat air suspenson GRAMMER            99301800 tyres 22/70 R15            99148800 universal hopper            99148897 paint code Hako-red            99148900 sweeping unit 2 brooms            99147800 attachment part suction nozzle            99114700 brooms mixed bristles (2x)</p>				102.160,00

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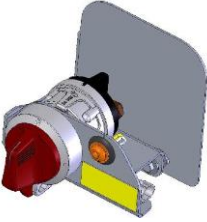



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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Basic unit options</b>				
the following options are to be ordered only in combination with a new machine. Retro-fit options (R) do have separate order code and are marked accordingly.				
				
<p><b>Axle load indicator</b> displaying the maximum permissible rear axle load</p>	A3		99262300	291,00
				
<p><b>adapter set control cable</b> 1 set = 2 pcs. Adapter to connect implement control units with 7-pin connector (CM 1600) to the 12-pin connector of CM 1650 and vice versa. Recommended in case of mixed use of implements on both CM 1600 and CM 1650. Please also do refer to the indications given at the control units in question.</p>	A1		99262201	167,00
				
<p><b>Pressure control front lift system (mandatory for CityCleaner 99615400)</b> for defined unloading of front implements to adjust work performance or to increase front axle load for better traction. Fully variable adjustment 0 to -150 kg.</p>	A3		99145931	1.230,00
				
<p><b>working spotlights LED top</b> 2 pcs. in combination with 99261112 or 99261212 (Full-LED-light equipment) only. Function alternatively to standard work lights on A-posts of cabin.</p>	A3		99261801	462,00
				
<p><b>working spotlight LED top</b> 1 pc. Separate switch. Advice: not in connection with CityCleaner 99615400</p>	A3		99261802	235,00

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	Discount needed / piece	order no.	price per piece w/o VAT EUR
 <p><b>working spotlight LED top 2 pc.</b> separate switch.</p>	A3	99261803	471,00
 <p><b>Battery interrupter</b></p>	A3	99261431	328,00
 <p><b>Hydrant connection</b> to fill the clean water tank from public water net. Storz D connector, C/D adapter, adapter key, reflow interrupted.</p>	A3	99113410	279,00
<p><b>(R) Hydrant connection</b> as before but for separate delivery</p>	A3	99113419	328,00
 <p><b>camera rear view</b> Camera at rear of machine with colour screen in cabin for surveillance of area behind machine. IR-support for improved sight at night.</p>	A1	99144612	931,00
 <p><b>camera suction nozzle</b> for monitoring suction nozzle, automatic switching when reversing</p>	A1	99144613	328,00
<p>alternative</p> <p><b>Cameras system 270° / additional suction nozzle camera</b> - net price - Automatic switch between view suction nozzle (forward mode), rear view / birds view (reverse mode), side view left / right according to activation indicator.</p>	00	SOW	2.342,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Basic unit options</b> (continued)				
 <p><b>Rear fog light LED</b> Only required in combination with 99261111 or 99261211 (standard light kit).</p>	A3		99262400	143,00
 <p><b>radio kit DAB+</b> comprising standard radio duct, cable set, DAB+-radio, USB, AUX, MP3, WMA, antenna for digital and analog signals, 2 speakers.</p>	A3		99261311	872,00
 <p><b>Preparation for radio DAB+</b> comprising standard radio duct, cable set, integrated antenna for digital and analog signals, 2 speakers. Radio not included</p>	A3		99261312	328,00
 <p><b>Reverse drive light LED and signal</b> for optical and acoustic warning during reverse drive. Warning signal can be muted. Only required in combination with 99261111 or 99261211 (standard light kit).</p>	A3		99144731	237,00
 <p><b>greasing system 1-point basic unit Citymaster 1650</b> all grease points connected to one central grease point with grease distributor</p>	A3		99849930	647,00

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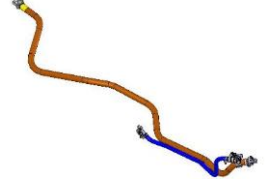
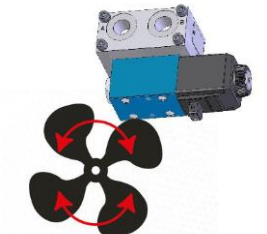
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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Basic unit options</b> (continued)				
 <p><b>greasing system</b> electric, automated grease pump with connectors to basic unit, universal hopper and sweeping systems. Requires corresponding 1-point-grease systems for basic unit, universal hopper and sweeping systems.</p>				upon request
 <p><b>(R) Safety package</b> compact bag with warning triangle and first aid kit , which can be stored in the standard holder at the cabin frame</p>	A2		99145700	104,00
<p><b>auxiliary heating</b> auxiliary heater with timer to pre-heat motor and drivers cabin.</p>				in preparation
 <p><b>Cruise control and limiter</b> locks actual given work speed, cancel by switching off or use of service brake. Limitation of max work speed at fully depressed drive pedal. To be individually adjusted via vehicle control menu from 40 to 100%.</p>	A3		99262500	273,00




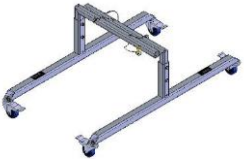

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR		
<b>Basic unit options</b> (continued)						
			<b>Door depot left</b>	A2	99843000	107,00
			<b>Door depot right</b>	A3	99843001	107,00
			<b>recirculation water drain</b> drain facility for excess recirculation water in sweeping mode (e.g. rainy weather). Slide valve.	A3	99148831	246,00
			<b>Hopper vacuum display</b> for monitoring the suction performance and display of reduced suction when the maximum container fill level is reached and display of clogging.	A3	99843503	447,00
			<b>Preparation 3 broom unit</b> electro-hydraulic extension kit for operation of any 3B-unit.	A3	99148941	405,00
			<b>(R) Preparation 3 broom unit</b> as before, but for separate delivery	A3	99148948	409,00
			<b>preparation water supply CityCleaner</b> set of hoses and parts for fresh and recirculation water connectors	A3	99146332	168,00
			<b>(R) preparation water supply CityCleaner</b> as before, but for separate delivery	A3	99146339	168,00
			<b>Reverse fan</b> manual activation of reverse airflow to blow radiator screens	A3	99843600	720,00


