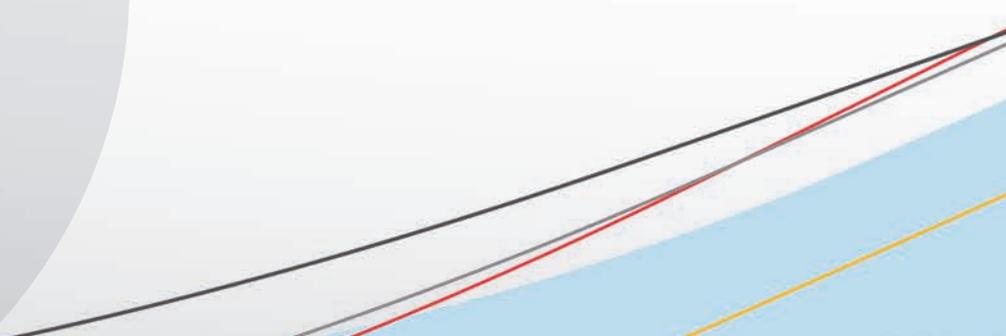




REVERSIBLE PLOUGHS

Innovative Tillage Technology





OVLAC

MORE THAN 80 YEARS EXPERIENCE

In tillage equipment

Ovlac is a **family-owned company** which has been manufacturing farming equipment **since 1936**. Since its beginnings, Ovlac has focused its activity in manufacturing **mouldboard ploughs** which have been the company's flagship product for decades and still is today.

Over the last 15 years, the Ovlac product range has expanded to include other soil working tools such as Cultivators, Chisels and **Short Disc Harrows**. Today, Ovlac is being run by its third generation and is **the biggest Spanish soil working equipment manufacturer**.

Ovlac exports around 60% of its production to more than 20 countries. Competitive and demanding markets such as France, Germany and the United Kingdom, or beyond Europe to the likes of Chile, South Africa, New Zealand or China.

Thanks to our **state of the art manufacturing techniques**, and our **in-house R&D department**, we can guarantee a high quality throughout our products. Ovlac is determined to produce products of the highest quality, this is ingrained into our day-to-day manufacturing processes. Every step and decision taken in our company is carried out to meet our main goal: to offer our clients reliable products they can be proud of.



RANGE: THE RIGHT MODEL TO FIT YOUR TRACTOR

Ovlac's range of reversible ploughs is made up of 5 Series, 5 Ranges, so you can always find the ideal solution to suit your available power and soil conditions.

SERIES 100

Specially designed for light soils and when weight is a limiting factor. Main frame of 110 by 110 mm square profile section and 100 mm headstock shaft. Ploughs from 2 to 4 furrows. Rated up to maximum power of 27 HP (20 kW) per body.

SERIES 120

This series is also limited to 4 furrows, although in this case the main frame is 100 by 150 mm and the headstock shaft is increased to a diameter of 110 mm. This structure is rated up to maximum power of 160 HP (120 kW).

SERIES 130

Featuring a substantial **140 mm diameter** headstock shaft. This series is available in a four or five furrow configuration, and is rated up to 200 HP (150 kW).

