

# TJS / TJS-C

Jet sweeper



The towed Schmidt TJS jet sweeper is hard to beat in terms of performance and flexibility. A clearing width of up to eight metres, excellent manoeuvrability and high working speed enable very fast and highly efficient snow clearance at airports. The modern and intuitive driver assistance system of the TJS allows the driver to concentrate on the essential tasks of the clearing operation and is prepared for automated and autonomous operations.

# Highlights

- The technical concept with modular design can be flexibly adapted to any specific application concept.
- The clearing and brush width and blower performance are available in three basic versions and many options, including a compact version.
- The TJS is equipped with the **latest generation of engines** as standard and can also run on biodiesel, biogas or HVO thanks to **dual-fuel options.**
- The TJS can be used with a variety of **brush systems** and automatic settings.
- Over 500 TJS jet sweepers are in use around the world in a variety of application concepts. The practical experience gained at many airports has been continuously incorporated into product development over the past few decades, including explicitly in patents for sweeping pattern adjustment and transport safety.

## Your benefits

- A clearing width of up to eight metres allows you to clear areas efficiently with just a small fleet and minimal manpower.
- The high working speed allows **fast clearing** without compromising on reliability.
- With its robust design and in combination with digital assistance systems, the TJS offers maximum convenience for safe operations.
- The modular technology allows **you to choose the right system** for the right truck. A system that can also be adapted to changing needs at any time.
- The Schmidt TJS has a state-of-the-art, high-precision driver assistance system and is prepared for automated and autonomous operations - tested in practice, not just in theory.

## Performance features

#### **Highly efficient clearing process**

The TJS jet sweeper combines three steps into one single operation and brings your runway quickly back to blacktop. Whereas the snow plough clears the majority of the snow to the side, the brush clears the remaining snow and slush while the blower unit generates a powerful air flow across the entire sweeping width to remove any remaining moisture. Here you are with more details of the three units:

#### Snow plough



Clean and aggressive clearance is achieved with the Schmidt MS Tarron airport snow ploughs, such as the MS 56.2 NA. These are designed for fast snow clearance at airports and offer outstanding performance with optional fine clearing bar, ejection stop or low blade shape.

#### Sweeping unit

The hydraulically-driven brush is mounted to a supporting frame and suspended via a parallelogram lifting system, so that it rests on the surface regardless of vehicle movement and uneven ground. The brush's automatic and stepless sweeping pattern adjustment is carried out hydraulically and determined by the height adjustment of twin castors. During operation, the brush speed is adjusted automatically to suit the driving speed and shown on the control panel's display. A long brush service life is possible – thanks to the wear-dependent brush speed adjustment.



The twin castors offer very quiet, vibration-free and smooth sweeping performance, while level snow ejection and the cleanest fine clearing ensure maximum safety. This is achieved thanks to aerodynamic spoiler guidance, automatic spoiler adjustment and wear-dependent brush speed adjustment. This permits the jet sweeper to deliver a specific fine clearing result, while the robust design offers both optimum operational capability and maximum safety.

#### Optimum brush life

Otimum brush life is achieved with a 21-piece cassette brush set with the longest bristle length. This type of brush is the most economical based on the number of cassettes to brush cost ratio – a recommendation we are happy to share with you. Depending on your requirements, you can choose between plastic (polyurethane) bristle materials [1], steel [2] or mixed (polyurethane/steel) [3].



#### **Blower unit**

The blower unit of the TJS/TJS-C is located directly behind the sweeping unit. The blower removes any remaining water and slush from the clearing area, ensuring optimum friction values and better braking action on runways. The blower is driven hydraulically by the auxiliary engine via a variable displacement pump. Since the air flow is emitted directly above the ground, there is hardly any performance loss. In addition, the blower speed can be regulated in two stages. The aerodynamic air flow in the air duct ensures optimum blowing air performance over the entire clearing area. A constant air speed ensures uniform clearing of the snow-covered area.



