



A company of the Aebi Schmidt Group

Airport Technology

Product Range



INTRODUCTION

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, also always have the whole operation in their sights: Out of this awareness Schmidt has now been developing innovative winter maintenance technology for over 90 years - an equally evolved and diverse knowledge, through which we can particularly guarantee our airport customers maximum safety and efficiency: in any weather conditions, around the clock.

Shanghai, Moscow, Dubai, Stockholm, Frankfurt... The premium solution competence of Schmidt is in demand worldwide.

As an innovative system provider for individual problem solutions we particularly want to provide our customers with the optimum solutions for each situation that are tailor made for the relevant conditions and requirements - our range therefore encompasses a product range and competence that you can only expect from a worldwide leading company.

Therefore we produce machines that can be used extremely flexibly, develop modularly exchangeable demountable systems, design and realise high performance special vehicles. In addition we have training competences and offer you an after sale service from our workshop to driver training, in which the topics of safety and efficiency also have first priority: Schmidt offers you premium solutions for every possible detail.

Our innovative technology keeps you efficient. Our high quality standard makes you calm.

It is a given that we are committed to the highest quality standards in the manufacture of all components. Hereby the focus is particularly on the most hardwearing and long lasting products. The environmental compatibility of materials and processes is also an important

issue for us: our efficient quality management conserves resources and lowers costs.

Of course we ensure that we only use parts and materials from suppliers that unreservedly share our high standards.

Schmidt: reliable from the ground up. And the safe partner for all of your aims.

Since 2007 Schmidt has been a fixed component of the Aebi Schmidt Group - a consolidation of equal partner companies, whose aim and established practice is to combine first class competences for the realisation of equally first class products.

In the future it will increasingly come down to combining the topics of safety and efficiency inseparably in all airports: therefore you should connect with a group of companies having a clear view into the future and already making the standards in many areas even today.

The cold season has many challenges.

We have all the solutions for your safe winter business.

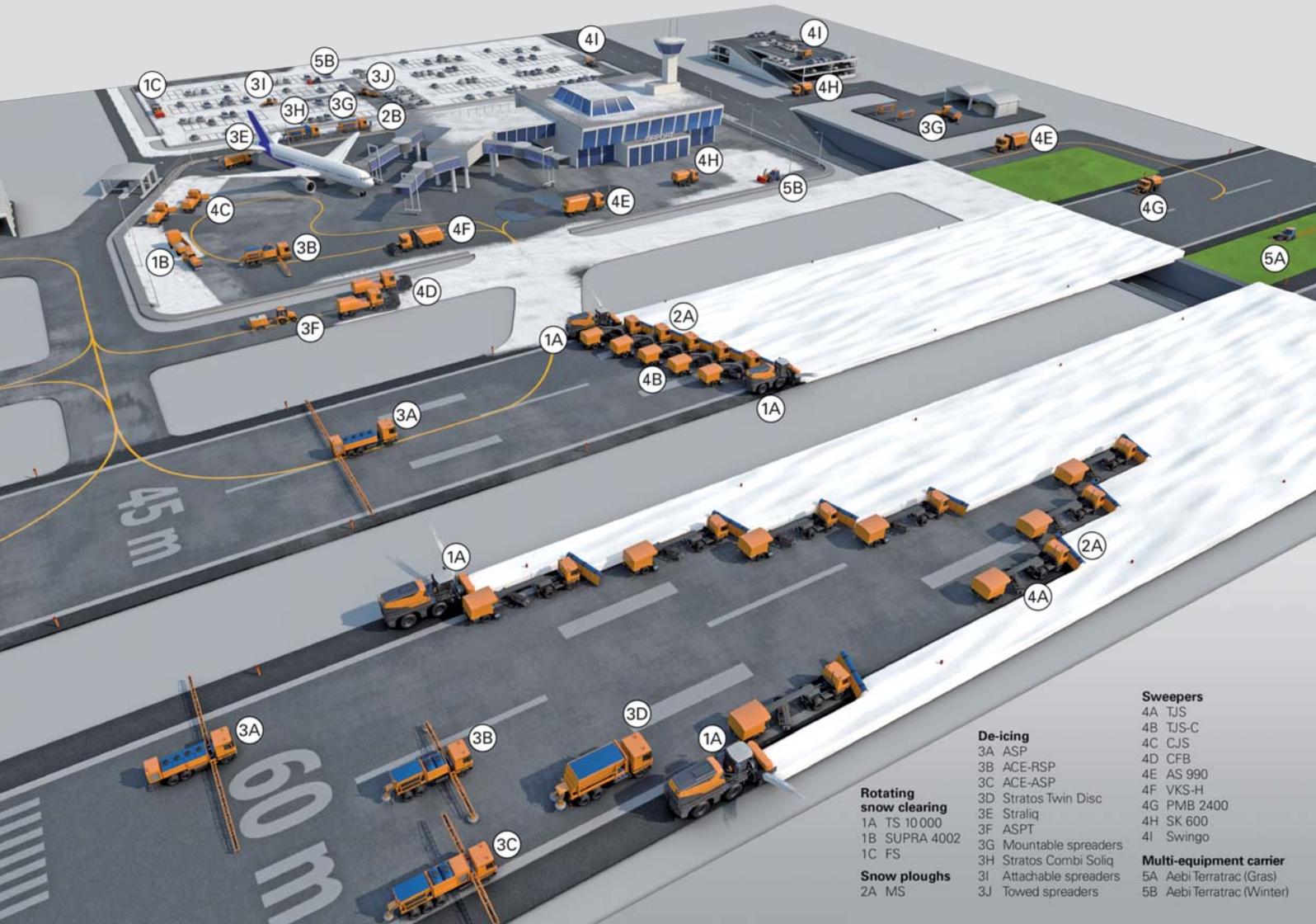
No question: airports must continually optimise their efficiency - above all, if they want to be up to the rapidly growing number of flights in the future. Winter is a particular challenge for every airport: on the air side to guarantee the best possible utilisation of take off and landing runways, on the land-side, to ensure safety of the passengers that enables flawless handling in every situation.

