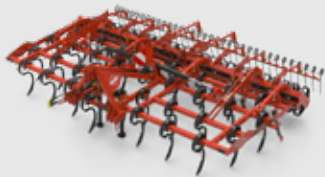




Tine cultivators
PROLANDER



PROLANDER 100 R



PROLANDER 6000 - 7500



PROLANDER 9000 - 12000 - 14000



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PROLANDER

Tine cultivators

THE IDEAL TOOL FOR INTER-CROP MANAGEMENT

THE FUTURE OF AGRICULTURE LIES IN COMPETITIVENESS AND PROFITABILITY. PROLANDER TINE CULTIVATORS OFFER EXCEPTIONAL VERSATILITY FROM PLOUGHING TO SEEDBED PREPARATION AND FORCED SEED EMERGENCE. CHOOSE A PROLANDER AND ENSURE A PROFITABLE INVESTMENT FOR YOUR FARM.



In particular, KUHN PROLANDER tine cultivators allow you to :

- Prepare a seedbed favourable to optimal crop germination thanks to the creation of fine tilth.
- Shallow tilling of your soil on the second pass in order to create quality false seedbeds. Once weeds have germinated, you can destroy them mechanically and efficiently.
- Resume ploughing for your spring soil preparations.
- Benefit from simple and tool-free adjustments for unrivalled comfort and speed in adjusting the working depth.

Choose a PROLANDER tine cultivator because high yields and optimal financial results start with quality tillage.

THE DNA OF KUHN TINE CULTIVATORS

With a 60cm underbeam clearance and tines that pass every 15.5cm, the PROLANDER offers the largest clearance on the market. It is the perfect machine to avoid any clogging in crop residue and to ensure consistent work over the whole machine width.

The PROLANDER's S-shaped tine offers exceptional working quality even in heavy residue. Depending on the work required, you will choose the straight or duck-foot share.



Vibrating 'S' tine: scalping, mixing and refining

The S-shape of the tine provides a significant vibrating effect for mixing soil and residues, and refining the soil.

Equipped with a 3D safety system, the S-shaped tine is maintenance-free and has a vertical clearance limited to 17mm, guaranteeing a constant working depth.

The tip pressure is 100kg for the 70x12mm tine and 180kg for the 90x13mm tine, for good soil retention.

Large clearances for working in residues

With 60cm of clearance under the frame, passage through residue is guaranteed without the risk of blockages.

The passage of a tine with staggered placement of the tines improves the circulation of the soil flow and guarantees even work across the entire width of the machine.

PROLANDER 12000 CTF*

The compaction of cultivated soils is a reality that has a negative impact on crop yields. To remedy this, KUHN is launching a 12.2 metre working width model in its PROLANDER range for use in CTF or «**controlled traffic farming**». The aim is to establish fixed tracks in the field for all machinery and equipment, thus **reducing the percentage of compacted soil to a minimum**. By using this technique, **soil quality is improved, with better infiltration and water retention leading to higher yields**.



Simple, tool-free adjustment

The PROLANDER offers infinitely variable mechanical or hydraulic working depth adjustment from the cab. This makes for unrivalled comfort and speed of operation, without the need for any tools. The levelling boards can also be adjusted from the cab.

Savings

Only 25 to 35hp/m are needed to work efficiently with a PROLANDER, making it possible to use smaller tractors. The low power requirement means lower fuel consumption and longer life for wearing parts.

The PROLANDER offers high work rates, with forward speeds of up to 12km/h.

PROLANDER

EXACTLY THE TOOL YOU NEED FOR YOUR SOIL TILLAGE OPERATIONS

The PROLANDER is renowned for the quality of its work. The 15cm tine pitch guarantees perfect overlapping. The choice of equipment and roller should be based on agronomic objectives and soil conditions.