#### Drive



The drive motor drives the hydraulic pumps for operating and controlling the sweeping unit and blowing unit. The snow plough is controlled by a hydraulic system driven by the carrier vehicle's engine. The TJS/TJS-C's hydropneumatic chassis offers the operator additional comfort in the field.

#### The TJS-C's environmentally-friendly drive technology

The importance of environmental and climate protection also presents airports with growing challenges. In order to achieve the balance between the required performance of a snow clearing machine and environmentally responsible fuel consumption, we use Volvo's CO<sub>2</sub>-neutral dual-fuel engines, which run on a mixture of biogas and biodiesel. Depending on the required power, 60 to 80% of the biodiesel can be substituted with biogas. As a result, the engines make an important contribution to the positive environmental balance of any airport. As an alternative fuel variant, HVO (Hydrated Vegetable Oil) can also be used.

#### **Motion control**

Both pulse control and synchronous control are possible for the snow plough, sweeping unit and blower, i.e. all components can be controlled individually or synchronously. On the one hand, this makes the clearing process particularly efficient (synchronous control), while on the other hand, pulse control (manual) can be used to react to special situations (e.g. readjustment of the snow plough).

#### **Operating concept**

State-of-the-art control technology is an important step in the safe and efficient clearing of airport tarmac. Logical and intuitive menu navigation and automatically controlled processes help to support drivers by ensuring that concentration remains focused on the clearing operation. The display indicates the operating hours data when the machine is at a standstill; information about the engine speed, brush speed and blower output can be called up when the engine is running. The display also provides a comprehensive overview of fault or error messages.



#### **AirfieldPilot**



The high-precision AirfieldPilot driver assistance system, which takes into account the individual characteristics of an airport and has been successfully tested in practice, makes it possible to significantly increase the performance of a clearing fleet. Furthermore it saves costs, allows you to plan more flexibly and leads to greater safety during operations - especially for your staff. In addition, the system reduces operational risks and the probability of occurrence of damage. Another equally important factor is the ecological aspect. By optimising fuel consumption, it contributes to more environmentally friendly operation. The AirfieldPilot can be used for various automated or autonomous deployment concepts:

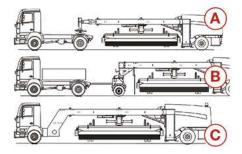
- As a classic **driver assistance system** with navigation, route guidance, equipment guidance and communication between vehicles (V2V)
- For **supervised automated operations**, in which the carrier vehicle and the jet sweeper are controlled automatically, taking into account the topographical and geographical features, but a driver in the cab remains responsible for the operation and can intervene at any time
- For fully automated operations, including the increased safety requirements for such concepts

#### **Difference between TJS and TJS-C**

The TJS includes an all-wheel-drive towing vehicle with front-mounted snow plough and a jet sweeper with integrated coupling system – either as a semi-trailer or as a trailer. The auxiliary engine, which drives both the sweeping unit and the blower unit hydraulically, is located in the rear engine compartment. On the other hand the compact TJS-C has a powerful tractor unit, including a snow plough, plus the same options for the brush roller and blower unit as the TJS. The compact attachment to the tractor unit makes the TJS-C a compact and particularly manoeuvrable machine.



#### Towing vehicles and connections



With different coupling systems, we offer a wide selection of jet sweepers that are perfectly tailored to your individual requirements. By using a modular system that includes various TJS versions, working widths and clearing capacities, a customised TJS/TJS-C can be configured to meet your exact requirements. Within the coupling systems, we distinguish between three different variants:

**Semi-trailers (A):** For the semi-trailer version, all commercially available truck chassis can be used as a towing vehicle, including MAN, Mercedes-Benz, Volvo or other vehicles with fifth wheel coupling, ideally a 4x4 chassis.

**4-wheel TJS with towbar (B):** All commercially available chassis or tractors, ideally a 4x4 chassis, can be used for the 4-wheel TJS with towbar.

