



Semi-Mounted Rollover Plows
LEADER / MANAGER / CHALLENGER



A PLOW TO FIT YOUR TILLAGE NEEDS

PLOWING – SOMETIMES THE WELL-PROVEN WAYS ARE BEST! LONG-TERM, PROFITABLE FARMING REQUIRES INTIMATE KNOWLEDGE OF YOUR SOIL'S STRUCTURE AND OVERALL FERTILITY. WITH THE CONTINUED INCREASE OF HERBICIDE RESISTANT WEEDS AND CROPS THAT PRODUCE TREMENDOUS VOLUMES OF RESIDUE, SAVVY PRODUCERS HAVE REALIZED THE VALUE A PLOW BRINGS TO THEIR TILLAGE PRACTICES.



TIME TESTED

With KUHN plows, you are investing in a time-tested yet innovative solution for maximizing your crop's yield potential, while at the same time keeping your operating costs in check.

BUILT TO LAST

Benefit from a number of features including reinforced box sections, rapid adjustment of furrow widths and superior protection systems. With renowned reliability and long working life, you'll be able to focus on more important things while out in the field.

Models	Main Frame Size	Number of Bottoms (per Side)
Multi-Leader XT	7" (18 cm)	7 – 9
Vari-Leader	7" (18 cm)	6 – 8
Vari-Manager	7" (18 cm)	5 – 8
Challenger OL	8.7" (22 cm)	7 – 12

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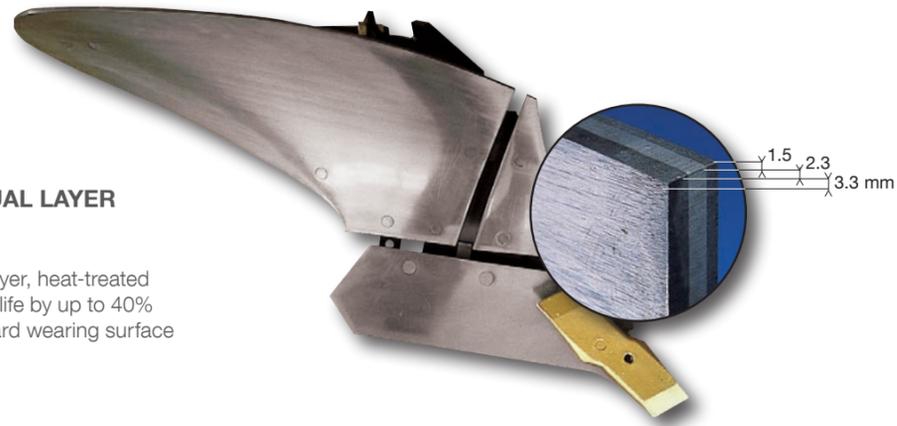
SEMI-MOUNTED ROLLOVER PLOWS

PLOW BOTTOMS DESIGNED TO SAVE ON COSTS



MOLDBOARDS WITH UNEQUAL LAYER TRIPLEX® STEEL

Moldboards are made of unequal layer, heat-treated Triplex steel that increases working life by up to 40% longer than standard steel with a hard wearing surface over 1/8" (3 mm) thick.



DESIGNED TO REDUCE WEAR

Shares are forged with a force of 6,000 tons (5,440 metric tons) ensuring:

- Excellent wear resistance
- Self-sharpening profile due to the grain in the steel resulting from the forging process

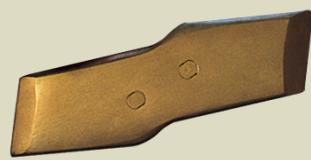


SHARE POINTS



OLYMPIC
(Standard)

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.



MARATHON

Reversible for maximum efficiency and features a step, resulting in better landside protection.



SUPER MARATHON

Fitted with a tungsten carbide tip. High wear resistance with four to five times the life of a traditional share point. A sharp working edge is maintained for excellent ground penetration. Excellent for highly abrasive soils without rocks or stones.



CHOOSE THE MOLDBOARD THAT FITS YOUR SOIL CONDITIONS



H4 MOLDBOARD

The H4, helicoidal, Scandinavian-type moldboard provides well-formed plowing to a normal depth range of 7-12" (18-30 cm). The share is fitted with a reversible/replaceable point that greatly increases the life of the share.

Recommended for fall plowing, the H4 bottom is especially suited for heavy and damp clays. Furrow passes are well defined and trash burial is excellent.



N MOLDBOARD

The helicoidal-cylindrical, semi-digger N moldboard plows to a depth of 14" (36 cm). Designed as a highly versatile bottom, it is cylindrical at the front and helicoidal at the rear. A low draft ensures a partly broken furrow with excellent trash burial.