S-shaped vibrating tooth

70x12 tine

- Suitable for preparation
- High consolidation
- Creation of fine soil

90x13 tine

- Suitable for stubble ploughing
- Clay soils
- Pushes back the limits in the first pass

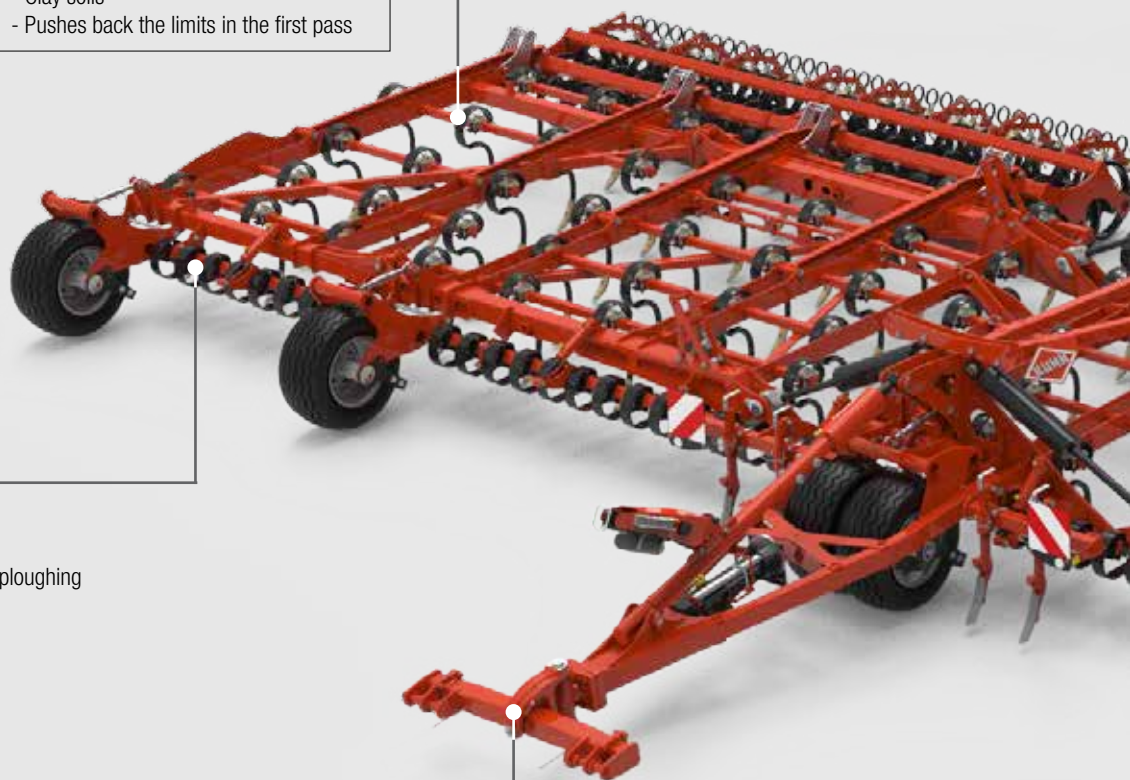
Levelling boards

- Level the ground
- Curb ploughing
- Hydraulically retractable when stubble ploughing

Couplings

Adaptable to all tractors thanks to a range of attachment options:

- Cat 2/3 lifting arm
- Ball joint Ø 42/53/71
- K80 ball hitch
- Fixed ring Ø 40
- Crossbar cat 3, 3/4





