

SCHMIDT

Airport Technology

Jet Sweepers



- Highest modularity
- Easy adjustable to your needs
- Proven & world wide used technology

**Airport technology by Schmidt:
Because safety and efficiency belong together.**

The extremely demanding traffic area of an airport requires a multitude of circumspect and responsible specialists, who also always have the whole operation in their sights: Out of this awareness, Schmidt has now been developing innovative winter maintenance technology for over 95 years – an equally evolved and diverse knowledge, through which we can particularly guarantee our airport customers maximum safety and efficiency: in any weather condition, around the clock.

Shanghai, Moscow, Heathrow, Stockholm, Frankfurt... Schmidt's expertise in premium solutions is in demand worldwide.

As an innovative system provider for individual problem solutions, we particularly want to provide our customers with optimum solutions for each situation that are tailored to the relevant conditions and requirements – our range therefore encompasses a product variety and expertise that you can only expect from a global industry leader.

We manufacture highly versatile attachments and de-mountable devices, develop modular de-mountable systems and design and implement high-performance special-purpose vehicles. Additionally, we have extensive advisory and training expertise – offering you workshops, driver training and after-sales service in which safety and efficiency are also the top priority: Schmidt provides you with premium solutions for every conceivable detail.

Our innovative technology increases your efficiency. Our high quality standards ensure safety and reliability.

It goes without saying that we are committed to highest quality standards in manufacturing all components, with a particular focus on hard-wearing and therefore durable products. Environmental sustainability of materials and processes is also very important to us: Our efficient quality management preserves resources and reduces costs.

**Schmidt: Thoroughly reliable.
And a safe partner for each of your goals.**

Since 2007, Schmidt has been an integral part of the Aebi Schmidt Group – a merger of equal partners who share the aim and time-tested practice of pooling excellent expertise to create equally excellent products.

In the future, it will be increasingly important for all airports to consolidate the aspects of safety and efficiency: This is why you should connect with a corporate group that has a clear vision of the future and is already setting standards in many areas – place your trust in a partner that can bring any of your future challenges to a safe landing.

The innovative three-step principle combining clearing, sweeping and blowing operations in a single pass makes Schmidt jet sweepers a safe and highly efficient technology that is a must for any airport. The exceptionally high quality of our machines and components permits smooth, continuous operation at any time – such as during persistent snowfall.



The reduction of CO₂ emissions is becoming an increasingly important issue at today's airports.

The European airport association ACI Europe has launched a corresponding initiative entitled "Airport Carbon Accreditation," which accredits airports that have taken particularly effective and sustainable steps to contribute to the reduction of CO₂ emissions. The TOP 10 certified airports use Schmidt airport technology.

Alongside the EuroMot IIIA and IIIB emission standards, Schmidt now also offers EuroMot IV auxiliary engines. The new engine technology strongly reduces nitrogen oxide emissions and particulate emissions.



Towed Jet Sweepers - TJS and TJS-C

TJS and TJS-C by Schmidt:

Our efficient jet sweepers for residue-free high-performance snow removal!

The TJS and TJS-C are used for removing snow from runways, taxiways and aprons. The tremendous capacity of these jet sweepers particularly shines when it comes to restoring safe conditions on traffic surfaces as quickly as possible.

The **TJS** (Towed Jet Sweeper) variants are available as either semitrailers or trailers. The **TJS-C** comes as compact solution.

Equipped with the same sweeping and blower components, the TJS and TJS-C allow for clearing widths of 4,200, 5,600 and 6,300 mm (equivalent to the 420, 560 and 630 models). Despite their size, both machine types are characterised by outstanding manoeuvrability. Schmidt additionally offers hydraulic rear-axle steering with an automatic track reset system as an option for those seeking to maximise manoeuvrability.

The TJS – The ideal choice for owners of towing vehicles.

The TJS consists of an all-wheel-drive towing vehicle with a front-mounted snow plough and a supporting frame with an integrated coupling system – to connect to the towing vehicle. The rear end accommodates the auxiliary engine, which hydraulically powers both the rotary brush and the blower unit.

More or less any truck can be used as a towing vehicle: The corresponding adjustments for the semitrailer or trailer variant take very little time and require no technical skills. If you would like to attach a snow plough to your towing vehicle, Schmidt offers a choice of models designed specifically to match your jet sweeper.

