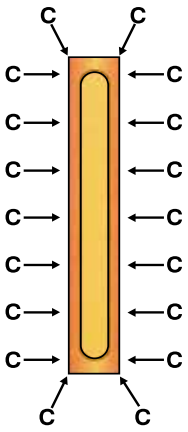
CVL-DVL-EVL-CXL-DXL

Semi mounted reversible ploughs and wagon ploughs

ÖVERUM
Powered by Kongskilde

Carburizing of mouldboard blanks.



Carbon penetrates into the surface layer of steel.

Hardened steel

Överum **Mucro** is the name of the heat-treated steel used in Överum wearing parts.
The raw material is chosen with great care and heat treated according to Överums own method.
The correct carbon content in the steel profile determines the properties of the mouldboard. The mouldboard blanks are processed for 24 hours in an oven with carbon rich environment and high temperature. Carbon then penetrates into the surface layer of the steel. The subsequent heat treatment will give the surface layer both hardness and wearing resistance at the same time as it gives toughness and impact strength in the centre of the mouldboard.

Överum plough bodies – The lowest draft requirement among its competitors

The XL-body performs excellently in different ploughing conditions. The furrow slice is inverted in an even successive twisting move. The twisting curve has been calculated to give minimal energy consumption.
The draft requirement is therefore low despite the fact that the XL-body leaves a wide furrow for today's wide tractor tyres.
Simple shapes and clever build up means low prices and limited wear. This results in down to earth economy.

Hydraulic stone release system

The lifting height of the plough body when releasing over a large stone is very important for the plough life, preventing overloading of material and welding seams.
The Överum ploughs with hydraulic stone release system have got a substantially increased lifting height. The share point can move well over 50 cm vertically from the working position.
The stone release resistance is easy to adjust with the tractor hydraulic outlet (also on the go with an optional check valve). The maximum start releasing resistance is enhanced for the new hydraulic stone release system.
The force is then decreasing as the plough body is releasing. This effectively protects all the details in the system.
Lower pressure is used in light soils giving a soft and gentle stone release, with fewer stones pulled up on the surface. Higher pressure is required in heavy soils to prevent the plough bodies from releasing simply because of soil resistance.

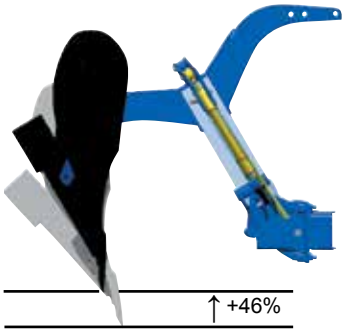
XL – Scandinavian type plough body for wide furrows and varying depth.

XLP - Scandinavian type plough body with plastic mould-board for organic sticky soils.

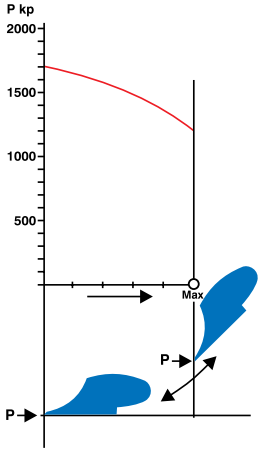
XU – Aggressive plough body for deep and wide furrows.

XS – Slatted plough body for sticky abrasive soil.

UC - Aggressive plough body for 14" furrows.



Stone release system – enhanced lifting height to over 50 cm.



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CVL 6975 H. The draw frame is placed high in order to improve clearance.

Semi mounted ploughs

The range of the semi mounted ploughs are from 5 to 8 furrows and are named CVL, DVL and EVL. All the models have robust frames with high ground clearance.
A large area of free space around the tractor treaded depth wheel means trouble free ploughing under difficult conditions. Narrow transport width, low centre of gravity and favourable weight distribution give quick and safe transport while retaining good steering ability even on rough roads.

Överum CVL
The lift requirement for the Överum CVL plough is below one third compared to a corresponding fully mounted reversible plough.

The furrow width can be adjusted to different ploughing conditions, 14", 16" or 18" (35, 40 or 45 cm) and is easy to set. Hydraulic front furrow adjustment is convenient when straightening bends. This function is also a great help when ploughing headlands, to get good and even connections between the passes. The large diameter wheel (100 cm) and width (0,4 m) keeps rolling even in the most difficult conditions, giving good support and directional control. Hydraulic steering means easy manoeuvering on the headland and assists reversing into corners etc.