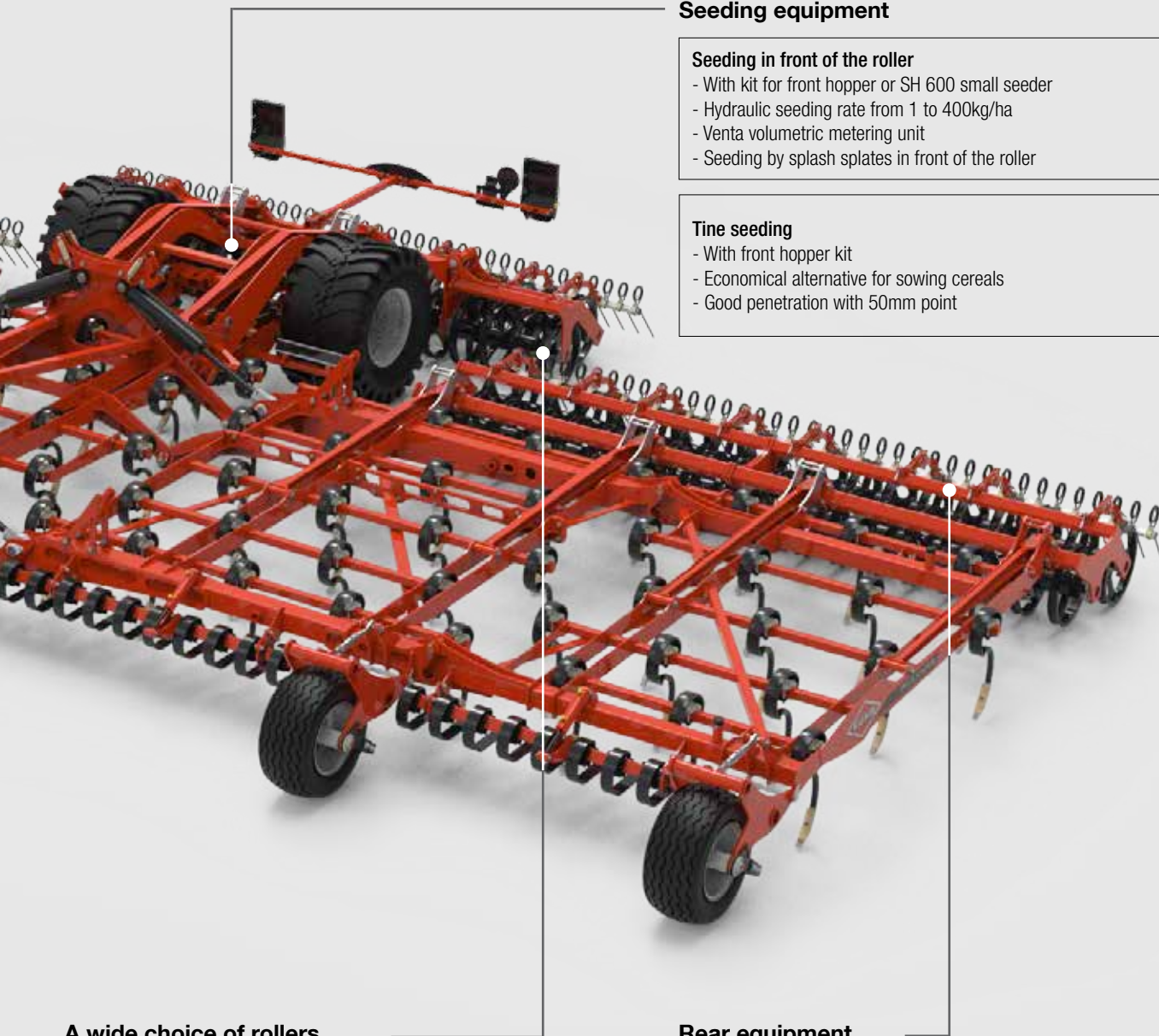
Seeding equipment

Seeding in front of the roller

- With kit for front hopper or SH 600 small seeder
- Hydraulic seeding rate from 1 to 400kg/ha
- Venta volumetric metering unit
- Seeding by splash splates in front of the roller

Tine seeding

- With front hopper kit
- Economical alternative for sowing cereals
- Good penetration with 50mm point



A wide choice of rollers

The roller reconsolidates the soil after the tines have passed to keep it fresh, levels the tilled surface and crumbles the soil.

PROLANDER 100 R machines can be fitted with a triple harrow instead of a roller to benefit from the advantages of an open soil, limiting weed growth and encouraging straw decomposition.

Rear equipment

- Levelling blades, placed before the roller, to control the flow of soil behind the tine.
- Rear harrow to aerate root systems and bring larger aggregates to the surface after the roller passes.

PROLANDER

WEARING PARTS: POINTS AND SHARES

The wearing parts available on the PROLANDER range of tine cultivators provide real versatility of use: the straight coulter lends itself well to surface preparation to create fine soil, while the duckfoot share is better suited to shallow stubble ploughing to scalp the working surface.

STRAIGHT SHARES

Reversible forged point
55 mm
5-12 cm



Carbide point
50/30mm
5-12cm



Service life x 6

0
5
10
15
20

Straight points

- Working depth: 5-12cm
- Shallow and deeper preparation
- Low power requirements



DUCK FOOT SHARES

Deep-drawn share
200mm
3-7cm



Carbide share
3-7cm

Service life x 6



Duck foot shares

The shape of the 200mm « duck foot » share combined with a 150mm tine pitch ensures cutting over the whole of the machine at shallow depths.

