




distributed by 



MASCHIO RANGE OF PLOUGHS

The plough is symbolic in agriculture and ploughing is still the most widespread and practised cultivation in Europe. Despite changes in tillage practices, ploughing continues to be the cornerstone of many cultivation line ups. In the context of preventing crop disease, controlling weeds mechanically due to increasing resistance against a range of crop protection agents, and controlling mice and other pests, there still is no sustainable alternative to ploughing.

The desire to maintain a sustainable soil structure to increase crop productivity and, above all to achieve higher profitability lie behind the design of Maschio ploughs. Innovation and technology coupled with robust engineering and versatility characterise the Maschio range of ploughs. The advantages are countless both agronomical and practical.

UNICO M 4



INDEX

UNICO - Mounted reversible plough	4
The 3 steps	6
Frame and equipment	8
Technical information	13
Mouldboards	14



UNICO

Mounted reversible plough

UNICO L 4+1

WITHOUT COMPARISON

The UNICO model combines the latest Maschio Gaspardo plough technologies and is built according to versatility and reliability concepts for ploughing quality.



Working width

Depending on the soil conditions the “Vario” on the move adjustment system allows the working width to be set in the field. It is also useful for finishing the headland.

Uniform working depth

The combined work of the rear wheel and the adjustment of the headstock allows the plough to be parallel to the ground for an increasingly uniform working plane.



First body adjustment

In order to close the furrow completely the first body can be adjusted to suit working width.



INNOVATIVE DESIGN

The introduction of the parallelogram linkage system “SmoothSet” to the frame coupled with the interchangeability of the mouldboards means the UNICO plough easily adapts to different working conditions on any farm.



Complete burial of residue

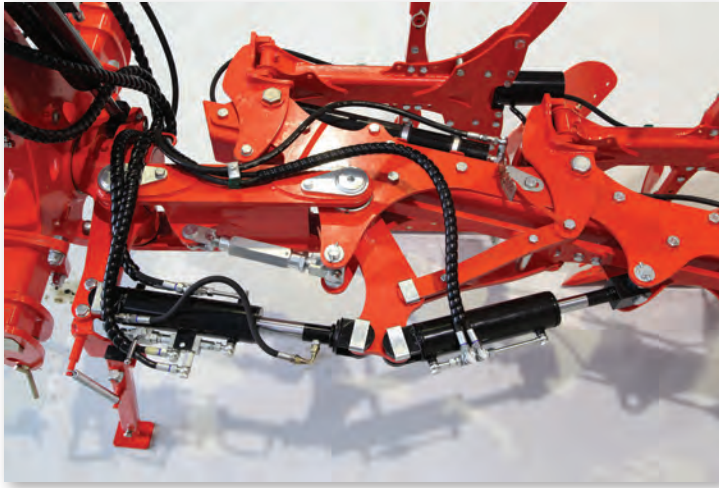
The “Quick Fit” skimmer adjustment system and the choice of mouldboards, means turning the soil and burial of residue is optimal and guaranteed in all conditions.

Simple headland manoeuvrability

Compact and smart, the UNICO plough is practical even when turning at the headland. The turnover memory function closes the bodies up automatically when turning the plough over to ensure nothing hits the ground. Once back in its working position it returns to the pre-set position. Importantly it uses the beam alignment ram to turn over, not by closing the vary width linkage, which means the pins, bushes and link rods do not get worn with every turnover.



The 3 steps to professional ploughing



Parallelogram linkage frame: SmoothSet

The parallelogram linkage frame, “SmoothSet” presents an innovative adjustment system that allows:

- Reduced stress on the frame and headstock
- On the move adjustment to the first body without altering the working width
- Traction / true line of pull remains straight and true as front furrow settings are altered.

All functions are easy to adjust and intuitive. It is therefore easy to adapt the plough to any working conditions without altering the working width or other plough settings.

1 Set the working width

Mechanical adjustment (Passo)

Working width bolt adjustment system.
Adjustments (30, 35, 40, 45 cm).



On the move hydraulic adjustment (Vario)

Quick and versatile, the variable adjustment ranges from 25 – 55cm allowing the plough to adapt perfectly to field conditions.

The hydraulic working width adjustment (Vario) enables adaptability.