The TJS-C – The way to go for those seeking an all-inclusive solution.

Apart from being equipped with a high-performance towing vehicle including a snow plough, the compact TJS-C features the identical sweeping and blower component options as the TJS. The innovative articulated steering makes the compact TJS-C particularly manoeuvrable.



Towed Jet Sweepers - TJS and TJS-C

TJS and TJS-C: Innovative rotary brush technology with high-performance blower unit meets maximum operational comfort!

In both variants, the hydraulically powered rotary brush is mounted to the supporting frame. The pendulum-type suspension ensures that the rotary brush touches the surface to be cleared in an ideal position independently of the vehicle's movement or ground unevenness, achieving consistently excellent clearing results on any surface.

The automatic and stepless sweeping pattern adjustment of the rotary brush is regulated by hydraulically controlled twin castor wheels. In transport position, the rotary brush is locked in longitudinal direction – and can be shifted to working position in less than one minute.

The brushes are available in three different diameters and in polypropylene, steel or mixed materials. During operation, the brush speed is speed related and automatically adjusts to the brush circumference. In combination with the wear-dependent brush speed control, it helps to reach an exceptional brush life.

The blower performance is optimised for large amounts of air. The air speed is almost constant over the entire working width (minimum pressure and capacity losses). The air is blown out directly on the ground to dry the swept surface or remove any remaining slush or moisture.

The rotary brush and the blower unit can be set to transport and working position synchronously or separately from the driver's cab at the push of a button.

Towed Jet Sweepers - TJS and TJS-C

Sweeping and blower unit drive

The hydraulic pumps, which operate and control the sweeping and high-performance blower unit, are driven by powerful MB drive engines with outputs ranging from 260 kW (354 HP) to 320 kW (435 HP) (starting equipment, silencer, throttle control, etc. included). The auxiliary engine can be selected to match local emission standards (EU, EPA, and others): EuroMot IIIA, IIIB or IV. The snow plough is operated by a hydraulic system powered by the vehicle's engine.

Sweeping unit

The rotary brush is powered hydrostatically by two hydraulic motors. A hydraulic cylinder enables swivelling to the left and right. The rotary brush is guided via a parallelogram lifting device and can be lifted and lowered hydraulically. The rotary brush has a pendulum-type suspension, enabling horizontal adjustment to the surface to be cleared and ensuring consistently excellent clearing results. The sweeping pattern is set via the height adjustment of the twin castor wheels.

Plough

The Tarron MS series includes special snow ploughs for high-speed snow clearance on airports. The snow ploughs are fitted with up to nine flexible blades. The plough position and the folding blade extensions are transmitted to the driver via visual or acoustic signals: as a result, operating errors are ruled out. In transport mode, the retractable outer blades permit a thoroughfare width of merely 5,400 mm (MS 80.1K).



One vehicle – A wide range of variants: The TJS from 420 to 630

Our modular system allows us to match the TJS to your specific requirements:

- Towing or carrier vehicle to your specifications
- Different brush materials
- Brush width (4,200mm – 6,300mm)
- Supporting frame variants: with or without parking position for brush
- Customised options
- Airport snow plough of the Tarron MS series, plough width (5,600mm – 8,000mm)

Towed Jet Sweepers - TJS and TJS-C

Operation

The TJS and TJS-C clear the surface in three steps: First, the snow plough pushes the bulk of snow out of the way. The rotary brush then performs precision clearing to remove any remaining snow and ice. Finally, the hydraulically operated blower unit generates an intensive air flow to blow away any last traces of snow and remaining moisture. With its high performance it helps to restore required surface friction values! The operation can be performed independently or in combination with other jet sweepers.



Your advantages with the TJS/TJS-C

- Great modularity: Schmidt configures a TJS /TJS-C tailored to your needs!
- Environmentally friendly and CO₂-neutral operation thanks to the alternative drive concept of the dual-fuel Volvo Dumper
- Outstanding brush life and blower performance
- Quick and reliable clearing operations at speeds of up to 60km/h
- Optimum clearing results
- High level of operational comfort
- Affordable jet sweepers
- Proven machine concept used throughout the world

Drive unit

The drive unit is located at the rear end and is covered by a plastic hood, which can be folded to the left or right for maintenance work. When the windows are closed, the noise level in the driver's cab is below 70 dB(A). All components are arranged very clearly and are easily accessible for maintenance and repairs.