Recommended for spring plowing, this moldboard is versatile and works well in sandy or clay soils.



VP SLATTED MOLDBOARD

The VP slatted moldboard is composed of independent and interchangeable slats. Due to a lower moldboard surface area, reduced pulling power is required.

Designed for use in extremely sticky muck and clay soils. Not for use in sand or loam soils or in soils with rocks or stones. The multiple slats allow individual replacement when worn.



L MOLDBOARD

The L moldboard is a multi-purpose design that works especially well for in-furrow plowing. Its design cuts a wide furrow bottom to accommodate large tractor tires.

The L moldboard will also create varying field finishes depending on the working speed. Slower speeds make more pronounced furrows, while faster speeds provide a flatter field finish.



SEMI-MOUNTED ROLLOVER PLOWS

CHOOSE YOUR PLOW LEG PROTECTION

With KUHN plows, you can customize your plow leg protection to best suit your working conditions. Traction-Bolt (T) security is an economical choice and is best suited for sandy or loam soils free of large rocks. Non-Stop Hydraulic (NSH) reset is the trouble-free choice for rocky or hard soils, and provides ultimate protection with continuous plowing.

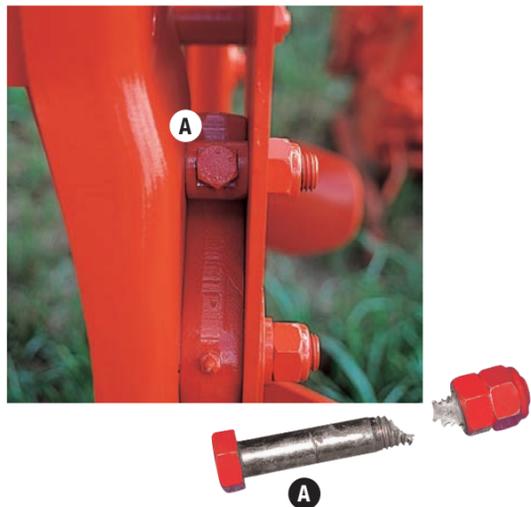


TRACTION-BOLT (T)* – AVOIDS THE PROBLEMS OF SHEAR BOLTS

A clean break of the traction-bolt, following a force of 5,280 – 8,820 pounds (2,395 – 4,000 kg) at the plow point, avoids the risk of nuisance shearing.

- The bolt (A) runs in the direction of the line of force and is pulled apart – unlike shear bolts which are cut
- The bolt support never deforms or becomes rounded
- Once the bolt breaks, it simply falls away for quick and easy replacement
- After years of use the plow bodies remain perfectly in line

*Only available on Multi-Leader XT and Challenger Series plows



NON-STOP HYDRAULIC (NSH) RESET

When a field obstacle is met, a rapid breakaway of the plow leg occurs. Once the obstacle is passed there is an increase in pressure, bringing the body quickly and firmly back into working position. The system also acts as a shock absorber in rocky ground, increasing plow life.

BENEFITS:

- Each bottom is 55 pounds (25 kg) lighter than a mechanical auto reset system
- Share points lift up 24" (60 cm) or move 8" (20 cm) to either side
- More reliability and less wear with hydraulic technology
- Quick share point adjustments from 1,320 – 2,860 pounds (599 – 1,297 kg)

Optional MaxiBar system: allows the top tripping pressure to be increased from 2,860 – 5,500 pounds (1,297 – 2,495 kg), while maintaining the flexibility of the system. Recommended for very hard soils such as dried clay.

HEAVY-DUTY PLOW LEG ARTICULATION AND TIE ROD

All force is transmitted in a straight line through a one-piece, forged and heat-treated tie rod.



CUSTOMIZE YOUR TRASH BURIAL



TRASHBOARD

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



HELICOIDAL ZH SKIMMER

Helicoidal skimmer provides deep trash burial and is well-adapted to grasslands and fields with cover crops.



ZRL HIGH-CAPACITY SKIMMER

High-capacity skimmer incorporates trash throughout the soil profile including excellent straw and corn trash burial.



ZXL ALL-PURPOSE SKIMMER

Versatile skimmer with a large share. Well suited to plowing moderate amounts of small grain or corn stubble.



