





# PLOUGH RANGE

The new generation of MASCHIO GASPARDO ploughs combines operational reliability with a high quality of work in a completely renewed design. MASCHIO GASPARDO offers a complete range of mounted and semi-mounted reversible ploughs, both in- and out-of-furrow. These characteristics, together with the high resistance steels used and the wide selection of mouldboards and skimmer mouldboards, provide the right solution for every working condition.



## AGRONOMIC ADVANTAGES

- *Optimal breakup of clumps and better aeration of the ground*
- *Decompaction of the soil and consequent improved root development*
- *Increased storage capacity*
- *Turns under soil improvers, residual crops and weeds*
- *Turns the vegetative reproductive organs of perennial weeds onto the surface (bulbs and rhizomes), exposing them to the devitalising action of atmospheric agents*
- *Deeply buries both the wintering stages of harmful insects and the seeds of annual and biennial species, limiting their germination power*



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**MIRCO 8+1**



# MOULDBOARDS, SKIMMER MOULDBOARDS (UNICO and MIRCO)



**MP1XS** - Full mouldboard, semi-helical, ideal for medium/loamy soils.  
(Working depth 10-25 cm).



**MP4WP** - Full mouldboard, semi-helical, ideal for very sticky soils.  
(Working depth 20-30 cm).



**MP4WD** - Full-mouldboard, semi-helical, ideal for heavy/wet soils for tractors with wide wheels ( $\leq 800$  mm). (Working depth 15-30 cm).



**MP4WS** - Full mouldboard, helical, ideal for medium/humid soils.  
(Working depth 15-30 cm).



**MP4WN** - Full mouldboard, semi-helical, ideal for heavy/humid soils.  
(Working depth 20-30 cm).



**MP4N** - Mouldboard with slats, semi-helical version, ideal for heavy/humid soils.  
(Working depth 20-30 cm).



**MP6WC** - Full mouldboard, cylindrical, ideal for very clayey soils.  
(Working depth 30-45 cm).



**MP6WS** - Full mouldboard, semi-helical, ideal for very clayey soils.  
(Working depth 30-45 cm).



**MP4C** - Mouldboard with slats, cylindrical, ideal for sandy/loamy soils.  
(Working depth 25-40 cm).



**MP4WC** - Full mouldboard, cylindrical, ideal for sandy/loamy soils.  
(Working depth 25-40 cm).



**MP6C** - Mouldboard with slats, cylindrical, ideal for very clayey soils.  
(Working depth 30-45 cm).

MOULDBOARDS/ SIZES	MP1XS	MP4WS	MP4WN	MP4WP	MP4N	MP4WD	MP4WC	MP4C	MP4WR	MP6WS	MP6WC	MP6C
UNICO XS	•	-	-	-	-	-	-	-	-	-	-	-
UNICO S	•	◊	◊	-	-	-	-	-	-	-	-	-
UNICO M "classic line"	-	◊	•	◊	◊	◊	-	-	-	-	-	-
UNICO M	-	◊	•	◊	◊	◊	◊	◊	◊	-	-	-
UNICO L	-	-	•	◊	◊	◊	◊	◊	◊	-	-	-
UNICO XL	-	-	•	◊	◊	◊	◊	◊	◊	-	-	-
UNICO XL HD	-	-	•	◊	◊	◊	◊	◊	◊	◊	◊	◊
MIRCO	-	-	•	◊	◊	◊	◊	◊	◊	-	-	-
MIRCO XL HD	-	-	•	◊	◊	◊	◊	◊	◊	◊	◊	◊

• Standard    ◊ Optional

## INTELLIGENT SKIMMER MOULDBOARDS

### Quick and easy adjustment of the skimmer mouldboard

Using the pin adjustment system it is possible to change the working height of the skimmer mouldboards easily and quickly. To adjust their working depth, just remove the plug and move the flap to the top or bottom depending on the crops remaining in the field.



#### Maize skimmer mouldboard

Excellent with high amounts of straw and maize stalks.



#### Universal skimmer mouldboard

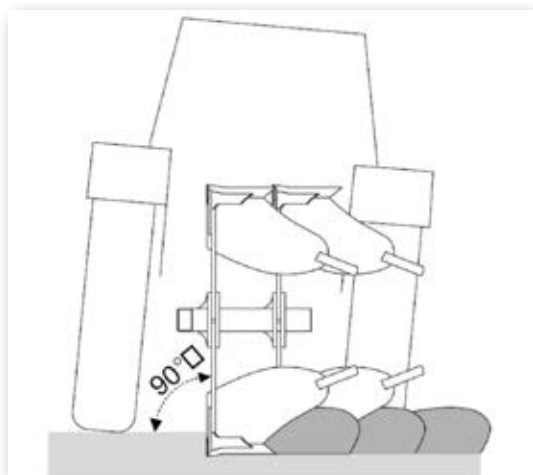
Suitable for use in intermediate residual conditions.



#### Deflector

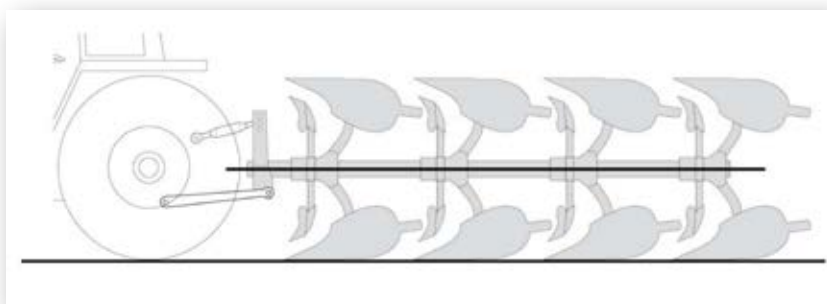
The deflector can be used together or in place of the skimmer mouldboards. It should be used when there are high quantities of residues, facilitating their burial.