Minimum working width: 25 cm



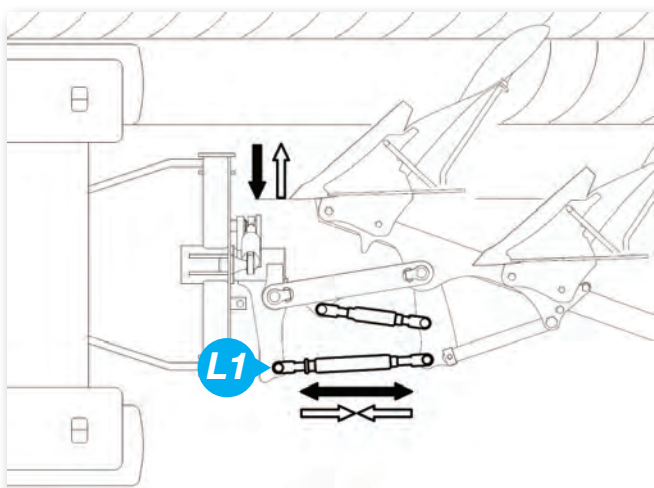
Maximum working width: 50 cm



The "SmoothSet" System allows fast front furrow width adjustment without altering the working width or other plough settings.

2

Set the working width of the first body



First body adjustment (L1)

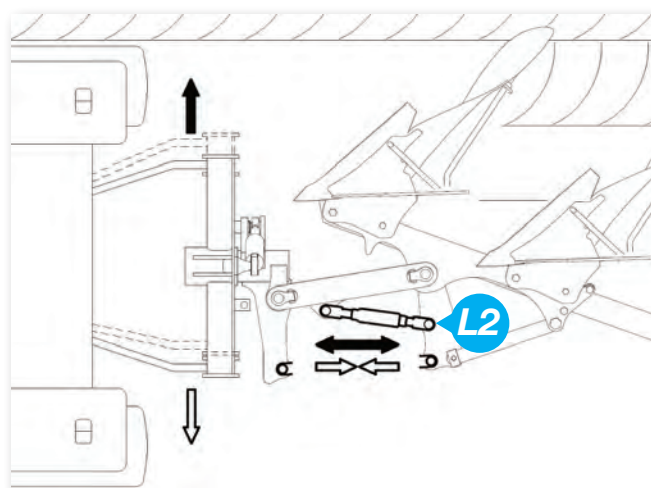
Different tyres and different working widths require the correct setting of the first body to ensure the suitable closure of the furrow behind the tractor. The adjustment system (L1) allows the operator to find the best setting simply and intuitively.

Tractor traction (L2)

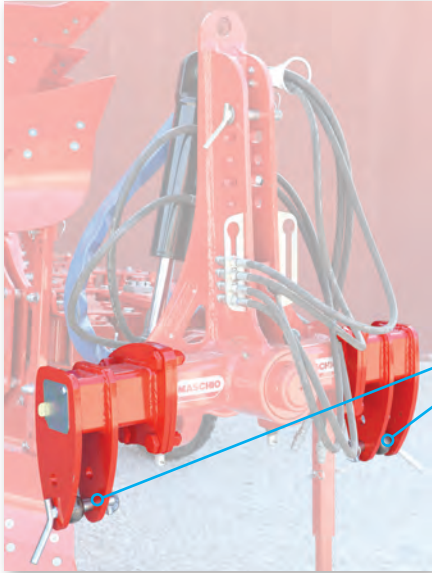
The traction / true line of the plough can be corrected in relation to the advance direction of the tractor through the adjustment of the mechanical linkage (L2). An adjustment table is supplied with a use and maintenance manual allowing the operator to find the right setting easily.

3

Correct traction adjustment



Heading: frame and equipment



Interchangeable headstock

The UNICO headstock has been designed to offer the best reliability and stability during operation and transport. The top link and turnover shaft are encased in one housing with bolt on interchangeable lower link fixings. This exclusive configuration allows the choice between rigid, steering or quick hitch bar connections facilitating a perfect match to any tractor.