Two double and one single acting spool valve is required to control all the functions of the CVL plough. With a pressure controlled diverter valve (accessory) one single and one double acting valve is sufficient. In the working position the front furrow width is controlled by the double acting lever. Lifting on the headland, steering and turnover are controlled by the same lever.

The hydraulic stone release system on the nonstop version can easily be adapted to prevailing soil conditions.
The pressure is altered with the tractor's hydraulic spool valve, quickly and simply without the need for tools.
On the fixed beam version each leg is protected by an easily replaceable shear bolt.

Adjustable furrow width 14", 16" or 18" (35, 40 or 45 cm).

Hydraulic front furrow adjustment is standard.

Strong hot bended details in the draw frame.

All side forces are automatically balanced out in the Överum semi mounted plough concept.

Large wheel with low rolling resistance and hydraulic steering.

Technical specifications	Number of furrows	Working width in cm	Weight ca. kg*	Point to point clearance, cm	Underbeam clearance, cm	Pairs of disc coulters possible to fit	Recommended tractor power, hp (kW)	Wheel dimensions
CVL 5975 H	5	175-225	2000	90	75	5	80-150 (60-110)	400x22.5
CVL 6975 H	6	210-270	2250	90	75	6	90-180 (65-130)	
CVL 5975 F	5	175-225	1900	90	75	1	80-150 (60-110)	
CVL 6975 F	6	210-270	2050	90	75	1	90-180 (65-130)	

*Equipped with: one pair of disc coulters, others fin coulters.

DVL 61080 H-XL. Quick and safe transport.

Överum DVL

The DVL has an extra robust frame construction for heavy duty ploughing conditions with tractors up to 250 hp. It is equipped with mechanical adjustable furrow width of 16", 18" or 20" (40, 45 or 50 cm) and hydraulic front furrow adjustment is standard equipment. The plough model has extremely good clearance. 100 cm interbody and 80 cm underbeam clearance gives extra space for effective skimmers giving optimum weed control and nonstop ploughing in heavy trash.

The model range is equipped with one extra accumulator in the hydraulic stone release system with higher precharge which increases the working range for soft and gentle stone release. With a pressure adjustment set, the stone release resistance can be adjusted from the driver's seat during ploughing. Higher pressure is required where the soil is heavy. In light soil with many stones the pressure can be lowered. The result is soft and gentle stone release with less tendency to bring up stones. The resistance is never higher than required.

The draw frame is placed high in order to improve clearance.

Optimum clearance for non-stop ploughing in heavy trash.

Extra large diameter wheel with hydraulic steering and simple depth adjustment.

The heavy duty profile legs give optimal clearance.

Extra robust draw frame and turnover head.

Technical specifications	Number of furrows	Working width in cm	Weight ca. kg*	Point to point clearance, cm	Underbeam clearance, cm	Pairs of disc coulters possible to fit	Recommended tractor power, hp (kW)	Wheel dimensions
DVL 61080 H	6	240-300	3350	100	80	6	120-220 (90-160)	420/70 R24
DVL 71080 H	7	280-350	3650	100	80	7	140-250 (100-185)	
DVL 81080 H	8	320-400	3950	100	80	8	150-250 (110-185)	
DVL 61080 F	6	240-300	3000	100	80	1	120-220 (90-160)	
DVL 71080 F	7	280-350	3200	100	80	1	140-250 (100-185)	
DVL 81080 F	8	320-400	3450	100	80	1	150-250 (110-185)	

*Equipped with: one pair of disc coulters, others fin coulters.

Vari Flex EVL 71080 H with hydraulic furrow width adjustment.

Överum Vari Flex EVL
Hydralic adjustable furrow width

The new plough series from Överum is called Vari Flex EVL. It is a heavy-duty plough with 6, 7 or 8 furrows, designed for large tractors up to 350 hp. The furrow width can be hydraulically adjusted from 30 to 55 cm during ploughing to accommodate wedge-shaped fields or obstacles such as game shelters and pylons. The working width can also be adjusted according to the tractor power when working on hilly ground and in variable soil types.

The plough incorporates the heavy-duty beam housing design already introduced on the Vari Flex EX heavy-duty, fully mounted plough. The new housing is both strong and reliable with reduced forces and therefore low wear at the pivot points due to the new design. The new design beam housing, as well as most other moving parts, has greaseable and replaceable bushes for long life and low maintenance cost.