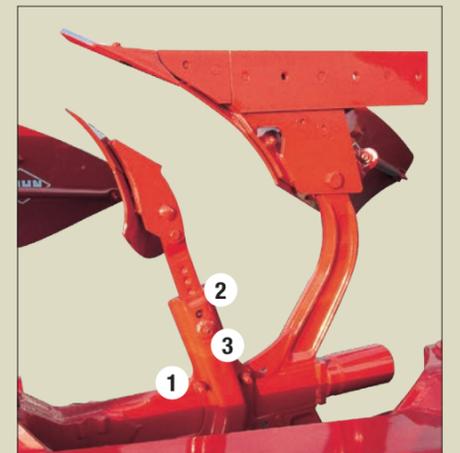
DISC COULTERS

Discs have a diameter of 20" (51 cm), plain or notched, with the added choice on the Traction-Bolt models of a 23" (58 cm) disc. The disc serves to cut the furrow wall in front of the plow body giving a cleaner finish and improving trash incorporation.



PRESS ARMS WITH HYDRAULIC RELEASE

The press arms allow for the use of aftermarket rollers with easy hookup and hydraulic push off. On the pickup hook part of the arm, where there is the most risk of damage, all grease zerks and hydraulic hoses are protected inside the structure of the head. The arm folds up either mechanically or hydraulically for transport.



INDEPENDENT, ADJUSTABLE SKIMMERS

Each skimmer is independent of another and firmly held in a sheath-like support. The skimmers are shear bolt protected and are adjustable in three directions:

- 1 Forward and backward – with a choice of three positions, the sheath bolts to the leg support via countersunk holes to avoid any risk of free play.
- 2 Up and down – rapid and precise height adjustment [8" (20 cm) of adjustment] with countersunk holes in the skimmer leg for easy locking of the leg for the desired height.
- 3 Side to side – for correct adjustment in relation to the disc coulters (where fitted).

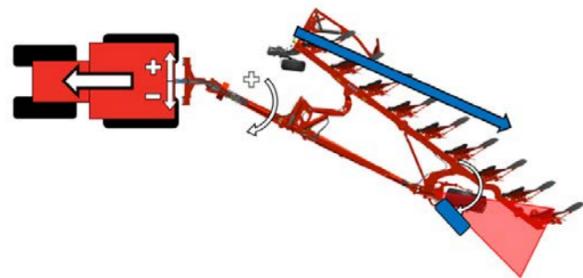


SEMI-MOUNTED ROLLOVER PLOWS LEADER

OPTIMIZED PLOWING

The Multi-Leader XT and Vari-Leader offer an ideal combination of maneuverability, productivity and toughness in demanding applications. The single, large wheel mounted close to the frame provides depth control and transportation capabilities while contributing to a short turning radius for tight areas.

Both the Multi-Leader XT and Vari-Leader are built around numerous proven KUHN plow components, including Triplex steel moldboards, a heavy-duty frame, and choice of reset systems.



A STRAIGHTER PULL

The Multi-Leader XT features a patented wheel angle correction system that optimizes the way the plow pulls through the field. Adjusting the angle of the wheel to ensure the moldboards are running in-line with the tractor's direction of travel reduces fuel consumption and creates consistent furrows, especially when utilizing GPS or RTK steering assistance. This system works in both In-Furrow and On-Land applications.



Hydraulic sequencing comes standard, meaning fewer valves to operate during headland turns.



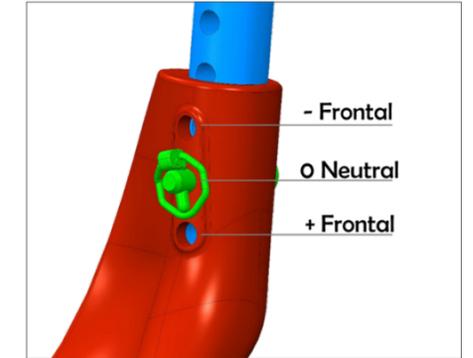
EXTENDABLE DESIGN

The Multi-Leader XT and Vari-Leader use a modular frame design with different pieces depending on the number of bottoms. As your operation and available horsepower grow, adding an extension section allows your plow to grow with you.



WORKING QUALITY

For even more consistent depth control at the front of the main beam, the Multi-Leader XT offers an additional depth wheel as an option. This wheel can be folded up and out of the way when not needed.



3D SKIMMER ADJUSTMENTS

The Multi-Leader XT offer optional skimmers to aid in the complete burial of sod and/or crop residue. These skimmers are a new and patented "3D" design featuring easy, tool-free adjustments. Simply pulling and repositioning the pin (shown above in green) changes both the depth and attack angle of the skimmer. In addition, the shape of the skimmer and mount helps to facilitate smooth residue and soil flow through the plow.



