

# **Creates the perfect seedbed as you plough**



# Kverneland Packomat

## The Perfect Seedbed While You Plough



**On many soils the perfect seedbed is made while ploughing. This combination of plough and packer is both efficient and environmentally friendly.**

Weeds are controlled mechanically, the number of operations is reduced and the soil structure is immediately re-established. The traditional packer is a trailed implement which is towed by a plough. Kverneland has refined this implement and made it an integral part of the plough.

### **Efficient and user friendly**

Kverneland's Packomat works in all soil conditions. Whatever gets ploughed is also packed. Moreover, you need not worry about releasing the packer and reconnecting it on the headland. It changes sides automatically in the plough reversing process.

### **The Packomat follows the plough**

Compared with traditional packers which are trailed behind the plough, the integrated Packomat is rigidly mounted via a packer arm made of specially hardened spring steel. By means of this arm, weight transfer takes place from the plough to the Packomat to ensure that the packer works the soil with the right 'field pressure'. More than 1,000 kg pressure gets easily regulated by means of a turnbuckle or an optional hydraulic cylinder. The small diameter of the packer wheels gives an excellent levelling effect. In fact



**Kverneland has developed a piece of equipment to make soil preparation even more cost efficient. Packomat is an integrated soil packer which is coupled directly to the plough.**



the wheels carry a small amount of soil in front of them which also helps the packing effect.

**Fine and smooth seedbed**

The geometric relationship between the plough and the packer is constant at all times. This means efficient crushing of clods. When combined with a simple finger harrow, the packer makes a fine and smooth seedbed. On light and medium soils, the packed soil is simply ready for seed drilling. Actually on heavy soils, the Packomat reduces the necessary time for an eventual seedbed operation.

**Less wear and less pulling effort**

With the support of the depth wheel on the one side and the Packomat on the other

side, the plough is better balanced. Hence there is less landside pressure, less wear and a reduction in the draft requirement. In comparison with a conventional soil packer, Kverneland's Packomat requires 25% less pulling effort. Fuel consumption is therefore substantially reduced.

**Perfect water conductivity**

Kverneland's Packomat works with a pressure of more than 1,000 kg. The wedge-shaped discs cut their way through the furrows, crush clods, push down stones, level and pack the soil, and ensure a quick re-establishment of the capillary water conductivity. This is the best way to get germination started as early as necessary. It also reduces the problems associated to post-drilling droughts.

**Adapts to any soil conditions**

The Packomat is designed for ploughs from 3 to 14 furrows. In depth-recompaction is ensured by one ring section of either 480mm or 600mm Ø rings and one row of either 16mm tines with reversible points or 20mm tines with blade points.

**Kverneland heat-treated steel**

Specially hardened spring steel. Like all Kverneland ploughs, the Packomat is not an exception. It benefits from the unique Kverneland heat-treatment processes for unequalled robustness and wear resistance.





16mm front finger harrow with reversible point.



20mm front harrow tines fitted with special knives for heavy ground. These slice through the soil, helping to create a firm and level seedbed.

**Choose the Correct Packomat equipment for your soil conditions.**

The Packomat unique front harrow makes all the difference. To achieve optimum results, it is important to choose the correct front harrow for your soil conditions. The 16mm tines with reversible points are recommended for light soils conditions and the 20 mm tines with blade points for heavier soils like clay.

The Kverneland tines work at a constant pressure and depth, in a downward motion. This contrasts with conventional tines which tend to cultivate in a upward direction.

Larger working widths than ever (2,40m – 4,00m) from 4 to 8 furrow ring sections.

Packomat – type of plough

Type	No. of furrows					No. of rollers
	3	4	5	6	7-14	
ED/LD	x	x	x	x		1
EG/LB	x	x	x	x		1
ES/LS	x	x	x			1
PW/RW					x	2



# Kverneland Packomat®

## Unrivalled results in independent tests

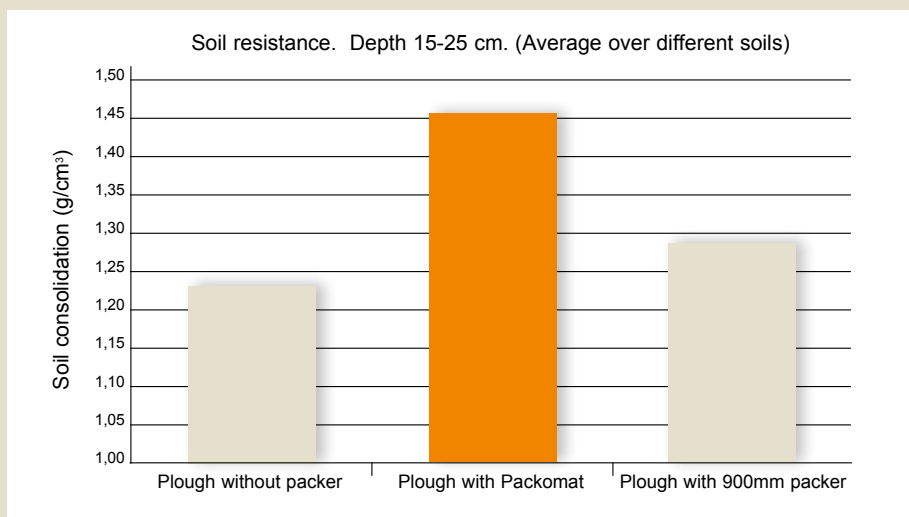
**To prove the efficiency of the Kverneland Packomat®, institutes in Holland and Germany have conducted independent practical tests.**