Efficiency and reliability in winter maintenance technology:

With Schmidt you get a solution for every situation.

Our solutions are as established as they are diverse and innovative. The aim of our developments is to be a highly efficient component within your whole airport operation. For this the machines must on the one hand respond flexibly to any weather conditions. On the other hand however the dialogue between people and machines must be as simple as possible - the realisation of individual wishes is our day to day business.

Whether high performance snow blowers, snow ploughs with various clearing widths, spraying vehicles for de-icing, special airport sweepers for the highest safety requirements or attachments such as the magnet bar for the targeted picking up of metals: with machines from Schmidt the whole winter maintenance fleet of your airport is optimally prepared - for all eventualities, around the clock.



- | | | |
|-------------------------------|-------------------------|--------------------------------|
| Rotating snow clearing | De-icing | Sweepers |
| 1A TS 10 000 | 3A ASP | 4A TJS |
| 1B SUPRA 4002 | 3B ACE-RSP | 4B TJS-C |
| 1C FS | 3C ACE-ASP | 4C CJS |
| | 3D Stratos Twin Disc | 4D CFB |
| | 3E Straliq | 4E AS 990 |
| | 3F ASPT | 4F VKS-H |
| | 3G Mountable spreaders | 4G PMB 2400 |
| | 3H Stratos Combi Soliq | 4H SK 600 |
| Snow ploughs | 3I Attachable spreaders | 4I Swingo |
| 2A MS | 3J Towed spreaders | |
| | | Multi-equipment carrier |
| | | 5A Aebi Terratrac (Gras) |
| | | 5B Aebi Terratrac (Winter) |

SNOW CLEARING

Safe and efficient snow clearing:

We have the solutions for all eventualities.

Our product solutions in the area of snow clearing are as diverse as they are innovative and respond to the crucial questions concerning clearing time, snow condition or environmental regulations as confidently as can be expected from an airport working according to relevant standards.

These requirements will incidentally in future also apply to airports that have until now been snow free: because even today the worldwide climate change is becoming noticeable in regions where earlier people did not even know what snow looked like. The airports in these regions are now also being confronted with a new weather reality that demands new and reliable answers.

The good news before the snow reaches you:

Machines from Schmidt are often unrivalled.

For the fastest possible and optimally thorough snow clearance you must be able to react flexibly to the relevant weather conditions with the suitable equipment and the often very rapidly changing state of the transport surfaces: Schmidt offers you numerous machines and components which as mature technology master every possible snow situation.

Snow is nice to look at. Above all when it has been cleared out of the runway.

On the following pages you can get a comprehensive picture of our extremely high performance and environmentally compatible special vehicles, the variable collapsible high-speed ploughs - naturally including maximum clearing width - or our cutters and blowers developed for loading, which can cope with up to 8 tonnes of snow per hour: to name just a few advantages which reliably make your snow turning into "water under the bridge" before the next onset of winter.



SNOW PLOUGHS

**Simply shove the problems to one side:
More flexibly, quickly and thoroughly with
our snow ploughs.**

**Tarron MS: Reacts flexibly to every surface,
is robust and works residue free**

With this multi blade special plough you can work quickly and residue free. Obstacles - e.g. edges of base plates or other surface irregularities - can easily be overcome with the innovative deviation system. Every blade is strengthened with two springs, whereby this is always kept in the optimum position. In the case of low mass acceleration neither the snow plough nor the obstacle will be damaged.

A small idea with a large effect:

The new casting barrier from Schmidt.

As an option for many of our snow ploughs, with the casting barrier we offer you a novelty that proves itself primarily in sensitive zones, e.g. ramps. The new application prevents sideways depositing of the snow and thereby at the same time enables clearing that is absolutely residue free. The casting barrier has two segments, which can be individually controlled by the driver. Driving over obstacles is just as possible as space saving transport with collapsed segments. The option of locking the casting barrier is a given.

**MS 72.1K/MS 80.1K: Fully automatic -
and therefore flawless for even faster
clearing results.**

This range contains special snow ploughs for high speed clearing. The machines are fitted with up to nine flexible and outwardly collapsible blades, which are also automatically monitored: Misuse is therefore ruled out. In the transport mode a width of just 4 860 mm (MS 80.1K) is achieved due to the collapsible outer blade. The MS range ensures high clearing quality and is your most flexible and robust partner: the best prerequisites for regulated flight operation.

	MS 48.1	MS 56.1	MS 64.1	MS 72.1	MS 72.1 K	MS 80.1	MS 80.1 K
Plough height left and right	1 550 mm	1 590 mm	1 590 mm				
Plough height middle	1 420 mm	1 460 mm	1 460 mm				
Cutting blade length	4 800 mm	5 600 mm	6 400 mm	7 200 mm	7 200 mm	8 000 mm	8 000 mm
Clearing width at 32°	4 070 mm	4 750 mm	5 430 mm	6 100 mm	6 100 mm	6 780 mm	6 780 mm
Weight	1 660 kg	1 840 kg	1 980 kg	2 150 kg	2 400 kg	2 550 kg	2 650 kg





SNOW CUTTER BLOWERS

Do you have to throw lots of snow every day? With our innovative snow cutters this is a doddle.

TS 10 000 - 5: The powerful high speed clearer.

Even our standard high speed clearer offers values that are simply impressive: with the TS 10 000 - 5 you can throw up to 6,000 tonnes of snow max. 60 m out of the danger zone per hour - and at a speed of up to 50km/h! A robust machine that always gives you exactly what is indispensable for you: efficiency.