ON-LAND CAPABILITY

The soil sometimes requires wide or dual tires that cannot be used for in-furrow plowing. The Multi-Leader XT and Vari-Leader are both available in On-Land versions. If the tractor is setup for other applications that require duals or wide tires, with the on-land model, it is no longer necessary to remove the duals in order to use it for plowing.

In addition, on-land plowing has other advantages too:

- Less compaction at the bottom of the furrow
- Reduced wear on the sidewalls of the tires in rocky conditions

THE MULTI-LEADER XT ADVANTAGE:

The Multi-Leader XT is available with up to 9 bottoms for greater productivity in larger fields. To adjust the working width of each bottom, simply move the bolt into the desired hole on the beam.

MULTI-LEADER XT

Working Width per Bottom	Total Working Width		
	Number of Bottoms		
	7	8	9
14" (36 cm)	8' (2.4 m)	9' (2.7 m)	10' (3 m)
16" (41 cm)	9' (2.7 m)	10' (3 m)	12' (3.7 m)
18" (46 cm)	10' (3 m)	12' (3.7 m)	13' (4 m)
20" (51 cm)	11' (3.4 m)	13' (4 m)	15' (4.6 m)

THE VARI-LEADER ADVANTAGE:

On Vari-Leader plows, cutting width can be adjusted on-the-go from the cab. This is beneficial for plowing in smaller and non-square fields, and when plowing different soil types.

VARI-LEADER

Working Width per Bottom	Total Working Width		
	Number of Bottoms		
	6	7	8
14" (36 cm)	7' (2.1 m)	8' (2.4 m)	9' (2.7 m)
16" (41 cm)	8' (2.4 m)	9' (2.7 m)	10' (3 m)
18" (46 cm)	9' (2.7 m)	10' (3 m)	12' (3.7 m)
20" (51 cm)	10' (3 m)	11' (3.4 m)	13' (4 m)
22" (56 cm)	11' (3.4 m)	12' (3.7 m)	14' (4.3 m)

SEMI-MOUNTED ROLLOVER PLOWS LEADER

SIMPLE SETTINGS FOR OPTIMUM WORK QUALITY

Quality plowing makes seedbed preparation easier and reduces power consumption. This is possible through precise, easily accessible settings. Leveling, working depth and offset adjustments are tool free.



POWERFUL STRUCTURE PROVIDES RELIABILITY

The design and construction of the Leader plow models are suited for the most intense working conditions.



A wide range of hitch categories are available (Cat. 3, 4N, 4, Quick hitch 3 and 4N) to adapt to medium and high power tractors (135 to 360 hp).



A stub axle mounted on tapered roller bearings makes this turning system incredibly reliable.



With two telescopic, single-acting cylinders, headland turns are jolt free. This also reduces stress on the tractor's lift arms allowing for optimum comfort during turns.



For added reliability, the structure is made using a large, machine-welded frame measuring approximately 7" x 7" (18 cm x 18 cm).



A large tire supported on both sides ensures stability in headland turns and provides a longer hub life. The 500/60-22.5 lug-type tire shown above is standard on the Multi-Leader XT and optional on the Vari-Leader models.



For more stability in transport, as well as frame protection during road travel, the lifting cylinder is equipped with hydropneumatic suspension.



Spacers on the left cylinder provide plenty of depth. The number of spacers allows for a point of reference.



Leveling is independent, left or right via stop for extra precision.



Adjusting the plow's offsets is done by a hydraulic cylinder (optional). This adjustment can go from 39" to 69" (99 to 175 cm). A gauge visible from the tractor allows for precision setting of the machine.



SEMI-MOUNTED ROLLOVER PLOWS VARI-MANAGER

THE ALL AROUNDER



HYDRAULIC SEQUENCING

In the tractor cab, the same lever controls both the lifting out of work and rollover of the plow in one combined automatic operation; greatly simplifying headland maneuvers and reducing operator fatigue.



LARGE HYDRAULIC OFFSETTING ADJUSTMENT

Large adjustments can be made to the plow offsetting (its angle in relation to the tractor) from the tractor seat by activating one of the hydraulic valve levers. This allows for easy adaptation to all possible tractor wheel spacings.



