

Reversible ploughs

MASTER 103 series



www.kuhn.com



be strong, **be KUHN**



The KUHN plough



The KUHN plough

The future of farming lies in competitiveness and profitability.

The MASTER range concept with its advanced features will contribute to a quick return on your investment.

The Kuhn plough will allow you to:

- Maintain a high quality soil structure with an efficient burial of organic matter and an even aggregate spread throughout the soil profile - crop yields will be increased.
- Have at your disposal a wide range of working width settings and an excellent overall manoeuvrability - "in field" costs will be reduced.
- Benefit from a number of technological innovations such as the reinforced box section, the variable width, the plough structure protection systems (Hydraulic non-stop or traction bolt) - the working life of the plough is increased and maintenance costs reduced.
- Profit from a renowned reliability and long working life allowing you to work throughout the day without interruption - your plough will also keep a high second-hand value.

Opt for a Kuhn plough - because obtaining high yields and optimizing financial results all starts with high quality ploughing.

KUHN offers solutions for ploughing while meeting your requirements with regards to :





MASTER 103

HIGH STRENGTH HEADSTOCKS AND FRAME

Robust, reliable and economic ploughs.

- Large trash burial capacity, the traction bolt models can be adjusted from 70 cm to 75 cm underbeam clearance.
- Independently mounted skimmers for quick and easy adjustment.
- Depth control wheel in line with frame.
- Transport wheel fitted with suspension.



MONOBLOC HEADSTOCK

Quick-hitch cross-shaft, with adjustable height on model 4E/5T.

Turnover shaft in treated alloy diameter :

- 70 mm on 2E/3T
- 85 mm on 2E/3NSH and 3E/4T
- 90 mm on 3E/4NSH
- 105 mm on 4E/5T

Simple adjustment of levelling by screw stops.

Built-in toolbox in headstock for models 3E/4NSH and 4E/5T.



PLOUGH LEG SAFETY IN ALL CONDITIONS

DEPTH AND TRANSPORT WHEELS.

The Ø 500 mm steel, or Ø 600 mm rubber tyre wheel follows any change of ploughing width. It features simple depth adjustment by screw adjuster, with the possibility of setting left and right sides differently.

It can be placed in many positions on the frame to ensure optimum positioning for all conditions.

PROTECTION BY TRACTION BOLT.



THE EXCLUSIVE TRACTION-BOLT SYSTEM OFFERS THE FOLLOWING ADVANTAGES :

Clean fracture of the bolt under traction following a force at the share-point of 3000 kg avoids "over-breakage".

- Avoids the problems commonly associated with shear-bolts.
- Easy replacement after fracture of the Ø 14 mm traction bolt.
- The lack of wear, even after many seasons, ensures that the plough points are always held in line.



HIGH STRENGTH FRAME



Simplified adaptation to tractor wheel settings. Mechanical adjustment of plough angling (front furrow width).

Frame section :

- 100 mm for 2E/3T & NSH - 3E/4T
- 120 mm for 3E/4NSH - 4E/5T
- 100 mm for extension.

TWO POSITION PLOUGH LEG

In traction bolt models the underbeam clearance can be adjusted from 70 to 75 cm.



HYDRAULIC AUTO-RESET NSH SYSTEM

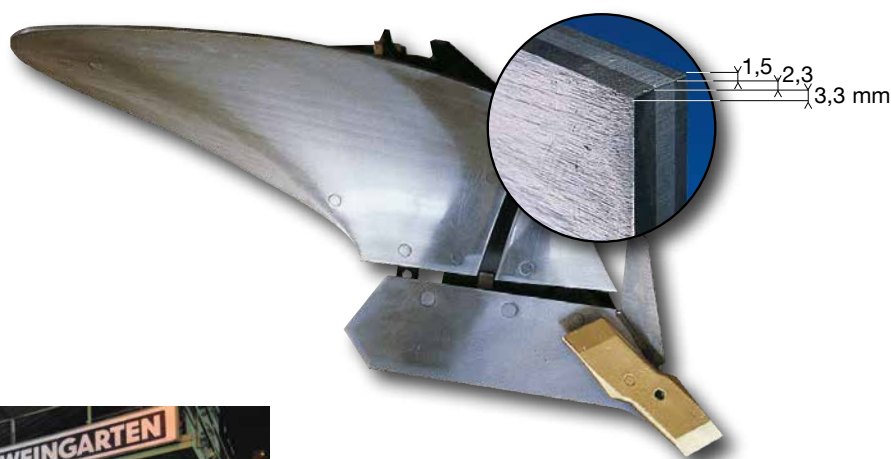


The main benefits :

- Long life and efficiency : hydraulic technology is more efficient with no wear or friction.
- Lightness : there is a weight saving of up to 25 kg per plough leg compared with mechanical auto-reset systems.
- Ease of adjustment : quick and easy adjustment of the pressure at share-point from 700 to 1300 kg.
- Excellent performance : plough leg resetting is positive and firm once the obstacle is passed.
- Compactness : the hydraulic cylinder is integrated into the leg profile to avoid possible trash blockage.
- Exceptional obstacle clearance : the share point can lift to a height of 60 cm with a side to side clearance of 20 cm.