TS 10 000 - 7: Even more clearing performance - even more efficiency!

The self driving high performance snow clearing machine offers a lot of class and creates even more mass: Depending on the snow consistency, the TS 10 000 - 7 clears up to 8,000 t/h - even here at a speed of 50 km/h. The snow is blown away up to 60 m, so that you can keep the white problem at the maximum distance. For the summer the clearing head and power pack can be dismantled, which is why the TS 10 000 can also be used as a traction engine or high performance equipment carrier.

Supra 4002: Overall hardworking and flexible to use.

The snow cutter blower Supra 4002 is fitted with articulated frame steering and high performance clearing head. The machine is conceived for the reliable, conventional snow clearing of take off and landing runways, taxiways and ramps. Even loading snow onto a lorry is not a problem with the raised cabin. The clearing performance is up to 3,500 t/h.

	Supra 4002	Supra 5002
Clearing width selectable	2 400 or 2.600 mm	2 400 / 2 600 / 2 800 mm
Clearing head height	1 525 mm	1 525 mm
Cutter drum diameter	1 100 mm	1 100 mm
Blower wheel diameter	1 150 mm	1 150 mm
Clearing capacity	3 500 t/h	5 000 t/h
Drive performance	320 kW at 1 800 rpm	420 kW at 1 800 rpm

Supra 5002: Even more clearing performance, even more efficiency.

With a clearing width up to 2,800 mm the snow cutter blower Supra 5002 clears up to 5,000 t snow per hour. Again with this range the snow is either thrown far in an arbitrary direction or targetedly loaded. For the optimum view if necessary the cabin can also be raised.

	TS 10 000 - 5	TS 10 000 - 7
Clearing width max.	3,4 m	3,9 m
Clearing height max.	1,6 m	2,3 m
Blower wheel diameter	1,7 m	2,2 m
Clearing performance up to	6000 t/h	8000 t/h
Throwing distance	60 m	60 m
Auxiliary engine	Caterpillar CT18	Caterpillar CT18
Drive performance		
clearing head total	571kW / 777 HP	571kW / 777 HP
Blower wheel (auxiliary motor)	571 kW / 777 HP	571 kW / 777 HP
Feeding augers (vehicle PTO shaft)	110 kW / 150 HP	110 kW / 150 HP

Vehicle type Xerion Saddle Trac 3800



SNOW CLEARING

JET SWEEPERS

Jet sweepers: In three processing steps from snow directly to black-cleared runway.

Jet sweepers very efficiently combine three processing steps: in the first clearing use the snow plough throws the snow to the side, whereby in the second step the rotary brush cleans the snow and slush from the area. In the third and last step the hydraulically driven blower unit produces an intensive air stream that stretches over the whole sweeping path: the runway is now black-cleared and therefore maximally safe. The blower unit can be implemented in the clearing process in two places optionally: Either by the rear blowing nozzles or - to achieve acceleration of the snow - in front of the rotary brush.

New and exclusive to Schmidt: The green, environmentally friendly engine technology of the TJS series!

Environmental issues are a growing challenge, especially to airports: This is why Schmidt is increasingly employing innovative engine designs that help reduce the carbon footprint.

An outstanding example for this effort is the use of eco-friendly engines in the TJS series, which is unique in this segment. Since the required power of these vehicles entails relatively high fuel consumption, this series will from now on feature carbon-neutral Volvo D13 6-inline engines that run on a mixture of natural gas and bio diesel: Owing to this dual-fuel system, they can contribute significantly to the environmental performance of your airport. We will be happy to provide further information.

Range TJS: Offers flexibility that adapts to all conditions.

The machines in the TJS range (Towed Jet Sweeper) consist of snow plough, sweeping unit and blower unit. Their functions can be controlled individually or simultaneously for optimal snow clearing. The TJS 420 achieves a clearing width of 3,560mm; the TJS 560 achieves 4,750 mm and the TJS 630 a whole 5,340 mm - each with a sweeping angle of 32°.

The TJS-C: Fixed power head, large sweeping width.

The compact TJS-C range is presented similarly to the TJS range - only with fixed power head: The multi blade special snow plough clears the snow to the side, the rotary brush sweeps the residual snow which is then blown to the side by the blower unit. The clearing widths are again 3,560 to 5,340 mm.

We comply with the local exhaust emission standards EuroMot 3A, 3B or 4.



SNOW CLEARING

	TJS 420	TJS 560	TJS 630
Engine	EuroMot 3A, 3B, 4	EuroMot 3A, 3B, 4	EuroMot 3A, 3B, 4
Output	260 KW at 2 000 rpm	315 KW at 2 000 rpm	315 KW at 2 000 rpm
Brush length	4 200 mm	5 600 mm	6 300 mm
Sweeping angle/width	32° / 3 560 mm 36° / 3 400 mm	32° / 4 750 mm 36° / 4 530 mm	32° / 5 340 mm 36° / 5 100 mm
Air volume flow	32,000 m ³ /h	38,000 m ³ /h	38,000 m ³ /h
Speed	125 m/s	122 m/s	122 m/s
Air flow	emission left and right	emission left and right	emission left and right
Area performance	213,600 m ² /h	285,000 m ² /h	320,400 m ² /h

	TJS-C 420	TJS-C 560	TJS-C 630
Engine	EuroMot 3A, 3B, 4	EuroMot 3A, 3B, 4	EuroMot 3A, 3B, 4
Output	260 KW at 2 000 rpm	315 KW at 2 000 rpm	315 KW at 2 000 rpm
Brush length	4 200 mm	5 600 mm	6 300 mm
Sweeping angle/width	32° / 3 560 mm 36° / 3 400 mm	32° / 4 750 mm 36° / 4 530 mm	32° / 5 340 mm 36° / 5 100 mm
Air volume flow	32,000 m ³ /h	38,000 m ³ /h	38,000 m ³ /h
Speed	125 m/s	122 m/s	122 m/s
Air flow	emission left and right	emission left and right	emission left and right
Area performance	213,600 m ² /h	285,000 m ² /h	320,400 m ² /h

SNOW CLEARING

COMPACT JET SWEEPERS

The manoeuvrable CJS: Manoeuvrable on big airports.