Drive unit

- Easy maintenance from the ground:
The hood folds far to the right or left
- Easy-to-open hood:
Optional electrohydraulic tilt-back feature
- All maintenance areas easily accessible

Sweeping Unit - Rotary Brush TJS and TJS-C

Rotary brushes

As efficient as they are economical!

Schmidt jet sweepers are known for their highly effective precision clearing: The premium technology of the sweeping unit with the corresponding brush material sets clear industry standards – and offers you the safety of optimum clearing in any snow conditions.

The rotary brush consists of a one-piece, extruded, adjusted, cut and balanced aluminium core. Its sturdy design reaches an exceptionally long brush life as well as very smooth, vibration-free and steady sweeping operation. Hydraulic motors located at either side of the rotary brush achieve ideal weight distribution. Thus the

brush is worn evenly while offering a high degree of operational safety.

The rotary brushes are designed for maximum durability, which is why we keep the brush's core diameter as small as possible and the brush's outer diameter as large as possible: Therefore our brushes deliver perfect clearing results until they are completely worn off!



Optimum brush life:

Our experience has shown that the optimum brush life can be achieved with a 21-piece cassette brush type with maximum bristle length. This brush variant achieves the highest cost-effectiveness, which is based on the number of cassette rows in relation to brush costs – we are pleased to share this recommendation with you and will be happy to advice you in detail on the ideal product for your specific application.

Another benefit:

You can choose between polypropylene (poly), mixed (poly/steel) and steel brush materials to meet your specific needs.



Number of cassette row	16-, 18- or 21-piece	21-piece	30-piece
Ø Steel	914mm	1,014mm	1,170mm
Ø Poly	914mm	1,150mm	1,170mm
Ø Mixed	914mm	1,014mm	1,170mm

Sweeping Unit - Rotary Brush TJS and TJS-C

Sweeping unit

Consistently excellent clearing results thanks to dynamic surface adaptation!

The sweeping unit of the TJS/TJS-C is located between the towing vehicle and the blower. It provides many technical advantages that only Schmidt can offer.

Achieving the best clearing results requires that the rotary brush adapts to the respective surface as dynamically as possible. This is reached with our **pendulum-type suspension and parallelogram lifting device**. Combined with the twin castor wheels it automatically ensures ideal positioning on the respective surface to be cleared: The clearing result is therefore completely unaffected by the vehicle's movement or ground unevenness! A hydraulic cylinder enables swivelling to the left and right, with the rotary motion being executed by a slewing mechanism.

Schmidt's automatic **sweeping pattern adjustment** is another **patented** standard feature that leads to exceptional brush life and even wear and tear. The system works independently via

hydraulically controlled twin castor wheels and is pre-set by the driver on the control panel, enabling optimum adaptation to the specific operating conditions.

Twin castor wheels create very smooth, vibration-free and steady sweeping operations. Flat snow ejection and exceptionally thorough precision clearing additionally deliver maximum safety. This is achieved by an aerodynamic spoiler design (with front spoiler & rear brush cover), automatic spoiler adjustment and wear-dependent brush speed control. Thus, reaching Schmidt's specific precision-clearing results.

The rotary motion via the slewing mechanism permits very easy and precise swivelling. The sturdy design offers both maximum availability and safety.



Parallelogram lifting device



Sweeping unit

- Outstanding brush life and efficiency
- Quick and reliable clearing operations
- **Patented** features: Automatic sweeping pattern adjustment and automatic brush locking device
- Rotary brush tailored to your requirements
- Reduced running costs

Blower Unit - TJS and TJS-C



Blower unit

Achieves safe and dry airport runways with maximum performance!

The blower unit of the TJS/TJS-C is located directly behind the sweeping unit. **Due to aerodynamic blower nozzles, which directly guide the air to the ground there is hardly any loss of performance.** The blower unit performs precision clearing and dries the surface. The blower performance of TJS/TJS-C thus leads to optimum friction values.

The blower unit is powered hydraulically by the auxiliary engine via a variable displacement pump. The blower speed can be adjusted in two steps, permitting optimum utilisation of performance. Moreover, the aerodynamic air flow in the air duct leads to optimum blower performance over the entire clearing area. The clearing area is uniformly cleaned due to the constant air speed over the entire working width.