## FRAME ADJUSTMENTS



### Vertical adjustment

The plough beams must be set perpendicular to the ground during ploughing. To adjust correctly, simply use the adjustment screws on the lower part of the head.



Adjust the main frame of the plough so that it is parallel to the ground by adjusting the third point.

# SAFETY SYSTEM (UNICO and MIRCO)

## 1

### **Shear bolt mechanical safety**

The classic bolt solution is simple and reliable, recommended for those terrains where the presence of stones and obstacles is occasional.

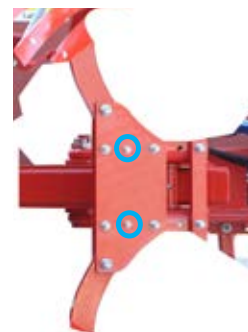


#### **Simple and quick**

All bodies are equipped with a shear bolt. After exceeding the breaking limit, the bolt is severed by lifting the body and preventing damage to the machine. Replacing the bolt is very simple and fast, even in the field.



**MAXIMUM  
PERFORMANCE!**



## 2

### **Active safety system: NSH**

With the NSH system, hydraulic jacks with hydraulically adjustable preloads from the cab allow the lifting of the working bodies in the event of a collision, returning to position as soon as the obstacle is overcome.



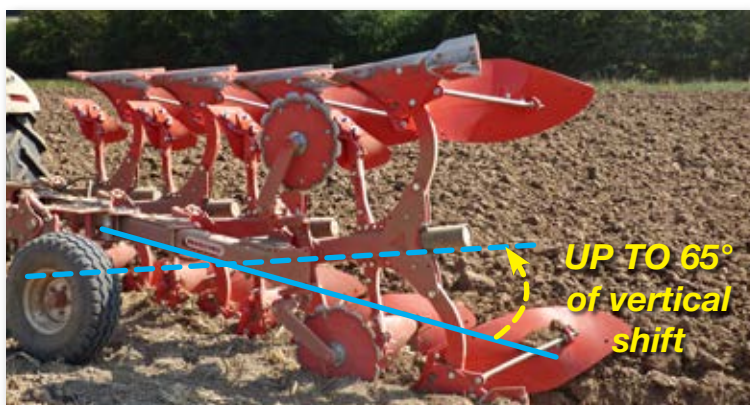
1st and 4th body with increased cylinder bore.

**In particularly onerous working positions, the first and the fourth body are equipped with jacks with increased bore to support a higher load.**

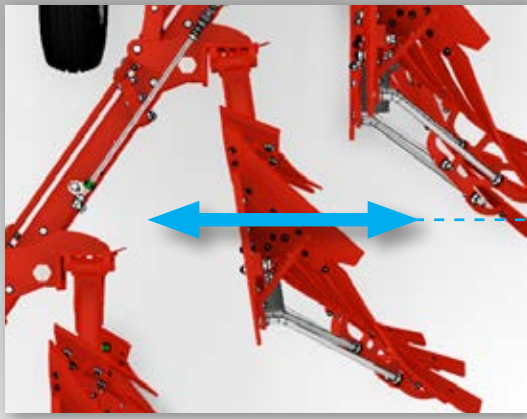
#### **Double safety: NSH + shear bolt**

This system is suitable for soils with large stones that with the bolt system would frequently break and possibly damage the structure. Each body can rise completely until the obstacle is completely surpassed and then return to the working position without having to stop the tractor.

If the pressure applied to the mouldboard should be too high for the NSH system, the shear bolt will be sliced, avoiding possible breakage.



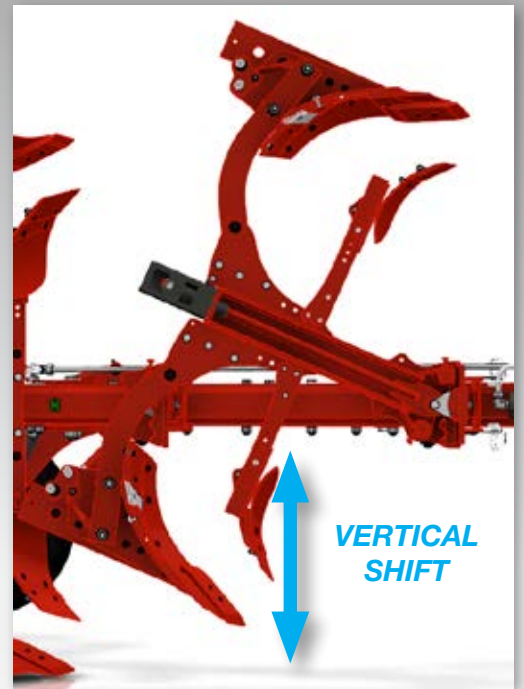




**HORIZONTAL  
SHIFT**

### **Full protection**

The new toggle device is designed to absorb both vertical and horizontal impacts. Thanks to this solution, both the frame structure and the body itself are protected against stress.