The CJS is a compact jet sweeper with front mounted MS snow plough, a sweeping unit and a blower unit. It is used for snow clearing on take off and landing runways, taxiways, aircraft stands, and ramps. The clearing width is up to 3,560 mm at a sweeping angle of 32°. All standard and specially designed truck models of the manufacturers MAN and Mercedes can be used.

	CJS
Engine	EuroMot 3A, 3B, 4
Output	260 kW at 2 000 rpm
Rotary brush length	4 200 mm
Sweeping angle/width	32° / 3 560 mm
Air volume flow	32,000 m ³ /h
Speed	up to 125 m/s
Air flow direction	left or right
Area performance	213,600 m ² /h

The compact CFB: Optimum for light snow and slush.

Our CFB is particularly suited to snow clearing in the case of light snow and slush on take off and landing runways, taxiways and ramps. Due to its compact construction with front mounted rotary brush this jet sweeper is particularly manoeuvrable and clears reliably to a clearing width of up to 4,500 mm.

	CFB
Engine	EuroMot 3A, 3B, 4
Output	260 kW at 2 000 rpm
Rotary brush length	5 485 mm
Sweeping angle/width	36° / 4 500 mm
Air volume	530 m ³ /min
Speed	up to 125 m/s
Air flow direction	left or right



Don't let you trip up: Preventative and curative solutions from Schmidt!

Ice formation is a particular challenge for every airport. With regards to safety, preventative ice control is of central importance. But of course the anticipatory prevention of ice is also to be seen from an economic point of view: Once a surface is covered in ice, additional costs are unavoidable.

If however the ice formation progresses unexpectedly and faster than any precautionary measures, then you must be able to rely on equipment with which you can react efficiently and quickly to any ice situation: therefore we offer you solutions that will impress you, even for curative use.

Warm up to first class solutions: Schmidt has thought ahead for you.

Many of our gritting and spraying devices can be used both preventively and curatively, but others are conceived for special operations - the philosophy of your specialists will decide which solution is to be recommended.

For preventative ice control we offer you diverse solutions, that can even be used at plus temperatures: An established and very reliable spraying technology ensures that the freezing point can not be achieved. For curative use there are innovations available for the efficient production of particularly fast thawing gritting material, e.g. acetate, formiate, glycol. Deadening thawing agents such as sand or quartz sand can also be used.

So no matter what the weather, the friction value or the individual composition of the runway surface: with solutions from Schmidt you will be prepared for every emergency.

Wheather situation	Road surface	Type of application	De-icing/Gritting material	Dosage (g/m ²)*
Dry frost	Dry	Anti-icing	Liquid	15 g/m ²
Frost	Dew		Liquid	25 g/m ²
Wet frost	Moist	De-icing	Pre-wetted	35 g/m ²
Ice forecast	Moist		Pre-wetted	35 g/m ²
Light snow fall	Wet		Dry media	15 - 40 g/m ²
Heavy snow fall	Snow	Sand/grit	Sand/grit	20 - 40 g/m ²
Ice/Ice rain	Snow		Sand/grit	100 - 150 g/m ²

* Indication, depending on weather and local circumstances

Sprayers from Schmidt: Your decision for liquid de-icing in the whole airport area.

The ASP: Maximum spraying width for preventative and curative use.

The Schmidt Airport Sprayer ASP is designed to apply liquid de-icing agents primarily on take off and landing runways. The ASP de-ices both preventively and curatively with a road speed related work speed up to 45 km/h. With the ASP, maximum spraying widths of 3 to 45 m are achieved - of course with minimal turbulence. The high performance ASP is available either as a fix mounted or de-mountable machine for HGV.

	ASP
	Customised tank capacity
Spraying width	until 40 m
Operating speed	45 km/h road speed related
Dosage	up to 50 g/m ²
Spraying	spray nozzles and projection nozzles
Drive	vehicle hydraulics or diesel engine
Mounting system	fix-mounted or de-mountable system

The WSP: The multi-purpose sprayer for airports with long throw nozzle technology.

The WSP also fights ice both preventively and curatively. Its working width is 8 m, which can be extended to 24 m by folding out the spraying arms with long throw nozzles. The compact class is highly manoeuvrable, is capable of spraying over the entire vehicle width and features additional long throw nozzles for various spraying widths.

	WSP
	Customised tank capacity
Spraying width	8 / 24 m
Operating speed	up to 30 km/h road speed related
Dosage	5 - 50 g/m ²
Spraying	spray nozzles and projection nozzles
Drive	Rotopower or vehicle hydraulics
Mounting system	fix-mounted or de-mountable system

You want to achieve best results with a steady spraying output? Our new partial-width control makes it possible!

Our innovative partial-width control feature enables uninterrupted monitoring of the nozzles and valves that would make correct dosing of spraying material impossible if they were not functioning properly.

Our new one-of-a-kind monitoring system for de-icing quantities works for all partial widths that can be routinely activated or deactivated. During operations, three status levels are continuously measured and shown on the display: a) OK, b) deviation from tolerance levels and, ultimately, c) no quantities or critical level.

Our new partial-width control is an innovative tool for maintaining the ideal performance of your equipment!



The status levels are indicated on the display of the partial-width monitoring system (on the right) with three different colours.

- a) OK = green
- b) Deviation from tolerance levels = light blue or orange
- c) No quantities or dangerous level = dark blue or red



ASPS 2000: A trailer for preventative use at small airports.

