



More than products. Partnership.

MSP

Single-segment snow plough for all winter conditions

MSP is a single-segment snow plough available in widths from 2.7 to 4.0 m.

It is designed for maintenance of various surfaces and clearing snow in various winter conditions.





Single-segment snow plough for variable road conditions

The MSP plough is designed for maintenance of various surfaces and clearing different types of snow. It is characterized by the combination of a steel grid structure and especially firm polyethylene wing surface, which accomplishes an optimal ratio of the plough's weight and robustness.

The design of the wing curve enables better sideways removal of snow, and double tilting scrapers ensure adaptability to all types of snow.

Special design of the double tilting scraper mechanism enables simple adjustment of the MSP plough to road conditions. The second row of scrapers can be hydraulically raised or lowered as required, so that the MSP plough can be configured for clearing hard-packed or melted snow.

The combination of steel and rubber or polyurethane scrapers and high resistance to torsion and bending make the MSP plough a suitable and safe choice for all types of surfaces and removal of all types of snow, including fresh, hard-packed and melted snow.

The MSP single-segment plough is equipped with multiple safety elements for obstacles, which prevents damage to the plough and enables safe ploughing. The axial tilt mechanism enables complete adjustment to the surface that is being cleared, without damage to the surface, while the reflective marks, signalling devices and flags enable visibility of the plough and vehicle to all road users.



WHY CHOOSE THE MSP SNOW PLOUGH?



✓ Two rows of scrapers for maximum clearing efficiency

MSP is equipped with a specially designed double tilting scraper mechanism, making the plough easily adjusted to all road conditions. The second row of scrapers can be hydraulically raised or lowered as required, so that the plough can be configured for clearing hard-packed or melted snow.



✓ Light but durable

The MSP plough is characterised by the combination of a steel grid structure and especially firm polyethylene wing surface, which accomplishes an optimal ratio of the plough's weight and robustness.



✓ Safety during operation

The specially designed axial tilt mechanism enables complete adjustment to the surface that is being cleared, without damage to the surface, while the reflective marks, signalling devices and flags enable visibility of the plough and vehicle to all road users.



✓ Lowest cost of ownership

Its unique surface protection system, easiness of use and maintenance, robust design, high quality materials guarantee a safe investment in the MSP plough.

Proven durability, safety, efficiency, simplicity, and availability of service parts and post-sales support guarantee the lowest overall cost of ownership of a snow plough currently available on the market.

CHARACTERISTICS OF DEVICE PARTS



1 | Plough wing

The plough wing is made out of a polyethylene surface combined with a steel grid structure. The steel parts of the plough are made using robotic welding technology and protected with SurfaceArmour surface protection, which guarantees the durability and longevity of the plough in winter conditions.

6 | Protection from snow

This protection is installed on the plough wing and protects the windshield from snow scatter, thus enabling safe and unhindered ploughing.

2 | Attack angle

The MSP plough wing attack angle depends on the configuration of scrapers. For two rows of rubber and steel scrapers, the front row rubber scraper attack angle is -5° , and the back row steel scraper attack angle is 15° . For the configuration with two rows of steel and polyurethane scrapers, the front row steel scraper attack angle is 15° , and the back row polyurethane scraper attack angle is 45° .