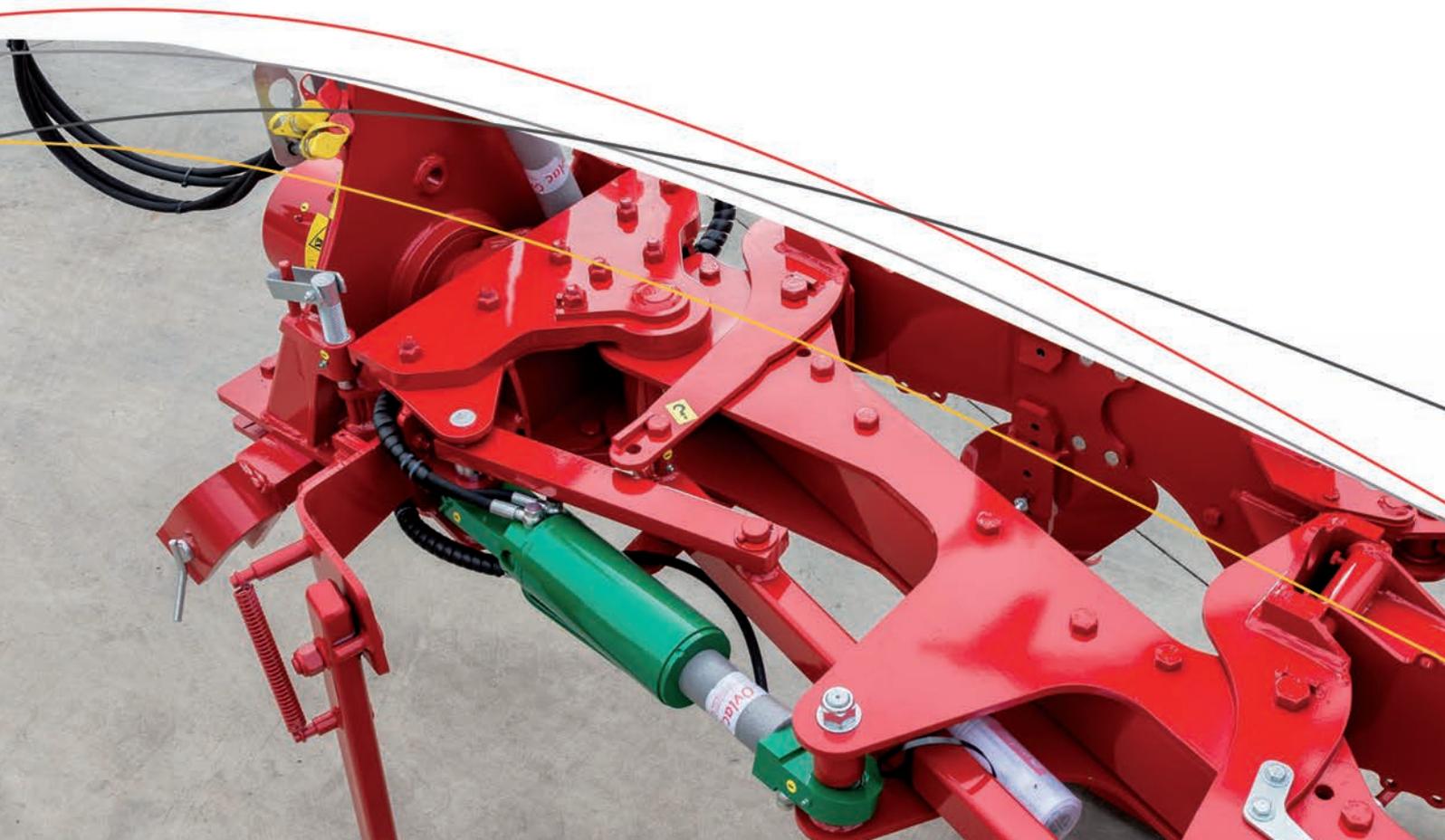
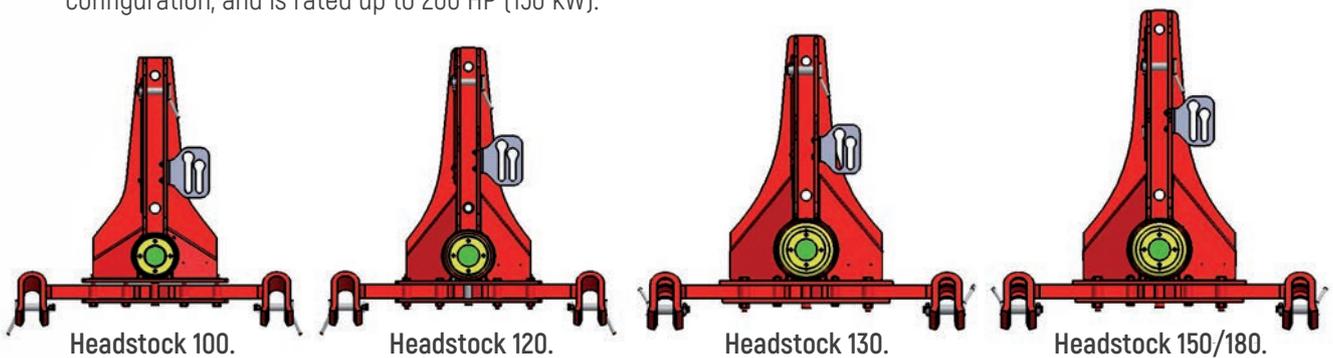
At the same time, it keeps the 100 by 150 mm frame section of the 160 Series to stay light.