THE TWO-WHEEL UNDERCARRIAGE

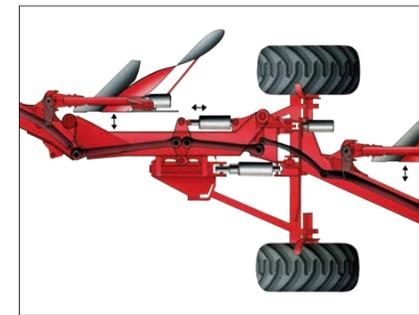
The undercarriage results in a substantial reduction in the strain put on the tractor arms during rollover. This engineering concept also lowers the center of gravity. Rollover is carried out by two direct-acting, horizontal cylinders with no complex mechanical linkages. This very simple rollover system has a small number of moving parts, reducing both the risks of wear and possible maintenance requirements. The system comes complete with a hydraulic leveling lock.



BEAM ARTICULATION

The beam articulation allows the plow to follow undulating terrain for a constant plowing depth along the length of the plow. When coming out of work, while the front bottoms are lifted out of the ground, the rear bottoms remain at a constant working depth giving reduced headlands and a neater finish.

The articulation locks automatically when coming out of work and remains locked during all movement. The articulation is unlocked as soon as the plow is put back into the ground.



ALL MOVING PARTS FULLY INTEGRATED INTO THE PLOW BEAM

- The linkage mechanism responsible for the variable width changes is housed inside the plow beam
- All links and moving joints are fully protected from abrasive agents (dust, corrosion, any possible impact damage)
- The plow beam ensures a long, trouble-free, working life



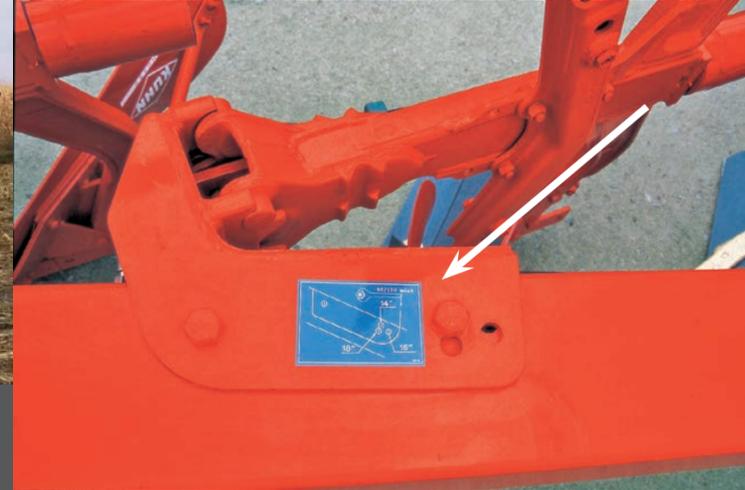
ADVANTAGES OF THE VARIABLE WIDTH SYSTEM

- Adapts quickly to available traction
- Adapts to different soil types, ground undulations and field sizes while maintaining a high work rate
- Alternates the plow profile between spring and fall plowing
- Copes with large amounts of trash
- Neatly finishes up to the field border
- Avoids obstacles and forms a tidier furrow

SEMI-MOUNTED ROLLOVER PLOWS CHALLENGER

KUHN'S SOLUTION FOR HIGH HORSEPOWER TRACTORS

The Challenger is without a doubt, the plow for high horsepower tractors and extremely difficult working conditions. The 8.7" x 8.7" (22 x 22 cm) main beam provides a sturdy backbone for 7 to 12 bottoms, while both traction (T) or nonstop hydraulic (NSH) reset systems are available. On-land capability is standard to match with large tractors fitted with tracks or duals.



MULTIPLE WORKING WIDTHS

Whether a Traction-Bolt or Non-Stop Hydraulic (NSH) model, changes in working width to settings of either 14", 16" or 18" (36, 41 or 46 cm) are quick and easy to carry out. The width-setting bolt is removed and the plow legs pivot to the desired width. The rear beam angle is changed in the same manner as the articulation joint—it moves positions corresponding to the required setting width.

LARGE OFFSETTING ADJUSTMENT

Large adjustments can be made to the plow offsetting (its angle in relation to the tractor) from the tractor seat by simply activating a hydraulic lever. This allows for easy adaptation to a wide range of tractor wheel spacings and also permits a complete cancellation of the effect of the first bottom for particular circumstances, i.e., finishing a field, going around obstacles, etc.

