XPerience

REVERSIBLE PLOUGHS

Smart Ploughing

90 Years ovlac

A Passion for Soil


ovlac

OVLAC

90 YEARS OF EXPERIENCE

In tillage equipment

Ovlac is a **family-owned company** which has been manufacturing farming equipment **since 1936**. From the beginning, **Ovlac** has focused its activity around manufacturing **mouldboard ploughs**, which have been the company's flagship product for decades.

Today, Ovlac is run by the family's third generation and is **the largest Spanish tillage equipment manufacturer.**

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

Thanks to its **state of the art manufacturing techniques**, and **in-house R&D department**, Ovlac can guarantee high quality throughout its product ranges. **Ovlac's** high standards are also ingrained into its day- to-day manufacturing processes.

Every step and decision taken at **Ovlac** is carried out to meet a key goal: to offer farmers technically advanced, reliable products they can be proud of.

XPERIENCE

Expertise and Strength

The XPerience is the latest generation of mounted ploughs designed by OVLAC.

With a design that is both robust and elegant, it is available in two versions:

- **In-furrow (Std)** for the 130, 150 and 180 series, suitable for tractors from 140 to 300 hp.
- **On-land (OL)** for the 180 series, suitable for tractors from 175 to 350 hp.

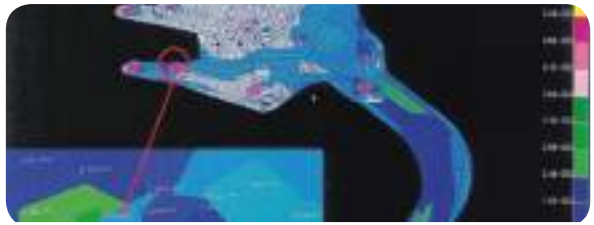
With various configuration options:

- 4, 5, 6 or 7 bodies for optimum work output.
- Manual or hydraulic adjustable working width for perfect adaptation to your soil conditions.
- Shear bolt or hydraulic Auto Reset safety system, to suit light, stony or heavy clay soils.

Designed to combine easy of use, reliability and top-quality ploughing, it delivers outstanding tillage performance.exceptionnelles.

EXPERIENCE AND MODERNITY

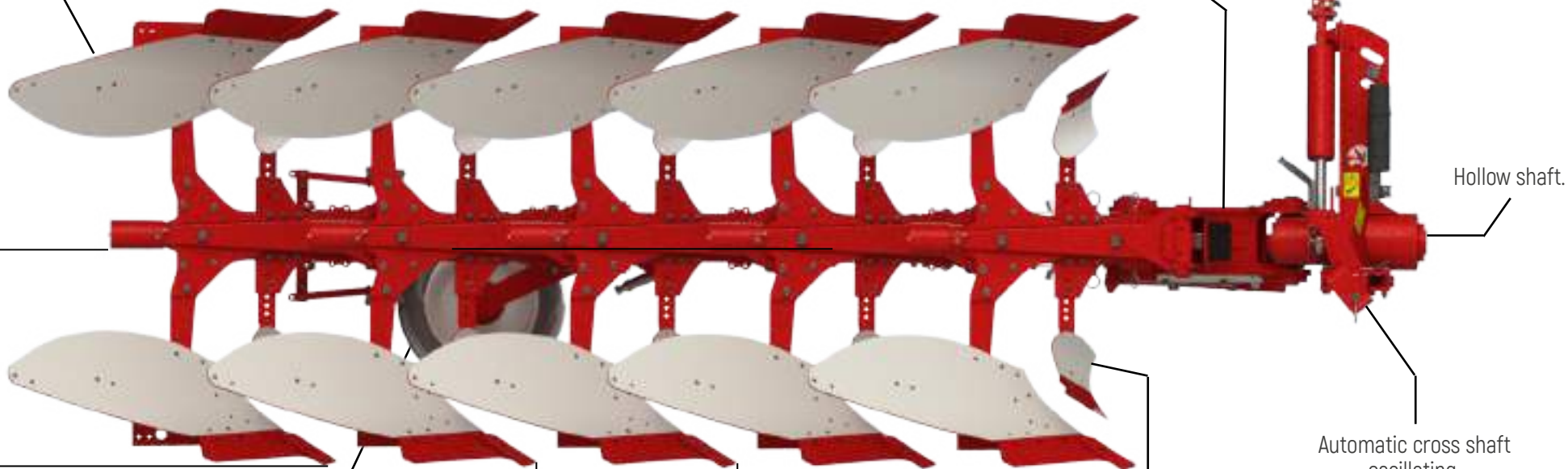
Ovlac has more than 90 years of experience in manufacturing ploughs.
This long-acquired know-how is complemented by a young team of engineers who naturally integrate the most advanced CAD/CAM technologies into design and production, ensuring the perfect balance between innovation and manufacturing quality.