**TJS-C: tractor unit (C):** For the tractor unit version, we offer a Volvo with articulated steering or a Mercedes. This makes the TJS-C both compact and manoeuvrable.



#### **Smart Service Concept**

The Smart Service Concept equals easier maintenance. It allows free access to all important components and low service time due to the ease of access to the components. In addition, the TJS / TJS-C has a practical mounting bracket for the control panel on the control cabinet for service and workshop use. The optimised wiring harness layout ensures high quality standards and reduced service requirements. At the same time, the air intake underneath the bonnet ensures less air filter contamination.

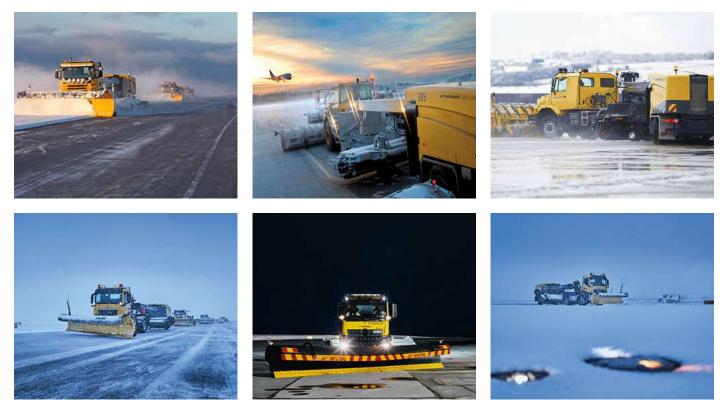


#### **Multitude of variants**

The modular concept allows the TJS/TJS-C to be customised to suit your individual requirements and to fit any towing or carrier vehicle. Based on the basic variants 420, 560 and 630, which are determined by the brush width, the following options are available to you:

- Parking position for both the brush and the sweeping unit
- Different brush fill materials
- Additional blower unit in front of the brush
- Combination with airport snow plough from the Tarron-MS series with plough widths between 5,600 mm and 8,000 mm
- Additional rear axle steering for maximum manoeuvrability
- Traction weights for towing vehicle
- Engine: Hood can be tilted backwards; electro-hydraulic, manually operated unit for opening the engine hood; upward exhaust orientation possible
- Safety: Additional lighting; rear area monitoring; 270°/360° camera

# **Gallery**



Variants

#### TJS 420



The broom length is 4,200 mm.

#### TJS-C 420

CJS

Jet sweeper



The broom length is 4,200 mm.

TJS 560



The broom length is 5,600 mm.

#### **TJS-C 560**



The broom length is 5,600 mm.

TJS 630



The broom length is 6,300 mm.

#### TJS-C 630



The broom length is 6,300 mm.