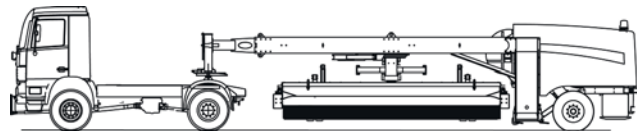
Vehicle Connection - TJS and TJS-C

Towing vehicles and vehicle connection

With three different coupling systems, Schmidt offers a jet sweeper that meets your individual requirements. Our modular system comprising a wide range of TJS versions, clearing widths and clearing capacities allows us to configure a customised jet sweeper for you!

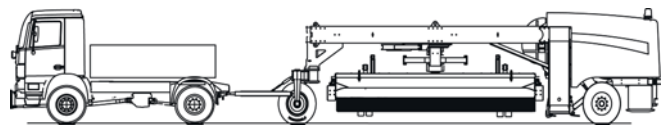
Semitrailer

Any conventional truck chassis, e.g. MAN, Mercedes-Benz or Volvo, can be used as a towing vehicle for the semitrailer version.



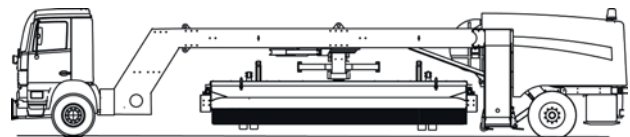
4-wheel-TJS with drawbar

Any conventional truck or tractor, preferably with all-wheel steering, can be used for the 4-wheel TJS with drawbar.



TJS-C with articulated steering

For the towing vehicle version, Schmidt offers a Volvo or a MAN with articulated steering, which makes the TJS-C compact and highly manoeuvrable.





Compact Jet Sweeper - CJS

Our highly manoeuvrable, high-performance vehicle for any area of application.

The Compact Jet Sweeper (CJS) is the optimum solution for efficient and quick snow removal on aprons, taxiways and runways. The compact dimensions of this jet sweeper permit a very small turning radius, whereas its robust design achieves reliable clearing of all surfaces. Ideally used in combination with a Schmidt Tarron MS snow plough, it is capable of coping with large amounts of snow.

The CJS comes with a front mounting plate for snow plough attachment, snow plough hydraulics and a plough lighting system fitted as standard. An additional sweeping and blower unit drive is also included as standard.

The vehicle is equipped with a 600-l diesel tank, which permits up to 10 hours of uninterrupted operation.

The CJS

First-rate equipment down to the last detail!

A 4x4 MAN or Mercedes-Benz can be chosen as chassis. For the necessary adjustment, the frame is lifted up to create space for the sweeping unit. The wheelbase is increased; the universal drive shaft for the rear axle runs along the vehicle frame.



Compact Jet Sweeper - CJS

A Mercedes-Benz auxiliary engine with outputs ranging from 260 kW (354 HP) to 265 kW (360 HP) serves to power the hydraulic pumps that operate and control the sweeping and blower units. The auxiliary engine of the CJS also meets local emission standards. Available engine variants include EuroMot IIIA, IIIB or IV.

The drive unit is covered by a sound-proof hood, which can be tilted back hydraulically for maintenance work. If the windows are closed, the noise level in the driver's cab is below 70 dB(A).

A hydraulic unit, which is integrated in the overall system and powered by the vehicle's engine, operates the snow plough. For optimum clearing results, we recommend that you use the Schmidt Tarron MS 56.1 airport snow plough.

Your advantages with the CJS

- Maximum manoeuvrability
- Quick and reliable clearing operations at speeds of up to 60km/h
- Effective sweeping operations and high blower performance
- **Patented** feature: sweeping pattern adjustment
- Optimum clearing results
- Robust and compact design
- Low operating and maintenance costs
- Standard truck chassis as carrier vehicle

Compact Jet Sweeper - CJS

Automatic sweeping pattern adjustment

The series CJS is equipped with an **automatic sweeping pattern adjustment**. It is adjusted via hydraulically controlled twin castor wheels. The system offers a **constant sweeping pattern** until the brush is completely worn out. The sweeping pattern can also be adjusted manually to particular operating conditions via the control panel. In combination with automatic sweeping pattern adjustment, the linear lifting unit helps to achieve ideal clearing operations and optimum brush life.