XPerience

90 years of experience
condensed into a plough.

XPerience



*depending on model

Hollow shaft allowing optimal hose passage.

Parallelogram system allowing on-the-go 1st furrow width adjustment.

Reinforced beam with HEL (High Elastic Limit) steel plates.

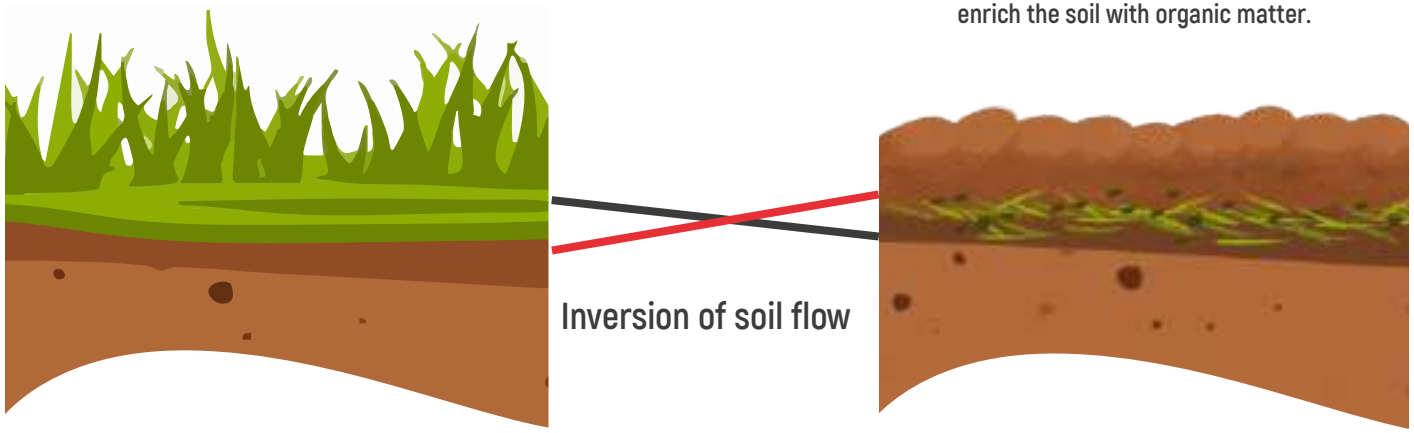
Extendable design to allow for one extra body, depending on the model.

WHY PLOUGH?

For weed control – and much more

Ploughing remains an essential practice to ensure healthy and productive soils. It offers several advantages:

- **Soil sanitation:** effective burial of weeds, crop residues, seeds and diseases, improving field hygiene.
- **Fertility management:** enhancement of soil structure, even mixing of organic matter and stimulation of biological activity.
- **Ideal seedbed preparation:** a uniform profile that promotes even and vigorous crop emergence.
- **Agronomic versatility:** suitable for diverse crop rotations, mechanical weed control and reduced chemical inputs.



Only ploughing allows mechanical weed control by burying the seeds, keeping them cool and thus effectively slowing down their germination. As for the crop residues, they enrich the soil with organic matter.