The ASPS 2000 is a trailer sprayer which is particularly suited to preventative ice control at small airports or on the ramp. With a volume of 2000l the ASPS 2000 applies liquid de-icer in a very precise dosage via spray nozzles at a width of 15 m.

	ASPS 2000
Tank capacity	2 000 l
Spraying width	15 m
Operating speed invariable	25 km/h
Dosage	up to 50 g/m ²
Spraying	row of nozzles
Drive	via trailer axle
Mounting	Trailer

ASPT: The intelligent trailer for even more clearing volume.

Also with the trailer sprayer ASPT a spraying width of 15 m is achieved. However the tank of the ASPT holds 3,000, 4,000 or 5,000 l according to the design. In addition the nozzles provide especially large drops and are just 500 mm above the ground so that turbulence is kept to a minimum.

	ASPT
Tank capacity	3,000 l / 4,000 l / 5,000 l
Spraying width	15 m (optional 18 m)
Operating speed	20 km/h
Dosage	15, 20 or 25 g/m ²
Spraying	row of nozzles
Drive	PTO (optional vehicle hydraulics)
Mounting	Trailer



DE-ICING

SPECIAL SPRAYING DISCS

Exact dosages, high economic viability, more environmental protection: application of thawing agent by special spraying discs.

With this technology the thawing agent is applied via one or more spraying discs at the rear of the machine. The feed to the disc occurs via a special dosage pump. Due to a reliable volume measurement and closed regulation circuit to the engine from the pump and spraying disc, very even and exact spraying is guaranteed. The application is controlled via a very user friendly CL control panel in the driver's cabin.

Our RSP range: Flexibility for every airport - and every requirement.

The sprayer RSP-1S brings rapid thaw above all to the ramps. It is designed for medium trailers and is driven via vehicle hydraulics or a separate diesel motor.

The RSP-2S can - just like the RSP-1S - be constructed very variably due to its modular construction - therefore it can be optimally adapted to the individual needs of your airport. The two extremely stable and low maintenance special spraying discs have a spraying width of up to 15 m.

As a special variant for take off and landing runways we designed the RSP-3S. Fitted with three special spraying plates a spraying width of up to 24 metres is achieved here: your large areas will be covered reliably and very quickly.

The RSP-4S was designed for an even quicker application of the thawing agent: Four special discs are used here, which enable a spraying width of up to 30 m and a road speed while working of up to 40 km/h. The RSP-4S de-ices both preventively and curatively.



DE-ICING

	RSP-1S	RSP-2S	RSP-3S	RSP-4S
Tank capacity	Customised	Customised	Customised	Customised
Spraying width	3 m – 8 m	6 m – 15 m	3 m – 8 m / 24 m	6 m – 16 m / 32 m
Operating speed	up to 40 km/h road speed related			
Dosage	up to 50 g/m ²			
Spraying	special spraying discs	special spraying discs	special spraying discs	special spraying discs
Drive	vehicle hydraulics or diesel engine			
Mounting	truck (fix-mounted or de-mountable system)			



COMBINATION MACHINES

Spraying and spreading in one single process step? No problem with our efficient combination machines.

With our combination machines fixed and liquid gritting agents can be applied separately or mixed in a single process step - an intelligent concept, which enables optimally adjusted de-icing for every situation.

ACE: With two special discs, designed for large trailers.

Fitted with two special spreading discs the ACE can use both gritting and spraying agents for de-icing. It is conceived for mounting on large trailers and articulated trailers. The spreading width is 6 to 24 m; the spraying width is 6 to 15 m.

ACE-RSP - Lots of use flexibility due to four special discs.

The ACE-RSP has four special spraying discs: two slanting discs are located at the rear on the chassis, with one further one on each spraying arm. Therefore the ACE-RSP achieves a spreading width of 6 to 24 m and a spraying width of 6 to 15 m, optionally up to 30 m.



	ACE	ACE-RSP	ACE-ASP
Tank capacity	Customised	Customised	Customised
Spreading width	6 m – 24 m	6 m – 24 m	6 m – 24 m
Spraying width	6 m – 15 m	6 m – 15 m / 24 m	3 m – 14 m / 24 m
Operating speed	up to 30 km/h	up to 30 km/h	up to 30 km/h
	road speed related	road speed related	road speed related
Dosage	up to 50 g/m ²	up to 50 g/m ²	up to 50 g/m ²
Spraying	special combination discs	special spraying discs	2 special combination discs, spray nozzles
Drive	vehicle hydraulics or diesel engine	vehicle hydraulics or diesel engine	vehicle hydraulics or diesel engine
Mounting	truck (fix-mounted or de-mountable system)	truck (fix-mounted or de-mountable system)	truck (fix-mounted or de-mountable system)



ACE-ASP: Innovative technology for maximum thawing width.

With ACE-ASP normal nozzles, innovative long throw nozzles and two special spraying discs work in combination. In this way a spreading and spraying width of 24 m is achieved!

Combine further - and expand your possibilities with a very special spreading machine.

The Stratos Lava: Always your first choice, when every other method fails!

The Stratos Lava ensures the maintenance of flight operation, if de-icing with normal thawing agents is not possible due to particularly strong ice formation.



The innovation: due to an application made of sand and strongly heated water, a non slip surface with high friction value occurs even at the lowest temperatures - even with an already closed layer of snow or ice the Stratos Lava achieves non slip surfaces with high friction values over a width of up to 3 m.

	Stratos Lava
Spraying width	up to 3 m
Hopper	9.0 m ³ *
Water tank volume	3 000 l
Required platform length	4 535 mm

* Further configurations upon request

CLEANING

More modularity, more system, more efficiency:

Apart from our winter technology you can also use our cleaning knowledge.

For the safety of the runways the topic of cleaning is also of central importance. Therefore Schmidt also offers you a diverse product range in this area, with which you can reliably increase the efficiency and safety of your airport.