PLOUGH BODIES DESIGNED TO SAVE ON COSTS

1 - MOULDBOARDS WITH UNEQUAL LAYER TRIPLEX STEEL



EXCLUSIVE TO KUHN

- Kuhn mouldboards are made of unequal layer Triplex steel.
- The thickness of the wearing surface is increased to 3.3mm - an exclusive feature.

2 - PLOUGH BODIES DESIGNED TO REDUCE WEARING COST



Shares are forged with a force of 5500 tonnes ensuring:

- excellent wear resistance,
- self-sharpening profile due to the grain in the steel resulting from the forging process.



MARATHON®

Special heat treated forged steel. Reversible for maximum efficiency. Featuring a step giving better landside protection.



OLYMPIC®

Special heat treated forged steel. Reversible for maximum efficiency. More pronounced form at wearing zones on the point for longer life and better protection of the landside. Point is self sharpening for good ground penetration at all times.



SUPER MARATHON®

Special heat treated forged steel fitted with a tungsten carbide tip. High wear resistance. Four to five times the life of a traditional share point. A sharp working edge is maintained for excellent ground penetration.





CLASSIC TYPE PLOUGH BODIES



N BODY

Helicoidal cylindrical semi-digger.
15 to 30cm ploughing depth.
Highly versatile body.
Cylindrical at front, helicoidal at rear. Low draft, ensures a partly broken furrow, with excellent trash burial.



L WIDE HELICOÏDAL H4 BODY (ALSO AVAILABLE IN PLASTIC)

The capacity, long helical mouldboard, Scandinavian type, giving well formed ploughing to a depth of 30cm. Especially suited to heavy and damp clays. (H6 gives ploughing depth to 35cm).



VP SLATTED BODY

Mouldboard composed of independant and interchangeable slats. Gives a reduction of traction force, due to a lower mouldboard surface area. Easy maintenance.





TRASHBOARD

For trash burial in difficult conditions where the quantity of trash may otherwise block up the skimmers.



ALL PURPOSE ZX SKIMMER

Well adapted to ploughing on cereal or maize stubbles. ZXL : large share, ZXE : small share.



HELICOIDAL ZH SKIMMER

Helicoidal skimmer for deep trash burial. Well adapted to grassland ploughing.



ZRL HIGH CAPACITY SKIMMER

High capacity skimmer for trash incorporation throughout the soil profile. Excellent straw and maize trash burial.

PRESS ARMS WITH HYDRAULIC RELEASE



Available for the complete plough range the arm allows the use of a furrow press with easy hooking up and hydraulic push-off. On the pick-up hook part of the arm where there is most risk of damage all grease nipples and hydraulic hoses are protected inside the structure of the head. The arm folds up conveniently for subsequent transport.

Specifications

MASTER 103

Model	Beam configuration E : Extensible	Max authorized tractor power (kW/hp)	T Safety				NSH Safety			
			Weight* (kg)	Working width (inches/cm)	Clearance (cm)		Weight* (kg)	Working width (inches/cm)	Clearance (cm)	
					under beam	point to point			under beam	point to point
Master 103	2 E	44/60	530	14"/35 cm and 16"/40 cm	70 and 75	90	675	14"/35 cm and 16"/40 cm	70	90
	3 (2+1)	66/90	740				895			
	3 E		755				965			
	4 (3 + 1)	88/120	965				1190			
	4 E		995							
	5 (4 + 1)	110/150	1195							
	Frame section Ø100 for 2E/3 on T and NSH and 3E/4 on T Ø120 for 3E/4 NSH and 4E/5 on T									

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Your KUHN dealer

KUHN HUARD S.A.

Rue du Québec - BP 49 - F-44142 Châteaubriant Cedex-France

KUHN NORTH AMERICA, INC.

1501 West Seventh Avenue - P.O BOX 167 - Brodhead, WI 53520 - USA

KUHN FARM MACHINERY PTY. LTD

313-325 Foleys road - Deer Park, 3023 Victoria AUSTRALIA

KUHN FARM MACHINERY (U.K.) LTD

Stafford Park 7 - GB TELFORD/SHROPS TF3 3BQ

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