**VERTICAL  
SHIFT**



### **It bends but does not break**

Each machine is equipped with a nitrogen accumulator with pistons that allows the management of hydraulic oil overpressures in the event of obstacles, responding quickly to bring the body back into working position once it has passed.

### **The pressures vary, but without losses**

Depending on the terrain and how it is used, the hydraulic system pressure can be easily adjusted from the tractor cab. To reduce it, all the oil will return inside the tractor hydraulic system without spills.



**NO OIL LOSS!**

### **Pressure gauge for body preload adjustment**

For a correct setting of the safety system, a pressure gauge is supplied that allows rapid management of the hydraulic circuit pressure.

# UNICO

## For professional ploughing:



### **Parallelogram frame: SMOOTH SET**

The SMOOTH SET parallelogram frame has an innovative adjustment system that:

- Corrects the ploughing for better use of the tractor
- Adjusts the first body even when the machine is moving (without changing the working width of the other bodies)
- Adjusts the working width

This characteristic of the frame allows very quick settings. Moreover, all the functions are intuitive and simple to adjust, so it is easy to adapt the plough to the terrain, the amount of residue and the working depth.

## SET THE WORKING WIDTH

### **Mechanical adjustment (PASSO)**

The working width mechanical adjustment system is simple and robust. Thanks to the five settings it is possible to find the best configuration in just a few steps.



### **Continuous hydraulic adjustment with automatic memory (VARIO)**

The hydraulic working width adjustment system is both quick and versatile and allows adjusting the width even during work. The variable adjustment, from 30 to 55 cm for each body according to the type of mouldboard used, allows perfect adaptation to any condition and is particularly useful for finishing field edges. The working width is changed with a hydraulic jack acting on the specific controls of the hydraulic power unit.

*From the second half of 2019 the new jacks will have valves incorporated in the cylinder body.*

**Minimum working width: 30 cm**

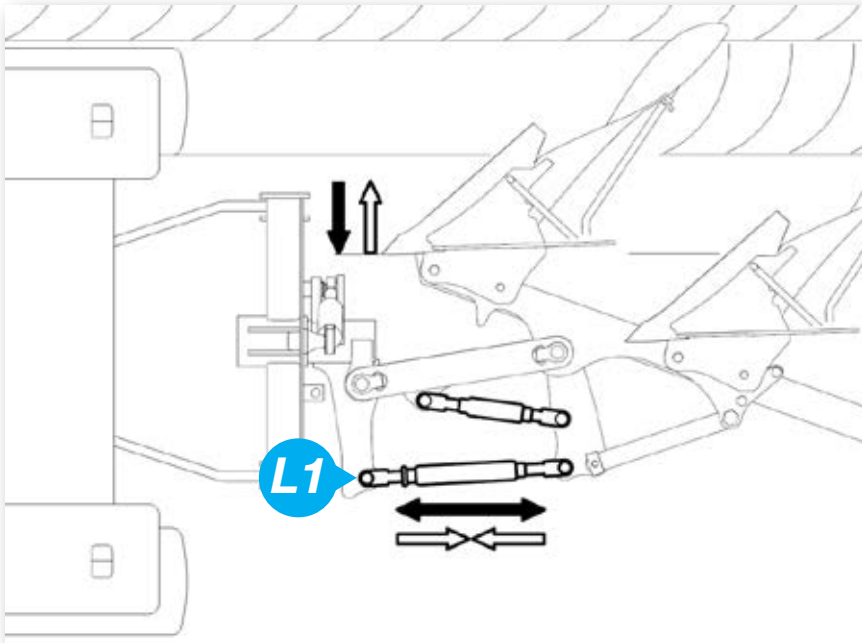


**Maximum working width: 55 cm**





# Simple and fast adjustments



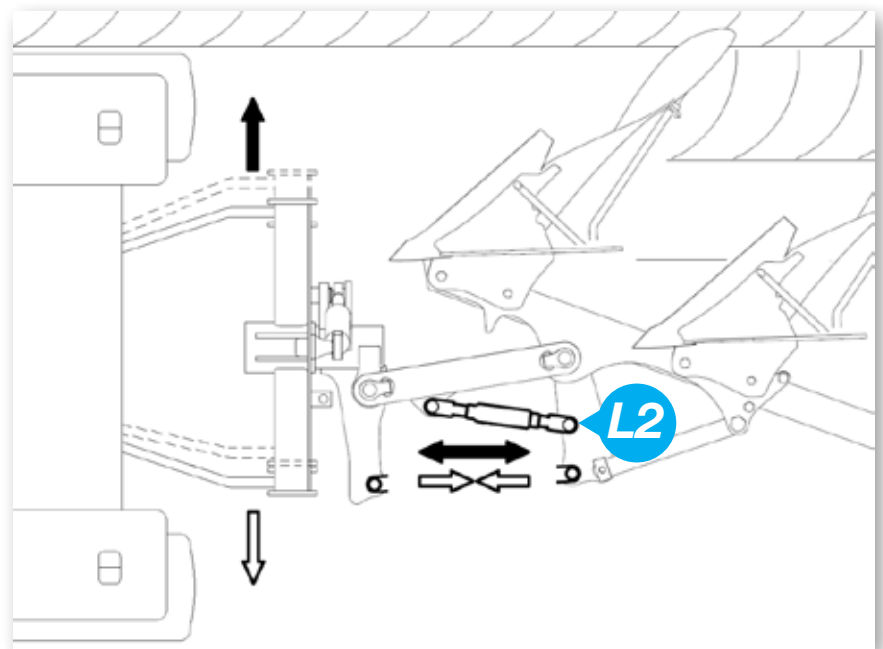
## **SETTING THE WORKING WIDTH OF THE FIRST BODY**

Different treads and different working widths require a correct setting of the first body to ensure adequate furrow closure behind the tractor. The regulation system (L1) allows finding the correct setting in a simple and intuitive way. If the front furrow is too tight, simply extend the external jack (mechanical or hydraulic with automatic memory) or vice versa.