- Working depth: 3-7cm
- Suitable for shallow stubble ploughing
- Completely scalped surface

LEVELLING EQUIPMENT

A well-levelled soil with an even distribution of aggregates and plants ensures better degradation of elements in the soil and better germination. KUHN offers front and rear levelling equipment depending on the work objectives sought: levelling ploughing, distributing residues before rolling, distributing clods, etc.



Levelling boards

Levelling boards are ideal for seedbed preparation. Located at the front of the PROLANDER, they refine and level the soil before the tines pass over it. With a 12cm spacing between 2 blades, levelling boards can be used to smooth out the ploughing to ensure that the tines work evenly across the entire width.

The levelling boards feature continuous adjustment of the working height from the cab, and can be retracted when stubble cultivating.



Levelling blades

The levelling blades are mounted between the tines and the roller. They control the soil flow behind the tines and level the ground before the roller passes. Residue and straw are also better distributed to accelerate their decomposition.

Levelling harrow

It is mounted between the tines and the roller to ensure proper levelling.



Rear harrow

The rear harrow completely levels the ploughed surface while ensuring a soil density sorting to bring the bigger clods, roots and rhizomes to the surface. It also exposes weed roots to prevent regrowth. It is possible to adjust the rear harrow into the float position.

CHOOSING THE RIGHT ROLLER FOR TAMPING

The roller plays a key role in providing a clean finish to your stubble ploughing operations. That's why KUHN offers a wide selection of rollers to help you choose the one that best suits your needs. The roller is used to control the working depth, reconsolidate the soil after the tines have passed, level the worked surface and crumble the soil.

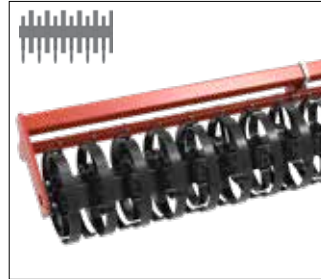
TUBE ROLLER



A lightweight, cost-effective roller that offers quality tamping and machine stability on light-to-medium soils.

- **ø550mm**
- **75kg/m**

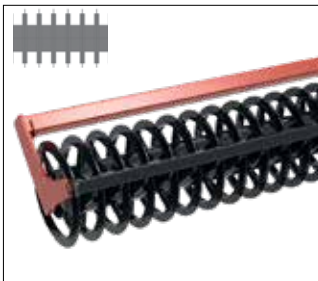
FLEXLINER ROLLER



Versatile on all types of soil. Its ability to create fine tilth promotes excellent germination for your false seedbeds, and its low weight makes lifting the machine easy.

- **ø540mm**
- **115kg/m**

T-RING ROLLER



A lightweight, aggressive roller on clods and straw; it maintains quality coarse soil. Ideal for silty soils.

- **ø600mm**
- **130kg/m**

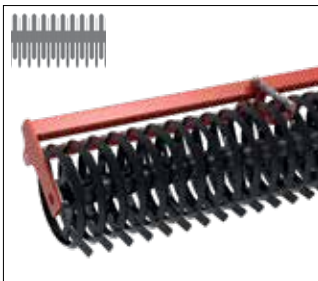
T-LINER ROLLER



It has the advantages of the T-Ring while adapting perfectly to stony conditions. It provides perfect surface crumbling on clay and/or clumpy soils.

- **ø600mm**
- **140kg/m**

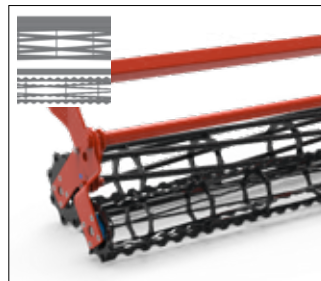
V-LINER ROLLER



The V-LINER ensures very good crumbling and perfect levelling in even the most difficult soils.

- **ø600mm**
- **145kg/m**

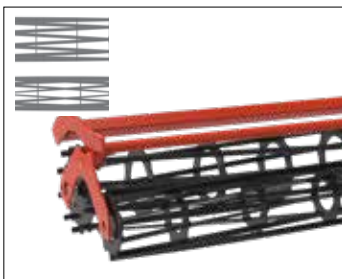
DOUBLE TUBE/NOTCHED BAR ROLLER



Roller with a good level of consolidation, good crumbling capacity even in heavy soils and optimum surface levelling. It's the best compromise between weight and efficiency.