# CJS-DI

Jet sweeper





# Technical data

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Total weight with full tank         11,700 kg         12,100 kg         13,000 kg           Axle load in transport position         8,500 kg         8,500 kg         8,800 kg           Support weight on kingpin         3,500 kg         3,700 kg         4,000 kg           Support weight on kingpin         3,500 kg         3,700 kg         4,000 kg           TJS-C 420         TJS-C 560         TJS-C 630           Sweeping unit         4,200 mm         5,600 mm         6,300 mm           Sweeping speed         4,200 mm         5,600 mm         6,300 mm           Vorking speed         Vorking speed up to         60 km/h         60 km/h         60 km/h           Vorking speed up to         60 km/h         60 km/h         60 km/h         60 km/h           Strate emission         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V (380 HP) @ 1,800 1/min           Strate tank         600 I         600 I         600 I         600 I	Sweeping width at 32° positioning Ingle	3,560 mm	4,750 mm	5,340 mm																																																																						
xxle load in transport position8,500 kg8,500 kg8,800 kgSupport weight on kingpin3,500 kg3,700 kg4,000 kgTJS-C 420TJS-C 560TJS-C 630TJS-C 630Sweeping unitSweeping unit <tr <td="" co<="" td=""><td>Veights</td><td></td><td></td><td></td></tr> <tr><td>Support weight on kingpin3,500 kg3,700 kg4,000 kgSupport weight on kingpinTJS-C 420TJS-C 560TJS-C 630TJS-C 630Sweeping unitSweeping unitSweeping unitSweeping unitSweeping unitSweeping unitStrush length4,200 mm5,600 mm6,300 mmVorking speed60 km/h60 km/h60 km/hVorking speed up to60 km/h60 km/h60 km/hSweeping unitMotor typeMercedes Benz OM 936 LAMercedes Benz OM 936 LAMercedes Benz OM 936 LAMotor typeMercedes Benz OM 936 LAMercedes Benz OM 936 LAMercedes Benz OM 936 LAExhaust emissionEuroMot IIIA (Downgrade EFP) / EuroMot VEuroMot VEuroMot VPerformance260 kW (354 HP) @ 1,800 1/min280 kW (380 HP) @ 1,800 1/min280 kW (380 HP) @ 1,800 1/minSuru I tank600 I600 I600 I600 IWorking hours, depending on the10 h10 h10 h</td><td>otal weight with full tank</td><td>11,700 kg</td><td>12,100 kg</td><td>13,000 kg</td></tr> <tr><td>TJS-C 420       TJS-C 560       TJS-C 630         Sweeping unit      </td><td>Axle load in transport position</td><td>8,500 kg</td><td></td><td>, ,</td></tr> <tr><td>Sweeping unit         Australian         Aust</td><td>Support weight on kingpin</td><td>3,500 kg</td><td>3,700 kg</td><td>4,000 kg</td></tr> <tr><td>Brush length       4,200 mm       5,600 mm       6,300 mm         Working speed       Vorking speed up to       60 km/h       60 km/h       60 km/h         Vorking speed up to       60 km/h       60 km/h       60 km/h       60 km/h         Drive system - auxiliary engine       Morcedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Exhaust emission       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) EuroMot V       EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Gue tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h</td><td></td><td>TJS-C 420</td><td>TJS-C 560</td><td>TJS-C 630</td></tr> <tr><td>Brush length       4,200 mm       5,600 mm       6,300 mm         Working speed       Vorking speed up to       60 km/h       60 km/h       60 km/h         Vorking speed up to       60 km/h       60 km/h       60 km/h       60 km/h         Drive system - auxiliary engine       Morcedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Exhaust emission       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) EuroMot V       EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Gue tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h</td><td>Sweeping unit</td><td></td><td></td><td></td></tr> <tr><td>Working speed         Working speed up to         60 km/h         60 km/h         60 km/h           Vorking speed up to         60 km/h         60 km/h         60 km/h         60 km/h         60 km/h           Drive system - auxiliary engine         Morcedes Benz OM 936 LA         Mercedes Benz OM 936 LA         EuroMot IIIA (Downgrade EFP) / EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V         EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIIA (Downgrade EFP) / EuroMot IIIIA (Downgrade EFP) / E</td><td>Brush length</td><td>4,200 mm</td><td>5,600 mm</td><td>6,300 mm</td></tr> <tr><td>Drive system - auxiliary engine         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       EuroMot IIIA (Downgrade EFP) / EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Stuel tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h</td><td>Vorking speed</td><td></td><td></td><td></td></tr> <tr><td>Motor type         Mercedes Benz OM 936 LA           Autor type         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V</td><td>Vorking speed up to</td><td>60 km/h</td><td>60 km/h</td><td>60 km/h</td></tr> <tr><td>EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Suel tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h</td><td>Prive system - auxiliary engine</td><td></td><td></td><td></td></tr> <tr><td>Exhaust emission         EuroMot V         EuroMot V         EuroMot V           Performance         260 kW (354 HP) @ 1,800 1/min         280 kW (380 HP) @ 1,800 1/min         280 kW (380 HP) @ 1,800 1/min           Stell