arctic
a brand of aebi schmidt

HMX

Snow plough

A bi-directional, steel-wire, flexible-steel plough for urban and secondary roads. The AM 4000 HMX is wide enough to work effectively in conjunction with a side plough. Thanks to the design of the wing and the polyurethane flexible blade of the plough, the plough has good snow throwing characteristics, makes an excellent clean work footprint and has a very quiet sound. For best cleaning results, it is recommended to use the double blade (T2) in addition to the main blade when cleaning wet snow and loose snow.“

Highlights

- The 75 degree blade angle is perfect for clearing snow and ice without damaging road markings or the road surface.
- Thanks to the 42 degree turning angle and the deep wing structure, snow is efficiently removed from the wing in the desired direction of ploughing
- Cleaning of the slush with the double blade (T2) produces a cleaning result comparable to brushing. The T2 double blade provides peak cleaning performance, saving time and fuel.

Your benefits

- Designed to last: low maintenance thanks to modern components, intelligent solutions and special treatment of parts.
- Cost-effective snow ploughing: an aggressive ploughing angle with good snow transfer characteristics reduces costs.
- Operator comfort: the iFlex suspension blade reduces noise and increases operator comfort.

Performance features

Fast and agile snow plough

High availability is a necessity for any road ploughing job, and the HMX snow plough meets this requirement perfectly. During snow ploughing, the ploughing angle can be adjusted continuously.

Plough wing

The robust HMX snow plough wing is made of strong steel with good chemical and corrosion resistance and excellent abrasion and wear characteristics. Together with ultra-strong steel framing, the plough wing is resistant to extreme longitudinal and lateral forces, creating a major safety factor and long product lifecycle.The HMX has a diagonal structure for raising up and handling snow far from the road surface, even at low speeds. The flexible plough blade consists of 4-5 sections which follow the road surface individually, ensuring a perfect cleaning result.

Twin blade T2

The T2 double blade is designed for highly efficient wet snow and slush removal. It is operated with double-acting hydraulic cylinders and closely follows the road surface together with the main wheel. The T2 is divided into sections that follow the road surface independently, providing a perfect finish and significantly reducing the need for salt to melt the snow. The compression force of the T2 twin blade is factory set to allow the operator to fully concentrate on the job.

Override safety system with iFlex

The iFlex blade components work as override safety device. Made from polyurethane with a longitudinal stretch ratio of 300%, the components bend backwards and slightly lift plough up, forming an angle to by-pass an obstacle, before returning back to an aggressive attack angle. All these movements occur without need of plough support, and the iFlex is completely maintenance free.

Silent ploughing

The iFlex flexible blade enables clean and quiet ploughing, reducing environmental noise in residential areas and allowing work to be carried out at night without disturbance.

Lifting device

The HMX lifting device is equipped with lifting arms that are vertical, horizontal and crossed. All joints of the cantilever arms are fitted with bronze bearings with grease nipples, and the black riveted pins are 35 mm thick for greater durability and longer service life. The plough is fitted with one powerful lifting cylinder and two synchronised turning cylinders with safety valve. The entire lifting device acts as a safety device in the event of an accident, absorbing the energy of the impact and thus protecting the machine operating the plough.

Hydraulic torsion system

The plough blade turns 42 degrees to the left and right by means of two double-acting cylinders. The cylinders connect the lower part of the wing to the plough‘s push frame, providing the best pushing power while maintaining the stability of the snow plough during operation.

Kerb stone protectors

The HMX has kerb protection on both the left and right, which helps it to operate in urban areas and near roadside wells without risk of damage.

Splash guard

Made of durable and flexible polyurethane, the wing-shaped splash guard helps to roll snow inside the wing and move it quickly and accurately to the side. This prevents snow from flying onto the windshield and mirrors, making plowing safe and comfortable.

Attachment of the plough

The HMX plough is available in a range of fit options to allow it to work effectively on a variety of basic machines such as trucks, tractors and wheel loaders.

Accessories

- T2-two-cylinder
- Foot control devices
- Gel-filled wheel set (not for 3400 model)
- Edge marker sticks
- Side rollers with side marker sticks
- Various types of wear plates
- LED lights with reflectors
- Flashing lights

Related products

RMT

Road maintenance truck

SHJ

Snow plough

AMS

Snow plough

Technical data

	HMX 3400	HMX 3700
Construction		
Attack angle of the blade	75°	75°
Swiveling angle	42°	42°
Dimensions		
Plough height right	1,350 mm	1,450 mm
Plough height left	1,100 mm	1,100 mm
Clearing width	2,540 mm at 42° 3,400 mm at 42°	2,720 mm at 42° 3,700 mm at 42°
Clearance width	3,000 mm at 42°	3,180 mm at 42°
Weights		
Approx. weight with steel cutting edges	990 kg	1,030 kg

	HMX 4000	HMX 4600
Construction		
Attack angle of the blade	75°	75°
Swiveling angle	42°	42°
Dimensions		
Plough height right	1,450 mm	1,450 mm
Plough height left	1,100 mm	1,100 mm
Clearing width	2,950 mm at 42° 4,000 mm at 42°	3,400 mm at 42° 4,600 mm at 42°
Clearance width	3,410 mm at 42°	3,900 mm at 42°
Weights		
Approx. weight with steel cutting edges	1,100 kg	1,150 kg

aebi schmidt group

Aebi Schmidt Holding AG
CH-8050 Zurich, Switzerland

Document created on 24 APR 2024