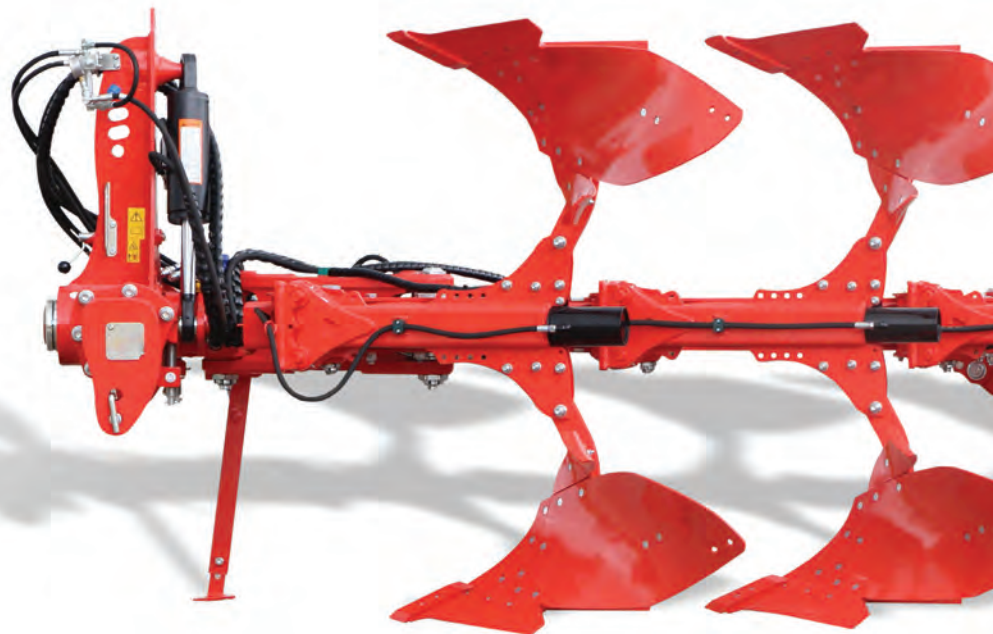
Interchangeable coupling in category II and III



Hydraulic couplings holder



Parts compartment



High quality painting

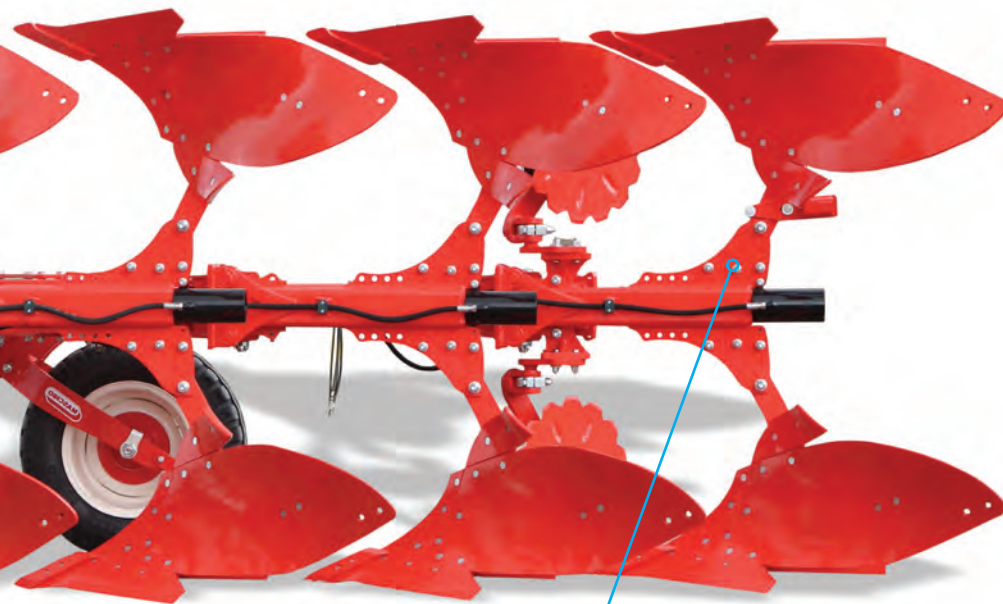
The frame and headstock are coated with a new powder paint providing maximum protection from the elements. The paint is applied in such a way that painted wearing metal, in contact with the ground, allows an optimum flow of the soil.

