



# Designed for **low draft**

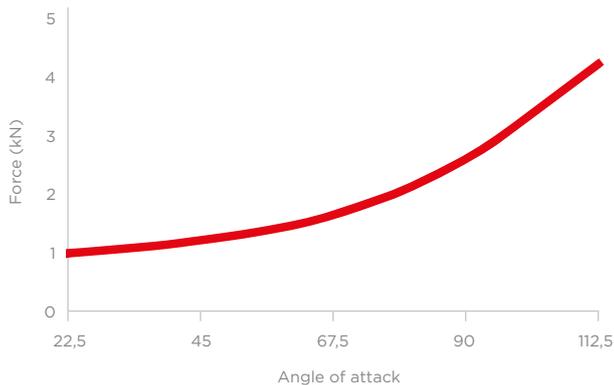
## Low angle of attack

The design of sharp penetrating implements with low angle of attack is important for the low draft requirement - the hallmark of Kongskilde plough bodies. The figure shows that the force needed to pull a tine or a plough body is highly related to the angle of attack.

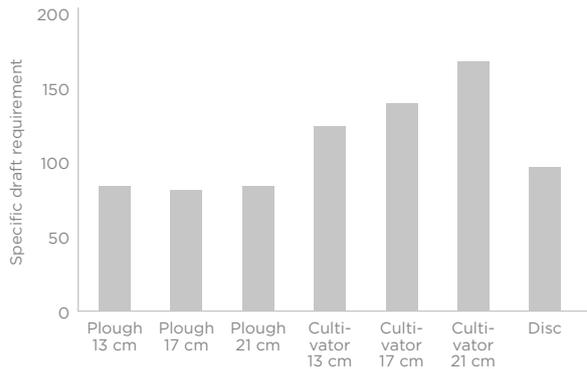
## Effective loosening

The lifting and turning action of the furrow slice along the helical mouldboard makes the soil crack in its natural pattern and thereby loosens the top soil and repairs compaction damage. This smooth action is more energy efficient compared to other methods (Swedish University of Agriculture).

**The force to pull a tine as a function of the angle of attack, after Godwin (1974)**



**Ploughing is the most effective method for loosening of soil**



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XLD Plough Body

**NEW**

# The XLD Plough Body

For large-scale tractors  
and difficult soil – **wider  
and deeper furrow**

 **KONGSKILDE**

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# The **new standard** for plough bodies

Kongskilde Industries introduces the XLD plough body for ploughing wide furrows up 55 cm and down to 35 cm in depth.

**The XLD** is a new generation of plough body, made for high HP tractors without compromising low energy consumption, strong wear economy and the broken furrow bottom philosophy. It leaves a wide furrow bottom, making it suitable for tractors with wide tyres up to 710 mm.

#### **Wider or deeper ploughing**

The XLD is designed for a ploughing depth from 15 to 35 cm and suits all soil types including rough and difficult conditions like heavy clay and very dry soil. It leaves a rough surface to ensure an easy seedbed preparation.

The XLD is ideal for wide furrows, from 40 to 55 cm. An increase of the average furrow width by 5 cm improves the productivity with

10 percent due to less vertical cuts per hectare.

#### **Patented helical design**

The design includes a lowered point in order to minimise the resistance and for an optimal flow across the mouldboard. Furthermore, the new, patented helical design of the XLD mouldboard ensures that the soil is completely turned, even in heavy clay soils, to cover all crop residues.

#### **Low draft, improved fuel economy**

The XLD plough body comes with well-known features like broken furrow bottom and low energy consumption. Tests show that the new XLD body has the similar good quality of low draft requirement like the XL body, which is famous for the lowest power demand on the market.

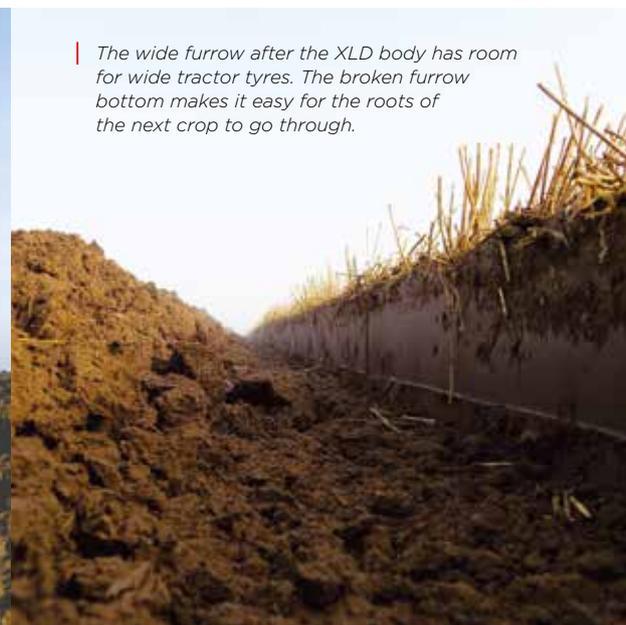
The XLD is optimised for a working speed of 8 km/h for high productivity. It comes with easy to change wearing parts, designed and heat-treated for long time use. The choice of reversible point also increases wear economy.

#### **50 percent longer life span**

The 19-hour treatment of the steel for the mouldboards ensures long durability. The 900 °C hot and glowing mouldboard of steel is bent into the right shape by special tools and then shock chilled to room temperature. Iron and carbon form a very hard and durable crystallization, while the core with its low content of carbon retains its original qualities. Thanks to this process, the mouldboard has 50 percent longer life span.

| *Completely turned furrows mean well buried weed sprouts and crop residues for optimum weed and fungus control. Broken finish makes the seedbed preparation easier.*

| *The wide furrow after the XLD body has room for wide tractor tyres. The broken furrow bottom makes it easy for the roots of the next crop to go through.*



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# The product line is **now complete**

**All new Kongskilde ploughs can be equipped with the new XLD plough body and it completes the line of different plough bodies for optimal ploughing under all conditions.**

The Kongskilde line of ploughs includes conventional ploughs, front-mounted, fully mounted, semi mounted as well as on-land reversible ploughs. The range covers models from 2-10 furrows. The new XLD plough body is top-of-the-line for wide and deep ploughing.

## **NEW HELICAL DESIGN**

**New mouldboard** with optimised helical design for optimal flow. Turns the soil completely even in heavy clay soils.



## **WIDE FURROW DESIGN**

**The wide furrows** - 40 to 55 cm - increase productivity.

## **DEEPER PLOUGHING**

**Creates optimal loosened soil volume** for improved water infiltration and root development.

## **WIDE TYRES**

**Tyres up to 710 mm** increase traction and reduce compaction.

## **LOWERED OR REVERSIBLE POINT**

**Lowered point for minimising resistance** and improved scouring in sticky soils or reversible point for optimal wear economy.

## **HARDENED STEEL**

**All parts undergo heat-treatment**, one of the most important skills developed at Kongskilde.

## **LOW ANGLE OF ATTACK**

**Important for the low draft** requirement, the hallmark of Kongskilde plough bodies.

## **BROKEN FURROW BOTTOM**

**Sharp tools prevent smearing of the soil.** Small surface of the plough point and share prevents the build-up of a closed pan between the top soil and the sub soil.

