

CJS

Jet sweeper

The Schmidt CJS is the flexible and efficient all-rounder among the jet sweepers. It provides impressive performance features, is extremely manoeuvrable and sweeps with a brush width of up to 4900 mm. Its modern, intuitive operating concept supports safe working with the machine under often difficult conditions. Maintenance work can be carried out quickly and efficiently thanks to simple and clear access points.

Highlights

- The robust and **compact design** is ideally matched to the truck chassis.
- The **aerodynamic air routing ensures** maximum blowing performance.
- The CJS can be used with a variety of **broom systems and automatic settings**, as well as combined with **ploughs** individually **adapted to the operation scenario.**
- The CJS can be easily integrated into digital **support systems that promote efficiency and additional safety.**
- The current generation of vehicles is prepared for autonomous and automated deployment concepts with the modern and innovative **driver assistance system.**

Your benefits

- With an all-round machine, you can always react **flexibly** to changing requirements **without having tocompromise on performance.**
- Thanks to the extremely small turning circle, the CJS alsoclears **areas whereadditional equipment would otherwise be required**, especially in tight spaces on the apron.
- The modern, intuitive operating concept allows many **presets customised to your airport** and operation by just one joystick.
- With a CJS, **you can significantly reduce your maintenance costs,** as all components are easily accessible.
- Thanks to its compact design, the CJS requires a **comparatively small footprint when** not in use.



We know how important it is that your machines and equipment are always ready to deploy. **Get in touch with us** about our range of tailored services and original spare parts.

Performance features

Clearing process

Back to blacktop in a single work step

Three process steps combined in a single operation and the runway is ready for flight operations again.

1. The snow plough clears the majority of the snow to the side.
2. The brush roller clears away the remaining snow and slush.
3. The blower unit generates a powerful jet of air that sweeps across the entire sweeping width, removing any remaining moisture

Snow plough

Clean and aggressive clearance is achieved with the Schmidt MS Tarron airport snow ploughs, such as the MS 56.2 N. 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

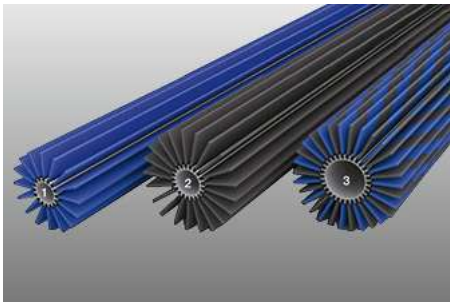
The sweeping unit is mounted between the vehicle axles, while the drive of the brush is hydrostatic. The brush is optimally adapted to the sweept surface and achieves a very good clearing result. The sweeping pattern adjustment of the brush is adjusted automatically and continuously via twin castor wheels.

Brush designs

The CJS has a 16-piece cartridge system with plastic [1], steel [2] or mixed bristles [3] and is also available as an 18 or 21-piece system. The 21-piece design produces less air turbulence with the denser bristle material, which ensures better clearing performance and a longer brush life at the same speed and with more brush strips.







Blower unit

The high-performance blower is driven hydraulically by the auxiliary engine via a variable displacement pump. The blower can be switched on and off by swivelling the pump. The blower unit is optimally designed to spread the large air capacity. The air speed is virtually constant across the entire working width. The blowing nozzle can be raised and lowered hydraulically.



Carrier vehicles



As standard, the CJS seamlessly mounts onto the Mercedes-Benz Arcos 2036 chassis type carrier vehicle. This carrier vehicle features a turning circle diameter of 18 meters and offers the option for additional rear axle steering for enhanced agility. The basic equipment and the exhaust emissions of the carrier vehicle must be selected specifically to meet the standards of the customer and the relevant country.

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 CJS's hydropneumatic chassis offers the operator additional comfort in the field.

Motion control

Both impulse and synchronous control are possible for the snow plough, sweeping unit and blower. On the one hand, this allows particularly efficient clearing processes via synchronous control. On the other, it also allows response to specific situations such as adjustment of the snow plough by means of individual, impulse control.

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.







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 CJS 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.







Gallery









Variants

CJS 420



The broom length is 4,200 mm.

CJS 490



The broom length is 4,900 mm.

Related products

CJS-DI

Jet sweeper



TJS / TJS-C

Jet sweeper





Trust in our many years of uniquely diverse experience. **Get in touch with us.** We'll find the right solution for your specific challenge.

Technical data

	CJS 420	CJS 490
Sweeping unit		
Brush length	4,200 mm	4,900 mm
Number of cartridges / brush material / diameter	16-, 18- o. 21-piece steel, poly and mixed bristles Ø 914 mm	16-, 18- o. 21-piece steel, poly and mixed bristles Ø 914 mm
Working speed		
Working speed up to	60 km/h	60 km/h
Drive system - auxiliary engine		
Motor type	Mercedes Benz OM 936 LA	Mercedes Benz OM 936 LA
Number of cylinders	6	6
Exhaust emission	EuroMot IIIA (Downgrade EFP) EuroMot V	EuroMot IIIA (Downgrade EFP) EuroMot V
Performance	260 kW (354 HP) @ 1,800 1/min	260 kW (354 HP) @ 1,800 1/min
Torque	1,400 Nm	1,400 Nm
Fuel tank	600 l	600 l
Carrier vehicle		
Carrier vehicle type	MB Arocs 2036 AK	MB Arocs 2036 AK
Dimensions		
Sweeping width at 32°	3,560 mm	4,160 mm
Example dimensions		
Length including snow ploughin working position	12,843 mm MS 56.2 / 56.2 N	13,240 mm MS 56.2 / 56.2 N
Length without snow plough	9,850 mm	10,000 mm
Transport width including snow ploughin working position	4,780 mm MS 56.2 / 56.2 N	5,800 mm MS 56.2 / 56.2 N
Height (excl. rotary beacon)	3,860 mm	3,860 mm
Example Weights		
Total weight incl. vehicle	19,700 kg	19,950 kg

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