In particular also if you combine our winter maintenance technology with our cleaning technology, many flawless interfaces between people and machines are created, e. g. a uniform control panel - a big advantage which pays off 365 days a year.

Whether removal of gritting material, liquid or FODs:

Our machines ensure clean conditions.

It is a given that our airport technology also ensures absolute residue free removal of the gritting material used. However there is even more soiling potential: In this way the so called FODs (Foreign Object Damages) to the take off and landing runways should be prevented - possible damages to the aircraft which could be caused by highly flung objects.

And not least there are also dangers that could arise from spilled liquids such as oils or fuels.

Maximum safety is a question of technology. You will get the right answers at Schmidt.

As answers to these dangers we offer you not only high performance machines, magnets, special brushes, rollers and suction fans in various combinations and levels of effectiveness: furthermore we offer you a dedicated specialist competence, which doesn't leave you alone with your questions in any situation - we would be happy to advise you any time.



TRUCK-MOUNTED SWEEPER

Our flexible truck-mounted sweeper AS990: Uncompromising cleaning for every challenge.

Fitted with two disc brushes, the rear side attached sweeper unit and the high performance suction fan the machine cleans a large area quickly in one stage. With the rear side SHS-suction unit or the optional and quickly changeable liquid suction nozzle, the AS990 is the optimal solution for use all year round.

	AS990
Sweeping speed	up to 40 km/h
Transport speed	up to 80 km/h
Hopper	9.5 m ³
Pure suction width	2 300 mm
Disk brush sweeping width	3 500 mm
Liquid suction nozzle	2 500 mm
Water tank volume	2 000 l (Optional 4 100 l)
Engine	OM 906 LA, EuroMot IIIA / IIIB auxiliary engine
Maximum performance	205 kW / 210 kW
Area performance	up to 140,000 m ² /h

Optionally the machine can also be fitted with the magnetic bar PMB 2400, a front end sweeping machine or a snow plough. The AS990 picks up both solid objects such as leaves, dust and debris, and liquids, e.g. de-icer or surface water during its operation.

The high performance AS990 sweeper can also be supplied as the **ASC990**, a specialised aircraft stand cleaning machine. The ASC990 can remove rubber tyre marks and oil from aircraft stands. The contaminated area is first treated by the front-mounted spraying system, using a mixture of detergent and water and is then scrubbed with the disc brushes. The loosened material is picked up directly by the rear-mounted sweeping unit.

The PMB 2400: And pieces of metal are discovered.

An attractively strong performance: the magnetic bar PMB 2400 reliably picks up even the smallest magnetic objects and therefore ensures safe take offs and landings.

	PMB 2400
Operating width	2 400 mm
Drive	vehicle hydraulics or electrohydraulics
Mounting	on the vehicle plate
Weight	ca. 350 kg
Field density	300 Gauss at a ground clearance of 100 mm

VKS-H: The robust roller brush for slush.

On taxiways and ramps cleaning is required that is fast and reliable and does not hold up operation for longer than necessary: VKS-H particularly frees this area from coarse and heavy soiling.

The roller brush is fitted with height adjustable and inflated castor wheels, which ensure individual brush ground pressure control in every situation and therefore optimum cleaning results. In addition, for low dust brushing a water spray control with nine spraying nozzles are used. Specially conceived brush sets make the VKS-H an efficient work tool even in winter.

	VKS-H
Brush diameter	800 mm
Roller brush length	3 400 mm
Brush rotational speed	up to 400 rpm
Sweeping width (26°)	3 055 mm
Weight approx.	850 kg



LAND-SIDE

Optimal results on the land-side:

Schmidt also prepares the ground here for more safety and efficiently.

For the cleaning of surfaces on the land-side, in principle all communally useable sweepers and winter maintenance equipment are considered. Also in this sector Schmidt plays a leading role.

In order that you see land in every situation:

The robust machines and attachments from Schmidt!

On the land-side it primarily depends on technology, which is as robust and reliable as possible. Normal debris requires high-performance brushing and suction systems as well as an efficient realisation of debris hopper and suction nozzles.

Also on the land-side you do not want to make a compromise?

Then choose between "perfect" and "optimum"!

Once again here Schmidt provides you with a diverse product range that encompasses both the machines and the corresponding attachments such as brushes, rollers and snow ploughs in the most diverse combinations.

No matter whether you want to clean approach routes, parking spaces or the airport underground parking: With the innovative solutions from Schmidt you make sure that your customers are in time for their check-in.



LAND-SIDE

COMPACT SWEEPERS

Small, clever, uncompromising: Our compact sweepers ensure nice outlooks.

Our Swingo 200+: You can get everywhere with it - quickly and sparingly.

In spite of its 2.0 m debris container the smart Swingo 200+ has a very high level of manoeuvrability. Due to its lowerable chassis and the fine dust filter the machine can also be used in car parks, narrow entrances and underground supply routes. A water cooled motor with diesel particle filter ensures quiet running with low fuel usage. Our Swingo 200+ is available as a 2 brush and 3 brush machine.

	Swingo 200+
Sweeping speed	0 - 12 km/h
Transit speed	25 / 40 / 50 km/h selectable
Sweeping width (with 2 brushes)	1 400 mm - 2 500 mm
Sweeping width (with 3 brushes)	1 400 mm - 2 600 mm
Legal total weight	4 500 kg
Drive	Euro 5 diesel engine

The Cleango 500: More volume capacity, larger sweeping width - even more efficiency.

The Cleango 500 offers the volume capacity of a large attached sweeper, with its up to 3.7 m³ debris container, and combines this advantage with the manoeuvrability of a compact sweeper. The towed disc brush system is located underneath the cabin (in front of the front axle) to save space.