External frame & body

An additional body can be added to all models thereby extending the plough. This addition means the wheel mark is ploughed out allowing the operator to plough right to the edge of the field.



Extendible frame +1 body



Technical information (mm)	UNICO M	UNICO L
Beam chassis	120x120	140x140
Frame beam thickness	10	10
Ø pin head	100	120
Plough beam	70x40	80x40

Bolted machine

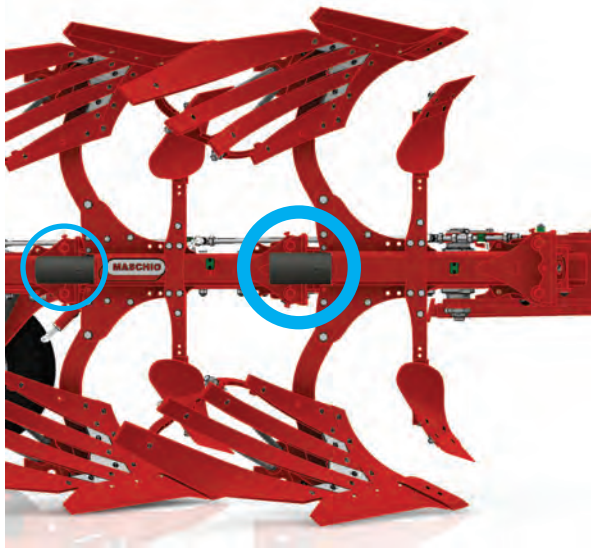
All supports and plates are bolted to the frame. The lack of welded points guarantees resistance, reliability and stability even under heavy stress.



Simple body change

Switching between different sizes and types of mouldboards is a straightforward job that involves loosening a few bolts on the frog. Slatted and conventional bodies are available.

Hydraulic Non stop safety system



Active safety system: NSH

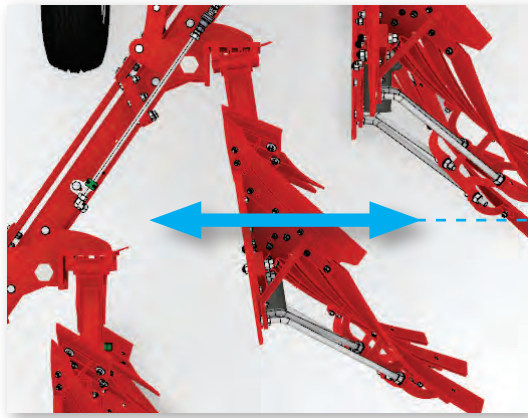
Hydraulic auto-reset is centralised through hydro-pneumatic circuit with piston nitrogen accumulator which makes for faster leg reset. The first body is fitted with a larger diameter cylinder for higher trip pressure as the leading point going into unbroken ground. The non stop system can be controlled on the move and allows both vertical and horizontal movement.

First body with an *increased section* of the cylinder for greater load.

Seeing is believing

The hydraulic auto-reset system has been designed for stony ground that would otherwise frequently break the shearbolt. Each body can raise completely to totally overcome the obstacle, and then return to the working position without having to stop the tractor.





360° protection

The new toggle device is arranged to absorb both vertical and horizontal shocks. Both the frame structure and the plough body are protected against stress.

HORIZONTAL TRAVEL

Peace of mind

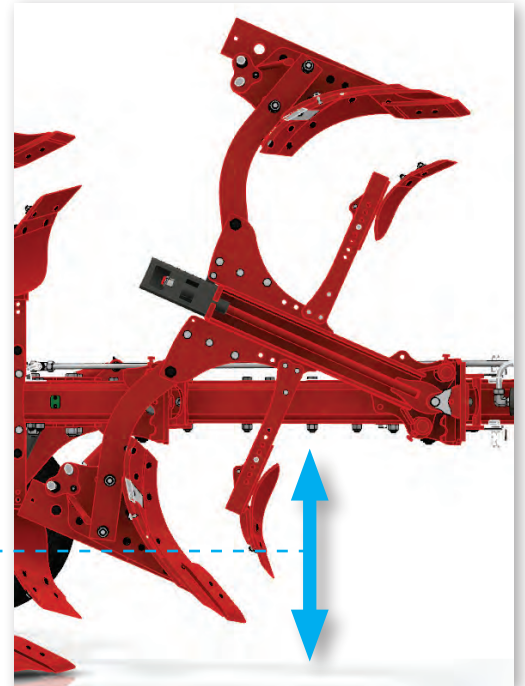
Each body is equipped with its own compensating accumulator which allows an upwards movement of about 40cm.