The principle of soil inversion

Before ploughing, the surface layer concentrates weed seeds, regrowth and crop residues, supported by active soil biology; deeper layers are more mineralised and sometimes compacted. With a plough, the topsoil is inverted to the bottom of the furrow while the deeper soil rises to the surface. This process cleans the upper horizon and accelerates residue decomposition through better soil–moisture contact, while avoiding exposure of too much "young" soil prone to surface sealing.

Agronomic effects

Ploughing acts as mechanical weed control: buried seeds do not germinate, especially grass weeds when the depth is sufficient. Residue burial also helps reduce foliar diseases and slug populations.

Depth: strengths and limits

– **Shallow ploughing (8–12 cm):** high work rate and low fuel consumption, with limited soil horizon mixing; however, inversion of large amounts of residue is partial and the compact layer under 12–15 cm is not always corrected.

– **Intermediate depth (18–22 cm):** provides the best compromise – efficient burial of residues and seeds and a clean seedbed, though there is a risk of smearing if the soil is too wet.

– **Deep ploughing (25–35 cm):** achieves maximum burial (after grain maize or heavily infested soils) but is energy-demanding and may bring up poor, colder and crust-prone soil layers. Therefore, it is essential to assess the soil structure before defining the ploughing depth.

Criteria for choosing the right depth

The choice depends on a few key factors:

- Soil type (silty, clay, sandy, calcareous, stony),
- Residue load (choose skimmers or deflectors accordingly),
- Weed pressure (e.g. ryegrass, blackgrass, dock),
- Structural condition (a compacted layer at 22–28 cm should be treated by targeted subsoiling, not random deep ploughing),
- Slope (adapt depth to limit erosion),
- Next crop (depending on root system and season).





SERIES

130, 150 and 180

The **XPerience** reversible plough range from **Ovlac** consists of three series –three frame designs engineered to always offer the ideal option according to available tractor power and field conditions.

SERIES 130 (IN-FURROW)

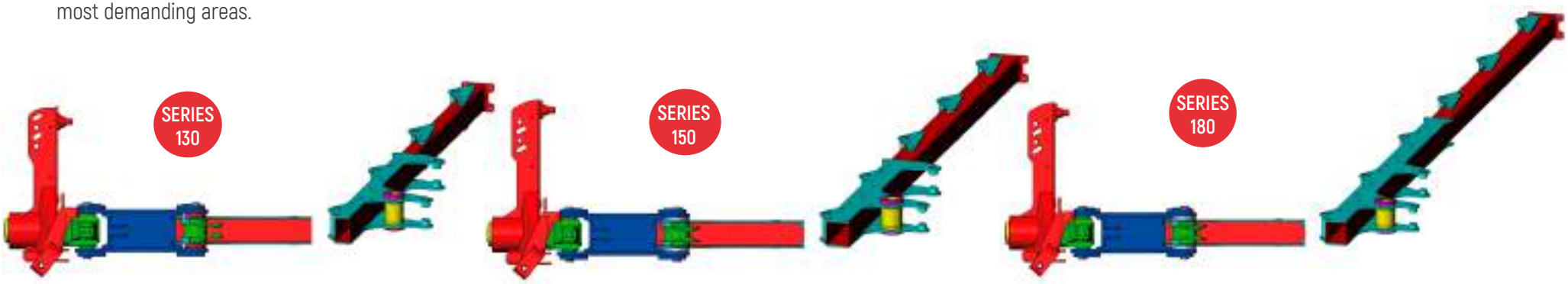
Frame of 100 x 150 mm, headstock 130 and 140 mm hollow shaft, suitable for 4 to 5 bodies and tractor powers up to 200 hp (150 kW). The frame features a sandwich reinforcement on the first two bodies, providing greater elasticity and strength.

SERIES 150 (IN-FURROW)

Frame of 150 x 150 mm, headstock 150 and 140 mm shaft, designed for 4 to 5 bodies and tractor powers up to 250 hp (184 kW). It also includes sandwich reinforcement on the first two bodies to ensure higher durability and structural flexibility.