	Cleango 500
Sweeping speed	0 - 12 km/h
Transit speed	25 / 40 / 50 km/h selectable
Sweeping width (with 2 brushes)	1 900 mm - 2 100 mm
Sweeping width (with 3 brushes)	3 100 mm
Legal total weight (50km/h)	11 500 kg
Drive	Euro 5 diesel engine

LAND-SIDE

DE-MOUNTABLE SWEEPERS

Our de-mountable sweepers: The most thorough cleaning from routine to special use.

**SK 400:
Ideal for road and kerbstone cleaning**

The hopper volume is 4.0 m³; the sweeping speed is 20 km/h. The floor tray of the debris hopper is made of robust stainless steel. The hopper can be emptied via high tipping into a normal container.

	SK 400
Hopper size	4m ³
Water tank	600 / 800 ltr.
Spray water pump performance	10ltr/3bar
Load approx.	ca. 3 000 kg
Adm. GVW	7 490 kg
Drive	hydrostatic
Sweeping speed	20 km/h
Transit speed	90 km/h

The sweeping width is 2,140 mm, whereby the whole area is swept mechanically, via the disc brush, centre brush and a suction nozzle.

**SK 500:
More speed and efficient use on all roads**

The SK 500 is suitable for use on all roads. Its side mounted and outwards pointing disc brush feeds the debris from the kerbstone in front of a towed suction nozzle with integrated cross brush.

In addition a 1,250 mm long feeding cross brush leads under the vehicle, which transports the dirt from the street in front of the suction nozzle. A hydrostatic motor ensures a stageless sweeping speed of up to 40 km/h. The sweeping width is 2,000 mm

	SK 500
Sweeping width	max 2 000 mm (Standard)
Water tank	1 100 l
Hopper	5.0 m ³
Net weight	6 640 kg (chassis dependent)



SK 600:

More volume, more comfort, more options for use

The mountable sweeper SK 600 shows a hopper volume of 6.0 m³, and a sweeping width of 2,300 mm via disc brush, centre brush and the suction nozzle. The whole area will be swept mechanically for you.

	SK 600 and SK 700
Sweeping width	2 300 mm
Water tank	1 800 l / 2 000 l
Hopper	6.0 m ³
Net weight	8 200 kg / 9 600 kg (chassis dependent)

Here too the suction nozzle is 550 mm wide - at the connection to the suction nozzle however it decreases to 250 mm. In this way the debris is transported into the hopper without damaging the suction nozzle. Options such as weed brushes, spraying bars and rear suction systems also extend the spectrum of the diversely usable SK 600.

SK 700:

Maximum performance plus efficient liquid absorption

The attached sweeper SK 700 has all the performance characteristics of the SK 600: a sweeping width of 2,300 mm, which is swept mechanically over the whole width, a towed sweeping unit with disc brush, centre brush and suction nozzle - and further equipment options such as spraying and washing beams or front brushes, to sweep on a second level (the kerbstone) or to remove weeds.

In addition the SK 700 has a large liquid rear suction system: over an absorption width of 2,500 mm four water nozzles and two largely dimensioned suction nozzles enable efficient use after oil accidents or the absorption of glycol.



SNOW PLOUGHS

Our efficient ploughs offer you one thing above all: The optimum solution for every snow situation.

The SNK: Excellently suited to light snow fall

The SNK is a one blade snow plough, which is made of high quality plastic. The plough is available in clearing widths between 1,550 and 3,180 mm (with a standardised blade angle of 30°). The SNK is conceived for quick and easy removal of slush, residual snow and light snow.

The Cirron: More snow, more blades, more free runway.

The Cirron fitted with three to five blades is suitable for larger quantities of snow. The elastic spring link and the flexible blade control ensure a great deal of comfort and an optimum clearing result. The Cirron is available in clearing widths between 2,035 and 3,390 mm.

The Tarron: Heavy snow fall? Big relief!

In the case of very large quantities of snow the multi blade Tarron is the right answer. Developed for aggressive snow clearing, it has a large snow ejection range and shows its uncompromising performance capability with clearing widths from 2,290 to 3,390 mm. Due to the installed polyurethane silencer the Tarron works at an especially low noise level.

	SNK 18	SNK 21	SNK 24	SNK 27.1	SNK 30.1	SNK 34.1	SNK 37.1
Snow plough height	800 mm	800 mm	800 mm	1 180 mm	1 180 mm	1 180 mm	1 180 mm
Cutting edge length	1 800 mm	2 120 mm	2 420 mm	2 700 mm	3 000 mm	3 400 mm	3 700 mm
Clearing width at 30°	1 550 mm	1 800 mm	2 100 mm	2 310 mm	2 550 mm	2 940 mm	3 180 mm
Weight ca.	220 kg	244 kg	266 kg	405 kg	440 kg	505 kg	560 kg
Cutting edge segments	6	7	8	4	4	5	5

	SL 24	SL 27	SL 30	SL 32	SL 34	SL 36	SL 40
Snow plough height	930 mm						
Cutting edge length	2 400 mm	2 700 mm	3 000 mm	3 200 mm	3 400 mm	3 600 mm	4 000 mm
Clearing width at 32°	2 035 mm	2 290 mm	2 540 mm	2 710 mm	2 880 mm	3 050 mm	3 390 mm
Weight ca.	660 kg	700 kg	755 kg	775 kg	805 kg	860 kg	965 kg
Number of blades	3	3	4	4	4	4	5

	MS 27.1	MS 30.1	MS 32.1	MS 34.1	MS 36.1	MS 40.1
Snow plough height, left	1 060 mm	1 060 mm	1 060 mm	1 060 mm	1 140 mm	1 140 mm
Snow plough height, right	1 200 mm	1 200 mm	1 200 mm	1 200 mm	1 290 mm	1 290 mm
Cutting edge length	2 700 mm	3 000 mm	3 200 mm	3 400 mm	3 600 mm	4 000 mm
Clearing width at 32°	2 290 mm	2 540 mm	2 710 mm	2 880 mm	3 050 mm	3 390 mm
Weight ca.	870 kg	900 kg	1 015 kg	1 060 kg	1 110 kg	1 155 kg
Number of blades	3	3	4	4	4	4



SNOW CUTTER BLOWERS

When push comes to shove: Our efficient snow cutter blowers get through it for you.