Body pre-load adjustment pressure gauge

For the correct setting of the safety system, a pressure gauge is supplied allowing the pressure to be controlled from the cab.

VERTICAL TRAVEL



Bolted safety system



Shearbolt system

The classic bolt solution is simple and reliable and is recommended for ground where there are occasional stones or obstacles.

Quick and simple

All bodies are fitted with 8.8mm or 10.9mm shearbolts. After the stress limit is exceeded the bolt shears, lifting the body and preventing damage to the machine. Replacement of the bolt is simple, even in the field.

Versatility and manoeuvrability

Safe on the road

In the transport position the plough is towed in the butterfly position. The wheel discharges some of the weight to the ground, thereby reducing pitching on smaller wheel-based tractors resulting comfortable and safe transport.



Intelligent in the field

Thanks to the combined wheel solution “Combi Wheel” the wheel always remains perpendicular to the ground – even when turning.



Soft cushion

Hydro-pneumatic suspension is an option for models with more than four furrows.



Combination depth /transport wheel

As well as in its conventional role in maintaining an even working depth the “Combi Wheel” is used to support the plough on the road, thereby reducing pitching on smaller wheel based tractors, to reduce stresses on both man and machine.



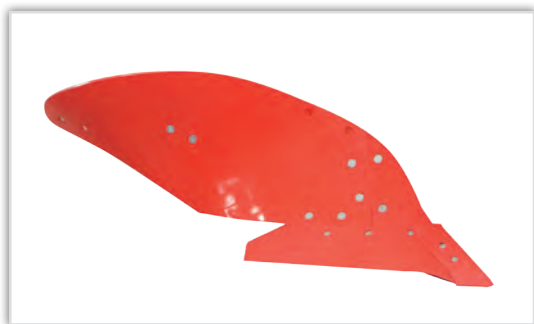
Technical information

TECHNICAL INFORMATION			Chassis	Head diameter	Clearance below frame	Body distance	Working width	3-point coupling	Weight	Tractor power			
			mm	mm	cm	cm	cm	category	Kg	HP			
UNICO M	BOLT	Passo	3E	120x120x10	100	80-87	95-105	(95): 30-35-40-45 (105): 33-38-44-50	2 or 3	810	90-110		
			4NE		120				2, 3, 3N	1070	120-140		
			4E		120				3 or 3N	1070	120-200		
		Vario	3E		120x120x10	100	81-87		95-105	30-53	2 or 3	810	90-110
			4NE			120					2, 3, 3N	1070	120-140
			4E			120					3 or 3N	1070	120-200
	NSH	Passo	3E	120x120x10	100	82-87	85-95	(85): 30-35-40-45 (95): 33-38-44-50	2 or 3	810	90-110		
			4NE		120				2, 3, 3N	1070	120-140		
			4E		120				3 or 3N	1070	120-200		
		Vario	3E		120x120x10	100	83-87		85-95	30-53	2 or 3	875	90-110
			4NE			120					2, 3, 3N	1155	120-140
			4E			120					3 or 3N	1155	120-200

TECHNICAL INFORMATION			Chassis	Head diameter	Clearance below frame	Body distance	Working width	3-point coupling	Weight	Tractor power		
			mm	mm	cm	cm	cm	category	Kg	HP		
UNICO L	BOLT	Passo	3E	140x140x10	100	80 - 87	95-105-115	(95): 30-35-40-45 (105): 33-38-44-50 (115): 36-42-48-54	3 or 3N	1120	120-150	
			4NE		1365					150-200		
			4E		1525					150-240		
			5E		1785					180-300		
		Vario	3E	140x140x10	100	80 - 87	95-105-115		30-53	3 or 3N	1245	120-150
			4NE		1525						150-200	
			4E		1685						150-240	
			5E		1965						180-300	
			5E		1965						180-300	
	NSH	Passo	3E	140x140x10	100	80 - 87	95-105-115	3 or 3N	1250	120-150		
			4NE		1550				150-200			
			4E		1750				150-240			
			5E		2050				180-300			
		Vario	3E	140x140x10	100	80 - 87	95-105-115		30-53	3 or 3N	1235	120-150
			4NE		1565						150-200	
			4E	1785	150-240							
			5E	2105	180-300							



The secret of ploughing is in the mouldboard



MP 4WS

Helical mouldboard.
Working depth from 15 to 30 cm.
Working width from 30 to 55 cm.
Winter and wet soil ploughing.



