

# Suction sweeper

## - City Ranger 3070

### Standard equipment:

<b>Hopper</b>	As standard the hopper has a rotation filter system and a fresh water tank with 190 l capacity.
<b>Front brush unit</b>	The unit consists of a suction mouth and two front brushes with a water nozzle on each.
<b>Vacuum sensor</b>	Monitors the flow through the suction hose and gives an indication if the suction hose is clogged. With this feature, the collection can be optimized.
<b>Brush pressure system</b>	Activating the hydraulic weight distribution makes the front brushes follow ground variations. In addition, the operator can control the brush pressure from the controls in the cabin. Being able to easily adjust the brush pressure to match the types and levels of debris allows the driver to drive with the lowest needed pressure on the brushes, and thereby reduce the wear on them. The system enhances performance and reduces operating costs.
<b>Hopper stand</b>	The stand for attaching, detaching and storing the hopper allows you to attach/detach the hopper in just 1 minute supporting the multifunctionality of the machine.
<b>Recirculation water system</b>	By choosing the recirculation water system, you can ensure a constant cleaning of the suction pipe while sweeping sticky material. 160 litre is recommended.
<b>Suction mouth</b>	The suction mouth, which is integrated into the front brush unit, is equipped with an automatic front flap. The front flap opens and closes automatically during sweeping. The advantage of the front flap is that the vacuum in the suction system remains optimal.
<b>Collision protection</b>	As standard the brushes are equipped with spring-loaded hydraulic cylinders, which allow the brush arm to deflect in case of contact with obstacles. This reduces the risks of damage to the brushes and surroundings when operating with the brushes in the extended sweeping position.

### Extra equipment (options):

<b>3<sup>rd</sup> side brush</b>	The 3rd side brush is equipped with a spring-loaded and collisionproof function, increasing the service life of the brush while also safeguarding surrounding objects. The tipping function is controlled via the cabin joystick and the hydraulic system of the machine and can advantageously be activated when encountering depressions, gutters, kerbstones, and the like. With the 3rd side brush sweeping is possible at two levels: while the two front brushes sweep the road, the 3rd side brush can sweep the pavement.
<b>Tiltable front brush function</b>	The front brush can be equipped with a function making it possible to tilt it. When the brush is placed in the outermost position, the tilt function can be used to achieve an extra angle of the brush of up to 7 degrees. The tilt-function is controlled via the cabin joystick and the hydraulic system of the machine and can be advantageously activated when encountering depressions, gutters, kerbstones, and the like. The tilt-function can be mounted on either right, left or both front brushes.
<b>Electrical actuator</b>	If you want to adjust the front flap yourself, an electrical actuator can be purchased. The electrical actuator makes it possible to adjust the front flap steplessly via the joystick on the control panel. In this way, the suction can be adapted to any situation.
<b>Wander hose</b>	The wander hose system is handy for areas out of reach of the suction sweeper unit. With easy access, great mobility and excellent suction performance, cleaning tasks around park bins, benches, steps, tress and other obstacles can be done in no time and with good results. Specifications: 5 m x Ø150 mm.
<b>High pressure washer</b>	A long and flexible high pressure hose and lance makes the cleaning of statues, park bins and benches easy. The lance is ergonomic and water amounts can be adjusted to conserve water. Specifications: 7.5 m hose, 100 bar and 10 l/min.
<b>Wide-base tyres for the basic machine</b>	To improve the operator and driving comfort, whilst also reducing the ground pressure, we recommend wide-base tyres when using the suction sweeper. When wide-base tyres are mounted, the width of the basic machine is 1280 mm.



# Suction sweeper

## - City Ranger 3070



### Technical specifications

#### Dimensions

Length	mm	4242
Width	mm	1430 - 1700
Height / with beacon	mm	2000 / 2210
Length with 3 <sup>rd</sup> brush	mm	4670
Width with 3 <sup>rd</sup> brush	mm	2770

#### Storage dimensions

Length with stand	mm	2600
Width with stand	mm	1700
Height with stand	mm	2060

#### Weights & other data

Weight <sup>1)</sup>	kg	2270
Payload	kg	730
Weight - hopper (excl. options)	kg	330
Weight - front brushes, 2 brushes	kg	140
Weight - front brushes, 2 brushes + 3 <sup>rd</sup> brush	kg	200

#### Hopper

Hopper net volume (EN 15429-1)	l	950
Hopper gross volume	l	1050
Tipping height	mm	1700
Fresh water tank capacity	l	190
Recirculation water volume (recommended)	l	125

### Technical specifications - continued...

#### Sweeping system & performance

Working width - 2 brushes, min.	mm	1700
Working width - 2 brushes, max. (brushes)	mm	2300
Working width - 3 brushes, max. (brushes)	mm	2770
Turning circle - 2 brushes and hopper (wall to wall), min. - max. <sup>2)</sup>	mm	4730 - 5580
Turning circle - 3 brushes and hopper (wall to wall), max. <sup>2)</sup>	mm	5800
Brush speed	rpm	0-80
Brush diameter Ø	mm	850
Brush diameter - 3 <sup>rd</sup> brush	mm	570
Suction mouth, width x length	mm	721 x 360
Suction tube diameter Ø	mm	160
Ground clearance below suction mouth	mm	110
Ground clearance below brushes	mm	170
Fuel consumption ECO mode @1800 RPM (EN 15429-2:2013)	l/h	4,2
Dust levels: EUnited PM10 and PM2.5		****

#### Noise emissions - sound power levels L<sub>WA</sub>

In BOOST mode @2400 RPM (2000/14/EC and DIN EN ISO 3744)	dB(A)	108
In 3rd mode @2200 RPM (DIN EN ISO 3744)	dB(A)	104
In 2nd mode @2000 RPM (DIN EN ISO 3744)	dB(A)	102
In ECO mode @1800 RPM (DIN EN ISO 3744)	dB(A)	99

#### Noise emissions - sound pressure levels L<sub>pA</sub>

In BOOST mode @2400 RPM (DIN EN ISO 11201) <sup>3)</sup>	dB(A)	73
In 3rd mode @2200 RPM (DIN EN ISO 11201) <sup>3)</sup>	dB(A)	71
In 2nd mode @2000 RPM (DIN EN ISO 11201) <sup>3)</sup>	dB(A)	67
In ECO mode @1800 RPM (DIN EN ISO 11201) <sup>3)</sup>	dB(A)	67

#### Vibrations

Hand/arm (2002/44/EC and DIN EN ISO 5349-1)	m/s <sup>2</sup>	0,59
Whole body (2002/44/EC and DIN EN ISO 5349-1)	m/s <sup>2</sup>	0,23

#### CE certified according to EU directive

<sup>1)</sup> Includes: hopper, 2 brushes, 75 kg operator and 90% fuel capacity.

<sup>2)</sup> EN 15429-1

<sup>3)</sup> At operator's ear.