TRAIL LINK

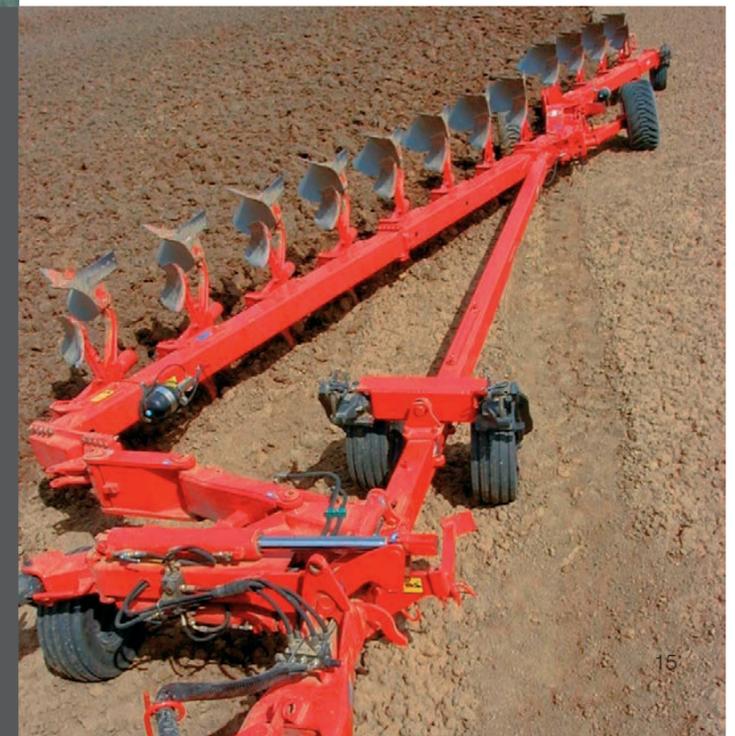
No three-point hitch available? No problem! The Trail Link is an additional front carriage for Challenger plows. Its height-adjustable drawbar hitch easily connects to large 4-wheel drive or track tractors with a "bareback" configuration. Adjustable tire spacing and optional weights help to optimize the Trail Link for your operation.

ON-LAND PLOWING

Benefits:

- Greater distribution of weight load, lowering compaction to a minimum
- Reduced tire wear on rocky ground
- Extra-wide tires or dual wheels can be used
- Time savings – not necessary to remove dual wheels for plowing

The Challenger can be easily transformed back to an "in-furrow" plow if wet conditions reduce traction on land.



SEMI-MOUNTED ROLLOVER PLOWS VARI-CHALLENGER



REAR BODY LIFT

Hydraulic lift allows for progressive furrow entry by angling the main beam. This creates a smoother and more even headland and lowers fuel consumption. The rear section (behind the transport wheels) can be lifted out of the ground completely so only the front section is plowing, reducing power requirements in extremely difficult soil conditions.



VERSATILITY

The Vari-Challenger includes an on-land hitch as standard equipment to accommodate large tractors with dual wheels. An available offset hitch kit offers even further clearance for extra-wide tires. Tracked tractors will especially benefit from the optional front mounted undercarriage, as it reduces the weight on the tractor for improved traction and handling. If the conditions require, the plow can also be converted to an in-furrow machine.



PROTECTION AND DURABILITY

Strength and durability starts with a strong backbone. In this case, the main beam measures a stout 8.7" x 8.7" (22 x 22 cm). Many of the moving parts have been integrated into the machine's structure to safeguard against impact, humidity and dust. Non-Stop Hydraulic (NSH) reset comes standard and protects the points, shares, and other critical components from damage by rocks or foreign objects. The NSH system allows each individual bottom to move up to 27.5" (70 cm) vertically and nearly 8" (20 cm) laterally.

THE ULTIMATE SEMI-MOUNTED ROLLOVER PLOW

Combining excellent productivity with easy hydraulic adjustment, the KUHN Vari-Challenger is the ultimate semi-mounted rollover plow. This high-performance machine offers up to 10 bottoms per side to cover large fields quickly with unmatched weed and residue burial. Infinitely adjustable plowing widths from 14" – 22" (36 – 56 cm) allow you to hydraulically adapt to changing field conditions from the comfort of the tractor cab. Hydraulic articulation keeps the forged shares and the Triplex™ steel moldboards firmly in the ground, even in undulating terrain. Thanks to the pivoting hitch headstock, turns up to 110° are possible to save valuable time at the headlands and on the road.



HYDRAULIC ARTICULATION

This exclusive system helps maintain consistent plowing depth as terrain changes. Hydraulic accumulators maintain pressure on the rear section to ensure it plows at the same depth as the front. In addition, the front and rear sections can be locked together as conditions dictate.