tank         600 I         600 I         600 I           Vorking hours, depending on the         10 h         10 h         10 h</td><td>Notor type</td><td>Mercedes Benz OM 936 LA</td><td>Mercedes Benz OM 936 LA</td><td>Mercedes Benz OM 936 LA</td></tr> <tr><td>Fuel tank         600 I         600 I         600 I           Vorking hours, depending on the         10 h         10 h         10 h</td><td>Exhaust emission</td><td>, , , , , , , , , , , , , , , , , , ,</td><td></td><td>EuroMot IIIA (Downgrade EFP) / EuroMot V</td></tr> <tr><td>Vorking hours, depending on the 10 h 10 h 10 h</td><td>Performance</td><td>260 kW (354 HP) @ 1,800 1/min</td><td>280 kW (380 HP) @ 1,800 1/min</td><td>280 kW (380 HP) @ 1,800 1/min</td></tr> <tr><td></td><td>Fuel tank</td><td>600  </td><td>600  </td><td>600 I</td></tr> <tr><td></td><td>Working hours, depending on the operating conditions</td><td>10 h</td><td>10 h</td><td>10 h</td></tr>	Veights				Support weight on kingpin3,500 kg3,700 kg4,000 kgSupport weight on kingpinTJS-C 420TJS-C 560TJS-C 630TJS-C 630Sweeping unitSweeping unitSweeping unitSweeping unitSweeping unitSweeping unitStrush length4,200 mm5,600 mm6,300 mmVorking speed60 km/h60 km/h60 km/hVorking speed up to60 km/h60 km/h60 km/hSweeping unitMotor typeMercedes Benz OM 936 LAMercedes Benz OM 936 LAMercedes Benz OM 936 LAMotor typeMercedes Benz OM 936 LAMercedes Benz OM 936 LAMercedes Benz OM 936 LAExhaust emissionEuroMot IIIA (Downgrade EFP) / EuroMot VEuroMot VEuroMot VPerformance260 kW (354 HP) @ 1,800 1/min280 kW (380 HP) @ 1,800 1/min280 kW (380 HP) @ 1,800 1/minSuru I tank600 I600 I600 I600 IWorking hours, depending on the10 h10 h10 h	otal weight with full tank	11,700 kg	12,100 kg	13,000 kg	TJS-C 420       TJS-C 560       TJS-C 630         Sweeping unit	Axle load in transport position	8,500 kg		, ,	Sweeping unit         Australian         Aust	Support weight on kingpin	3,500 kg	3,700 kg	4,000 kg	Brush length       4,200 mm       5,600 mm       6,300 mm         Working speed       Vorking speed up to       60 km/h       60 km/h       60 km/h         Vorking speed up to       60 km/h       60 km/h       60 km/h       60 km/h         Drive system - auxiliary engine       Morcedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Exhaust emission       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) EuroMot V       EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Gue tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h		TJS-C 420	TJS-C 560	TJS-C 630	Brush length       4,200 mm       5,600 mm       6,300 mm         Working speed       Vorking speed up to       60 km/h       60 km/h       60 km/h         Vorking speed up to       60 km/h       60 km/h       60 km/h       60 km/h         Drive system - auxiliary engine       Morcedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Exhaust emission       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) EuroMot V       EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Gue tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h	Sweeping unit				Working speed         Working speed up to         60 km/h         60 km/h         60 km/h           Vorking speed up to         60 km/h         60 km/h         60 km/h         60 km/h         60 km/h           Drive system - auxiliary engine         Morcedes Benz OM 936 LA         Mercedes Benz OM 936 LA         EuroMot IIIA (Downgrade EFP) / EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V         EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIIA (Downgrade EFP) / EuroMot IIIIA (Downgrade EFP) / E	Brush length	4,200 mm	5,600 mm	6,300 mm	Drive system - auxiliary engine         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       EuroMot IIIA (Downgrade EFP) / EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Stuel tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h	Vorking speed				Motor type         Mercedes Benz OM 936 LA           Autor type         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V	Vorking speed up to	60 km/h	60 km/h	60 km/h	EuroMot IIIA (Downgrade EFP) / EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Suel tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h	Prive system - auxiliary engine				Exhaust emission         EuroMot V         EuroMot V         EuroMot V           Performance         260 kW (354 HP) @ 1,800 1/min         280 kW (380 HP) @ 1,800 1/min         280 kW (380 HP) @ 1,800 1/min           Stell tank         600 I         600 I         600 I           Vorking hours, depending on the         10 h         10 h         10 h	Notor type	Mercedes Benz OM 936 LA	Mercedes Benz OM 936 LA	Mercedes Benz OM 936 LA	Fuel tank         600 I         600 I         600 I           Vorking hours, depending on the         10 h         10 h         10 h	Exhaust emission	, , , , , , , , , , , , , , , , , , ,		EuroMot IIIA (Downgrade EFP) / EuroMot V	Vorking hours, depending on the 10 h 10 h 10 h	Performance	260 kW (354 HP) @ 1,800 1/min	280 kW (380 HP) @ 1,800 1/min	280 kW (380 HP) @ 1,800 1/min		Fuel tank	600	600	600 I		Working hours, depending on the operating conditions	10 h	10 h	10 h
Veights																																																																										