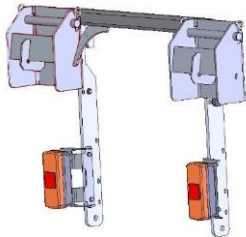

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Device quick change</b>				
 <p><b>(R) Quick change trolley CM 600/1600</b> Trolley with attachment points for universal hopper and loading platform for tool-free changing of the rear attachments.</p>	A1		99148602	1.772,00
 <p><b>(R) Deposit feet hopper/platform</b> 1 set deposit feet for insertion into the changing frame of the hopper or platform. Permits depositing of the attachment parts off the quick-change trolley to be able to use it repeatedly.</p>	A1		99148820	430,00
 <p><b>(R) roller stand for sweeping unit 2B</b></p>	A1		99148610	455,00
 <p><b>(R) roller stand for sweeping unit 3B</b></p>	A3		99148925	659,00
 <p><b>(R) roller stand for CityCleaner</b> for storage of the CityCleaner 99615400 inkl. Squeegee</p>	A3		99615420	547,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Counter weights</b>				
 <p><b>(R) Weight holder with coupling triangle</b> to pick up maximum 9 units compensation weights (99343900).</p>	A1		99344000	208,00
 <p><b>(R) Weight holder</b> for taking up 4, 6 or 10 counter weights (99343900) 17 kg each</p>	A3		99344130	516,00
 <p><b>(R) Balancing weight 17 kg</b></p>	A1		99343900	99,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Transporting</b>				
 <p><b>(R) Loading platform</b> plastic hopper on steel quick-change sub frame and integrated hydraulic tipping function. Removable tail flap, strapping eyelets, circumfering button strip for taking up a net for securing the load. Holder for tarpaulin and roof bow. Note: platform is not suitable for picking up rear attachments! Suitable subframe with quick-change system for rear attachments on request.</p>	A3		99143830	3.743,00
 <p><b>(R) Trailer towing device</b> for connection without tools to the rear of the vehicle. Two connection heights adjustable, trailer weight braked 1.750 kg, unbraked 750 kg, max. vertical load 150 kg.</p>	A1		99350402	460,00
 <p>requires: <b>(R) Trailer pin-type coupling</b></p>	A1		99350300	327,00
 <p>or: <b>(R) Trailer ball-type coupling</b></p>	A1		99350500	327,00
 <p><b>Note:</b> The following trailers can be equipped with a ball-head coupling or a standard-towing eyelet. Indicate when ordering!</p>				
 <p><b>(11) Single axle trailer 2513/HKH</b> Permissible total weight 1700 kg. Payload 1450 kg. Steel section frame with compressed wood plate, side walls made of out of anodised aluminium, platform dimensions (L/W/H) 250 x 133 x 30 cm. Trailer sides can be opened/tipped to three sides and removed. Trailer platform can be tipped manually to the rear. With shaft support wheel. With loading brake and parking brake, towing eye for snap coupling, automatic reverse mode.</p>	B4		99251600	4.040,00
 <p>requires: <b>(11) Hydraulic connection</b> comprising of check valve and ball valve to lower the trailer after tilting.</p>	B4		99252110	360,00
 <p><b>Road Homologation</b> Approval documents for 2513 HKH - net</p>			**)	120,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b>				
				
				<b>Note:</b> Indicate colour matching the basic device when ordering the universal hopper!
	A3		99148800	18.265,00
				<b>Universal suction hopper with circulating water system</b> according to description. Awarded with eco label RAL ZU 59a "Blauer Engel". Please select a paint code.
	A3		99148809	18.972,00
				<b>(R) Universal suction hopper with circulating water system</b> as before but for packed for separate delivery. Please select a paint code.
	A3		99148897	486,00
				<b>Single colour red</b> HAKO-red (RAL 2002)
	A3		99148898	486,00
				<b>Single colour orange</b> Local Authority Orange (RAL 2011)
	A3		99148899	486,00
				<b>Single colour white</b> white (RAL 9010)
			40009033	upon request
				<b>Single colour individual</b> customer sepcification, indicate paint code in RAL, Requires: Paint code white 99148899

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b> (continued)				
<b>Options for the universal container:</b>				
				
<b>greasing system 1-point universal hopper</b> all grease points connected to one central grease point with grease distributor	A3		99849931	519,00
				
<b>(R) additional equipment leaves / light debris / mowing</b> enlarged rear fan screens for improved filling and dividing plate overhead of suction duct for improved discharge	A3		99148840	760,00
				
<b>wander hose</b> hose that can be used on either side of the vehicle, 3,80 m with handle. Telescopic hose with central and vertical quiver holder and automatic retraction at the end of work.	A3		99144530	1.063,00
<b>(R) wander hose</b> as before but for separate delivery	A3		99144539	1.100,00
				
<b>High-pressure cleaner</b> 13l/min @ 120 bar, hand-spray gun 900 mm, hose 10 m.	A3		99113932	2.675,00
<b>(R) High-pressure cleaner</b> as before but for separate delivery	A3		99113938	2.768,00
<b>High-pressure washer comfort</b> 13l/min @ 120 bar, hand-spray gun 900 mm, hose 10 m. The pressure washer can be activated together with sweeping function. Incl hose reel			99113934	3.075,00
				
<b>(R) Comfort and safety package hopper</b> comprising of expanded collision protection in the lower vehicle area and folding step for comfortable control of the hopper content.	A1		99147510	258,00



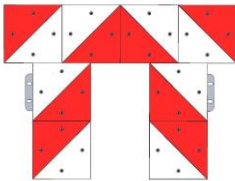
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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b> (continued)				
				
<b>recirculation water drain</b> drain facility for excess recirculation water in sweeping mode (e.g. rainy weather). Slide valve. May only be ordered with a basic unit	A3		99148831	246,00
				
<b>Hopper vacuum display</b> for monitoring the suction performance and display of reduced suction when the maximum container fill level is reached and display of clogging. (with basic unit only)	A3		99843503	447,00
				
<b>tool pick-up</b> for broom and shovel - delivery without tools.	A3		99113340	324,00
<b>sweeping units</b>				
				
<b>Sweeping unit 2-brooms standard</b> according to description, delivery without brooms.	A3		99148900	7.699,00
<b>(R) Sweeping unit 2-brooms standard</b> as before but for separate delivery	A3		99148909	8.090,00
				
<b>greasing system 1-point 2B</b> all grease points connected to one central grease point with grease distributor	A3		99849932	972,00
<b>alternative:</b>				
				
<b>Sweeping unit 2-brooms comfort right hand drive</b> according to description, additionally hydraulic head adjustment 1-dimensional right, delivery without brooms.	A3		99148901	8.558,00
<b>Sweeping unit 2-brooms comfort left hand drive</b> according to description, additionally hydraulic head adjustment 1-dimensional left. Delivery without brooms.	A3		99148902	8.558,00