SERIES 180 (IN-FURROW AND ON-LAND)

Frame of 150 x 150 mm, headstock 180 and special 140 mm hollow shaft, suitable for 5 to 7 bodies and tractor powers up to 350 hp (258 kW). The frame incorporates a sandwich reinforcement on the first three bodies, increasing strength and shock absorption in the most demanding areas.



WHAT MAKES THE XPERIENCE UNIQUE

Oscillating cross shaft - automatic self-alignment

Ovlac XPerience ploughs are equipped with an Oscillating Cross Shaft with a centre pivot. The plough is pulled from the centre pivot point which ensures it can move independently to follow the tractor and find the perfect balance between the side pressure exerted on the mouldboard and the landslide.

Therefore once the plough is set correctly it is not necessary to make complicated adjustments in order to ensure the plough pulls straight. In work the plough will follow the tractor perfectly.

Alignment is corrected with no need for operator input. Furthermore with the Hydraulic Vari width ploughs the Oscillating Cross Shaft automatically compensates for working width adjustment. It could not be simpler. When lifting the plough for transport or turn over, the Oscillating Cross Shaft **automatically locks** itself in the central position.

The cross shaft movement also makes it very easy to hitch up to the plough.

In addition to the operational benefits the Oscillating Cross Shaft **significantly reduces strain on the whole plough and fuel usage.**

Hydraulic-damped balance system standard on the XPerience-OL 180.

Oscillating drawbar in action

Other ploughs

Ovlac ploughs

PROTECTION SYSTEMS

Shearbolt or hydraulic reset

The **Ovlac XPerience** reversible ploughs can be equipped with two safety systems, depending on field conditions..

SHEAR BOLT SAFETY SYSTEM XPF / XPFV:

Designed for precision and simplicity, the **XPerience** with shear bolt safety relies on a clean, mechanical concept and an ultra-rigid **Ovlac** frame to deliver a perfectly uniform furrow bottom. Its working rigidity, with a point pressure of **3,300 kg,** allows the bolt to shear cleanly in the event of excessive resistance – thanks to its robust design, preventing repeated breakages.

With its low overall weight and minimal maintenance, it offers an excellent cost per hectare, without compromising on burial quality.

Result: consistent ploughing, easy adjustments, and outstanding efficiency in light or low-stone soils.

HYDRAULIC AUTO RESET SAFETY SYSTEM XPH / XPHV:

When working in heterogeneous or demanding soils, the **XPerience** with Hydraulic Auto Reset safety delivers maximum productivity: each body lifts over obstacles and instantly returns to position, ensuring uninterrupted work flow and no need for bolt replacement, even in the toughest conditions.

The variable pressure, controlled directly from the tractor cab, allows the operator to instantly adapt protection to soil hardness, safeguarding both the implement and ploughing quality. In heavy soils, higher pressure (**1,400 kg** at the point and **1,050** kg on the optional XLight body) maintains full penetration; conversely, in stony conditions, lower pressure allows stones to be passed without bringing them to the surface. In the event of a major obstacle, the Auto Reset body is also equipped with a shear bolt safety, providing additional protection in extreme situations (**3,800 kg** at the point).

A nitrogen accumulator acts as a shock absorber, working in conjunction with the body's hydraulic dampers.

Finally, the forged twin-joint link rod ensures both lateral and vertical release, adapting perfectly to all conditions.