## **GOUGE ADJUSTMENT**

By adjusting the mechanical or hydraulic jack (L2), the plough's gouge can be corrected with respect to the tractor's direction of travel.

This adjustment eliminates the lateral thrust, optimising the layout of the traction points and reducing the stress on the plough and tractor. This way it is possible to increase the level of comfort, at the same time achieving a reduction in slippage and fuel consumption.



**Extendible frame**



**Storage compartment**



**Hydraulic coupling compartment**



**Disc coulter**

# IT IS POSSIBLE TO WORK WITH A LIMITED NUMBER OF HYDRAULIC DISTRIBUTORS



## ***Attentive to every detail***

With the latest update, to guarantee the best protection of the hydraulic tubes, high-strength textile sheaths were used, ensuring maximum resistance to mechanical stress.





### ***New keypad***

The new keypad allows activating or deactivating the tool's hydraulic functions. With it the galvanised filters are standard.

#### ***[VARIO]***

Hydraulic adjustment of the working width.

#### ***[NSH]***

Adjustment of the hydraulic pressure.

#### ***[WHEEL]***

Adjustment of the working depth.



#### ***[1ST BODY]***

Adjusting the working width of the first body.

#### ***[NO ALIGNMENT]***

Allows disabling/excluding alignment of the bodies in the rotation phase for the end-of-field operations.



# WE FOCUS ON QUALITY



## **Interchangeable head**

The head has been designed to offer maximum stability and solidity in the connection to the tractor. The third point and the rotation pin are part of a central body incorporated in the plough, while the attachments for the lift are bolted onto removable flanged bodies.



## **BENEFITS**

- Possibility of rapidly changing from fixed head configuration to oscillating
- Possibility of changing in a few seconds to attachments of different categories
- Moreover, two possible heights for connecting to the lifter to be able to adapt to tractors with wheels of different sizes

2nd and 3rd category interchangeable connections

## **High quality painting**

The new powder system ensures a quality coating that guarantees maximum protection of the frame and the head over time. A special paint – called peelable – is applied to the parts that are actively in contact with the ground, keeping the plough in perfect aesthetic condition until the moment of its first use in the field.

With the ploughing the paint will be worn off (leaving only the hardened steel in contact with the ground), optimizing the flow of the soil, improving the rotational performance of the dirt clumps and decreasing resistance to traction.



## **Bolted machine**

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



# A wheel for every taste

## Smart wheels

MASCHIO GASPARDO ploughs can be equipped with:

- Front or rear depth wheel with mechanical adjustment with shock absorber
- Front or rear combined depth and transport wheel with mechanical or hydraulic adjustment



The **FRONT OR REAR DEPTH WHEEL WITH MECHANICAL ADJUSTMENT** allows increasing or decreasing the depth simply by acting on the adjustment screw.



The **COMBINED DEPTH AND TRANSPORT WHEEL WITH MECHANICAL ADJUSTMENT** (front or rear) allows road transport of the plough and the adjustment of the working depth during ploughing. For correct adjustment it is sufficient to act on the mechanical tie rod.



The **COMBINED DEPTH AND TRANSPORT WHEEL WITH HYDRAULIC ADJUSTMENT** (front or rear) allows adjusting the depth directly from the tractor, making it the most comfortable and convenient to use. The shock absorber minimises the stress on the chassis caused by bumpy roads. At the same time, the increased wheel support guarantees durability and strength even at the highest transport speeds, avoiding cracks along the weld. **NITROGEN ACCUMULATOR INCLUDED AS STANDARD.**

## Safe on the road

In the transport position the plough is towed in the "butterfly" position. This way the wheel discharges part of the weight onto the ground, limiting the pitching even with tractors having reduced wheelbase and allowing a comfortable and safe transport.



Technical specifications	UNICO XS	UNICO S	UNICO M Classic Line	UNICO M	UNICO L	UNICO XL	UNICO XL IN/OUT-OF-FURROW
FRAME BEAM (mm)	90x90	110x110	120x120	120x120	140x140	160x160	160x160
ø HEAD PIN (mm)	65	90	100	100-120	120-130	130	130
PLOUGH BEAM + GROUND CLEARANCE (cm)	80x25 h. 70	80x30 h. 80	80x30 h. 80	80x30 h. 80 80 80x30 h. 87	80x30 h. 80 80x30 h. 87 (HD) 80x35 h. 87	80x35 h. 80 80x35 h. 87 (HD) 90x40 h. 90	80x35 h. 80 80x35 h. 87 (HD) 90x40 h. 90

