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
Mounted reversible plough

WITHOUT COMPARISON
The UNICO model combines the latest Maschio Gaspardo plough technologies and is built according to versatility and reliability concepts for ploughing quality.

UNICO L 4+1

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 interchange-ability 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.

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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.

3

**Correct traction adjustment**

**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.
**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

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.

<table>
<thead>
<tr>
<th>Technical information (mm)</th>
<th>UNICO M</th>
<th>UNICO L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam chassis</td>
<td>120x120</td>
<td>140x140</td>
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<tr>
<td>Frame beam thickness</td>
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<td>Ø pin head</td>
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<td>120</td>
</tr>
<tr>
<td>Plough beam</td>
<td>70x40</td>
<td>80x40</td>
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</table>
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.

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.

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

<table>
<thead>
<tr>
<th>Chassis</th>
<th>Head Diameter</th>
<th>Clearance Below Frame</th>
<th>Body Distance</th>
<th>Working Width</th>
<th>3-point Coupling</th>
<th>Weight</th>
<th>Tractor Power</th>
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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.
For graphic reasons, some pictures and images do not show the “EC” safety guards. Technical datas and models shown in this catalogue are not binding. We reserve the right to revise the contents of this catalogue, to amend or improve the specifications without notice.