SCHMIDT

FS High Performance

Snow cutter blower

For the most extreme conditions when clearing snow.

- ✓ **Efficient clearing of snow in front and on the side walls, thanks to a performance increase of approx. 25 %**
- ✓ **Short attachment, large excavation height and center of gravity close to the vehicle**
- ✓ **Good overview from the driver cabin**

With the varying clearance performances and widths, the FS-HP attachment snow cutter blowers cover a wide variety of requirements. The new high performance version replaces the FS. The rework of the cutter drums and the blower wheel led to a performance increase of approx. 25 %.

The robust construction of the FS-HP snow cutter blower is designed for extreme conditions and the use in the entire municipal winter road maintenance. It has been developed for efficient clearing performance when clearing high, hard, and iced snow in front. The removal of side walls, such as the ones created by snow ploughs, is possible as well.

These are the characteristics of the Schmidt FS-HP:

The snow is driven from the open cutter drums to the blower wheel and then ejected through the rotatable chute. The cutting blades of the cutter drums, widening towards the blower wheel, ensure a better snow transport and thus better filling of the blower wheel. The optimized ejection blade size of the blower wheel and their geometry lead to a higher clearing performance and a further snow ejection.

Attachment and drive

The snow cutter blowers are driven by the front power take-off of the carrier vehicle. Thanks to the adapted lifting system and the revised drive train, a closer attachment to the vehicle and simultaneously a larger excavation height have been achieved. Quick attachment and removal. The adjustable upper link provides for a longitudinal tilt compensation. Transverse tilt is compensated hydraulically.

Snow blower front end

The front end is equipped with a large excavation height and an outstanding transverse tilt. The cutter drums sit on a stable bearing in the center and on the outside and are protected with two mechanical overload protection devices. The distance to the ground can be defined with the sliding shoes. The snow is conveyed to the center by the toothed cutter drums and transferred to the high-speed blower wheel with optimized properties regarding fluid mechanics. By the high circumferential speed and the extra large ejection blades of the blower wheel, extra large ejection distances are achieved.

Sliding shoe

Cutter drums

The toothed cutter drums also cut hard and iced sow. A side-cutter is attached on the outside of the cutting winch, which cuts the snow. This ensures maneuverability in bends while clearing snow.

Snow ejection

The ejected snow is bundled dynamically to a compact snow jet in the long ejection chute. The return bonnet changes the ejection distance, the chute rotation device changes the direction of the snow jet. The snow can be ejected sideward via the ejection chute or onto the bed of a truck.

Versions

With the varying clearance performances and widths, the FS-HP attachment snow cutter blowers cover a wide variety of requirements. Different versions of drum or blower wheel diameters are available. They offer a clearing width of 1,600 mm up to 2,650 mm and can master snow heights of 1,000 mm up to 1,500 mm.

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Snow cutter blower

Vehicle requirements

The FS-HP snow cutter blowers can be attached to Unimog implement equipment carriers on tractors of 75 up to 300 HP and to carrier vehicles with hydraulic equipment drive (e.g. wheel-type loaders, yard loaders, etc.).

Attachment and removal

On implement equipment carriers with power take-off:

- Mounting plate size 3 (DIN 76060, form B) with hydraulic lifting and lowering equipment
- Mounting plate size 5 (DIN 76060, form A) with hydraulic lifting and lowering equipment
- Mounting plate form A (Swiss Standard) with hydraulic lifting and lowering equipment

On tractors with front or rear power take-off:

- Mounting plate size 3 (DIN 76060, form B) with hydraulic lifting and lowering equipment
- Three-point category II and III

On carrier vehicles with hydraulic drive:

- Mounting plate size 3 (DIN 76060, form B) with hydraulic lifting and lowering equipment
- Mounting plate size 5 (DIN 76060, form A) with hydraulic lifting and lowering equipment
- Mounting plate form A (Swiss Standard) with hydraulic lifting and lowering equipment
- Three-point category II and III
- Wheel-type loader adapter plate Volvo standard and others

Clearing unit

Two-stage snow cutter blower system with two-speed open cutter drums and mechanically driven blower wheel. The cutting blades of the cutter drums, widening towards the blower wheel, ensure a better snow transport and thus better filling of the blower wheel. The optimized ejection blade size of the blower wheel and their geometry lead to a higher clearing performance and a further snow ejection.

Side bearing of the cutter drums for steady support. Outside bearing of the side cutters to ensure maneuverability. Replaceable cutting edge. Sliding shoes. Removable snow-cutting knives.

Snow ejection

275° hydraulically rotating ejection chutes for a directed snow ejection (up to 35 m)
Ejection chute can be folded down manually for transport, hydraulic folding optional

Option: hydraulic rotating folding chute for transferring the snow onto the bed of a truck

Drive

The snow cutter blower is driven by the front or rear power take-off of the carrier vehicle or via corresponding power hydraulics.

Control

Control of the FS-HP via the vehicle hydraulics: Lift and lower machine, turn chute, open and close chute flap. Hydraulic transverse tilt compensation, longitudinal tilt compensation via mechanically adjustable upper link.

Option: hydraulic longitudinal tilt compensation

Options

Bottom rollers, storage trolley, LED marker lights, transport protection equipment

Technical Data	FS75-160 HP	FS75-200 HP	FS75-220 HP	FS75-245 HP	FS90-245 HP	FS90-265 HP	FS105-245 HP	FS105-265 HP
Clearing width (mm)	1600	2000	2200	2450	2450	2650	2450	2650
Front end height (mm)	1070	1070	1070	1070	1350	1350	1500	1500
Drum diameter (mm)	750	750	750	750	900	900	1050	1050
Blower wheel diameter (mm)	700	700	700	700	850	850	1000	1000
Weight, approx. (kg)*	945	1025	1230	1260	1770	1810	1965	2030
Clearing performance (t/h) **	850	850	850	850	1400	1400	1800	1800
Driving power (kW)	60 - 120	60 - 120	70 - 120	70 - 120	80 - 150	80 - 150	100 - 160	100 - 160
Speed (rpm)	540/1000	540/1000	540/1000	540/1000	540/1000	540/1000	540/1000	540/1000

* Basic configuration with power take-off centralizer, lifting system and attachment plate

** Depending on the driving power

Aebi Schmidt Holding AG
Marketing and Communication

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