Over 40 cm underbeam clearance

VARIABLE WORKING WIDTH

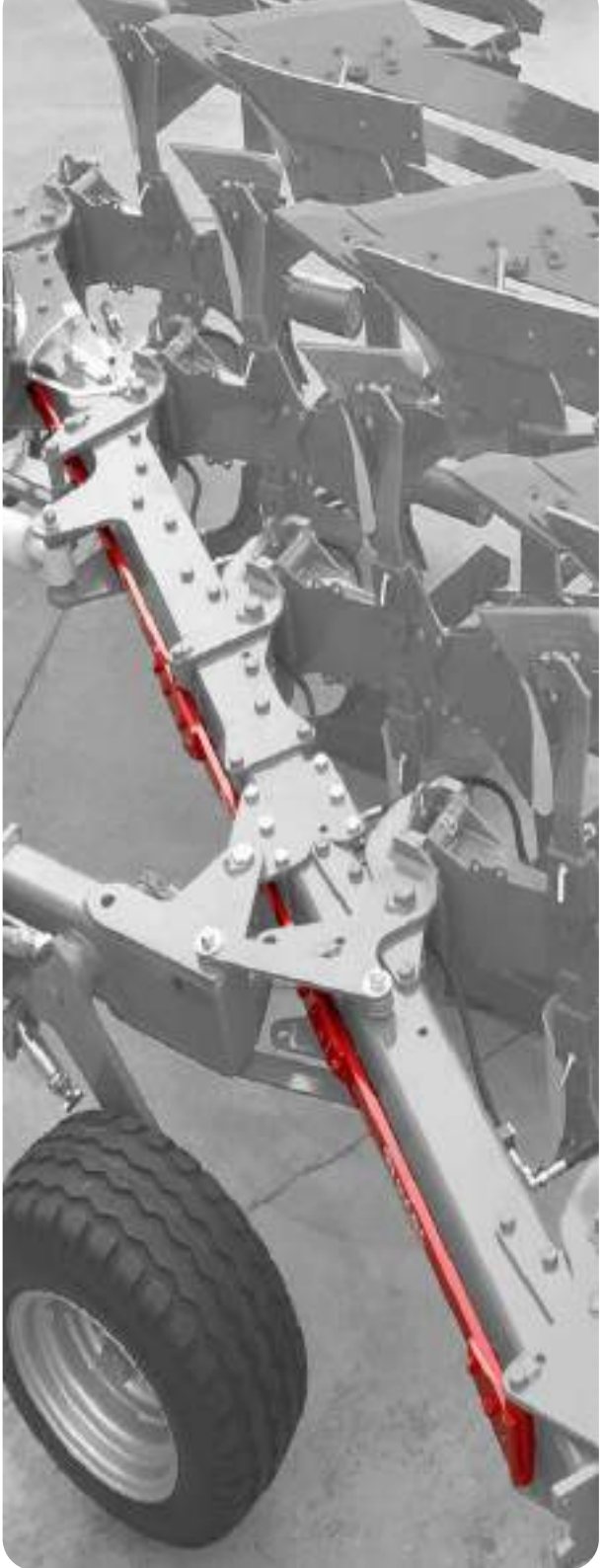
Manual (XP) and Hydraulic (XP-V) adjustable working width

MANUAL WORKING WIDTH (XP)

All **Ovlac XPerience** reversible ploughs allow the working width to be adjusted according to soil conditions or the desired type of work at any time.

On **"XP" models (XPF and XPH),** the working width is manually adjusted by changing the position of the bolted support on the frame. This system allows the operator to choose **between four working widths, in 5 cm increments.**

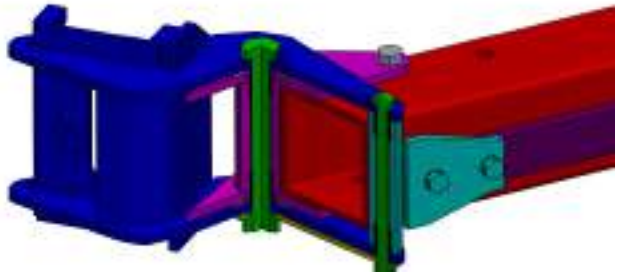
Automatic memory system: The entire **Ovlac XPerience** reversible plough range is equipped as standard with an automatic memory system that centres the frame to its minimum width before turnover, ensuring smooth rotation and preventing the last body from touching the ground. After the manoeuvre, the plough automatically returns to the previously selected working width.



HYDRAULIC VARIWIDTH (XP-V)

The **"XP-V" models (XPFV and XPHV)** come standard with Ovlac's "Varilabor" system, offering fully variable working width. The plough's working width can be hydraulically adjusted from the tractor cab, between 23 and 57 cm per body, providing several **key advantages:**

- Optimise performance by making full use of the tractor's available power.
- Adapt the work to specific needs depending on depth, soil type, and crop requirements.
- Adjust easily to field shapes, such as headlands, curves, and irregular plots.