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<b>Attachment sweeping-suction machine</b> (continued)				
 <p><b>greasing system 1-point 2B</b> all grease points connected to one central grease point with grease distributor</p>	A3		99849932	972,00
requires:				
 <p><b>Attachment part suction nozzle</b></p>	A1		99147800	644,00
<b>(R) Attachment part suction nozzle</b> as before but for separate delivery	A1		99147809	666,00
Recommended for sweeping units 2B:				
 <p><b>(R) Front Panels 2B. Sweeping unit</b> Universal Kit plastic reflectors; Holder set + 8 standard surfaces + mounting manual</p>	A3		99263101	265,00

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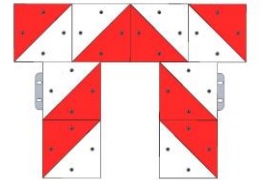


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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b> (continued)				
				
<b>Broom 900 mixed bristles</b> 1 pc steel / polypropylene	Z3	2	99114700	182,00
				
<b>Broom 900 steel bristles</b> 1 pc. flat steel	Z3	2	99114800	182,00
				
<b>Broom 900 Polypropylene bristles</b> 1 pc.	Z3	2	99114600	182,00
				
<b>Broom 900 - "silent broom"</b> 1 pc.with mixed bristles plastic / rubber-coated flat wire for reducing the sweeping noise	Z3	2	99110000	267,00
				
<b>broom 900 - weeding "light"</b> 1 pc - bundeled steel in combination with mixed bristles	Z3		99114740	316,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b> (continued)				
				
<b>Sweeping unit 3-brooms standard</b> according to description, delivery scope without brooms.	A3		99148910	14.058,00
<b>(R) Sweeping unit 3-brooms standard</b> as before but for separate delivery	A3		99148919	14.331,00
				
<b>working spotlight LED front broom 1 pc.</b> Function additional to standard work lights on A-posts of cabin.	A3		99261804	302,00
				
<b>greasing system 1-point 3B standard</b> all grease points connected to one central grease point with grease distributor	A3		99849934	1.296,00
<b>requires:</b>				
				
<b>Preparation 3 broom unit - ex works only -</b> electro-hydraulic extension kit for operation of 3B-unit 99148910.	A3		99148941	405,00
<b>(R) Preparation basic unit 3 broom unit</b> as before but for separate delivery	A3		99148948	409,00
				
<b>Attachment part suction nozzle</b>	A1		99147800	644,00
<b>Attachment part suction nozzle</b> as before but for separate delivery	A1		99147809	666,00
<b>Recommended for sweeping unit:</b>				
				
<b>(R) Front Panels</b> Universal Kit plastic reflectors; Holder set + 8 standard surfaces + mounting manual	A3		99263100	265,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine (continued)</b>				
<b>Base brooms:</b>				
				
<b>Broom mixed bristles 720 mm 1 pc steel / polypropylene</b>	Z3	2	99113202	126,00
				
<b>Broom steel bristles 720 mm 1 pc. flat steel</b>	Z3	2	99113302	126,00
				
<b>Broom Polypropylene bristles 720 mm 1 pc.</b>	Z3	2	99113102	126,00

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		Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b> (continued)					
<b>Front broom / 3rd broom:</b>					
	<b>Broom 900 mixed bristles</b> 1 pc steel / polypropylene	Z3	2	99114700	182,00
	<b>Broom 900 steel bristles</b> 1 pc. flat steel	Z3	2	99114800	182,00
	<b>Broom 900 Polypropylene bristles</b> 1 pc.	Z3	2	99114600	182,00
	<b>broom 900 - weeding "light"</b> 1 pc - banded steel in combination with mixed bristles	Z3		99114740	316,00

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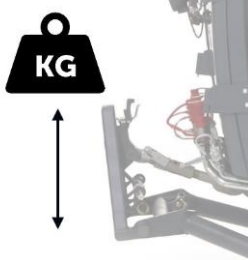
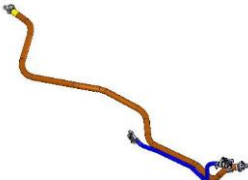
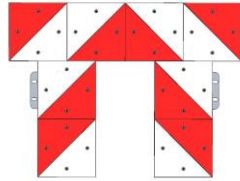
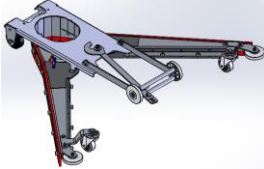
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	Discount needed/ piece	order no.	price per piece w/o VAT EUR
<b>Attachment sweeping-suction machine</b> (continued)			
 <p><b>Recommended for alternating use of the 2B/3B attachment sweeping-suction machine:</b></p> <p><b>(R) Universal quick change trolley</b> Trolley for Citymaster 600 / 1600 with individually adjustable attachment points for universal hopper and loading platform for tool-free changing of the rear attachments.</p>	A1	99148602	1.772,00
 <p><b>(R) Deposit feet hopper/platform</b> 1 set deposit feet for insertion into the changing frame of the hopper or platform. Permits depositing of the attachment parts off the quick-change trolley to be able to use it repeatedly.</p>	A1	99148820	430,00
 <p><b>(R) roller stand for sweeping unit 2B</b></p>	A1	99148610	455,00
 <p><b>(R) roller stand for sweeping unit 3B</b></p>	A3	99148925	659,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Wet cleaning CityCleaner</b>				
				
<p><b>(R) CityCleaner</b> front mounted scrubbing deck with pendular body, 3 brushes 460 mm / total working width 1,240 mm, gimbal-mounted (brushes are not included), quick change of brushes without tools. Integrated dirt water recycling system, optional fresh or recycling water operation. Squeegee directly behind brushhead, independent lift. Ramp climbing ability, additional collision protection by deflector rollers and flexible pick-up. Delivered without brushes.</p> <p><b>Additionally required :</b></p>	A3		99615400	15.082,00
 <p><b>Pressure control front lift system (mandatory for CityCleaner 99615400)</b> for defined unloading of front implements to adjust work performance or to increase front axle load for better traction. Fully variable adjustment 0 to -150 kg. (With basic unit only)</p>	A3		99145931	1.230,00
 <p><b>preparation water supply CityCleaner</b> set of hoses and parts for fresh and recirculation water connectors (with basic unit only)</p>	A3		99146332	168,00
<p><b>(R) preparation water supply CityCleaner</b> as before, but for separate delivery</p>	A3		99146339	168,00
 <p><b>Recommended for the citycleaner:</b></p> <p><b>(R) Front Panels</b> Universal Kit plastic reflectors; Holder set + 8 standard surfaces + mounting manual</p>	A3		99263100	265,00
 <p><b>(R) squeegee CityCleaner</b> as standard in CityCleaner but for separate delivery</p>	A3		99615439	936,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Wet cleaning CityCleaner</b> (continued)				
			99615420	547,00
	A3			
			99705402	79,00
	Z1			
				ref. spare parts catalog
			99738500	44,00
	Z1			
				