Technical Specifications	Vari-Challenger Series		
	VARI-CHALLENGER OL 8E	VARI-CHALLENGER OL 9E	VARI-CHALLENGER OL 10
Number of bottoms per side	8 (5+3)	9 (5+4)	10 (6+4)
Extendable by one bottom	Yes, at rear	Yes, at front	No
Standard moldboards	L : Wide helicoidal		
Hydraulic rollover with 2 cylinders	Standard		
Approximate machine weight for NSH version	14,092 lbs (6,392 kg)	14,974 lbs (6,792 kg)	15,856 lbs (7,192 kg)
Working width	14" - 22" (35 - 56 cm) hydraulically adjustable		
Underbeam clearance	31.5" (40 cm)		
Point to point clearance	40" (102 cm)		
On-land hitch kit	Standard		
Tires	400/70-24		
Two-wheel undercarriage with suspension for transport	Standard		
Sequencing valve - combines lift and rollover functions	Standard		
Hitch	Cat. 3 with cross-shaft		
Beam dimensions	8.7" x 8.7" (220 x 220 mm)		
Offset and angling adjustment	Hydraulic		
Adjustable depth wheel with tire	Standard		

Technical Specifications				Multi-Leader Series				
	MULTI-LEADER XT 7E	MULTI-LEADER XT 8	MULTI-LEADER XT 8E	MULTI-LEADER XT 9	MULTI-LEADER XT OL 7E	MULTI-LEADER XT OL 8	MULTI-LEADER XT OL 8E	MULTI-LEADER XT OL 9
Number of bottoms per side	7 (3+4)	8 (3+4+1)	8 (4+4)	9 (4+4+1)	7 (3+4)	8 (3+4+1)	8 (4+4)	9 (4+4+1)
Extendable by one bottom	Yes	No	Yes	No	Yes	No	Yes	No
Standard moldboards	L : Wide helicoidal				L : Wide helicoidal			
Hydraulic rollover with 2 cylinders	Standard				Standard			
Minimum allowable power	180 hp (132 kW)	200 hp (147 kW)		220 hp (162 kW)	180 hp (132 kW)	200 hp (147 kW)		220 hp (162 kW)
Maximum tractor power	315 hp (232 kW)	360 hp (265 kW)		405 hp (298 kW)	315 hp (232 kW)	360 hp (265 kW)		405 hp (298 kW)
Approximate machine weight for T version	9,257 lbs (4,199 kg)	9,802 lbs (4,446 kg)	9,985 lbs (4,529 kg)	10,529 lbs (4,776 kg)	10,536 lbs (4,779 kg)	11,265 lbs (5,109 kg)	11,263 lbs (5,109 kg)	11,808 lbs (5,356 kg)
Approximate machine weight for NSH version	9,894 lbs (4,488 kg)	10,525 lbs (4,776 kg)	10,708 lbs (4,857 kg)	11,338 lbs (5,143 kg)	11,173 lbs (5,068 kg)	11,990 lbs (5,437 kg)	11,987 lbs (5,437 kg)	12,617 lbs (5,723 kg)
Working width	14", 16", 18", or 20" (35, 40, 45, or 50 cm) delivered at 16" (40 cm)				14", 16", 18", or 20" (35, 40, 45, or 50 cm) delivered at 16" (40 cm)			
Underbeam clearance	31.5" (80 cm) T, 33.5" (85 cm) NSH				31.5" (80 cm) T, 33.5" (85 cm) NSH			
Point to point clearance	40" (102 cm)				40" (102 cm)			
Tires	500/60-22.5 (single wheel)				500/60-22.5 (single wheel)			
Sequencing valve - combines lift and rollover functions	Standard				Standard			
Hitch	Cat. 3 with cross-shaft				Cat. 3 with cross-shaft			
Beam dimensions	7.1" x 7.1" (180 x 180 mm)				7.1" x 7.1" (180 x 180 mm)			
Offset adjustment	Hydraulic				Hydraulic			
Side transport and depth wheel	Standard				Standard			