- **ø400/320mm**
- **115kg/m**

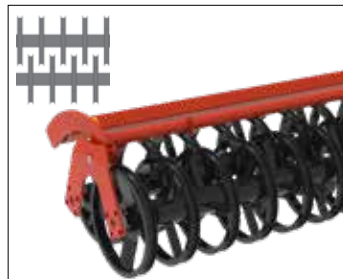
DOUBLE TUBE/SMOOTH BAR ROLLER



It combines load capacity and rotation speed to provide good crumbling and create fine tilth. Suitable for stubble ploughing, it is also a valuable weed management tool as it creates quality false seedbeds.

- **ø550/420mm**
- **135kg/m**

DOUBLE U ROLLER



Versatile on all types of soil. Its U-shaped profile and 12.9cm spacing ensure surface tamping and perfect crumbling thanks to the soil-to-soil contact. It is self-cleaning and resistant to clogging.

- **ø600mm**
- **175kg/m**

TRIPLE HARROW



- Leaves the soil open and aerated.
- Helps straw to spread evenly for better decomposition.
- Effective control of weeds by avoiding transplanting.
- Extended limit of use in sticky conditions

- **2 gauge wheels on 400 R and 500 R / 4 on 600 R**

A GUIDE TO CHOOSING A ROLLER

	Weight	Diameter	Working conditions					Working objectives			
			Light soil	Medium soil	Heavy soil	Stony	Sticky conditions	Crumbling	Surface tamping (sowing/false seedbed)	Deep consolidation	Levelling
TUBE	75kg/m	Ø550	++	+	0	0	0	+	+	0	+
FLEXLINER	115kg/m	Ø540	++	++	+	+	+	++	++	0	++
T-RING	130kg/m	Ø600	+	++	++	+	+	+	+	+	+
T-LINER	140kg/m	Ø600	+	++	++	++	+	+	+	+	+
V-LINER	145kg/m	Ø600	++	++	++	0	+	++	++	+	++
DOUBLE TUBE/ NOTCHED BAR	115kg/m	Ø400 and 320	+	++	++	+	++	++	++	++	++
DOUBLE TUBE/ SMOOTH BAR	135kg/m	Ø550 and 0420	++	++	+	0	0	++	+	0	++
DOUBLE U	175kg/m	Ø600	++	++	++	++	++	+	++	+	++
TRIPLE HARROW	/	/	++	++	++	++	++	+	+	0	+

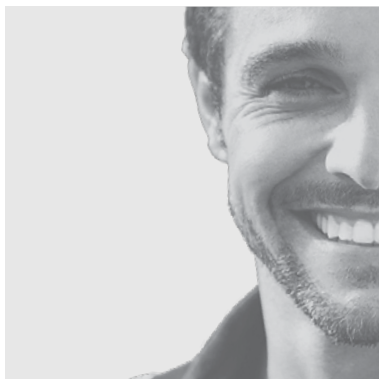
Unsuitable	Suitable	Very suitable
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KUHN PARTS



Designed and manufactured to rival time. KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.



KUHN SERVICES*

- KUHN sos order** - Express spare parts service, 24/7**
- KUHN protect+** - The choice of professionals!
- KUHN i tech** - For ever quicker repairs!
- KUHN finance** - Invest rationally!

* Not all services are available in all countries. ** except January 1, May 1 and December 25

EASE OF USE

KUHN makes its machines easy and comfortable to use. The PROLANDER cultivator has been designed to save time and increase efficiency when starting up, thanks to tool-free hydraulic or mechanical adjustments using wedges.



Continuous hydraulic working depth adjustment

You can hydraulically control the working depth of the PROLANDER 1000 from the cab via the gauge wheels coupled with the roller.

The PROLANDER 100 R models benefit from hydraulic or mechanical roller control. The indicator is visible from the tractor cab.



Tool-free adjustment of levelling equipment

To improve the quality of levelling, the PROLANDER can be fitted with levelling blades or a rear harrow. The floating position is easy to set up without tools, so you can quickly adapt to your needs.



Handling ability

PROLANDER 6000 and 7500 models are fitted with a telescopic drawbar to maintain excellent manoeuvrability whatever the size of the tractor:

- Reduced manoeuvring time
- Improved work output
- Easy road transport

The drawbar tilt is adjustable by a mechanical or hydraulic tie rod.