			99738600	43,00
	Z1			

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Wet cleaning CityCleaner</b> (continued)				
<b>Brushes</b> (3 brushes required)				
 <p><b>plate brush 46 cm - PPN 08</b> for light maintenance cleaning on coated, smooth floors</p>	Z5		99615408	129,00
 <p><b>plate brush 46 cm - SIC 120 / PPN 05</b> standard brush for maintenance cleaning on varying mineral surfaces</p>	Z5		99615405	222,00
 <p><b>plate brush 46 cm - SIC 180 grey</b> brush for basic and maintenance cleaning</p>	Z5		99615418	222,00
 <p><b>plate brush 46 cm - SIC 120 green</b> brush for basic cleaning on tough surfaces</p>	Z5		99615412	222,00
 <p><b>plate brush 46 cm - SIC 46 grey</b> brush for basic cleaning in case of heavy dirt build-up</p>	Z5		99615446	222,00

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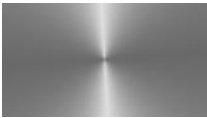





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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Watering / Flower watering / Brine spraying</b>				
 <p><b>(36) Low pressure wash and watering system ND</b> Tank volume total 1000 l / maximum water pressure 6 bar / water flow-rate 60 l / min at 6 bar. Quick change steel frame with attachment point, suitable for the quick change trolley. 1000 l epoxy-glass resin tank with filling device, hydrant connection with return valve radial pump with controls, hose-rewinder 30 m low pressure hose with spraygun with adjustable spray pattern.</p>	B2		99611100	8.200,00
<b>Also required :</b>				
 <p><b>(36) Spray bar low pressure</b> Stainless steel bar width 1260 mm, working width approx. 1400 mm incl. Coupling triangle cat. 0 and hydraulic side adjustment. Connection parts in coated steel.</p>	B2		99611101	2.365,00
<b>optional:</b>				
 <p><b>(36) Pour arm</b> Front-mounted pour arm for watering in inaccessible places. three-fold freedom of movement. Swivel joint manuell around 210° from right to left swivelling, Main arm 75° vertically/horizontal tiltably, Pendulum arm 170° to the max. extension of 4m tiltably.</p>	B2		99611430	4.920,00
<b>Alternatively:</b>				
 <p><b>(36) Medium pressure washing system MD</b> Tank volume total 1000 l / maximum water pressure 40 bar / water flow-rate 81 l / min at 40 bar. Steel frame with attachment point for loading platform. 1000 l epoxy-glass resin tank with filling device, hydrant connection with return valve membrane pump with controls, hose-rewinder 10 m intermediate pressure hose with spraygun with adjustable spray pattern.</p>	B2		99611102	10.860,00
<b>Also required :</b>				
  <p><b>(36) Spray bar MD</b> Stainless steel bar width 1260 mm, working width approx. 1400 mm incl. Coupling triangle cat. 0 and hydraulic side adjustment. Connection parts in coated steel.</p>	B2		99611103	2.365,00
<b>Additional options :</b>				

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		Discount needed / piece	order no.	price per piece w/o VAT EUR
<b>Watering / Flower watering / Brine spraying</b> (continued)				
	<b>(36) Version spray bar completely in stainless steel</b> attachment parts and coupling- additional costs	B2	99611104	315,00
	<b>(36) Tank connection</b> piping to tank of vehicle incl. Suction pipe. Increases water capacity to approx. 1200 l	B2	99611105	910,00
	<b>(36) Stands for tank superstructure</b> 1 set = 4 pieces suitable for all watering bars systems to park the unit with empty tank. Note: The deposit feet hopper/platform 1486.20 are also suitable.	B2	99611106	740,00
	<b>(36) Brine-spraying system MD</b> Tank volume total 1000 l / maximum water pressure 0 to 40 bar / water flow-rate up to 81 l / min at max. 40 bar. Steel frame with attachment point for loading platform. 1000 l epoxy-glass resin tank with filling device, hydrant connection with return valve membrane pump with controls, stainless steel spray bar 1200 mm with ceramic jets and drip-stop mounted at the rear, splash apron to protect vehicle. Hose-rewinder 10 m intermediate pressure hose with spraygun to reach house entrances and bus- stops.	B2	99611200	11.790,00
	<b>optional:</b> <b>(36) path dependent brine spreading</b> control of dosage via electronic control device. 7-pin connector, requires adapter set 99262201.	B2	99611001	2.065,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Watering / Flower watering / Brine spraying</b> (continued)				
<b>Also required :</b>				
				
		A1	99262201	167,00
<p><b>adapter set control cable</b> 1 set = 2 pcs.                      Adapter to connect implement control units with 7-pin connector (CM 1600) to the 12-pin connector of CM 1650 and vice versa.                      Recommended in case of mixed use of implements on both CM 1600 and CM 1650. Please also do refer to the indications given at the control units in question.</p> <p>Note:: during operation in summer the unit can also be combined with the spray bar intermediate pressure and can be used as watering bar. To do so the brine spraying bar can be unmounted.                      During operation in winter with brine the tank on the vehicle cannot be used due to higher the higher concentration versus water - Danger of overloading!!</p>				

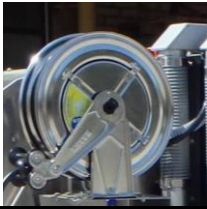


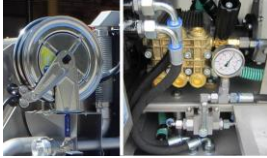



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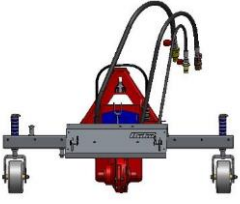