High-performance blower unit

The high-performance blower unit is powered hydraulically by the auxiliary engine via a variable displacement pump. By swivelling the pump, the blower unit can be switched on and off and adjusted in two steps. The air can be blown out in two different steps.

The blower unit is optimised for the application of large amounts of air. **The air speed is nearly constant over the entire working width.** The blower nozzle can be raised and lowered hydraulically.

Sweeping unit

The sweeping unit is fitted between the vehicle's front and rear axles. The rotary brush is powered hydrostatically by two hydraulic motors. A hydraulic cylinder enables swivelling to the left and right. The rotary brush is guided via a linear lifting unit and can be lifted and lowered hydraulically. The rotary brush of the CJS also has a pendulum-type suspension, enabling horizontal adjustment to the surface to be cleared and ensuring consistently excellent clearing results. The rotary brush of the CJS also has a pendulum-type suspension, achieving horizontal adjustment to the surface to be cleared and achieving consistently excellent clearing results. The sweeping pattern is set via the height adjustment of the twin castor wheels.



Rotary brush

The CJS is equipped with a 16-piece cassette system with steel, polypropylene or mixed brush material. An 18- or 21-piece cassette system can be selected alternatively. The **21-piece version** (with aluminium core) comes with the advantage that the denser brush material causes less air swirl. The higher amount of cassette rows and a faster rpm achieve a better **sweeping performance**. Thus **increasing the brush lifetime**.

Plough

Our special snow ploughs permit quick and residue-free operation. Our special snow ploughs permit **quick and residue-free operation**. Obstacles such as edges of floor plates or other surface irregularities are easy to handle with the innovative deviation system. Every blade is reinforced with two springs, which always keeps them in an optimum position. As a result of low mass acceleration, neither the snow plough nor the obstacle is damaged.



Carrier vehicles

As standard, the Compact Jet Sweeper can be mounted on two different carrier vehicles.

Mercedes-Benz*	MAN*
Chassis type Actros 2032	Chassis type TGS 18.360
Turning circle: approx. 15.5 m (with option "rear-axle steering")	Turning circle: approx. 17.6 m (with option "rear-axle steering")
Engine output 235 kW (320 HP)	Engine output 265kW (360 HP)
Telligent automatic transmission II	TipMatic automatic transmission

* The basic equipment and the emission standard (EURO 3 to 6) of the carrier vehicle engines are to be selected for the specific customer/country.

Handling of Jet Sweepers - Ergonomics

Stay on top of any situation!

Both easy and intuitive handling of our jet sweepers also provide a substantial contribution to safety, efficiency and economy. This includes a PLC control system, which offers plenty of practical advantages during operation. Fitted as standard, numerous functions are available that help responding appropriately to any conceivable challenge.

Both impulse and synchronous control can be selected for the snow plough, sweeping unit and blower unit, i.e. **all components can be controlled either separately or synchronously**: This allows making many clearing operations particularly efficient (synchronous control) while also enabling you to respond to special situations using impulse control (e.g. re-adjustment of snow plough).

All functions of the PLC control system are available on a **logically arranged control panel** in the driver's cab. The control system is supported by a **CAN bus system** with high-speed data transmission to ensure a quick error diagnosis.

Ergonomic design – Efficient clearing operations: The groundbreaking control panel.

At standstill, the display shows the number of operating hours; when the engine is running, it delivers information about engine and brush speed as well as blower performance. Furthermore, the display provides a comprehensive overview of potential failure or error messages: The driver can check the following parameters at any time: engine oil pressure, hydraulic oil level, cooling water level and temperature, air filter, generator, etc. In the event of failure, an acoustic or visual signal is released. In case of a dangerous situation, all functions can be stopped immediately via an emergency stop button. **The control panel in the driver's cab features intuitive handling via language-neutral, coloured pictograms.**



Control cabinet

Quick access to all areas from process planning to safety settings.

The engine compartment of the TJS/TJS-C and CJS features a control cabinet, which accommodates a CAN bus master as well as plug-in connectors and an interface for reading out error messages of the guidance computer. For the purpose of servicing, the error messages can be read out by the service staff either using a laptop or manually directly from the guidance computer. The optional data logger records fuel consumption, brush operating hours, etc. The control cabinet has a simple and straightforward design so as to enable quick error diagnoses.