Transport safety

- PROLANDER 100 R
 - Forward centre of gravity suitable for small tractors.
 - Transport width of 2.50m.
 - Compact for transport and storage.
- PROLANDER 1000
 - Signalling
 - Hydraulic or pneumatic braking
 - Approvals : DREAL 25km/h (France), TÜV 40km/h (Germany)
 - Road gauge : width < 3m and height 4m

VERSATILITY: SEEDING WHILE STUBBLE PLOUGHING

By seeding cover crops at the same time as stubble ploughing, you can save one pass, which means significant savings in fuel and time. The PROLANDER range offers the option of simultaneous stubble tillage and seeding with the SH 600 seed drill or the TF 1512 front-mounted hopper.



SH 600

- With a capacity of 600 litres, it ensures high work output and low set-up costs. Its Venta distribution guarantees a quality sowing whatever the seed.
- Quick and easy adjustments from the cab:
 - Change the application rate manually or electronically via GPS;
 - Monitor the seed level, as well as blower and metering speeds.





TF 1512 front hopper

The TF 1512 has a capacity of 2,000 litres and a width of 2.50 metres. It ensures greater autonomy and manoeuvrability.

Soil compaction is significantly reduced due to better load distribution between the front and rear axles.

The TF 1512 high-capacity hopper is suitable for both sowing and fertilising, for a high-performance combination with all PROLANDER models. It is controlled via Quantron or Isobus.



Isobus provides comprehensive and precise seed management with the following functions:

- Electronic drill management,
- Manual or automatic application rate modulation via GPS for neat field starts,
- Storage of data and seed calibration settings for 200 fields,
- Work meter.

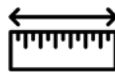


MOUNTED, FOLDABLE PROLANDERS

The **PROLANDER 100 R** is a mounted tine cultivator with a hydraulically folding chassis. This range is ideally suited to mixed crop and livestock farmers with fragmented fields who are looking for a high work rate.



100 - 210 hp



4 / 5 / 6 metres



4 to 6.5 ha/h











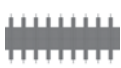









Technical specifications

	400 R	500 R	600 R
Min. tractor power (kW/hp)	62/100	78/125	95/150
Max. tractor power (kW/hp)	88/140	110/175	133/210
Working width (m)	3.75	4.95	5.85
Transport width (m)	2.5		
Number of tines	25	33	39
Type of tine	Vibrating 'S' tines 70x12mm		
Working depth (cm)	3 to 12		
Working depth adjustment	Mechanical adjustments using spacers as standard		
Available rollers	Tube, T-Ring, T-Liner, Flexliner, V-Liner, Double Tube/Smooth bar, Triple harrow		
Weight (in kg), with Double Tube/Bar roller	1710	2050	2260

The PROLANDER 100 R range has 4 rows of tines with a pitch of 15cm for regular, even work across the entire width of the tool. Continuously variable hydraulic roller adjustment makes for rapid implementation and easy adjustment from the cab. Work rate is high, with working speeds of up to 12km/h. The PROLANDER 100 R is lightweight and compact, making it ideal for use on smaller tractors.



Available equipment

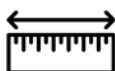
Front-tools		Levelling boards
Eraser		Track eradicators
Tines		70 x 12mm
Shares	 Reversible straight share  Straight carbide point 50/30  Duck-foot share  Carbide duck-foot share	
Harrows	 Levelling blades  Rear harrow	
Rollers	 TUBE  T-RING  T-LINER  FLEXLINER  V-LINER  DOUBLE TUBE/SMOOTH BAR  TRIPLE HARROW	
Depth adjustment	 Mechanical  Continuous hydraulic	
Seeding implements	 Front hopper kit for seeding in front of the roller  Front hopper kit for tine seeding	

THE 6 AND 7.5 METRE TRAILED PROLANDERS

The **PROLANDER 6000-7500** offers greater work rates with intermediate-sized tractors. Power requirements are low, with only 25 to 35 horsepower per metre needed to reduce fuel consumption. Working comfort is ensured by depth adjustment from the cab.