Technical Specifications				Vari-Leader Series		
	VARI-LEADER 6E	VARI-LEADER 7E	VARI-LEADER 8	VARI-LEADER OL 6E	VARI-LEADER OL 7E	VARI-LEADER OL 8
Number of bottoms per side	6	7	8	6	7	8
Extendable by one bottom	Yes	Yes	No	Yes		No
Standard moldboards	L : Wide helicoidal			L : Wide helicoidal		
Hydraulic rollover with 2 cylinders	Standard			Standard		
Minimum allowable power	135 hp (101 kW)	158 hp (116 kW)	180 hp (132 kW)	135 hp (101 kW)	158 hp (116 kW)	180 hp (132 kW)
Maximum tractor power	270 hp (198 kW)	315 hp (235 kW)	360 hp (268 kW)	270 hp (198 kW)	315 hp (235 kW)	360 hp (268 kW)
Approximate machine weight for NSH version	8,487 lbs (3,850 kg)	9,402 lbs (4,265 kg)	10,273 lbs (4,660 kg)	8,487 lbs (3,850 kg)	9,402 lbs (4,265 kg)	10,273 lbs (4,660 kg)
Working width	14" - 22" (35 - 56 cm) hydraulically adjustable			14" - 22" (35 - 56 cm) hydraulically adjustable		
Underbeam clearance	31.5" (80 cm)			31.5" (80 cm)		
Point to point clearance	40" (102 cm)			40" (102 cm)		
On-land hitch kit	Standard			Standard		
Tires	500/45-22.5			500/45-22.5		
Sequencing valve - combines lift and rollover functions	Standard			Standard		
Hitch	Cat. 3 with cross-shaft			Cat. 3 with cross-shaft		
Beam dimensions	7.1" x 7.1" (180 x 180 mm)			7.1" x 7.1" (180 x 180 mm)		
Offset and angling adjustment	Hydraulic			Hydraulic		
Side transport and depth wheel	Standard			Standard		

Technical Specifications				Challenger Series		
	CHALLENGER OL 7E	CHALLENGER OL 8E	CHALLENGER OL 9E	CHALLENGER OL 10	CHALLENGER OL 11E	CHALLENGER OL 12
Number of bottoms per side	7 (4+3)	8 (5+3)	9 (5+4)	10 (6+4)	11 (8+3)	12 (8+4)
Extendable by one bottom	Yes, at front	Yes, at rear	Yes, at front	No	Yes, at rear	No
Standard moldboards	L : Wide helicoidal					
Hydraulic rollover with 2 cylinders	Standard					
Minimum allowable power	190 hp (139 kW)	215 hp (159 kW)	245 hp (179 kW)	270 hp (198 kW)	297 hp (219 kW)	324 hp (241 kW)
Maximum tractor power	287 hp (211 kW)	328 hp (245 kW)	370 hp (276 kW)	270 hp (198 kW)	450 hp (336 kW)	485 hp (362 kW)
Approximate machine weight for T version	8,289 lbs (3,760 kg)	8,924 lbs (4,048 kg)	9,559 lbs (4,336 kg)	12,262 lbs (5,562 kg)	10,829 lbs (4,912 kg)	11,464 lbs (5,200 kg)
Approximate machine weight for NSH version	9,061 lbs (4,110 kg)	9,762 lbs (4,428 kg)	10,463 lbs (4,746 kg)	11,164 lbs (5,064 kg)	11,865 lbs (5,382 kg)	12,566 lbs (5,700 kg)
Working width	14", 16", or 18" (35, 40, or 45 cm) delivered at 16" (40 cm)					
Underbeam clearance	31.5" (80 cm)					
Point to point clearance	40" (102 cm)					
On-land hitch kit	Standard					
Tires	400/55-22.5					
Two-wheel undercarriage with suspension for transport	Standard					
Sequencing valve - combines lift and rollover functions	Standard					
Hitch	Cat. 3 with cross-shaft					
Beam dimensions	8.7" x 8.7" (220 x 220 mm)					
Offset and angling adjustment	Hydraulic					

Technical Specifications				Vari-Manager Series	
	VARI-MANAGER 5E	VARI-MANAGER 6E	VARI-MANAGER 7E	VARI-MANAGER 8	
Number of bottoms per side	5 (3+2)	6 (4+2)	7 (4+3)	8 (5+3)	
Extendable by one bottom	Yes, at rear	Yes, at front		No	
Standard moldboards	L : Wide helicoidal				
Hydraulic rollover with 2 cylinders	Standard				
Minimum allowable power	110 hp (81 kW)	132 hp (97 kW)	154 hp (113 kW)	176 hp (130 kW)	
Maximum tractor power	150 hp (110 kW)	180 hp (132 kW)	210 hp (155 kW)	240 hp (175 kW)	
Approximate machine weight for NSH version	6,945 lbs (3,150 kg)	7,716 lbs (3,500 kg)	8,487 lbs (3,850 kg)	9,259 lbs (4,200 kg)	
Working width	12" - 20" (30 - 51 cm) hydraulically adjustable				
Underbeam clearance	31.5" (80 cm)				
Point to point clearance	40" (102 cm)				
Tires	400/55-17.5				
Two-wheel undercarriage with suspension for transport	Standard				
Sequencing valve - combines lift and rollover functions	Optional				
Hitch	Cat. 2 with cross-shaft				
Beam dimensions	7.1" x 7.1" (180 x 180 mm)				
Offset and angling adjustment	Hydraulic				

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