MP 4WN

Semi-helical mouldboard.
Working depth from 20 to 38 cm.
Working width from 30 to 55 cm.
Ideal on wet and heavy soil.



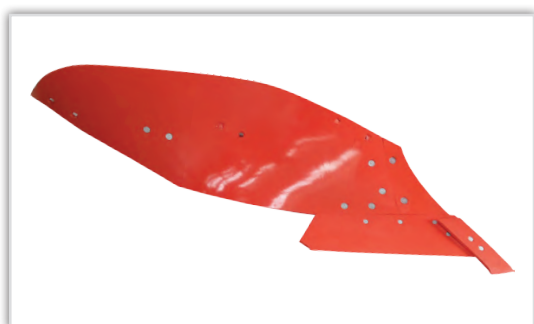
MP 4N

Semi-helical slatted mouldboard.
Working depth 20 - 40 cm.
Working width from 30 to 55 cm.
Suitable on medium clay soils.



MP 4QB

Cylindrical mouldboards.
Working depth up to 40 cm.
Working width from 30 to 50 cm.
Ideal on all soil types.



MP 4WD

Semi-helical mouldboard.
Working depth from 15 to 30 cm.
Working width 35 to 50 cm.
Excellent in all soil conditions.



Universal skimmer
Suitable to plough with few residues.



High capacity skimmer
Suitable to plough with high quantities of residues.



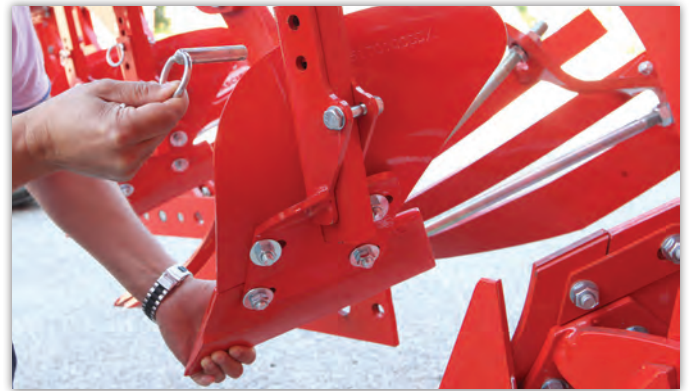
Maize skimmer
Excellent with straw and maize stalks.



Trashboard
To plough with few residues or to use together with skimmer when working with lot of residues.




Simple body change
Switching between different sizes and types of mouldboards is a straightforward operation that involves loosening a few bolts on the frog. Slatted and conventional bodies are available.

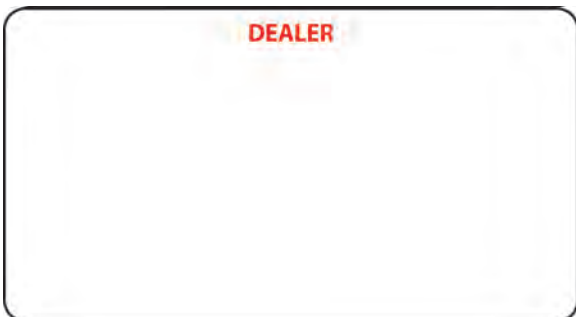


Skimmer adjustment
The rapid adjustment system of the skimmers means they can be changed by adjusting a single pin. Depth control for different residues can be altered easily and effectively.





distributed by 



MASCHIO distributed by OPICO Ltd
Cherry Holt Road, Bourne, Lincolnshire, PE10 9LA
Telephone: 01778 421111, Fax: 01778 425080
Email: ask@opico.co.uk, Website: www.maschio.co.uk