VARILABOR SYSTEM DURABILITY

On Varilabor (XPV) models, **the body supports are bolted to the frame.** This design prevents frame weakening caused by unnecessary welds and allows quick replacement in case of body damage or accident.

Furthermore, the articulation points of these supports are positioned outside the frame, preventing long-term fatigue. All pivot points are fitted with case-hardened bushings and grease nipples, ensuring anti-wear protection and long-lasting reliability. The linkage system is positioned close to the main beam, staying within the machine's overall profile, and its robust, compact design provides outstanding durability and long-term reliability of the Varilabor system.

IN-FURROW OR ON-LAND PLOUGHING?

Choosing between in-furrow and on-land ploughing is essential depending on field conditions, season, and tractor configuration. Parameters such as slope, ploughing depth, soil moisture, and tyre setup must all be considered.

With in-furrow ploughing, the system provides natural **self-guidance** and consistent traction, which are major advantages, particularly on sloping or hard soils. On the other hand, wheel compaction in the furrow bottom occurs, wide tyres cannot be used, and performance in wet soils can be limited due to the risk of smearing or sealing.

With **on-land ploughing,** soil compaction is greatly reduced, fuel consumption is lower, the tractor runs level, and it is compatible with wide tyres or tracks, making it ideal for GPS guidance. Nevertheless, thanks to **Ovlac's** oscillating hitch bar, traction, penetration, and consistent depth are also clear advantages of the **XPerience-OL model.**

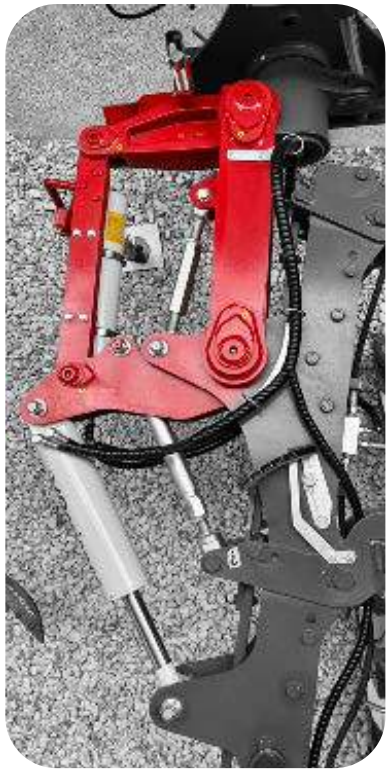
	Advantages ++	Disadvantages --
IN-FURROW	+ Good traction in wet conditions + Consistent body penetration + Natural guidance with the wheel running in the furrow + Constant working depth + Better balance along the tractor's centre line	- Formation of a plough pan (smearing and soil compaction) - Incompatible with wide tyres, twin wheels or tracks - Tractor tilted while working
ON-LAND	+ Low soil compaction + Better soil structure preservation + Compatible with wide tyres, twin wheels and tracks Tractor runs level + Reduced tyre sidewall wear (from stones) + Lower fuel consumption + Easier adjustment	- Reduced traction in wet conditions - More demanding handling on steep slopes

XPERIENCE

IN-FURROW RANGE

The **XPerience in-furrow range** includes three series (130, 150 and 180) with configurations from 4 to 6 bodies.

The front paralellogram system allows for a quick and easy adjustment of the first body width, even on the move when equipment with the optional hydraulic control. Its geometry has been carefully engineered so that no further adjustments are required when changing the working width.



Design with reduced overhang at the headstock-frame junction.

XPERIENCE-OL

The “In-furrow / On-land” version

The **XPerience On Land (XP-OL)** represents the latest step in the evolution of the XP design, developed to work both in-furrow and on-land.

It is the result of several years of research and development since the launch of the XP project. The **XPerience-OL** range is available in the 180 Series, with 5 to 7 body configurations.