For servicing and maintenance, the control panel can be connected to the control cabinet in the rear to set the brush or replace the bristles directly. This is particularly suitable for training purposes. It is easily possible to demonstrate how the control panel works to all participants.

Safety equipment

When the reverse gear is engaged, the automatic reversing safety mechanism raises the plough, the brush and the blower unit. If required, all functions can be switched off via the central emergency stop buttons.

Schmidt tailors the jet sweepers to your needs!

Your advantages with our control system

- All functions can be actuated via the control panel in the driver's cab
- Relevant vehicle information is shown on the colour display
- Graphic symbols for quick overview and intuitive handling
- Can be used easily for training and servicing
- Components in the control cabinet are easily accessible
- Control panel can be flexibly adapted to customer requirements

Rear-view monitoring (option)

A camera, which is mounted on the rear of the TJS/TJS-C or CJS, is automatically switched on as soon as the reverse gear is engaged. The image is shown on the display of the control panel.

Electrohydraulic system for engine hood opening (option)

For servicing and maintenance, the brush and the blower nozzle of the TJS/TJS-C can be moved and the engine hood opened using the electrohydraulic system – perfect for assembly and servicing.

Maximum ease of maintenance and servicing

- The control panel can be directly connected to the electric switch box for training and servicing
- Central installation of electric & electronic equipment in a protected housing to achieve smooth maintenance and servicing.



Jet Sweepers - Snow Ploughs

Safe and efficient snow removal:

We have the right solution for any situation.

Our product solutions in the field of snow clearing are both versatile and innovative. Schmidt offers solutions to reduce clearing times in any snow condition while meeting local environmental regulations, as can be expected from airports operating in compliance with current standards.

To ensure quick and optimum snow removal, you need the appropriate vehicle to be able to respond flexibly to the respective weather conditions and the often rapidly changing conditions of traffic areas: Schmidt offers a great number of machines and components that employ advanced technology and are capable of coping with any conceivable snow situation.

The Tarron MS series

Flexible adaptation to any surface, sturdy design and residue-free operation.

The Tarron MS series is specifically designed for use on airports. The ploughs are equipped with special Vulkollan cutting edges with 45° blade angle for optimum snow removal. In addition, the multi-blade ploughs (800 mm per blade) operate particularly thoroughly without leaving any residues behind, helping to substantially reduce the required amount of de-icing material.

Optionally available folding ploughs or quick-changing devices reduce the passage width, permitting outstanding manoeuvrability. **The precise parallel lifting device offers a high level of safety while lifting, lowering and swivelling the plough.**

With the Tarron MS series, Schmidt offers various multi-blade airport snow plough models, which are optionally available with precision blades: standard version (optionally available with quick-changing device or hydraulic locking device), folding version as well as a low plough blade design (blade is 220 mm lower on the left, right, and in the centre) – optionally available with ejection barrier.



Ideal for small amounts of snow

For small amounts of wet or slushy snow, we recommend our SNK 55.1 single-blade lightweight snow ploughs. The plough permits driving speeds of up to 60 km/h. The attachment is identical to that fitted in our Tarron series. The SNK series is also equipped with a deviation system (spring flaps) to counterbalance ground unevenness and ensure thorough clearing in all areas.

Secondary cutting edge

Whenever and wherever possible, the application of de-icing material should be further reduced or even completely avoided!

The (optionally available) hydraulically actuated secondary cutting edge of Schmidt meets this requirement in a highly efficient manner. Residual snow is reliably removed using the both innovative and convenient secondary cutting edge. This secondary cutting edge eliminates even the smallest residues of snow, demonstrating maximum durability and first-class material quality: Its sturdy design makes it particularly suitable for long operations on airports.

Ejection barrier

A small detail with great effect

All snow ploughs with a low blade and without foldable blades, ranging from Tarron MS 56.1 to Tarron MS 72.1 can be optionally fitted with an ejection barrier. This has proven effective especially in highly sensitive areas such as airport aprons: The **ejection barrier** prevents lateral snow deposition while allowing for **residue-free snow removal**.

Quick-change device

Quick-change device for all Tarron MS airport ploughs (depending on the plough configuration).