Support weight on kingpin3,500 kg3,700 kg4,000 kgSupport weight on kingpinTJS-C 420TJS-C 560TJS-C 630TJS-C 630Sweeping unitSweeping unitSweeping unitSweeping unitSweeping unitSweeping unitStrush length4,200 mm5,600 mm6,300 mmVorking speed60 km/h60 km/h60 km/hVorking speed up to60 km/h60 km/h60 km/hSweeping unitMotor typeMercedes Benz OM 936 LAMercedes Benz OM 936 LAMercedes Benz OM 936 LAMotor typeMercedes Benz OM 936 LAMercedes Benz OM 936 LAMercedes Benz OM 936 LAExhaust emissionEuroMot IIIA (Downgrade EFP) / EuroMot VEuroMot VEuroMot VPerformance260 kW (354 HP) @ 1,800 1/min280 kW (380 HP) @ 1,800 1/min280 kW (380 HP) @ 1,800 1/minSuru I tank600 I600 I600 I600 IWorking hours, depending on the10 h10 h10 h	otal weight with full tank	11,700 kg	12,100 kg	13,000 kg																																																																						
TJS-C 420       TJS-C 560       TJS-C 630         Sweeping unit	Axle load in transport position	8,500 kg		, ,																																																																						
Sweeping unit         Australian         Aust	Support weight on kingpin	3,500 kg	3,700 kg	4,000 kg																																																																						
Brush length       4,200 mm       5,600 mm       6,300 mm         Working speed       Vorking speed up to       60 km/h       60 km/h       60 km/h         Vorking speed up to       60 km/h       60 km/h       60 km/h       60 km/h         Drive system - auxiliary engine       Morcedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Exhaust emission       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) EuroMot V       EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Gue tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h		TJS-C 420	TJS-C 560	TJS-C 630																																																																						
Brush length       4,200 mm       5,600 mm       6,300 mm         Working speed       Vorking speed up to       60 km/h       60 km/h       60 km/h         Vorking speed up to       60 km/h       60 km/h       60 km/h       60 km/h         Drive system - auxiliary engine       Morcedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Exhaust emission       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) / EuroMot V       EuroMot IIIA (Downgrade EFP) EuroMot V       EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Gue tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h	Sweeping unit																																																																									
Working speed         Working speed up to         60 km/h         60 km/h         60 km/h           Vorking speed up to         60 km/h         60 km/h         60 km/h         60 km/h         60 km/h           Drive system - auxiliary engine         Morcedes Benz OM 936 LA         Mercedes Benz OM 936 LA         EuroMot IIIA (Downgrade EFP) / EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V         EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIIA (Downgrade EFP) / EuroMot IIIIA (Downgrade EFP) / E	Brush length	4,200 mm	5,600 mm	6,300 mm																																																																						
Drive system - auxiliary engine         Motor type       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA       Mercedes Benz OM 936 LA         Motor type       EuroMot IIIA (Downgrade EFP) / EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Stuel tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h	Vorking speed																																																																									
Motor type         Mercedes Benz OM 936 LA           Autor type         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot IIIA (Downgrade EFP) / EuroMot V         EuroMot V	Vorking speed up to	60 km/h	60 km/h	60 km/h																																																																						
EuroMot IIIA (Downgrade EFP) / EuroMot V         Performance       260 kW (354 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min       280 kW (380 HP) @ 1,800 1/min         Suel tank       600 I       600 I       600 I         Vorking hours, depending on the       10 h       10 h       10 h	Prive system - auxiliary engine																																																																									
Exhaust emission         EuroMot V         EuroMot V         EuroMot V           Performance         260 kW (354 HP) @ 1,800 1/min         280 kW (380 HP) @ 1,800 1/min         280 kW (380 HP) @ 1,800 1/min           Stell tank         600 I         600 I         600 I           Vorking hours, depending on the         10 h         10 h         10 h	Notor type	Mercedes Benz OM 936 LA	Mercedes Benz OM 936 LA	Mercedes Benz OM 936 LA																																																																						
Fuel tank         600 I         600 I         600 I           Vorking hours, depending on the         10 h         10 h         10 h	Exhaust emission	, , , , , , , , , , , , , , , , , , ,		EuroMot IIIA (Downgrade EFP) / EuroMot V																																																																						
Vorking hours, depending on the 10 h 10 h 10 h	Performance	260 kW (354 HP) @ 1,800 1/min	280 kW (380 HP) @ 1,800 1/min	280 kW (380 HP) @ 1,800 1/min																																																																						
	Fuel tank	600	600	600 I																																																																						
	Working hours, depending on the operating conditions	10 h	10 h	10 h																																																																						