SERIES 150

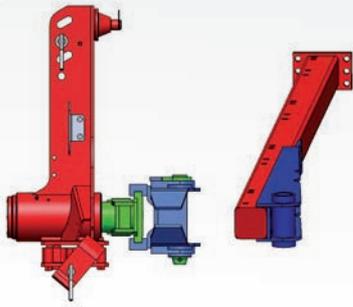
Higher Strength available as 4 and 5 furrow configurations designed for arduous conditions and higher horse power. Rated up to 225 HP (165 kW). 150 by 150 mm frame section and reinforced headstock with a 140 mm shaft diameter.

SERIES 180

The **Pinnacle** in the mounted range available as five and six furrow configurations. With a superstructure design consisting of 150 by 150 mm frame section-Heat treated 140mm headstock. Substantial reinforced Hardox supports and larger turnover ram. This range topping mounted plough is capable of remarkably high work rates. Rated up to 285 HP (210Kw)

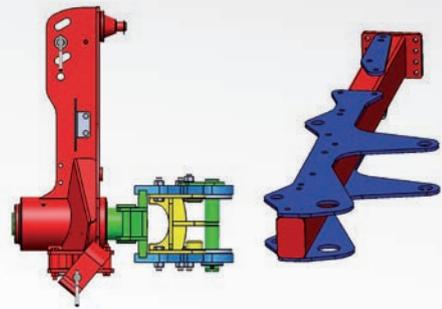


**SERIES
100**



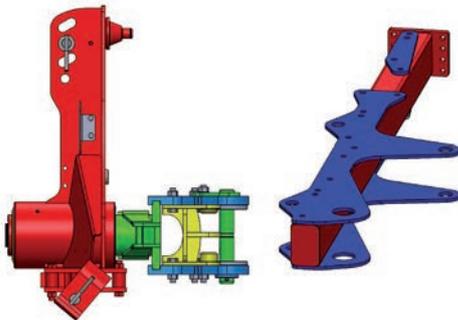
Headstock 100 + Frame support 100
+ 110*110 mm frame section.

**SERIES
120**



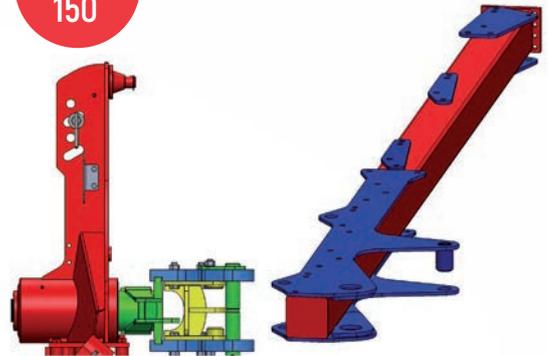
Headstock 120 + Frame support 120
+ 150*100 mm frame section.

**SERIES
130**



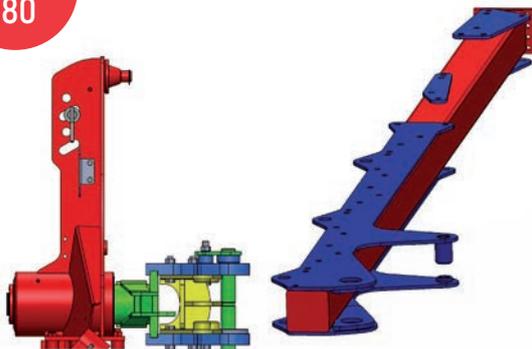
Headstock 130 + frame support 130
+ 150*100 mm frame section.