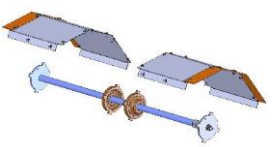

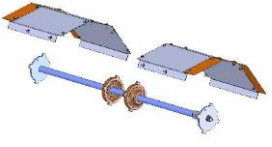

	Discount needed / piece	order no.	price per piece w/o VAT EUR
<b>Watering / Flower watering / Brine spraying</b> (continued)			
 <p><b>(17) ECO IceFighter EZP manual</b> brine spraying device, max output 30ml/m<sup>2</sup> @ 25 km/h, tank volume 820 l with washing plates, quick-change subframe, manual controls START/STOP , 3 spray zones with remote control. Basic work width 1.200 mm, additional nozzles (600mm) right/left for extension up to 2.400 mm. Rear spraybar with integrated LED-tail lights and splash guard. Storz-C filling connector, tank overflow / quick drain extended over vehicle rear, filling indicator, layout in all stainless steel, dry run proof piston-membrane pump with hydraulic drive and filtre, manual pressure adjustment, manometer. Housed machine compartment with roller blind.</p>	B4	99611540	16.965,00
 <p><b>(17) ECO IceFighter RZP fully automatic</b> brine spraying device, max output 30ml/m<sup>2</sup> @ 25 km/h, tank volume 820 l with washing plates, quick-change subframe, electronic control (speed dependent dosage, electronic dosage control, manual add function, tank volume control, store function for individual settings, error alarm). 3 spray zones with remote control. Basic work width 1.200 mm, additional nozzles (600mm) right/left for extension up to 2.400 mm. Rear spraybar with integrated LED-tail lights and splash guard. Storz-C filling connector, tank overflow / quick drain extended over vehicle rear, filling indicator, layout in all stainless steel, dry run proof piston-membrane pump with hydraulic drive and filtre, electric pressure adjustment, manometer. Housed machine compartment with roller blind.</p> <p><b>requires :</b></p>	B4	99611542	20.990,00
 <p><b>(17) parking stands with rollers</b> (1 set = 4 pcs) to remove unit at empty tank .</p> <p><b>optional:</b></p>	B4	99611541	1.070,00
 <p><b>(17) long reach side nozzles</b> (2 pcs, right/left) 1.300 mm reach of each nozzle, max. work width of 5.000 mm, spray zones 1.200/2.400/5.000 mm.</p>	B4	99611548	885,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Watering / Flower watering / Brine spraying (continued)</b>				
			99611544	1.525,00
<p><b>(17) hose reel 12m with brine spray gun</b> for spot treatment with brine, self-retracting, hand spray gun. Advice: not to be combined with 99611543.</p>				
<b>optional for summer application of IceFighter:</b>				
			99611547	3.060,00
<p><b>(17) spray bar front</b> for summer use of brine sprayer as road washing device, working width 1.500/1.300 mm, hydraulically adjustable, splash protection, roller stand</p>				
			99611508	210,00
<p><b>(17) indicator flags (1 set = 2pcs)</b> for 99611547</p>				
			99611543	4.245,00
<p><b>(17) additional high pressure pump with hose reel 12m</b> for summer use of brine sprayer as high pressure washer 21 l/min @ 180 bar, hand spray gun. High pressure pump is supplied to by interchanging connectors of water tank.</p>				
			99611500	235,00
<p><b>(17) additional high pressure pump with hose reel 12m</b> for summer use of brine sprayer as watering device, supply by standard brine pump at reduced pressure setting. Telescopic spray tool 800-1.400 mm, flow control, holder attached to IceFighter. Only in connection with 99611543 or 99611544.</p>				
			99611545	6.470,00
<p><b>(17) additional high pressure pump with hose reel 12m</b> for summer use of brine sprayer as watering device, supply by standard brine pump at reduced pressure setting. Reaches up to 6.500 mm, sid adjustable, 2-section watering arm, manual watering head adjustment. Hydraulic supply via basic vehicle, by separate control box, includes all required attachments for IceFighter.</p>				
			99611546	475,00
<p><b>(17) electric watering head adjustment</b> electric actor motor for remote adjustment.</p>				

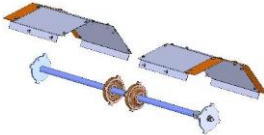

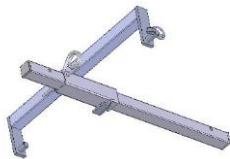


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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Sweeping</b>				
 <p><b>Hydraulically driven combined sweeper</b> Dirt and snow sweeper. Central drive of cylindrical broom via hydraulic motor 50 l/min @225 bar. Continuous broom speed regulation for sweeping dirt or snow. Can be moved to both sides, optional hydraulic side adjustment. Good adaptation to floor as it is free floating / suspended. Swivelling and height adjustable support wheels. Main broom width 130 cm, 145 cm or 160 cm, broom diameter 50 cm. Delivery without broom</p>	A3		99589530	5.083,00
 <p><b>Also required :</b> <b>Hydraulic side adjustment</b> for infinitely variable, hydraulic swivelling of the sweeper from the driver's seat with double-acting hydraulic cylinder.</p>	A3		99588031	467,00
 <p>As well as: <b>Extension kit working width 130 cm</b> and</p>	A2		99583213	379,00
 <p><b>Compact brush 65 cm plastic blue</b> or</p>	Z3	2	99580213	150,00
<p><b>Compact brush 65 cm plastic/steel blue</b></p>	Z3	2	99580313	173,00
 <p><b>alternatively :</b> <b>Extension kit working width 145 cm</b> and</p>	A2		99583214	401,00
 <p><b>Compact brush 73 cm plastic blue</b> or</p>	Z3	2	99580214	177,00
<p><b>Compact brush 73 cm plastic/steel blue</b></p>	Z3	2	99580314	205,00
<b>alternatively :</b>				

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<b>Sweeping</b> (continued)				
			99583216	431,00
<b>Extension kit working width 160 cm</b> and	A2			
			99580216	218,00
<b>Compact brush 80 cm plastic blue</b> or	Z3	2		
<b>Compact brush 80 cm plastic/steel blue</b>	Z3	2	99580316	252,00
<b>Recommended :</b>				
			99594900	167,00
<b>Support stand</b> to protect the main broom in case of long-term parking of the sweeper	A2			
<b>Spray protection</b> as an extension of the sweeper cover to the front when sweeping. Protection against stones flicking up thanks to rubber skirt.				
			99587400	123,00
<b>Spray protection for main broom width 130 cm</b>	A2			
<b>Spray protection for main broom width 145 cm</b>	A2		99587500	129,00
<b>Spray protection for main broom width 160 cm</b>	A2		99587600	139,00
<b>Spray protection for main broom width 160 cm</b> Nozzles and hose to be supplied from vehicle fresh water tank, encoding plug to activate water pump. Water flow to be adjusted from drivers seat. Please indicate working width.			SOW	upon request
			99581500	6.225,00
<b>(37) Front sweeping machine FH 1600 P</b> winter maintenance snow sweeper with left hand hydraulic drive 50 l/min @225 bar. Working width 1.600 mm / broom diameter 600 mm with hydraulic side shift, sweeping level adjustment via steadies and rollers, quick change A-frame attachment sytem CM 1650.	B4			