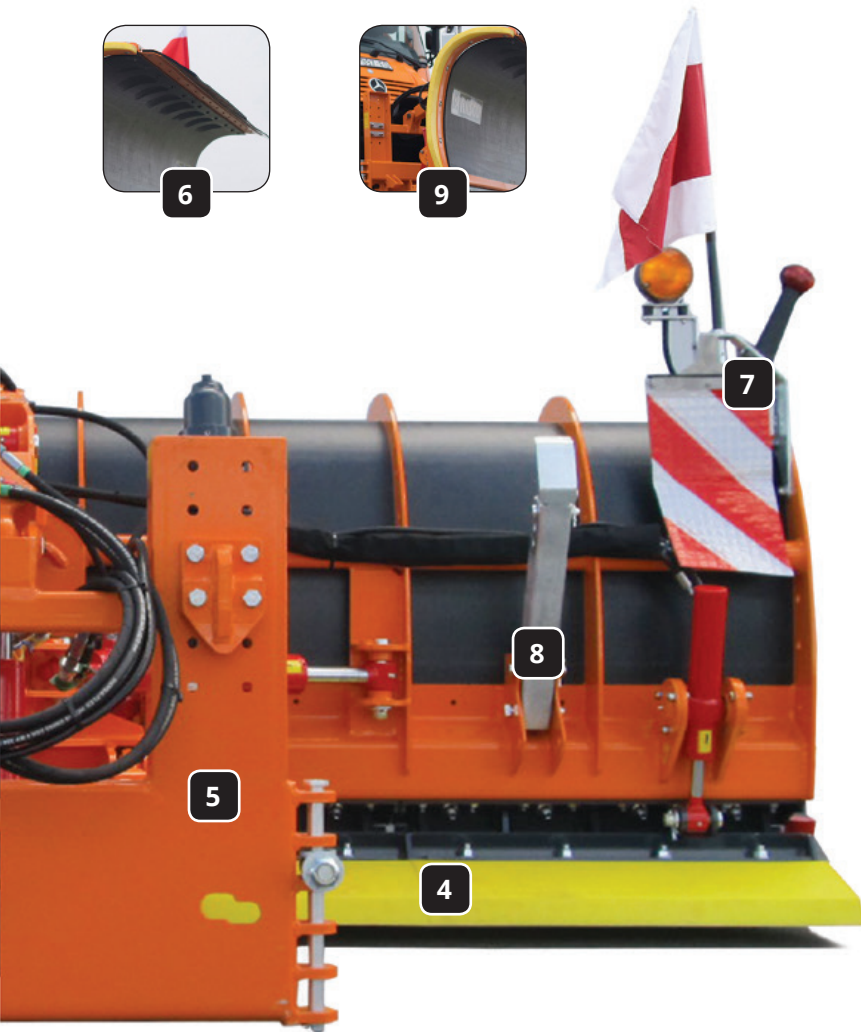
7 | Traffic signalisation

It improves the visibility of the snow plough and vehicle, thus ensuring safety during operation and transport. This may include flags, reflective marks, raised front headlights and turn indicators.

If the MSP is equipped with only steel scrapers, the attack angle is 15° , while for single-row steel scrapers it is -5° .

8 | Supporting elements

Sliding pads and auxiliary wheels support the plough's weight and prevent the plough from sinking into the ground. They extend the lifespan of scrapers and protect the plough and the surface that is being cleared from damage.



3 | Scrapers

The plough can be equipped with four different snow-clearing scraper configurations: two rows of scrapers made out of rubber + steel and steel + polyurethane as well as one row of scrapers made out of steel or rubber.

4 | Second row of scrapers

Controlled hydraulically from the vehicle cabin, the system for lifting and lowering the second row of scrapers enables the driver to select the optimal scraper type for various types of surfaces and snow.

5 | Mounting system

It enables the attachment of snow ploughs on vehicles in several ways – using different types of mounting plates for trucks and working vehicles or by front three-point attachment on tractors.

9 | Side bumpers

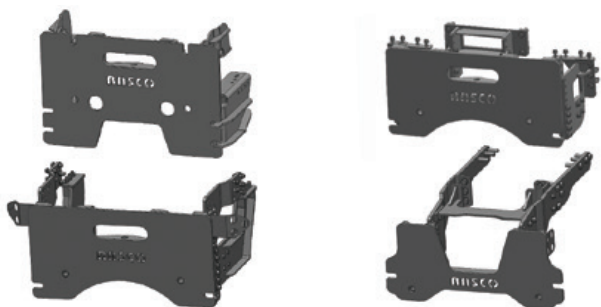
They are placed on the outer plough wings and prevent the damage of wings from side impacts of obstacles on the surface that is being cleared. Just like scrapers, they are disposable plough elements and can be easily replaced.

10 | Storage outside the season

Storage of ploughs outside the season is made easier with the use of storage legs. Storage legs protect the rubber and polyurethane scrapers from deformation, prevent damage of the surface on which the plough is placed and enable easier mounting of the plough on the vehicle.



Simple mounting on all types of vehicles



Via mounting plates

RASCO offers the possibility of manufacturing and mounting plates on various trucks. All mounting plates are created in accordance with the current standards, which guarantees high quality and resistance to damage such as torsion or bending.

Designed for complete efficiency during the operation of attachments and adjustable according to vehicle height, mounting plates enable fast and simple installation of snow ploughs on nearly all types of trucks.



Via tractor front three-point hitch

With the possibility of installing a front plate on a tractor, RASCO snow ploughs can be easily mounted on the front three-point attachment of the tractor if the tractor is adequately equipped.