**SERIES
150**



Headstock 150 + frame support 150
+ 150*150 mm frame section.

**SERIES
180**



Headstock 180 + frame support 180
+ 150*150 mm frame section.



PROTECTION SYSTEMS

Shear bolt, leafspring and hydraulic

Taking into account working conditions, OVLAC ploughs can be equipped with three different protection systems.

SHEAR-BOLT SECURITY SYSTEM:

The simplest of all three. The shear bolt thickness, steel grade and position are calculated so it breaks under a pressure of approx. 3000 kg exerted at the point. It is highly recommended that broken shear bolts be replaced by genuine ones; a non-genuine shear bolt, bearing a different dimension or steel grade can result in serious damage to the main plough frame for not correctly accomplishing its task.

LEAFSPRING SECURITY SYSTEM:

A classic by OVLAC, having been used for over three decades, its **dependability and efficiency** are well proven. As the plough body elevates when going over an obstacle, **leafspring pressure diminishes**, this feature results in the minimum pressure being exerted on the plough structure.

Double security: In all LB and SB ploughs frog legs are bolted on to the beam; not welded. One of these fixing bolts is conceived as a shear bolt, thus behaving as an additional non-stop system.

HYDRAULIC NON-STOP SYSTEM:

Regulated trip mechanism. It allows for adapting **release pressure according to soil conditions**. In heavy or compacted soil, pressure can be increased in order to guarantee penetration and maintain an optimal working position of the bodies. On the contrary, under stony conditions pressure can be set lower in order not to bring stones onto the surface.

The same as in leafspring models, frog legs are also bolted on to the beam, and not welded thus benefitting from **dual security**.

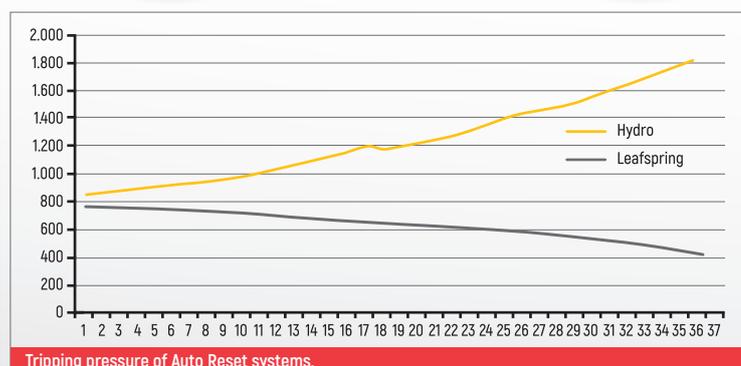
Shear bolt



Leafspring



Hydraulic



VARIABLE WORKING WIDTH

"L" model - "S" model

Working width adjustment is available in all Ovlac ploughs in order to adapt the plough to soil conditions or the desired work.

Working width of all **"L" models** (LV, LVB, LVH, LF, LB and LH) can be manually adjusted by simply shifting positions of the support bolt into a different hole on the beam. There are **four different working widths with 2 inch increment adjustments**.

All **"S" style ploughs** (SL, SF, SB and SH) come with the well known Ovlac Varilabor variable working width as standard. Working width can be **hydraulically operated from the tractor cab** between 12 and 20 inches per body (can slightly change depending on different models). This feature provides several advantages:

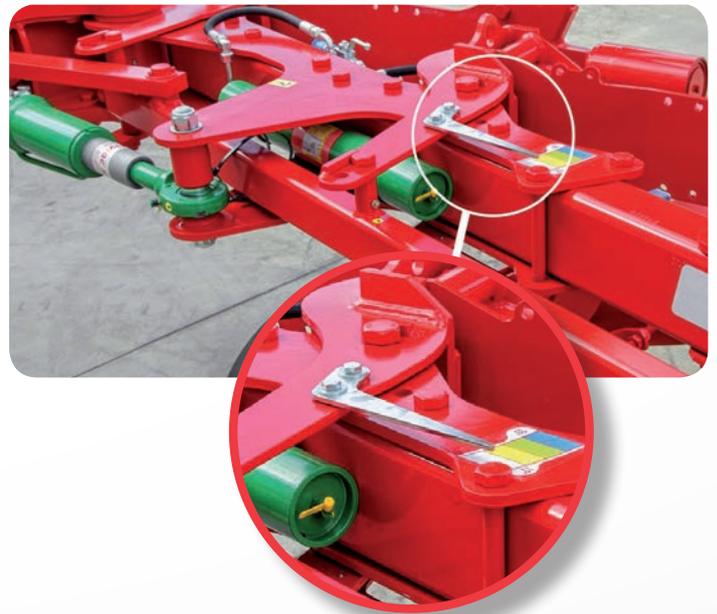
- **Optimized output**, making the most of the tractor power.
- **Adaptation to desired work** in terms of working depth, soil type, crop types and seasons.
- **Adaptation to ploughing plot individualities:** Topography and obstructions.

Automatic Memory System: The complete range of Ovlac reversible ploughs in 5 and 6 furrows comes as standard with an automatic memory system which withdraws the plough main frame to its minimum width so as **to guarantee a gentle turning over** and avoid that the rear end of the plough hitting the ground. Once this operation is done, the plough automatically returns to the originally set working width.

"L" Model



"S" Model



WHAT MAKES US UNIQUE

Oscillating drawbar. Automatic self-alignment

+1- OSCILLATING DRAWBAR. AUTOMATIC SELF-ALIGNMENT

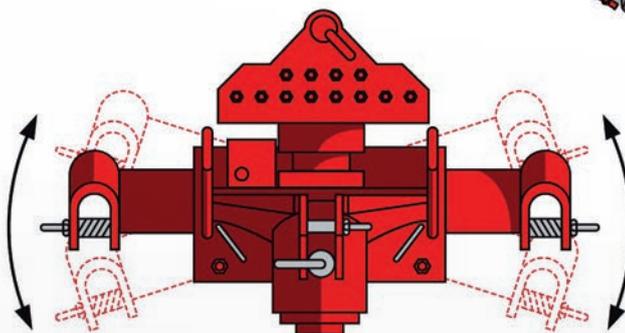
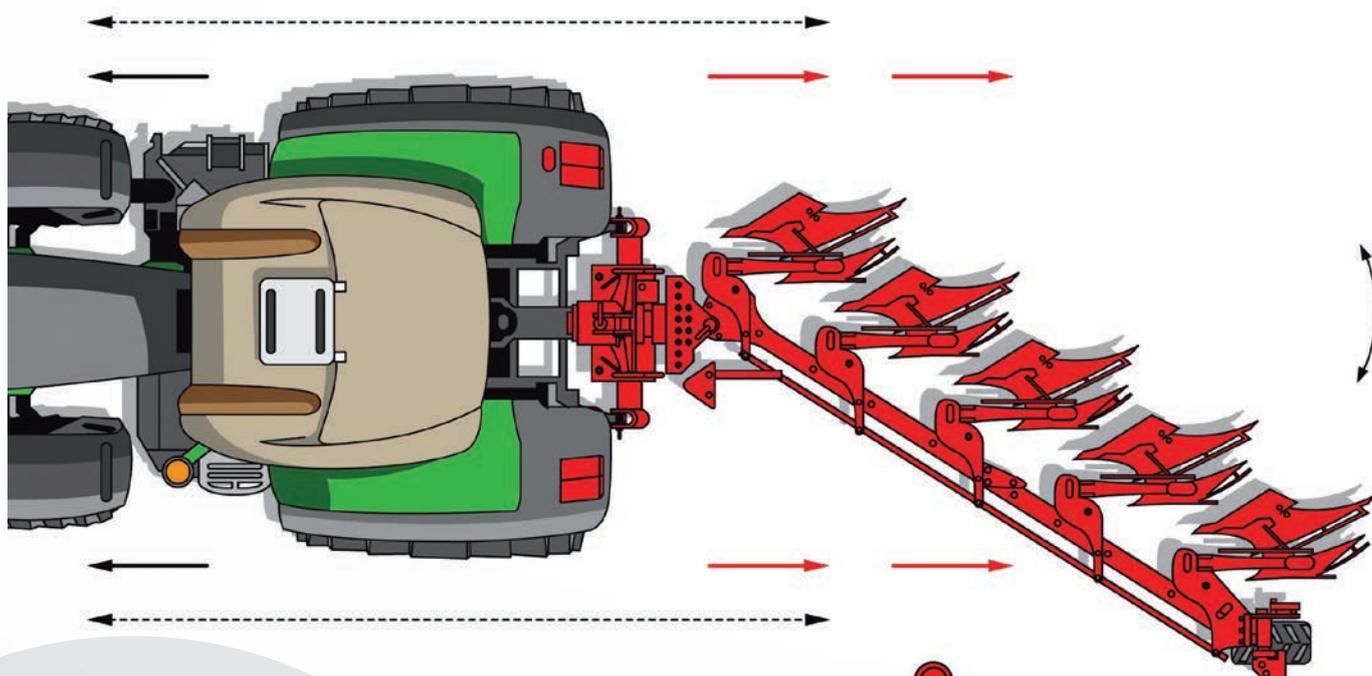
Ovlac ploughs can be equipped with two hitching-up systems to the lower tractor arms: The common **Fixed Coupling** with its related alignment regulation, or more favorable and well proven Oscillating Hitch with automatic alignment adjustment.