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Snow removal</b>				
 <p><b>(14) Folding snow blade 140 cm</b> robust folding snow blade, work width at max inclination 108 cm, blade height 50 cm, incl. Hydraulic side adjustment, with synthetic rails. Quick change A-frame attachment system Note: does not cover vehicle track at maximum inclination</p>	B4		99576352	1.930,00
 <p><b>(14) Spring flap snow blade 150 cm</b> Particularly robust clearing shield with spring-suspended overflow flaps for easy running over obstacles, integrated tilt adjustment of the clearing shield for best setting, height-adjustable sliding skids and replaceable steel scraper bars. Central swinging suspension and large balancer for floor irregularities. Plough height 70 cm. Quick change A-frame attachment system</p>	B4		99576050	3.274,00
 <p><b>(14) Spring flap snow blade 150 cm</b> like 99576050, but with synthetic rails.</p>	B4		99576052	3.294,00
 <p><b>(14) Spring flap snow blade 170 cm</b> Particularly robust clearing shield with spring-suspended overflow flaps for easy running over obstacles, integrated tilt adjustment of the clearing shield for best setting, height-adjustable sliding skids and replaceable steel scraper bars. Central swinging suspension and large balancer for floor irregularities. Plough height 70 cm. Quick change A-frame attachment system</p>	B4		99576060	3.374,00
 <p><b>(14) Spring flap snow blade 170 cm</b> like 99576060, but with synthetic rails.</p>	B4		99576062	3.374,00
<p><b>(14) Warning flags, set of support wheels, safety valve as collision protection.</b></p>			**)	upon request
 <p><b>(14) V snow plough with spring flaps</b> Working width 151cm. Working width at slanting position 131cm. Height 80 cm. Possible working positions: Plough setting to the front or rear, slanting position left/right or straight. 4 sprung flaps with steel rails. Height adjustable rubbing plates. Suspended (free floating) to compensate for unevenness in the floor. With 2 twin-acting adjustable cylinders. Quick change A-frame attachment system</p>	B4		99602150	3.812,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Snow removal</b> (continued)				
 <p><b>(14) V snow plough with spring flaps</b> as 99602150, but with synthetic rails.</p>	B4		99602152	3.793,00
 <p><b>(14) V snow plough with spring flaps</b> Working width 167 cm. Working width at slanting position 146 cm. Height 80 cm. Possible working positions: Plough setting to the front or rear, slanting position left/right or straight. 4 sprung flaps with steel rails. Height adjustable rubbing plates. Suspended (free floating) to compensate for unevenness in the floor. With 2 twin-acting adjustable cylinders. Quick change A-frame attachment system</p>	B4		99602160	3.871,00
 <p><b>(14) V snow plough with spring flaps</b> as 99602160, but with synthetic rails.</p> <p><b>recommended for optimum performance:</b> Adjustable top link 99351200</p> <p>(14) Warning flags, set of support wheels, safety valve as collision protection.</p>	B4		99602162	3.856,00
			**)	upon request

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	Discount needed / piece	order no.	price per piece w/o VAT EUR
<b>Snow removal</b> (continued)			
 <p><b>(44) Snow thrower CERRUTI BASIC HY L1400</b> Hydraulically driven snow thrower 70 l/min @225 bar, working width 1.40 m, inlet screw 395 mm, shotblast wheel 400 mm. Hydraulically turning ejection chimney and hydraulically adjustable ejection flap. Quick-change A-frame attachment system CM 1650.</p> <p>required counterweight: loading platform + filled spreader, rear mounted spreader od weight holder with 6 weights</p>	B4	99600900	5.865,00
 <p><b>(44) Snow thrower ZAUGG SF 55-52 140</b> Hydraulically driven snow thrower (70 l/min @ 225 bar), working width 1.40 m, inlet screw 550 mm, shotblast wheel 520 mm. Hydraulically turning ejection chimney and hydraulically adjustable ejection flap. Standard quick-change A-frame</p> <p>required counterweight: like above but with 10 counterweights</p> <p>recommended for optimum performance: Adjustable top link 99351200</p>	B2	99601000	22.196,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Spreading</b>				
				
<b>(41) Roller spreader FIEDLER FWS200 XL</b> Attachment spreader for rear attachment frame, spreading volume approx. 160 l, spreading width 100 cm. For sprinkling spreading goods (grit, sand, salt, sand-salt mixes). Spreading amount can be set by control valve at the spreader, quick-emptying function. Dosage cam of stainless steel cast, 2-layer coat of paint RAL 2011, hopper inside with additional protection. Road light equipment incl. license plate holder. Delivery with height-adjustable quick-change chassis.	B4		99577800	4.500,00
<b>optional:</b>				
				
<b>(41) Spreading disc for FWS200</b> Expansion of the roller spreader to a combination spreader. Working width spreading disc 1.0-4.5 m, electrical switching of the spreading types, spreading width setting via control valve at the spreader, mechanical asymmetric spreading pattern adjustment.	B4		99577810	2.145,00
<b>recommended:</b>				
				
<b>(41) collision protection spreading disc</b>	B4		99577811	285,00
				
<b>(41) Path-dependent control cylinder spreader</b> Electronic control unit with 12-pin electric connector for variable path-dependent application of spreading goods. In case of alternating use with CM 600 (7-pin connector) requires: 99262201 adapter set	B4		99577614	1.615,00
<b>(41) Path-dependent control cylinder spreader - loose</b>	B4		99577615	1.905,00
<b>alternatively:</b>				
				
<b>(41) Path-dependent control combination spreader</b> as 99577614 but additionally with electrical spreading width adjustment. In case of alternating use with CM 1600 (7-pin connector) requires: 99262201	B4		99577616	1.850,00
<b>(41) Path-dependent control combination spreader - loose</b>	B4		99577617	2.135,00
<b>optional:</b>				

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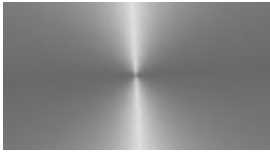