# UNICO XS

from 55 to 90 hp

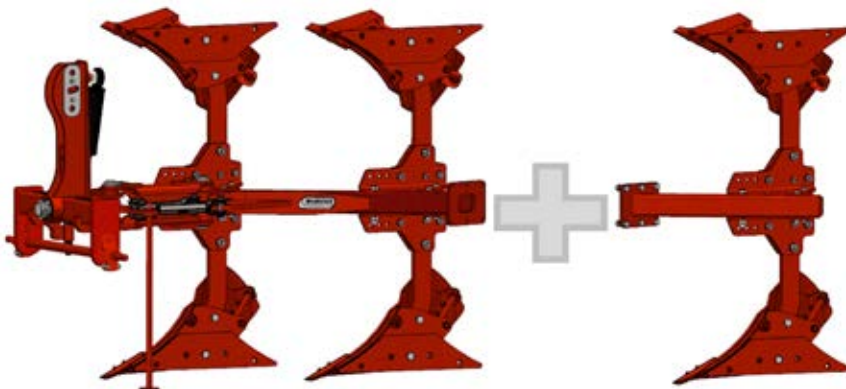


## UNICO XS

is a mounted, reversible plough for in-the-furrow ploughing. It can mount 2 or 2+1 bodies, and this makes it suitable for coupling with medium/low-power tractors (55-90 hp).

## 2+1

Thanks to a joining plate it is possible to add an additional working body. With some bolts, the operation can be completed in a few moments.



## Small but indestructible

Frame and support plates are specifically designed to ensure maximum strength.



# Small, but tough!



## ***It gets around with ease***

The plough's robust rotation mechanism is hydraulic and ensures precise and uniform rotation on both sides.



***Fixed head with a 2nd category 3-point attachment.***

## ***Adjustment of the mechanical working width (PASSO)***

Thanks to 2 mechanical jacks it is possible to correctly configure the parallelogram frame. The working width of the first body is adjusted with the outermost jack, while the inner jack is used to correctly set the plough gouge, making the traction line coincide with that of the tractor, reducing lateral drift and achieving ideal operation.



***LOWER VIBRATIONS,  
LESS TRACTOR DRIFT!***



## ***Safety system with shear bolts***

The shear bolt safety system protects the frame and working bodies from any hidden obstacles below the surface.



***Rear wheel with a section width of 138 mm and a diameter of 480 mm.***

UNICO XS	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	No BODIES	FRAME	Ø HEAD	CLEARANCE UNDER THE FRAME	[BODY DISTANCE] (WORKING WIDTH)	THREE-POINT ATTACHMENT category	WEIGHT	POWER ABSORBED
				mm	mm	cm	cm		kg	HP
	BOLT	PASSO	2E	90x90	65	70	[85] (27-31-36-40-45)	II	480	55-70
			2+1						640	75-90



# **UNICO S** *up to 120 hp* **UNICO M “classic line”** *up to 150 hp*



**UNICO M 3E**

UNICO S and M "Classic Line" are two mounted reversible ploughs with a parallelogram frame for in-the-furrow working, suitable for medium-power tractors.

### ***The right size for every need***

Both are "lightweight" ploughs that have all the robustness and practicality of the larger models. Both can have oscillating or fixed heads.



**UNICO M 3E**



**HIGH-RESISTANCE STEEL COMPONENTS**

### ***Usable anywhere***

Thanks to the generous distance between the bodies (95-105 cm) and the high ground clearance of 80 cm, maximum versatility is guaranteed.



# Simple and intuitive

**UNICO S:**  
FRAME 110X110 mm  
HEAD Ø 90 mm  
CLEARANCE UNDER THE  
FRAME 80 cm

**UNICO M "Classic Line":**  
FRAME 120X120 mm  
HEAD Ø 100 mm  
CLEARANCE UNDER THE FRAME  
80 cm

**UNICO M 4E**

## Wide selection

Both models can be extended and, if necessary, offer the possibility of adding a further working body. They can also have:

- Shear bolt or NSH safety system
- Mechanical (PASSO) or hydraulic (VARIO) working width adjustment

Only rear wheels are available for all versions of UNICO S.

UNICO S	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	NO. OF BODIES	[BODY DISTANCE] AND (WORKING WIDTH) cm	THREE-POINT ATTACHMENT category	WEIGHT kg	POWER ABSORBED HP
	BOLT	PASSO	2E	[95] (30-35-40-45-50)	II	660	65-80
			3E	[105] (33-38-44-50-55)		840	85-100
			3+1			1020	100-120
		VARIO	3E	[105] (30-55)		890	85-100
			3+1			1090	100-120
		NSH	PASSO	2E		[95] (30-35-40-45-50)	II
	3E			[105] (33-38-44-50-55)	1020	85-100	
	3+1				1250	100-120	
	VARIO		3E	[105] (30-55)	1070	85-100	
			3+1		1320	100-120	

UNICO M - "Classic Line"	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	NO. OF BODIES	[BODY DISTANCE] AND (WORKING WIDTH) cm	THREE-POINT ATTACHMENT category	WEIGHT kg	POWER ABSORBED HP
	BOLT	PASSO	3E	[95] (30-35-40-45-50)	III N - III	830	95-120
			4E			1146	120-150
			4+1			1366	150-160
		VARIO	3E	[95] (30-55)		925	95-120
			4E			1284	120-150
			4+1			1559	150-160
	NSH	PASSO	3E	[95] (30-35-40-45-50)		950	95-120
			4E			1225	120-150
			4+1			1500	150-160
		VARIO	3E	[95] (30-55)		1200	95-120
			4E			1540	120-150
			4+1			1870	150-160



# **UNICO M** *up to 200 hp* **UNICO L** *up to 300 hp*

## **UNICO L 4E**

UNICO M and L are two mounted reversible ploughs for in-the-furrow working, suitable for medium/high-power tractors. Both have a sturdy frame, respectively measuring 120x120 mm and 140x140 mm.