Solution for vehicles with and without built-in hydraulic system

Vehicles with built-in hydraulic system

MSP ploughs can be powered using a built-in hydraulic system of the vehicle if it is designed according to the EN ISO 15431 standard.



Vehicles without built-in hydraulic system

Power via electro-hydraulic power unit

One of the methods of powering the snow plough is the installation of an electro-hydraulic power unit (EHAG) that connects to the vehicle's electrical system.

The EHAG is recommended when there is no need for frequent adjustments of the position of the plough, as is the case with open intercity roads, otherwise the battery of the vehicle may be discharged.



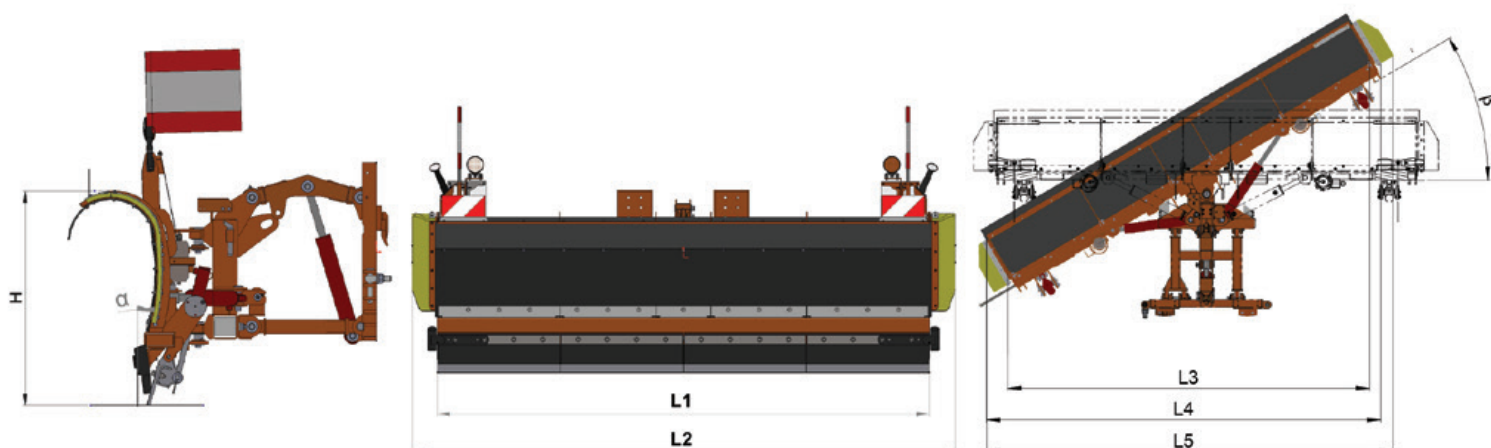
Power via diesel-hydraulic power unit

The snow plough can also be powered by connecting it to a diesel-hydraulic power unit installed on the spreader.

Powering via the diesel-hydraulic power unit is recommended when the vehicle is not equipped with an adequate hydraulic system.



TECHNICAL CHARACTERISTICS



Model	L1	L2	L3		L4		L5		Number of scrapers and corresponding dimensions	Total wing height (depending on the scraper type)	Wing rotation angle	Scraper dip angle
	Width on scrapers	Total width with wing extension	Clearing width at a rotation of		Total width at AVa rotation of		Total plough width with wing extensions at a rotation of					
			30°	36°	30°	36°	30°	36°				
mm												
2.7	2700	3140	2340	2190	2670	2570	2860	2720	3 x 900	1050 - 1150	30° ÷ 36°	Steel: 15° Polyurethane: 45° Rubber: -5°
3.0	3000	3440	2600	2430	2930	2820	3120	2960	3 x 1000			
3.2	3200	3640	2780	2590	3100	2980	3300	3120	4 x 800			
3.4	3400	3840	2950	2750	2950	2750	3465	3280	2 x 800 + 2 x 900			
3.6	3600	4040	3120	2920	3440	3300	3640	3440	4 x 900			
4.0	4000	4440	3460	3240	3990	3770	3465	3240	4 x 1000			

CHOICE OF EQUIPMENT

- Steel scrapers
- Rubber scrapers
- Rubber + steel scrapers
- Steel + polyurethane scrapers
- Front-panel attachment with level cylinder
- Front tractor hydraulic lever three-point attachment
- Slide pads
- Auxiliary wheels
- Polyurethane side wing extensions
- Reflective marks
- Turn indicators
- Clearance marker lights
- Flags
- Storage legs with wheels
- Electro-hydraulic power unit



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