



**arctic**  
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# HMD

## Snow plough



The AM 3700 HMD is a combination of a high throwing inclined crab and a modern main crab with flexi beam elements. The flexible blade closely follows the road surface and produces an extremely clean working track. The wing design throws snow high and far over high snow banks. The plough is designed for areas where there is a lot of snow. The blade of the plough is designed to increase the thickness of the material where the greatest forces are applied. At its thickest, the wing material is 4mm thick.

### Highlights

- The 75 degree blade angle is perfect for clearing snow and ice without damaging road markings or the road surface.
- In a high-speed snow plow, the wing works well and extra snow jets don't obstruct the driver's view, thanks to the 42-degree turning angle and deep wing design.
- Removing slush with the T2 twin blade is comparable to brushing. The T2 twin blade enables high-speed shovelling, saving time and fuel.
- The height and design of the wing allows the plough to throw snow over 1.5 - 2.0m banks.

### 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 combined with aerodynamic flow reduces costs.
- Operator comfort: the iFlex suspension blade reduces noise pollution and increases operator comfort

## Performance features

### Fast and agile snow plough

High availability is a necessary factor in all road ploughing operations, and HMK snow ploughs meet this requirement perfectly. During snow ploughing, the ploughing angle can be adjusted continuously.

### Aura wing

The durable wing of the HMK snow plough is made of strong steel with excellent durability and wear properties. Combined with a very strong steel frame, the snow plough blade can withstand extreme longitudinal and lateral forces, which is a safety factor and gives the product a long service life. The HMK wing is designed for correct ploughing, especially in snowy areas. The flexible snow plough blade consists of 4-5 sections that follow the road surface individually and guarantee 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 HMK lifting device is equipped with lifting arms, which 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, ensuring 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

HMK treads at both ends of the wing help when working on roads with railings and protect the plough and railings from damage.

## **Splash guard**

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

## **Attachment of the plough**

The HMK plough is available in a wide range of configurations 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
- Edge marker sticks
- Side rollers with edge marker sticks
- Various wear plates
- LED lights with reflectors Flashing lights

## Technical data

### Construction

Attack angle of the blade	75°
Swiveling angle	42°

### Dimensions

Plough height right	1,900 mm
Plough height left	1,090 mm
Clearing width	2,720 mm at 42° 3,700 mm at 42°
Transport width	3,180 mm at 42°

### Weights

Approx. weight with steel cutting edges	960 kg
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