150 - 300 hp



6 / 7.5 metres



6 to 8.5 ha/h

Technical specifications

	6000	7500
Min. tractor power (kW/hp)	110/150	140/190
Max. tractor power (kW/hp)	175/240	220/300
Working width (m)	6	7.5
Transport width (m)	2.83	
Transport height with tines on the ground (m)	3.25	4
Number of tines	39	49
Type of tine	Vibrating 'S' tines 70x12mm or 90x13mm	
Working depth (cm)	3 to 12	
Working depth adjustment	Hydraulic assistance as standard	
Available rollers	Double U, Double Tube/Bar	
Weight (in kg), with Double Tube/Bar roller	4860	5570

The PROLANDER 6000-7500 can be fitted with 70x12mm or 90x13mm tines, and a range of points and shares, depending on the work required. They have 5 rows of tines with an increasing distance between each row for a uniform result across the entire width of the machine.



Available equipment

Linkages	Tow ring	Ball joint	K80	3 crossbar	3/4 crossbar
Front-end tools	Levelling boards				
Tines	70 x 12mm		90 x 13mm		
Shares	Reversible straight share	Straight carbide point 50/30	Duck-foot share	Carbide duck-foot share	
Harrow	Intermediate harrow (with Double Tube/Bar)			Rear harrow	
Rollers	DOUBLE U			DOUBLE TUBE/BAR	
Depth adjustment	Continuous hydraulic				
Gauge wheels	With gauge wheels				
Ground tracking	Floating drawbar position				
Seeding implements	Seeding in front of the roller with the SH 600		Front hopper kit for seeding in front of the roller		Front hopper kit for tine seeding

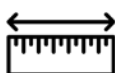
PROLANDER 9000 | 12000 | 14000

THE 9, 12 AND 14 METRE TRAILED PROLANDERS

The wide PROLANDER models are designed for work rates of up to 16 hectares per hour, so you can prepare your soil in the best possible conditions. The simple, efficient design combines comfort, performance and quality of work.



250 - 600 hp



9 / 12 / 14 metres



9 to 16 ha/h

Technical specifications

	9000	12000	14000
Min. tractor power (kW/hp)	184/250	221/300	257/350
Max. tractor power (kW/hp)	265/360	368/500	441/600
Working width (m)	9.2	12.2	14.2
Transport width (m)	3		
Number of tines	59	79	91
Type of tine	Vibrating 'S' tines 70x12mm or 90x13mm		
Working depth (cm)	3 to 12		
Transport wheel dimensions	710 / 45 x 22.5		
Working depth adjustment	Mechanical		
Available rollers	Double U, Double Tube/Bar		
Linkages	3/4/4N crossbar - K80 - Ball joint		3/4/4N crossbar - K80
Weight (in kg), with Double U roller	8490	12000	13000

At the headland, HLC (Headland Lift Control) technology enables the secondary extensions of the 12 and 14 metre models to be raised to ensure sufficient clearance at the headland. This action is managed automatically when the machine is raised.



Available equipment

Linkages	Ball joint	K80	3 crossbar	3/4 crossbar
Front-end tools			Levelling boards	
Tines	70 x 12mm			90 x 13mm
Shares	Reversible straight share	Straight carbide point 50/30	Duck-foot share	Carbide duck-foot share
Harrows		Levelling blades		Rear harrow
Rollers		DOUBLE U		DOUBLE TUBE/BAR
Depth adjustment			Mechanical spindles	
Gauge wheels			With gauge wheels	
Ground tracking		Floating drawbar position	Float position of the extensions	

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THE LINK TO MY SUCCESS

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Discover the KUHN ranges of soil preparation equipment



1. PROLANDER vibrating tine cultivator - 2. OPTIMER independent disc stubble cultivator - 3. CULTIMER tine stubble cultivator - 4. PERFORMER tine/disc cultivator - 5. STRIGER 100 strip till implement

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KUHN NORTH AMERICA, INC. - 1501 West Seventh Avenue - Brodhead, WI 53520 - USA

KUHN FARM MACHINERY PTY. LTD - 313-325 Foleys Road - Deer Park, VIC, 3023 - AUSTRALIA

KUHN FARM MACHINERY (U.K.) LTD - Stafford Park 7 - GB TELFORD/ SHROPS TF3 3BQ

To find your nearest KUHN dealer,
visit our website www.kuhn.com

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