In both instances, different Packomat® models were tested against traditional

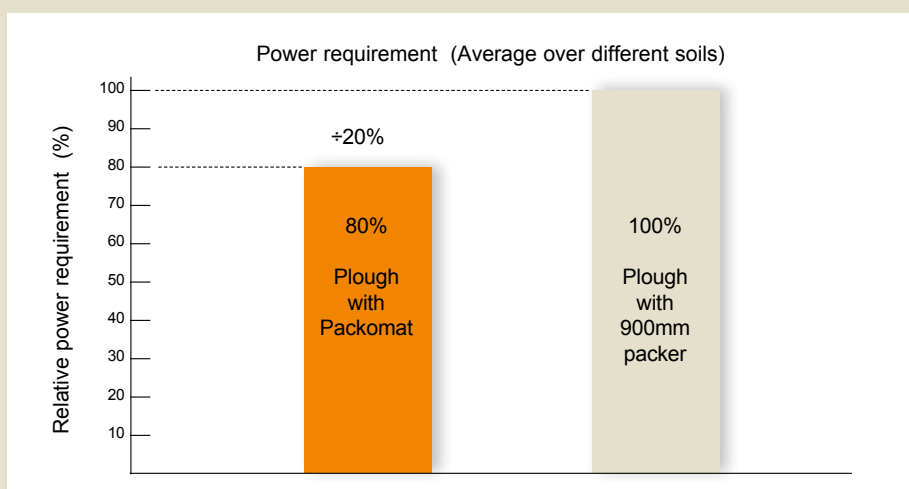
towed packers. As these diagrams show, the Packomat® produces first class results.

First of all, it consolidates with the same degree of pressure as a towed packer. In some combinations and weather conditions, the results have been even better with the Packomat®.

Furthermore, the test clearly shows that the Packomat® requires considerably less tractive power than a traditional towed packer. And last but not least, the Packomat® is generally more convenient to use, and in most circumstances creates a seedbed during the one pass you make as you plough.



Source: Dr. Michael Weissbach, Institut für Landwirtschaftliche Verfahrenstechnik, Universität Kiel, Germany 1999



Source: Dr. Michael Weissbach, Institut für Landwirtschaftliche Verfahrenstechnik, Universität Kiel, Germany 1999

### Save up to 30% of your time!

Tests indicate that when comparing traditional cultivation methods, ploughing, harrowing and rolling, Kverneland Packomat® is 30% more efficient in making a seedbed.

Not least, Packomat® prevents the usual soil compaction by avoiding the multiple passes of the tractor.

### Save up to 20% power requirement

Ploughing with Packomat® is more cost efficient and tractor friendly than a packer. Packomat® improves the balance of the plough and hence reduces the forces on landsides. This new balance also reduces power requirements. This diagram indicates a 20% decrease in pulling forces requirements; even though Packomat® is equipped with a front cultivating harrow.

Therefore Packomat® induces significant fuel savings while lengthening the use of the wearing parts for a quality result.



## Kverneland Group

**Kverneland Group is a leading international company developing, producing and distributing agricultural machinery and services.**

Strong focus on innovation allows us to provide a unique and broad product range with high quality. Kverneland Group offers an extensive package of systems and solutions to the professional farming community. The offering covers soil preparation, seeding, forage and bale equipment, spreading and spraying.

## Original Spare Parts

**Kverneland Group spare parts are designed to give reliable, safe and optimal machinery performance - whilst ensuring a low cost life-cycle. High quality standards are achieved by using innovative production methods and patented processes in all our production sites.**

Kverneland Group has a very professional network of partners to support you with service, technical knowledge and genuine parts. To assist our partners, we provide high quality spare parts and an efficient spare parts distribution worldwide.

### **Kverneland Group UK Ltd.**

Walkers Lane, Lea Green, St. Helens  
Merseyside, WA9 4AF  
Phone + 44 1744 8532 00  
kverneland@kvernelandgroup.com

### **Kverneland Group Ireland Ltd.**

Hebron Industrial Estate  
Kilkenny, Ireland  
Phone + 353 56 51597  
contact@kvernelandgroup.com

[www.kverneland.com](http://www.kverneland.com)