The FS range: Full use with high, hard and frozen snow.

Our stable snow cutter blowers in the FS range were developed for optimum clearing performance with high, hard and frozen snow. The FS is designed for mounting on tractors and implement carriers and available in clearing widths between 2,200 and 2,650 mm.

SPREADERS

Our spreading machines: Always spread exactly the safety that you need.

The Stratos range: Many options, maximum flexibility, high efficiency.

The mounted spreaders in the Stratos range enable exact spreading dosage and pre-defined patterns, meaning that these are recommended both for preventative and curative de-icing. The Stratos is available in various hopper sizes from 0.6 bis 14.0 m³ with and without brine tanks. The spreading width - according to the design - is 2 to 14 m.

	FS 75-220	FS 75-245	FS 90-245	FS 90-265	FS 105-245	FS 105-265
Front end height	1 070 mm	1 070 mm	1 350 mm	1 350 mm	1 500 mm	1 500 mm
Clearing width	2 200 mm	2 450 mm	2 450 mm	2 650 mm	2 450 mm	2 650 mm
Drum diameter	750 mm	750 mm	900 mm	900 mm	1 050 mm	1 050 mm
Blower diameter	700 mm	700 mm	850 mm	850 mm	1 000 mm	1 000 mm
Clearing capacity	800 t/h	800 t/h	1 200 t/h	1 200 t/h	1 600 t/h	1 600 t/h
Weight approx.	1 160 kg	1 270 kg	1 590 kg	1 690 kg	1 900 kg	1 980 kg

Stratos B/S - Middle and Big Range												
Hopper	1,7 m ³	2,0 m ³	2,5 m ³	2,7 m ³	3,0 m ³	3,5 m ³	4,0 m ³	5,0 m ³	6,0 m ³	7,0 m ³	8,0 m ³	9,0 m ³
Brine tank	880 l	880 l	1 210 l	1 210 l	1 210 l	1 760 l	1 760 l	1 760 l	2 200 l	3 000 l	3 000 l	3 000 l
Net weight	605 kg	616 kg	665 kg	671 kg	682 kg	972 kg	986 kg	1015 kg	1109 kg	1293 kg	1325 kg	1357 kg

AirportLogic - The new control system and spray regulation system from Schmidt.

AirportLogic is an innovative GPS-based real-time control technology that makes it possible to optimise function as well as the consumption of anti-icing and gritting materials during de-icing operations. By using this system, expensive double treatments or overlooked safety-relevant areas are definitely a thing of the past.

One system, two functions, a great deal of saving potential

The GPS-based AirportLogic system comprises two functions: a guidance system and a spraying/gritting control system. The guidance system displays both treated and untreated areas accurately and in real time - furthermore, it shows the operator the optimum routes, which are calculated on the basis of the travelling speed and the GPS signals. The guidance system thus performs the task of continuously mapping the treated areas for the operator; firstly, to eliminate gaps and, secondly, to avoid duplication of effort – this can significantly lower your costs!

AirportLogic

- Reduced de-icing material consumption
- Increased safety through better surface coverage of the operating area
- Enhanced efficiency through shorter operating times
- The automatic switch-on and switch-off function enables the driver to fully focus on driving

The control system for the spraying/gritting materials to be applied optimises - and this means reduces - their consumption: Already treated areas are determined on the basis of GPS signals and the current spraying width. At the same time, AirportLogic plans in advance, since the system also calculates the specific areas still to be covered. The quantity of spraying or gritting material is then adjusted by automatically switching on and off according to your settings.

Our ASP spraying system can additionally activate and deactivate individual spray sections so that the spraying material is not applied along the full width – as a result, the efficiency is once again increased and the costs considerably reduced in a particularly intelligent way.

Safety overlaps in the spraying or gritting patterns are of course always taken into account in all fields of application.

AirportLogic: For even more efficient sweeping!

You would like to use this innovative and equally efficient control technology also for your sweepers or jet sweepers? No problem! Our AirportLogic Guide helps you save a lot of time and money on sweeping – We will be happy to provide more information!

AirportLogic and AirportLogic Guide:

The intelligent new control system for even greater safety and efficiency at the highest level.

Service at Schmidt:

As comprehensive and as much as you like!

True service is not just a promise, but something that it has to prove its worth in practice – especially in your individual practice. At 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. 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 solution competence 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 decisive prerequisite for providing efficient solutions to help you with individual problems and optimise airport operations in a goal-oriented manner.

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 airport experience and benefit from our keen sense of future developments and new fields of activity.

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

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





Aebi Schmidt Deutschland GmbH

Albtalstrasse 36
79837 St. Blasien
Phone: +49 76 72 41 20
Fax: +49 76 72 41 23 0
E-Mail: de@aebi-schmidt.com
Internet: www.aebi-schmidt.com

www.aebi-schmidt.at
www.aebi-schmidt.be
www.aebi-schmidt.ch
www.aebi-schmidt.de
www.aebi-schmidt.es
www.aebi-schmidt.it
www.aebi-schmidt.nl
www.aebi-schmidt.no
www.aebi-schmidt.pl
www.aebi-schmidt.se
www.aebi-schmidt.co.uk

www.aebi-schmidt.com

Subject to technical changes without notice. Photographs not binding.



A company of the Aebi Schmidt Group

logo_ash-
aebi-
schmidt.ep
s