### **PACKER roller arm (PACKER ARM)**

All the UNICO models have a front plate on which a side arm can be mounted to carry a PACKER roller. The combination of plough and roller allows compacting and refining the freshly ploughed soil, limiting water losses by evaporation and allowing both sowing and optimal germination in a single pass.



# Never change a winning plough

## Uniform work surface


The combined work of the wheel and the head adjustments allows keeping the plough parallel to the ground for a uniform work surface.



UNICO M	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	NO. OF BODIES	Ø HEAD	CLEARANCE UNDER THE FRAME	[BODY DISTANCE] (WORKING WIDTH)	THREE-POINT ATTACH-MENT category	WEIGHT	POWER ABSORBED	
				mm	cm	cm		kg	HP	
	BOLT	PASSO	3E	100	80 - 87	[85] (27 - 31 - 36 - 40 - 45) [95] (30 - 35 - 40 - 45 - 50) [105] (33 - 38 - 44 - 50 - 55)	III N - III	975	100-140	
			4NE	100				1235	140-170	
			4E	120				1390	140-200	
			4+1	120				1390	180-210	
		VARIO	3E	100		[85 - 95 -105] (30÷55)		1095	100-140	
			4NE	100				1375	140-170	
			4E	120				1495	140-200	
			4+1	120				1495	180-210	
NSH	PASSO	3E	100	[85] (27 - 31 - 36 - 40 - 45) [95] (30 - 35 - 40 - 45 - 50)		1230		100-140		
		4NE	100			1480		140-170		
		4E	120			1650		140-200		
		4+1	120			1650		180-210		
	VARIO	3E	100	[85 - 95] (30-55)		1550		100-140		
		4NE	100			1605		140-170		
		4E	120			1815		140-200		
		4+1	120			1815		180-210		
UNICO L	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	NO. OF BODIES	Ø HEAD	CLEARANCE UNDER THE FRAME	[BODY DISTANCE] (WORKING WIDTH)	THREE-POINT ATTACH-MENT category	WEIGHT	POWER ABSORBED	
				mm	cm	cm		kg	HP	
	BOLT	PASSO	3E	120	80 - 87	[95] (30 - 35 - 40 - 45 - 50) [105] (33 - 38 - 44 - 50 - 55) [115] (36 - 42 - 48 - 54 - 60)	III N - III	1120	120-160	
			4NE	120				1365	160-200	
			4E	130				1525	160-240	
			5E	130				1785	240-300	
			5+1	130		1785		270-310		
			VARIO	3E		120		[95 - 105 -115] (30 ÷ 55)	1245	120-160
				4NE		120			1525	160-200
				4E		130			1685	160-240
5E		130		1965		240-300				
5+1		130	1965	270-310						
	NSH	PASSO	3E	120		[95] (30 - 35 - 40 - 45 - 50) [105] (33 - 38 - 44 - 50 - 55)		1250	120-160	
4NE			120	1560				160-200		
4E			130	1750				160-240		
5E			130	2050				240-300		
5+1		130	2050	270-310						
VARIO		3E	120	[95 - 105] (30÷55)		1235		120-160		
		4NE	120		1565	160-200				
		4E	130		1785	160-240				
	5E	130	2105		240-300					
5+1	130	2105	270-310							



# UNICO XL IN-THE-FURROW and OUT-OF-FURROW *up to 350 hp*



## UNICO XL 3E

UNICO XL is a reversible mounted plough for in-the-furrow and/or out-of-furrow working, with the number of bodies ranging from 3 to 6 and that can be used with medium/high-power tractors.

### **Performance guaranteed**

To be able to adapt to any type of terrain, the frame and the most highly stressed parts were strengthened and the beams of the skimmer mouldboards reinforced. Moreover, for each ploughshare bolted chisels with tungsten carbide inserts have been mounted ensuring maximum resistance to wear.

With the new reinforced high landsides, UNICO XL ensures an ideal compaction of the soil near the cutting area, avoiding the descent of soil inside the ploughed furrow.



### **HEAVY DUTY (HD) IN-FURROW/OUT-OF-FURROW version**

In its HD version, the plate for the plough beam coupling plates has been reinforced. Furthermore, the sections of the plough beam have been increased to 90x40 mm and coupled to 15 mm plough beam coupling plates.



### **Benefits of OUT-OF-FURROW ploughing**

- No plough sole created by the slippage of the tyres inside the furrow
- No wear on the inside of the tyres
- Limited vibrations (maximum comfort for the operator)



### **Benefits of IN-FURROW ploughing**

- Burying of sludge and manure
- Greater precision in the absence of parallel driving

**FRAME 160X160 mm**  
**HEAD Ø 130 m**



# In-furrow or Out-of-furrow...in seconds!

## Parallelogram UNICO XL IN-FURROW/OUT-OF-FURROW



In just a few seconds, UNICO XL IN-FURROW/OUT-OF-FURROW lets you switch from an in-furrow plough to an out-of-furrow plough (and vice-versa) thanks to a simple hydraulic mechanism, combining the benefits of in-furrow and out-of-furrow ploughing in a single machine.