The most significant change in this model is the use of an oversized linkage with **two hydraulic cylinders:**

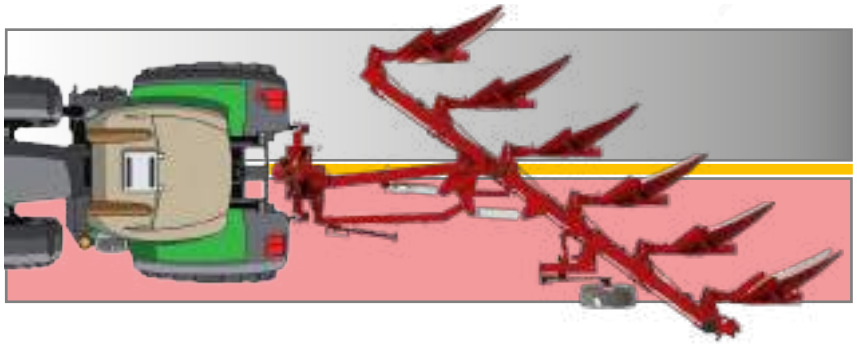
- the first cylinder controls the width of the first body (in-furrow or on-land mode) and the automatic recentring of the plough for turnover,
- the second cylinder controls the overall working width.

Switching from on-land to in-furrow operation is as simple as opening or closing a valve on the first cylinder, with no tools required.

On-land ploughing is particularly advantageous when working with modern tractors fitted with large or twin wheels. The **XP-OL** can operate **with tractors up to 3.20 metres overall width.**

Another important feature is its compatibility with **GPS guidance systems**, allowing for optimised alignment and control of the tractor–plough combination.

From an agronomic perspective, on-land ploughing provides clear benefits, such as reduced soil compaction at the bottom of the furrow. From a technical point of view, it ensures easier handling, flat and well-balanced traction, and consequently a lower fuel consumption, **resulting in significant reductions in CO_2 emissions.**



In on-land ploughing, the distribution of the bodies is better balanced in relation to the tractor's centre line (yellow line) than in in-furrow ploughing. This configuration reduces lateral stresses on the tractor.

It is a significant advantage, particularly at medium ploughing depths (around 18–20 cm), where the furrow is not deep enough to keep the tractor's wheel properly guided inside it. Furthermore, the balanced alignment of the plough bodies relative to the tractor's axis leads to lower power requirements and therefore reduced fuel consumption.

By opening or closing the dedicated valve and readjusting the plough's alignment, it is very easy to switch from in-furrow to on-land mode after a turnover sequence.

BODIES

Range of 5-body ploughs

Ovlac offers five **different plough bodies** which enable the most suitable option for a specific ploughing technique and soil type to be selected. All genuine Ovlac mouldboards (with the exception of the slatted and plastic boards) are 8mm thick and undergo a **unique Case-Hardening process** in order to **achieve over HRc 62 on the surface** while still offering a soft core to prevent breakage. In addition to guaranteeing a long wearing life for the mouldboard the smooth surface produced by the case-hardening process improves soil flow and reduces sticking.

8mm thick mouldboards - longer working life.
Case-hardening increases surface hardness, (more than 62 HRc) for a longer working life while keeping a soft, flexible core.

V-34: All-purpose body for all soil types. Soil inversion with limited tractor power requirement. For depths between 15 and 35cm.

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

V-PLAST: Recommended for very sticky soils with no stones. Same geometry as V-90 or V-97 bodies.

V-LOV: Slatted mouldboard. Suitable for sticky soils. All wearing parts mounted with conical bolts to lengthen the slat and bolt lifespan.

V-90: Leaves a wide furrow; recommended for very wide tractor tyres (760 mm). Very good soil inversion thanks to its extra length. Similar power requirement to body V-34.

OPTIONS

Wide range of accesories

A complete range of accessories is available to customise your **XPerience** and adapt it to any type of work and soil conditions.

Trashboard: ideal for dense residue conditions (such as maize), helping to reduce the risk of blockages.