This option allows the lifting and swivelling device to remain fitted on the vehicle while plough frame and blades can be decoupled quickly and easily via a hydraulic quick-change device. This high degree of flexibility ensures that the vehicle can pass through narrow halls, if the snow plough is detached. Another advantage is easy parking outside of garages, which enables the plough to acquire outdoor temperature before the beginning of the clearing operation. This considerably improves the snow's roll-off properties on the blade.



Technical Specifications

Overview of TJS technical specifications

Sweeping & blower unit drive

	TJS 420	TJS 560	TJS 630
Auxiliary engine	EuroMot IIIA & IIIB: MB: Typ OM 501 LA EuroMot IV: MB: Typ OM 936 LA	EuroMot IIIA & IIIB: MB: type OM 501 LA EuroMot IV: MB: type OM 470 LA	
Output	260 kW (354 HP) at 1,800 rpm (EM IIIA) 265 kW (360 HP) at 1,800 rpm (EM IIIB) 260 kW (354 HP) at 1,800 rpm (EM IV)	315 kW (428 HP) at 1,800 rpm (EM IIIA / IIIB) 320 kW (435 HP) at 1,800 rpm (EM IV)	
Fuel tank	600l (8 - 10 hours of uninterrupted operation)		
Sweeping unit			
Brush length in mm	4,200	5,600	6,300
Brush material	Poly/ steel/ mixed		
Number of cassette rows & Ø in mm	16- to 30-piece and Ø 914 – 1,170	16- to 30-piece and Ø 914 – 1,170	16- to 30-piece and Ø 914 – 1,170
Blower unit			
Operating speed	Up to 60km/h, depending on the operating conditions		

Weights (in kg; example for semitrailer)

	TJS 420	TJS 560	TJS 630
Total weight with full tank, approx.	11,500	11,900	12,800
Axle load in transport position, approx.	8,500	8,500	8,800
Load on king pin, approx.	3,500	3,700	4,000
Dimensions (in mm), approx.			
Length (semitrailer), approx.	10,330	11,730	12,430
Length from king pin to axle centre, approx.	8,160	9,560	10,260
Transport width in parking position, approx.	2,550	2,550	2,550
Height (without warning beacon)	2,780	2,780	2,780
Sweeping width at 32°, approx.	3,560	4,750	5,340

Note: Weights and dimensions depend on the carrier vehicle and are only approximate values!

TJS and TJS-C options

- Additional hydraulic rear-axle steering for outstanding manoeuvrability
- Parking position for sweeping unit
- Tilt-back engine hood and tilt-up exhaust pipe
- Electrohydraulic system for engine hood opening (with manual pump)
- Traction weights for towing vehicle
- Additional blower unit in front of rotary brush

Overview of CJS technical specifications

Sweeping & blower unit drive

Auxiliary engine	EuroMot IIIA & IIIB: MB: type OM 501 LA EuroMot IV: MB: type OM 936 LA
Output	260 kW (354 HP) at 1,800 rpm (EM IIIA) 265 kW (360 HP) at 1,800 rpm (EM IIIB) 260 kW (354 HP) at 1,800 rpm (EM IV)
Fuel tank	600l (8 - 10 hours of uninterrupted operation)

Sweeping unit

Brush length	4,200mm
Brush material	Poly/ steel/ mixed
Number of cassette rows & Ø in mm	16-, 18- or 21-piece and Ø 914

Blower unit

Operating speed	Up to 60 km/h, depending on the operating conditions
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Weights (in kg)	MB 2032	MANTGS 18.360
Total weight with vehicle, approx.	18,300	18,200
Total weight of rotary brush, approx.	2,400	2,400
Total weight of blast nozzle, approx.	150	150
Dimensions (in mm)		
Length with MS 56 snow plough in working position, approx.	12,200	12,300
Length without snow plough, approx.	9,295	9,395
Transport width with MS 56 snow plough in working position, approx.	4,750	4,750
Height (without warning beacon), approx.	3,760	3,900
Sweeping width at 32°, approx.	3,560	3,560

Note: Weights and dimensions depend on the carrier vehicle and are only approximate values!