Drive system - auxiliary engine 2 Volvo TAD1382VE Volvo TAD1382VE Volvo TAD1382VE Motor type EuroMot V/Tier 4 final EuroMot V/Tier 4 final EuroMot V/Tier 4 final Exhaust emission Performance 285 kW (388 HP) @ 1,900 1/min 315 kW (428 HP) @ 1,900 1/min 315 kW (428 HP) @ 1,900 1/min 600 I 600 I 600 I Fuel tank

	TJS-C 420	TJS-C 560	TJS-C 630
Working hours, depending on the operating conditions	10 h	10 h	10 h
Drive system - auxiliary engine 3			
Motor type	-	Volvo TAD1352VE	Volvo TAD1352VE
Exhaust emission	-	EuroMot IIIA (Downgrade EFP) / China III	EuroMot IIIA (Downgrade EFP) / China III
Performance	_	315 kW (428 HP) @ 1,900 1/min	315 kW (428 HP) @ 1,900 1/min
Fuel tank	_	600 I	600 I
Working hours, depending on the operating conditions	-	10 h	10 h
Dimensions			
Total length - TJS-C with articulated steering	-	Cassette brush: 15,720 mm	Cassette brush: 16,420 mm / Wafer brush: 17,330 mm
Length middle of front axle to midd- le of rear axle	-	Cassette brush: 10,500 mm	Cassette brush: 11,250 mm / Wafer brush: 12,150 mm
Transport width, in parking position	-	Cassette brush: 2,950 mm	Cassette brush: 2,950 mm / Wafer brush: 3,060 mm
Height (without beacon)	-	Cassette brush: 3,760 mm	Cassette brush: 3,760 mm / Wafer brush: 3,760 mm
Sweeping width at 32°	-	Cassette brush: 4,750 mm	Cassette brush: 5,340 mm / Wafer brush: 5,340 mm
Example dimensions			
Sweeping width at 32° positioning angle	3,560 mm	-	-



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