UNICO XL	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	NO. OF BODIES	VERSION	CLEAR-ANCE UNDER THE FRAME	[BODY DISTANCE] (WORKING WIDTH)	THREE-POINT ATTACH-MENT category	WEIGHT	POWER AB-SORBED
					cm			kg	HP
						cm			
	IN-FURROW	PASSO	3E	STD	80 (87)	[105] (33-38-44-50-55)	III	1330	140-190
			HD	90	1480			150-205	
			4E	STD	80 (87)	[115] (36-42-48-54-60)		1790	170-225
			HD	90	1990			190-250	
			5E	STD	80 (87)	[105] (33-38-45-50-55)		2130	200-270
			HD	90	2380			240-300	
			5+1	STD	80 (87)			2475	270-320
			HD	90	2775			300-350	
		VARIO	3E	STD	80 (87)	[105 - 115] (30÷55)		1730	140-190
			HD	90	1880			150-205	
			4E	STD	80 (87)			2235	170-225
			HD	90	2435			190-250	
			5E	STD	80 (87)			2630	200-270
			HD	90	2880			240-300	
			5+1	STD	80 (87)			3025	270-320
			HD	90	3325			300-350	
	IN-FURROW/OUT-OF-FURROW	PASSO	3E	STD	80 (87)	[105] (33-38-44-50-55)		1380	140-190
			HD	90	1530			150-205	
			4E	STD	80 (87)	[115] (36-42-48-54-60)		1840	170-225
			HD	90	2040			190-250	
			5E	STD	80 (87)	[105] (33-38-45-50-55)		2180	200-270
			HD	90	2430			240-300	
			5+1	STD	80 (87)			2575	270-320
			HD	90	2875			300-350	
		VARIO	3E	STD	80 (87)	[105 - 115] (30÷55)		1780	140-190
			HD	90	1930			150-205	
			4E	STD	80 (87)			2285	170-225
			HD	90	2485			190-250	
			5E	STD	80 (87)			2680	200-270
			HD	90	2930			240-300	
			5+1	STD	80 (87)			3075	270-320
			HD	90	3375			300-350	



# MIRCO

up to 500 hp

**MIRCO 8+1**

## **Ultimate ploughing**

MIRCO, a semi-mounted reversible plough for in-furrow and/or out-of-furrow working with a number of bodies ranging from 6 to 9, is bursting with quality and technology that guarantee top performance. All adjustments can be managed directly from the cab.

## **FRAME 160X160 mm**

### **HEAVY DUTY (HD) IN-FURROW/OUT-OF-FURROW version**

Thanks to the toggle system that can be adjusted by means of an independent jack directly from the tractor cab, it is possible to switch from in-furrow ploughing to out-of-furrow ploughing in just a few seconds.



## **Perfect depth control**

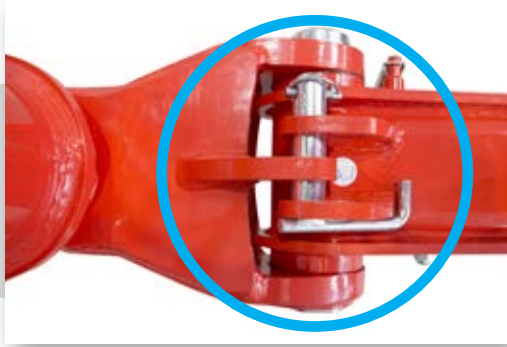
The working depth is controlled by a rubber wheel (two in the in-furrow/out-of-furrow version for greater support) in order to obtain a precise work surface.



# New look, new improvements

## ***The latest developments for 2018 guarantee durability***

The new third point limits the stress on the tractor; there are also new anchor plates with larger screws (Ø 20 mm), new plough beams with increased cross-sections (80x35 mm) and spacer bushes with a diameter of 45 mm, actually expanding the contact surface inside the side plates. Thanks to plough beams with an increased cross-section (90x40 mm) and a 90 cm clearance under the frame, the HD version guarantees greater durability and better residue management.



### ***New parking pin on the head***

The new pin allows safe parking of the plough head. The same pin is used for attachment to the third point of the tractor. This way the hitching and unhitching operations are simple and safe.

### ***Always level***

In a few seconds, with the removable screw inserted, it is possible to adjust the verticality of the plough. And just as quickly, simply by extracting the screw, it is possible to guarantee parking that is perfectly level.



***New articulated joint reinforced on the rear wheel.***



- ***EFFECTIVE AND EFFICIENT SYSTEMS***
- ***MORE DURABLE***

### ***Centralised greasing***

Thanks to the new centralised greasing system it is possible to reach all the greasing points at once.





# ADJUSTMENTS FOR EFFECTIVE PLOUGHING



## **Mechanical adjustment (PASSO)**

The working width mechanical adjustment bolt system is simple and intuitive. Thanks to the five available settings you can find the most suitable configuration (33-38-44-50-55 cm).



## **Continuous hydraulic adjustment (VARIO)**

This system allows you to change the working width even while working thanks to a hydraulic jack that can be adjusted directly from the cab.

The adjustment varies from 30 to 55 cm for each body.



## **Adjustment of the first body**

To adjust the working width of the first body, it is sufficient to adjust the length of the mechanical tie rod or of a hydraulic cylinder (depending on the selected configuration).



## **Gouge adjustment**

With the new gouge adjustment it is possible to carry out the appropriate macro and micro corrections, allowing the tractor to discharge all the power into the ground, limiting the stress to the tractor and plough.