TJS, TJS-C and CJS options

- Wear-dependent brush speed control
- Extension cable for connecting control panel to the control cabinet
- Cold package
- "NATO" external starting socket (24V)
- Battery charger (220V)
- Automatic central lubrication system with or without lubricant level indicator
- Rear-view camera
- Lettering and paint: special colour (standard: engine hood & truck: RAL 2011, sweeping unit, blast nozzle & frame: RAL 7021), airport logo
- Elaskon sealing

CJS options

- Electrohydraulic system for engine hood opening
- Electrically heated windows
- Alternative tyres and wheels

Technical Specifications

Matrix for using Tarron MS and SNK ploughs

	MS 56.1	MS 56.1N	MS 56.1NA	MS 64.1	MS 64.1N	MS 64.1NA	MS 72.1	MS 72.1N	MS 72.1-K	MS 72.1N-K	MS 80.1	MS 80.1-K	SNK 55.1
CJS	X	X	X										X
TJS / TJS-C 420	X	X	X	X	X	X							X
TJS / TJS-C 560				X	X	X	X	X	X	X	X	X	
TJS / TJS-C 630							X	X	X	X	X	X	

Tarron-MS	MS 56.1	MS 56.1N	MS 56.1NA	MS 64.1	MS 64.1N	MS 64.1 NA
Plough height left and right, with elastomer (mm)	1,550	1,330	1,175*	1,550	1,330	1,175*
Plough height centre, with elastomer (mm)	1,420	1,200	1,065	1,420	1,200	1,065
Cutting edge length (mm)	5,600	5,600	5,734*	6,400	6,400	6,555*
Clearing width at 32° (mm)	4,750	4,750	2,006	5,430	5,430	2,354
Weight with PUR cutting edge, approx. (kg)	1,840	1,750		1,980	1,880	
Weight including secondary cutting edge			2,235			2,410

* with barriers down

Tarron-MS	MS 72.1	MS 72.1N	MS 72.1-K	MS 72.1N-K	MS 80.1	MS 80.1-K
Plough height left and right, with elastomer (mm)	1,550	1,330	1,550	1,330	1,590	1,590
Plough height centre, with elastomer (mm)	1,420	1,200	1,420	1,200	1,460	1,460
Cutting edge length (mm)	7,200	7,200	7,200	7,200	8,000	8,000
Clearing width at 32° (mm)	6,100	6,100	6,100	6,100	6,780	6,780
Weight with PUR cutting edge, approx. (kg)	2,150	2,030	2,400	2,280	2,550	2,650

	SNK 55.1
Cutting edge length (mm)	5,515
Clearing width at 35° (mm)	4,535
Thoroughfare width at 35° (mm)	4,955
Clearing width at 45° (mm)	3,920
Thoroughfare width at 45° (mm)	4,374
Plough height centre (mm)	1,175
Plough height left and right (mm)	1,118
Distance between centre of gravity and mounting level (mm)	1,256

Subject to technical change

Service at ASH Aebi Schmidt:

As comprehensive and as much as you like!

True service is not just a promise, but something that has to prove its worth in practice – especially in your individual practical applications. At Aebi Schmidt, you are therefore free to choose whether you would like to make use of our general services or wish to benefit from our “TLC” service programme.

Our one-of-a-kind “Total Lifetime Care” (TLC) service programme, which enables us to precisely adapt our services to your individual challenges, constitutes an important pillar. With “Total Lifetime Care,” you have an extensive spare parts warranty as well as guaranteed, reliable procurement at your disposal. Schmidt has a global, highly efficient spare parts management system and always has more than 96,000 spare parts in stock – benefit from our emergency service, individual service agreements, professional employee trainings and many more: We will be happy to assist you – any time!



Service at Schmidt also means:

Individual, competent solutions from problem analysis to product design.

Schmidt is not only a supplier of powerful machines but also a forward-looking source of ideas and your innovative partner. The intensive cooperation with our customers is the key prerequisite for providing efficient solutions to help you with individual problems and optimise your winter service operations.

Our service portfolio comprises the wide-ranging technical potentials of our machines, your logistics operations regarding snow clearing and effective de-icing as well as the development of an efficient clearing concept – in terms of economy, safety and ecology. Rely on our worldwide experience and benefit from our keen sense of future developments and new fields of activity.

Schmidt stands for first-rate, competent service – throughout the world.

Our international distribution and service network is certified and guarantees constant and reliable service worldwide. Our employees and our worldwide dealers on site are at your disposal to answer any questions – we look forward to receiving your request!



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