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		Discount needed / piece	order no.	price per piece w/o VAT EUR
<b>Spreading</b> (continued)				
	<b>(41) LED-working headlights</b> to light the spreading area, connected to vehicle lights	B4	99577623	210,00
<b>alternatively:</b>				
	<b>(41) LED beacon</b> at the spreader rear, connected to vehicle lights	B4	99577826	485,00
	<b>(41) Fill level sensor</b> for monitoring the hopper content. Only in combination with a path-dependent control !	B4	99577625	455,00
	<b>(41) Tarpaulin spreader</b> Tarpaulin to cover the spreader with attachment to the platform and automatic opening for tipping.	B4	99577832	230,00
<b>alternatively:</b>				
	<b>(41) Tarpaulin and roof</b> for loading platform 99143830 and spreader 99577800, Tipping kinematics for tarpaulin frame.	B4	99577830	685,00
	<b>(43) rear mounted spreader KIF SS600</b> single chamber spreader with hydraulic drive, 2 auger ejection, 2 agitators and foldable spreader disc. Loading capacity 600 l. Manual control for dosage and spreading width 1,5 - 4,0 m. Spreader disc, protection and material slide stainless steel. Filling screen, retractable tarp, additional protection tarp for CM 1650. Quick change subchassis suitable for CM 1650, Spreader RAL 2011 and 2-layer paint and inside sealing. Supplied with roller support stands. Spreader start/stop via basic winter function of CM 1600.	B4	99577900	9.930,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Spreading</b> (continued)				
				upon request
(43) Spreader KIF SS600 and attachments in stainless steel Details upon request at info@kif-niedergoersdorf.de				
				
<b>optional:</b> (43) <b>warning flashing beacon</b> at tail end of spreader, controlled by vehicle warning beacon of CM 1650.	B4		99577919	230,00
				
(43) <b>pressure spring</b> for comfortable operation of lifting function of spreader disc at road travel.	B4		99577921	210,00
				
(43) <b>spray protection</b> to protect Citymaster from spreading goods	B4		99577920	200,00
				
(43) <b>number plate holder</b> holder for number plate in case road travel happens with spreader disc down only (vehicle number plate is obstructed).	B4		99577922	280,00
				
<b>optional in combination with basic equipment (manual controls on spreader)</b> (43) <b>sensor hopper level</b> indicates hopper running low	B4		99577912	505,00
(43) <b>sensor spreading control</b> controls material flow at spreader disc and indicates cloggings in material slide of spreader.	B4		99577914	600,00

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		Discount needed / piece	order no.	price per piece w/o VAT EUR
<b>Spreading</b> (continued)				
	<b>(43) work light</b> to light spreader disc for visual spreader control. Connected to vehicle light equipment of CM 1650.	B4	99577917	230,00
	<b>for extended control functions</b> <b>(43) Spreader control START-STOP-DOSAGE</b> spreader start and stop via integrated control of activated Citymaster winter function, additional control unit for control of spreading width and spreading amount. Connector plug 7-pin (CM 600/1600) plus separate adapter 12-pin (CM 650/1650)	B4	99577923	1.535,00
	<b>for further extended dosage and control functions</b> <b>(43) comfort control</b> fully-automated, path dependent control unit with colour graphic display (CAN-BUS-control). Unit with support mounted in vehicle cabin, control unit at spreader, operation via touchscreen, dosage and spreading width controlled by potentiometer. Delivery with 2 individual connecting cables 7-pin (CM 600/1600) and 12-pin (CM 650/1650)	B4	99577924	2.995,00
	<b>optional:</b> <b>(43) sensor hopper level</b> indicates hopper running low	B4	99577913	425,00
	<b>(43) sensor spreading control</b> controls material flow at spreader disc and indicates cloggings in material slide of spreader.	B4	99577915	530,00
	<b>(43) work light</b> to light spreader disc for visual spreader control. Connected to 99577911.	B4	99577702	230,00

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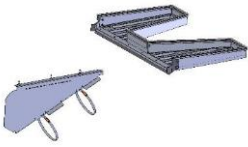


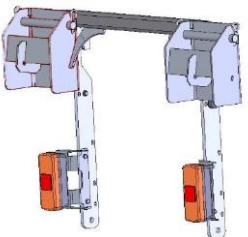

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Lawn Mowing</b>				
				
<b>Universal front mower 150 cm</b> hydraulically driven 3-blade special mowing device 50 l/min @225 bar with rear discharge, working width 150 cm. Robust mower housing with coupling triangle cat 0 and integrated pendulum balance. Four-wheel chassis with cut-height adjustment in a 1 cm grid of 4-10 cm, Transport lock for road use. Encoding plug for fully automated operation of mower-collector system.	A3		99813100	5.866,00
<b>requires:</b>				
				
<b>Attachment part rear discharge</b> rubber baffle plate for use as rear discharge mower. Encoding plug will not be used.	A3		99813110	258,00
<b>alternatively:</b>				
				
<b>Attachment part mulching</b> Attachment set for rear closure of the mower, baffles for mulch function. Encoding plug will not be used.	A3		99813130	464,00
				
<b>For mowing with pneumatic pic-up additionally required:</b>				
				
<b>Attachment part extraction</b> Device for connection of the suction socket	A3		99813120	414,00
<b>as well as:</b>				
				
<b>Attachment part mower suction socket</b> Attachment part for the vehicle-side suction route 180 mm with quick-change system	A3		99147830	397,00
<b>as well as:</b>				
				
<b>Universal suction hopper 1.000 l</b> see section attachment sweeping suction machine, Advice: Due to the vacuum suction system the grass is compacted into the hopper. The effective dumping volume is from 1.300 to 1.500 l according to the conditions of use.	A3		99148800	18.265,00

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Lawn Mowing</b> (continued)				
 <p><b>Mowing equipment</b> enlarged rear fan screens for improved filling and dividing plate overhead of suction duct for improved discharge of longer grass.</p> <p><b>Options to universal hopper see chapter "Attachment sweeping-suction machine"</b></p>	A3		99148840	760,00
<p><b>alternatively:</b></p>  <p><b>(48) mowing container WICKE MC 1500 HM</b> Mowing container with hydraulically driven conveying blower. For use with front mower 99813100 and corresponding accessories.                      - capacity 1,5 m3                      - high emptying approx. 180 cm                      - color orange RAL 2011</p>	B2		99836902	11.529,00
<p><b>(48) Noise reduction package MC 1500 HM</b> reduce the noise of the hopper</p>	B2		99836904	2.454,00
 <p><b>(37) Rotary mower rear ejection Stensballe TH 2500</b>                      Rear ejection mower with hydraulic drive 70 l/min @ 225 bar, cutting width 2.50 m. Cutting height adjustable from 20 - 80 mm. 6 pneumatic tyres 10 x 3.00. Side mowers can be pivoted hydraulically, automatic shut-off of side mowers when lifted, rubber splash guard at the rear, Delivery with standard a-frame coupler.</p>	B4		99810200	18.150,00
<p><b>requires:</b></p>  <p><b>Weight holder</b> for taking up to 10 counter weights (99343900) each 17 kg</p>	A3		99344130	516,00
 <p><b>Compensation weight 17 kg</b></p>	A1	10	99343900	99,00