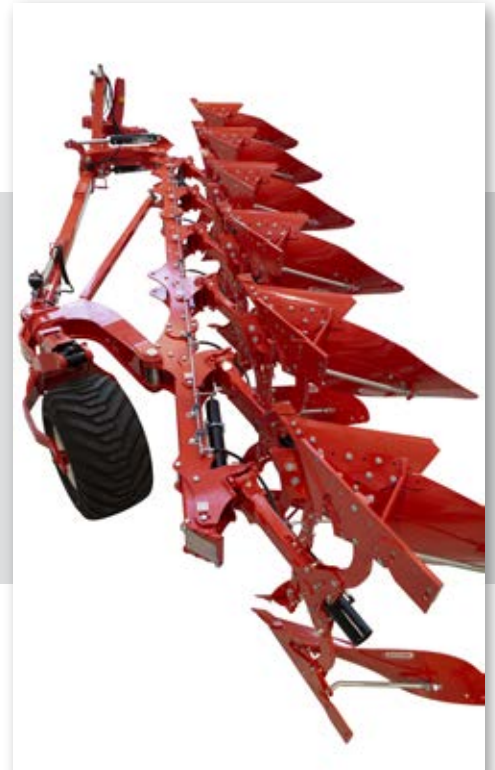


# Superior durability...maximum agility



## ***New triangle system***

The central adjustment rod – mechanical or hydraulic – creates a triangle structure that allows the forces to be discharged directly on the rear wheel. This makes it possible to stiffen the frame geometry, avoiding bending and improving the stability of the whole structure during ploughing.



***LESS TIME AND SPACE LOST WHEN TURNING  
AND SHORTER HEADLANDS!***



***The 1st and the 2nd points have a new  
anti-rotation seat and a new pin.***

## ***Agility is its strength***

The articulated head allows a rotation angle up to 105° (limited turning radius) allowing delayed and easy turning at the headland.

To guarantee the inversion of the plough, two hydraulic cylinders are used that allow easy rotation without backlashes.





# ***PLOUGHING IN EVERY CONDITION***



## ***Working depth in furrow and out of furrow***

The rear wheel, 500 mm wide and 945 mm high, creates a large support surface, reducing trampling and ensuring maximum performance even in wet terrain, preventing the plough from getting stuck.

In order to guarantee a uniform working depth, the out-of-furrow versions have a front wheel that is more than 300 mm wide supplied as standard, which makes it easier to follow the terrain more precisely.

## ***Generous clearance***

Thanks to the ample ground clearance of 80 cm (90 cm in the HD version) and the generous distance between the bodies (105 cm), MIRCO guarantees maximum versatility of use by offering the possibility of working even with abundant crop residue.



## ***HEAVY DUTY frame***

***The 160x160x10 mm frame is made of high-strength steel. This has allowed us to create a product with a low weight while guaranteeing maximum durability and excellent reliability.***





# Maximum grip



## New for 2019

Wheels with new profiles for a better grip and an excellent outflow of soil and mud from the tread (500/50-17 and Ø945 x 500 mm).

## When necessary it helps you to brake

The 550/45-22.5 wheel with Ø1070 X 550 mm rim and pneumatic braking system are also available. This intelligent option allows increasing the level of safety during road transport.



## It never stops

With the 2018 update, the rear wheel support has been reinforced, leaving more space between it and the wheel. This way it is possible to plough without limits, even in non-ideal conditions, avoiding any kind of clogging.

MIRCO	SAFETY SYSTEM	WORKING WIDTH ADJUSTMENT	NO. OF BODIES	VERSION	CLEAR-ANCE UNDER THE FRAME	[BODY DISTANCE] (WORKING WIDTH)	THREE-POINT ATTACH-MENT category	WEIGHT	POWER AB-SORBED	
					cm	cm		kg	HP	
	BOLT	PASSO	6E	STD	80	[105] (33-38-44-50-55)	III	3580	230-280	
				HD	90	[115] (36-42-48-54-60)		3880	280-330	
			7E	STD	80			3820	260-300	
				HD	90			4170	310-360	
			8E	STD	80	[105] (33-38-45-50-55)		4060	290-350	
				HD	90			4460	340-400	
			8+1	STD	80			4860	380-420	
				HD	90			5310	450-500	
		VARIO	6E	STD	80	[105 - 115] (30÷55)		3840	230-280	
				HD	90			4140	280-330	
			7E	STD	80			4150	260-300	
				HD	90			4500	310-360	
			8E	STD	80			4460	290-350	
				HD	90			4860	340-400	
			8+1	STD	80			5260	380-420	
				HD	90			5710	450-500	
	NSH	PASSO	6E	STD	80	[105] (33-38-44-50-55)		3650	230-280	
				HD	90	[115] (36-42-48-54-60)		3950	280-330	
			7E	STD	80			4210	260-300	
				HD	90			4560	310-360	
			8E	STD	80	[105] (33-38-45-50-55)		4820	290-350	
				HD	90			5220	340-400	
			8+1	STD	80			5620	380-420	
				HD	90			6070	450-500	
		VARIO	6E	STD	80	[105 - 115] (30÷55)		3970	230-280	
				HD	90			4270	280-330	
			7E	STD	80			4540	260-300	
				HD	90			4890	310-360	
			8E	STD	80			5220	290-350	
				HD	90			5620	340-400	
			8+1	STD	80			6020	380-420	
				HD	90			6470	450-500	