The Oscillating Hitch makes it possible for the **plough to move freely from a central pivoting point** in the cross-shaft and to find by itself the perfect balance between the side pressure exerted on the mouldboard and the landside. Therefore it is no longer necessary to adopt complicated adjustments in order to regulate

the draw line so as to make the plough work perfectly aligned. **Alignment is automatically corrected** with no need of any operation by the operator.

In the Hydraulic Vari width ploughs (AV, SV, HV) the Oscillating Hitch makes it possible for the plough to adjust itself to the new pressure balance resulting from modifying working widths, correcting automatically and immediately the ploughs alignment, with no effort required by the operator. It cannot be simpler.

When lifting the plough up for transport or turning over, the Oscillating Hitch **will automatically lock** itself preventing the plough from balancing sideways.



OTHER STRONG POINTS

Frames, Non Stop systems, Variewidth

+2- SUBSTANTIAL SIMPLE AND RELIABLE MAIN BEAM

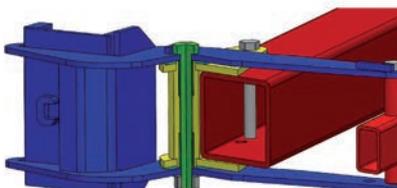
The main beam is made in high quality steel, and is **100% free from welding**. Therefore tensions and weak spots are eliminated. Furthermore, in its forefront, the area where efforts are biggest, the frame is reinforced with "Hardox sandwich" plates.



+3- LONGEVITY DESIGNED IN

In hydraulic vari width models ("S") models, **body supports are bolted** onto the frame; thus, in the case of an improbable breakdown, these supports are easily replaceable.

Furthermore, the pivoting points of these supports are located away from the main frame, this way the frame is **not weakened or subject to any wear**. These pivoting points are equipped with wear resistant case-hardened bushes and greasing points in order to ensure a long lifespan.



+4- NON STOP PLOUGHS FOR THE HARDEST CONDITIONS

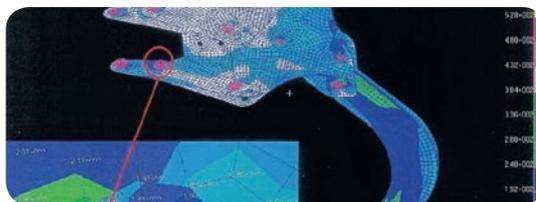
In Non Stop ploughs, both Leafspring or Hydraulic, frog beams/legs are bolted instead of welded. One of the fixing bolts is specifically designed as a shear bolt, which results in an **extra security** to be added to the Non Stop.