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<b>Meadow mowing</b>				
 <p><b>For all flail mowers required:</b> rear weight compensation by empty dirt hopper or load platform and load of 100 kg - or:</p>				
 <p><b>Weight holder</b> for taking up to 10 counter weights (99343900)</p>	A3		99344130	516,00
 <p><b>Compensation weight 17 kg</b></p>	A1	8	99343900	99,00
 <p><b>(12) Flail mower AGRITEC GS 41-140 FGADH</b> Working width 1400 mm, total width 1570 mm, hydraulic drive with freewheel, 32 double floating bucket type blades, lateral skids, variable cutting height via rear roller and spindle, protection against stone chipping front and rear, additional splash guard to rear. Attachment via quick-change coupling triangle Cat. 0.</p>	B4		99510400	6.908,00
<p><b>(12) Flail mower AGRITEC GS 41-140 VGADH</b> same as before but with hydraulic side shift by up to 38 cm for close to edge working</p>	B4		99510402	7.851,00
<p><b>(12) flail mower AGRITEC GS 41-160 FGADH</b> same as 99510400, but working width 160 cm and 36 bucket shaped blades</p>	B4		99510410	7.062,00
<p><b>(12) Flail mower AGRITEC GS 41-160 VGADH</b> same as 99510402, but working width 160 cm and 36 bucket shaped blades</p>	B4		99510412	8.005,00
<p><b>further options :</b></p> <p><b>(12) Supporting wheels</b> 1 set = 2 pieces, height-adjustable and castor front supporting wheels for GS 40/41 for improved adjustment to ground.</p>	B4		99510430	441,00
				

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	Discount	needed / piece	order no.	price per piece w/o VAT EUR
<b>Meadow mowing</b> (continued)				
			**)	w/o add. cost
				
<p><b>(46) Flail mower MÜTHING MU-FM Hydro 140</b> working width 1400 mm, total width 1650 mm, hydraulic drive with freewheel, 24 double floating "M"-blades in spiral orientation, patented mulching rail, variable cutting height via rear roller, lateral skids, protection against stone chipping front and rear, height adjustable front wheels. Attachment via quick-change coupling triangle Cat. 0 with integrated pendular compensation</p>	B4		99510530	6.525,00
<p><b>(46) Flail mower MÜTHING MU-FM Hydro 160</b> as before, but working width 1600 mm, total width 1850 mm, 28 blades</p>	B4		99510531	6.989,00
<b>Weed removal</b>				
				
<p><b>(37) Weed brush UK 425</b> brush diameter 425 mm, 40 steel cable bristles, hydraulic drive, triple action hydraulic control via vehicle joystick and control valves (switchbox and vehicle connectors included) brush head forward / back or left / right left, or position adjust, reach appr. 1100 mm, manual set-up of work direction left or right side. splash guard, storage support stand, attachment via coupling triangle Cat. 0.</p> <p>spare bristles: Please order steel wire bristles oder other brushes separately.</p> <p>requires:</p>				
<p><b>(37) Weed brush UK 425</b> hose set, hydraulic control valves, wiring harness and encoding plug matching CM 1600/1650. Advice: CM 1600 may need software update to become fully functional with this version.</p> <p>optional:</p>	B5		99551302	5.700,00
<p><b>(37) water spray device</b> set of hose and nozzle to be supplied to from vehicle fresh water system</p> <p>optional:</p>	B5		99551311	300,00

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## Weed removal (continued)

<p><b>standard weed broom steel wire bristles</b> requires:</p> <p><b>(37) pick-up and drive plate 425 mm</b> with pick-up for up to 40 bristles, minimum setting 20 bristles</p> <p><b>alternatively:</b></p> <p><b>(37) pick-up and drive plate 620 mm</b> with pick-up for up to 80 bristles, minimum setting 40 bristles</p> <p>requires:</p> <p><b>(37) set of spare bristles steel wire (20 pcs.)</b> in weather proof packing. Order 2 sets for full brush</p> <p>or:</p> <p><b>(37) set of spare bristles steel wire (40 pcs.)</b> in weather proof packing. For full equipment of drive plate 620 mm order 2 sets!</p> <p>alternative brushes for UK 425 requires 99551351</p> <p><b>(37) plastic broom 620 mm</b> for joint friendly sweeping or on sensitive surfaces. Supply with adapter plate to be installed on 99511351</p> <p>or:</p> <p><b>(37) bundled iron strips brush 620 mm</b> for specific cleaning of pavement joints. Supply with adapter plate to be installed on 99511351</p>				
	B5		99551351	1.150,00
	B5		99551352	1.625,00
	B5	1	99551356	250,00
	B5	1	99551366	500,00
	B4	1	99551343	990,00
	B4	1	99551342	1.600,00

## hedge trimming

 <p><b>(45) hedge cutter ELKAER Termit 1300</b> cutting width 1300 mm, hydraulic drive quick acting double-lame cutting bar with 18 lames for max. 20 mm twigs, vertical cutting height up to 3200 mm, horizontal cutting height up to 2500 mm cutting bar and arm hydraulically adjustable via vehicle joystick, work position left/right manually adjustable 5 positions, 2 wheel support chassis for optimum ground adoption and support at far lateral reach, ttachment via quick-change coupling triangle Cat. 0.</p>	B4		99511001	6.060,00
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<p><b>Note:</b> Description and pricing for all options valid in case of delivery ex works with basic machine. Options for separate delivery (R) are marked and may be ordered separately. Pricing for retrofit kits or separate delivery upon request only.</p> <p>Machines or parts marked with ID-Number e.g.(22) are products produced by other manufacturers. The prices may vary according to the producer. These products are delivered directly from the manufacturers with their delivery conditions plus post &amp; packing costs. The price is ex works including standard packaging. The value-added tax will be extra-charged in the acknowledgement of order and the bill.</p>				

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