GRASS SKIMMER **G**

HIGH CAPACITY SKIMMER **GC**

Two skim mouldboards available: Grass and High Capacity. It is important that Skimmers are correctly set in height. Thats is why we have designed them so no tools are needed for this.

Tailpress.

Hydraulic front furrow width adjustment (standard on the OL version).

Oscillating shaft with shock absorptionde **Standard on the XPerience-OL 180.**

Knife Coulter.

Landslide wear plate.

Spring reset protected smooth or scalloped disc coulters.

Smooth or scalloped disc coulters.

Foldable signalling system for field work.

X-Light beam, 25kg lighter than standard **(Max: 32hp per body)**

XPerience

It is assembled with premium-grade treated components.

WHEELS

A large range to meet your needs

Rear control wheel
200/60 14,5"

Hydraulic rear control wheel
280/70 16"

Rear control and transport wheel
340/ 16"

Ovlac XPerience reversible ploughs can be equipped with a number of different wheel types.

There are **Depth Control Wheels or Combi Wheels**, for depth control and transport. In terms of position Ovlac provide either Rear or Advanced Wheels.

Rear Wheels ensure optimal plough balance as well as better weight transfer to the tractor whilst ploughing.

Advanced Wheels are advisable when trying to get closer to field boundaries and obstacles, they also result in less strain on tractor arms when in transport and during turn over as the centre of the gravity is closer to the tractor.

Advanced control wheel
250/65 14,5"

Advanced control and transport
wheel 340/55 16"

Advanced hydraulic transport and
control wheel 340/55 16"

The hydraulic wheel range includes upper and lower cylinders combined with stop cassettes.

The front wheels are brought forward to lie completely within the width of the frame.

TECHNICAL FEATURES

	XPerience	4-EXT		5		5-EXT		6	
	Security	S	H	S	H	S	H	S	H
SERIES 130	Working width (XP/XPV)	140-200 / 120/200		175-250 / 150-250					
	Interbody clearance (cm)	85 95 105	85 95	85 95 105	85 95				
	Under beam clearance (cm)	72 78 90	72 78	72 78					
	Weight (Kg) (XP/XPV)	1585 1665	1680 1760	1755 1855	1915 2015				
	Power (HP)	120-160		150-200					
SERIES 150	Working width (XP/XPV)	140-200 / 120/200		175-250 / 150-250					
	Interbody clearance (cm)	85 95 105	85 95	85 95 105	85 95				
	Under beam clearance (cm)	72 78	72 78	72 78					
	Weight (Kg) (XP/XPV)	1670 1750	1795 1875	1850 1950	2050 2150				
	Power (HP)	120-180		150-250					
SERIES 180	Working width (XP/XPV)					175-250 / 150-250		210-300 / 180-300	
	Interbody clearance (cm)					85 95 105		85 95	
	Under beam clearance (cm)					72 78 90	72 78	72 78	
	Weight (Kg) (XP/XPV)					1860 1960	2150 2250	2040 2160	2405 2525
	Power (HP)					150-250		180-300	

S Shearbolt H Hydraulic

	XPerience-OL	5-EXT-OL		6-OL		6+1-OL	
	Security	S	H	S	H	S	H
SERIES 180	Working width (XP/XPV)	175-250 / 150-255		210-300 / 180-306		245-350 / 210-350	
	Interbody clearance (cm)	85 95 105	85 95	85 95	85 95	85 95	
	Under beam clearance (cm)	72 78		72 78		72 78	
	Weight (Kg) (XP/XPV)	2050 2150	2340 2440	2230 2350	2595 2715	2580 2700	
	Power (HP)	175-250		210-300		245-350	

Vario	200 HP	250 HP	350 HP
Convertible	XPF 130	XPF 150	XPF 180
Varilabor	XPVF 130	XPVF 150	XPVF 180
Convertible	XPH 130	XPH 150	XPH 180
Varilabor	XPVH 130	XPVH 150	XPVH 180

90 YEARS OF SOIL PASSION

Conventional ploughs

Shallow ploughs

Short disc harrows

Tine cultivators

Tine cultivators for vineyards

Short disc harrows for vineyards

ovlac

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