The Articulated Security Rod linking the leg holder to the main frame has been designed to withstand the most rigorous conditions. Its articulated system results in a genuine 3D security system.

+5- EXPERIENCE AND MODERNITY

Ovlac has over 80 years of experience in the manufacturing of ploughs. This practical knowledge is supplemented up by the efforts of a young team of capable engineers using the latest design, development and production techniques in order to attain the perfect combination of experience and modernity.





RANGE

PROTECTION



Variwidth	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic
110 HP	LV 100	SL 100	LVB 100	-----	LVH 100	-----
160 HP	LF 120	SF 120	LB 120	SB 120	LH 120	SH 120
200 HP	LF 130	SF 130	LB 130	SB 130	LH 130	SH 130
225 HP	LF 150	SF 150	LB 150	SB 150	LH 150	SH 150
285 HP	LF 180	SF 180	LB 180	SB 180	LH 180	SH 180

TECHNICAL FEATURES

S Shearbolt **L** Leafspring **H** Hydraulic

	No. of bodies	3			4			4-EXT			5			5-EXT			6		
		Protection			S	L	H	S	L	H	S	L	H	S	L	H	S	L	H
SERIES 100	Working width (L/S)	90-135 / 80-150			120-180 / 105 - 200			-----			-----			-----			-----		
	Inter body clearance (cm)	85 95 105	85 95		85 95 105	85 95		-----			-----			-----			-----		
	Under beam clearance (cm)	72 78			72 78			-----			-----			-----			-----		
	Weight (L/S)	755/ 805	1005/-	975/-	920/ 990	1195/-	1160/-	-----			-----			-----			-----		
	Power (HP)	75-85			85-115			-----			-----			-----			-----		
SERIES 120	Working width (L/S)	105-150 / 90-150			140-200 / 120-200			-----			-----			-----			-----		
	Inter body clearance (cm)	85 95 105			85 95 105	85 95		-----			-----			-----			-----		
	Under beam clearance (cm)	72 78 90	72 78		72 78 90	72 78		-----			-----			-----			-----		
	Weight (L/S)	990/ 1080	1160/ 1280	1130/ 1250	1190/ 1290	1410/ 1570	1370/ 1530	-----			-----			-----			-----		
	Power (HP)	90-120			120-160			-----			-----			-----			-----		
SERIES 130	Working width (L/S)	-----			-----			140-200 / 120-200			175-250 / 150-250			-----			-----		
	Inter body clearance (cm)	-----			-----			85 95 105			85 95			-----			-----		
	Under beam clearance (cm)	-----			-----			72 78 90	72 78		72 78			-----			-----		
	Weight (L/S)	-----			-----			1250/ 1350	1470/ 1625	1430/ 1585	1480/ 1590	1745/ 1900	1695/ 1850	-----			-----		
	Power (HP)	-----			-----			120-160			150-200			-----			-----		
SERIES 150	Working width (L/S)	-----			-----			140-200 / 120-200			175-250 / 150-250			-----			-----		
	Inter body clearance (cm)	-----			-----			85 95 105	85 95		85 95			-----			-----		
	Under beam clearance (cm)	-----			-----			72 78 90	72 78		72 78			-----			-----		
	Weight (L/S)	-----			-----			1490/ 1605	1620/ 1740	1580/ 1700	1680/ 1830	1855/ 2005	1805/ 1955	-----			-----		
	Power (HP)	-----			-----			120-180			150-225			-----			-----		
SERIES 180	Working width (L/S)	-----			-----			-----			-----			175-250 / 150-250			210-300 / 180-300		
	Inter body clearance (cm)	-----			-----			-----			-----			85 95 105			85 95		
	Under beam clearance (cm)	-----			-----			-----			-----			72 78 90	72 78		72 78		
	Weight (L/S)	-----			-----			-----			-----			1710/ 1850	1930/ 2120	1880/ 2070	-----	2200/ 2370	2140/ 2310
	Power (HP)	-----			-----			-----			-----			150-240			180-285		

