

Arctic HPD

Snow plough

The Schmidt Arctic HPD is a heavy-duty highway snow plough with a ploughing speed up to 90 km/h and offering outstanding snow clearing performance. This single body snow plough provides unbeatable resistance and stability to ploughing forces due to its iFlex flexible blade system. iFlex ensures the best snow cleaning result from slush to heavy snowfall – in a safe and reliable way.

Highlights

- **Special 75° attack angle** is perfect for cleaning away snow and ice without destroying road markings or hitting obstacles on the road surface.
- Rapid snow clearance does not obscure the driver's vision at any speed thanks to the **42° degree swiveling angle and deep wing structure**.
- Slush clearing with a **second T2 cutting edge** creates a cleaning result comparable with brush cleaning. The T2 cutting edge delivers top-speed clearing without time or fuel losses.

Your benefits

- **Designed for long life span:** minimal service requirements thanks to modern components, intelligent solutions and special treatment of parts.
- **Cost-effective snow plough:** the aggressive angle of attack, together with aerodynamic, flow-optimised polyethylene wing with low friction surface, reduces fuel consumption considerably and keeps costs low.
- **Comfort for the driver:** the black matt polyethylene wing combined with the iFlex blade system reduces noise pollution and increases the driver's comfort and safety of work.



We know how important it is that your machines and equipment are always ready to deploy. **Get in touch with us** about our range of tailored services and original spare parts.

Performance features

Fast and agile snow plough

High manoeuvrability is necessary when plowing any urban area, and the HPD snow plough meets that requirement perfectly. The swiveling angle of the plough can be adjusted steplessly during snow ploughing.

Plough wing

The HPD snow plough wing is made of lightweight and durable polyethylene 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 Schmidt Arctic HPD 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.



Second cutting edge T2

The T2 second cutting edge is designed for highly efficient wet snow and slush removal. It is activated with double function hydraulic cylinders and follows the road surface in addition to the main cutting edge. The T2 is divided into sections which can follow the road surface individually, with a perfect finishing result, which significantly reduces the need for salt to melt the rest of the snow. The T2 cutting edge pressure is factory-adjusted so the driver can focus on working at any speed, without worrying about raising the main cutting edge.







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.





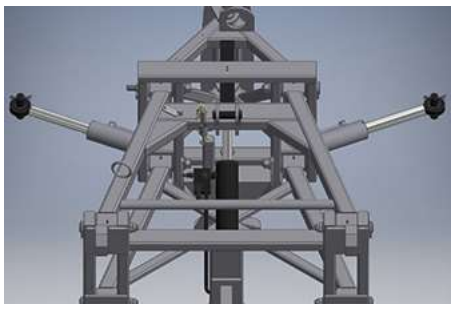
Silent ploughing

The plough wing reduces noise emissions due to its flexible elements and wing material. However, the addition of the iFlex blade delivers the cleanest and quietest ploughing, which reduces the environmental noise of plowing in residential areas allowing work to be done with minimum disturbance at night.

Lifting device

The HPD's lifting device has a parallelogram design with vertical, horizontal and cross supports. All joints have bronze bearings with grease nipples and black nitrated pin and are 90mm thick for extra strength and a longer working life.
The plough has one powerful lifting cylinder and two synchronized swiveling cylinders, with safety valve.
The whole lifting device acts as a safety device in the event of an accident by absorbing the impact, thereby protecting the road maintenance truck.





Hydraulic swiveling system

The plough wing turns 42° left and right with the help of two double-acting cylinders which have connection points to the power frame at the bottom of the wing. This provides the best pushing force while maintaining the stability of the snow plough in use.





Kerb stone protectors

The HPD has protection from kerb stones both left and right, helping it to operate in cities and near water collection devices on highways without risk of damage.



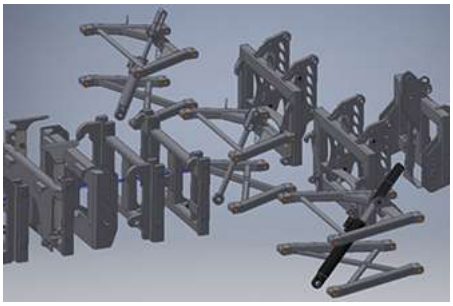
Snow visor



The snow visor is made from robust and flexible polyurethane and continues the wing cylinder shape. It helps to roll snow inside the wing and eject it fast using aerodynamic forces. This prevents snow obscuring the driver's windscreen and mirrors, making ploughing safe and comfortable.
A stainless steel snow handling plate improves snow rotation in the wing still further to keep it clear.

Mounting plates

The HPD has a variety of different attachment plates for different markets so that it can operate effectively with a wide variety of trucks, tractors, graders and wheel loaders.

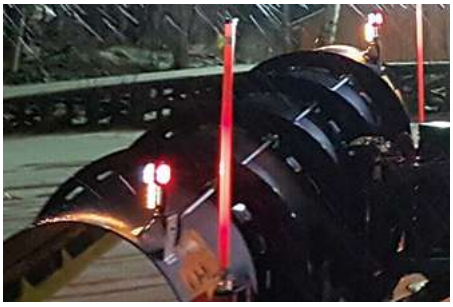


Accessories

- T2 double blade system
- Wear disk support
- Gel filled wheel set
- Edge marking poles
- Side rollers with edge marking poles (gliders)
- Steel blade set
- Hard metal blade set
- LED lights with reflectors







Gallery













Variants

HPD 3400



HPD 3700



HPD 4000



HPD 4600



Related products

Arctic RMT

Road maintenance truck



Arctic SHJ

Snow plough



Arctic AMS

Snow plough





Trust in our many years of uniquely diverse experience. **Get in touch with us.** We'll find the right solution for your specific challenge.

Technical data

	HPD 3400	HPD 3700
Construction		
Number of blades	4	4
Attack angle of the blade	75°	75°
Swiveling angle	42° - 42°	42° - 42°
Dimensions		
Plough height right	1,245 mm	1,260 mm
Plough height left	975 mm	960 mm
Length at cutting edge	3,400 mm	3,700 mm
Transport width	3,000 mm at 42°	3,180 mm at 42°
Operational Dimensions		
Clearing width	2,540 mm at 42°	2,720 mm at 42°
Weights		
Approx. weight with steel cutting edges	1,000 kg	1,050 kg

	HPD 4000	HPD 4600
Construction		
Number of blades	5	5
Attack angle of the blade	75°	75°
Swiveling angle	42° - 42°	42° - 42°
Dimensions		
Plough height right	1,275 mm	1,300 mm
Plough height left	945 mm	950 mm
Length at cutting edge	4,000 mm	4,600 mm
Transport width	3,410 mm at 42°	3,900 mm at 42°
Operational Dimensions		
Clearing width	2,950 mm at 42°	3,400 mm at 42°
Weights		
Approx. weight with steel cutting edges	1,100 kg	1,150 kg

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