BODIES

Range of 6 plough bodies

Ovlac has six **different plough bodies** in order to offer the most suitable option for a specific ploughing technique and soil. All genuine Ovlac mouldboards (with the exception of the slatted and plastic boards) are made in 8 mm thickness and undergo a **unique Case - Hardening process** in order to **achieve over HRc 62 on their surface** while still offering a soft core. Apart from guaranteeing a long lifespan of the mouldboard, case-hardening also results in less sticking and better soil flow.



Case-hardening allows for higher hardness on surface, more than 62 HRc, while keeping a soft, flexible core.



V-34: all-purpose body for all types of soil. Well suited for wide tires. Good soil turning with limited tractor power requirements. For depths between 15 and 35 cm.



V-97: all-purpose body for all soil types. Very low tractor power requirement. Working depth between 15 and 30 cm.



V-LOV: mouldboard with slats. Suitable for sticky soils. All wearing parts mounted with conical bolts in order to lengthen lifespan, specially of slats.



V-90: leaves a wide furrow; specially recommended for very wide tractor tyres (>760 mm). Very good soil turning thanks to its extra length. Similar power requirement to body V-97.



C-34: all-purpose cylindrical body for medium and heavy soils. Working depth between 18 and 30 cm.



PLASTIC: recommended for very sticky soils with no stones. Same geometry as V-34 body.

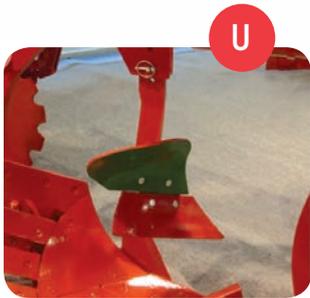
OPTIONS

A wide range of accessories

A wide range of accessories is available in order to adapt the plough to any working type and soil.



Trashboard.



Three skim mouldboards available: Grass, Maize and High Capacity. It is important that Skimmers are correctly set in height. That is why we have designed them so no tools are needed to this end.

Coulter Discs, either Smooth or Notched 18 or 20 inch.



Smooth or Notched Coulter Discs with Non Stop Security System.



800 mm Front Furrow Width Adjuster instead of the Standard 600. Also available Hydraulic Version.



Tailpress.



Share knife.



Landside extension.



Alignment turnbuckle.



Memory cylinder.



X-light beam, 25 kg lighter than standard one (Max.: 32 HP per body). Available solely for 120 and 130 Series.

WHEELS

A large range to meet any need

We have the perfect wheel for your needs. Ovlac reversible ploughs can be equipped with very different wheel types:

As regards its function, there are Depth Control Wheels and Combi Wheels, both for depth control and transport. As regards their position, we have either Rear or Advanced Wheels. Rear Wheels assure an optimal plough balance as well as a better weight

transfer to the tractor while ploughing. In turn, Advanced Wheels are advisable when trying to get closer to field borders. Advanced Wheels also result in less strain on tractor arms when in transport or when turning the plough over as the centre of gravity is closer to the tractor.

Several wheel sizes and types of wheels are available to suit your requirements.



Rear depth control wheel 550/65.



Rear depth control wheel 250.



Rear depth control wheel 320.



Rear depth and transport wheel 250.



Rear depth and transport wheel 320.



Advanced depth control wheel 250.



Advanced depth and transport wheel 320.



Hydraulic advanced wheel.



Advanced double metal wheel.



Advanced double wheel 200.



Advanced wheels allow for ploughing right to the edge as they fit within the width of the plough frame.

Other products

In the Ovlac Range



CONVENTIONAL PLOUGHS



SEMIMOUNTED PLOUGHS



MINI



MINI N



MINI N



MINICHISEL VINEYARD



MINICHISEL



VERSATILL



CHISEL



MAXIDISC II



EURODISC



MINIVID



GC LINE



REPTILL



A SOLUTION
FOR ANY FIELD



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