The plough is equipped with a large rear mounted depth wheel (420/70 R24) for optimum weight transfer and operation in difficult conditions.

Large rear mounted depth wheel (420/70 R24) for optimum weight transfer and operation in difficult conditions. A slave cylinder secures that the wheel is aligned when the furrow width is changed.

Heavy-duty beam housing design with optimum geometry for low force demand when adjusting furrow width.

Technical specifications	Number of furrows	Working width in cm	Weight ca. kg*	Point to point clearance, cm	Underbeam clearance, cm	Pairs of disc coulters possible to fit	Recommended tractor power, hp (kW)	Wheel dimensions
Vari Flex EVL 61080 H	6	180 - 330	3900	100	80	6	150-250 (110-190)	420/70 R24
Vari Flex EVL 71080 H	7	210 - 385	4300	100	80	7	175-300 (130-225)	
Vari Flex EVL 81080 H	8	240 - 440	4700	100	80	8	200-350 (150-270)	
Vari Flex EVL 61080 F	6	180 - 330	3600	100	80	6	150-250 (110-190)	
Vari Flex EVL 71080 F	7	210 - 385	3850	100	80	7	175-300 (130-225)	
Vari Flex EVL 81080 F	8	240 - 440	4100	100	80	8	200-350 (150-270)	

*Equipped with: one pair of disc coulters, others fin coulters.

Överum CXL 61075 H with hydraulic stone release system. Depth adjustment in the front, in the middle and in the rear makes the plough follow the ground contour.

Överum CXL wagon plough
The Överum CXL wagon plough makes it possible to pull a large plough with a relatively small tractor.

The CXL models are designed for tractors up to 180 hp (135 kW) and consists of: 6 to 8 furrows with hydraulic stone release system (H) The furrow width is fixed, either 16 or 18 inches (40 or 45 cm).

The CXL wagon plough implies that the rear of a semi mounted plough has been fitted with two wheels in a wagon, behind which is attached a 2- or 3-furrow mounted plough. Together they form a large plough with a uniform weight distribution around the wagon. The turning of the plough will therefore be very balanced. The Överum CXL wagon plough is very easily manoeuvred on headlands. When turning, the wagon functions as a steering unit, which gives the plough remarkable flexibility. The two wagon wheels are close to the tractor, which contributes to simple manoeuvring on headlands.

In transport position the CXL acts like a wagon with low centre of gravity.

The weight distribution over the wagon makes the CXL gentle to manouvre. A hydraulic suspension in the lift cylinder contributes to the soft and secure transport.

Överum CXL, ploughs are quipped with a massive leaf spring in the wagon, allowing the rear part to follow the ground at a uniform ploughing depth.

The pendulum depth wheel controls the depth of the rear part of the plough.

Technical specifications	Number of furrows	Working width in cm	Weight ca. kg*	Point to point clearance, cm	Underbeam clearance, cm	Pairs of disc coulters possible to fit	Recommended tractor power, hp (kW)	Wheel dimensions
CXL 61075 H	6 (4+2)	240/270	3100	100	75	6	110-140 (80-100)	400x22.5 and 7.00x12
CXL 71075 H	7 (4+3)	280/315	3300	100	75	7	130-160 (95-120)	
CXL 81075 H	8 (5+3)	320/360	3600	100	75	8	150-180 (110-130)	

*Equipped with: one pair of disc coulters, others fin coulters.

Överum DXL 81080 H. Large diameter wheels (400x26.5) mean good support and depth control also in difficult conditions.

Överum DXL wagon plough

The range of heavy duty wagon ploughs, DXL, is designed for tractors up to 350 hp and is built from 7 to 10 furrows. The furrow width can be adjusted in three steps, 16", 18" or 20" (40, 45 or 50 cm). The DXL range is really heavy duty with large dimensions in all critical parts. Large diameter wheels in the wagon give stability and keep uniform depth even in wet conditions. High clearance with space for lots of crop residues without blockage means nonstop ploughing also in difficult conditions.

At work the front part of the plough acts like a semi mounted plough. Due to a special design of the flexible joint, the rear part can be in a float position and freely adapt to the ground contour. The working depth is controlled by a rear mounted depth wheel.

When the plough is lifted out of work the rear part is angled down. The joint is hydraulically locked in this position, which means that it is angled up after reversing the plough. The front part is lowered into work like a semi mounted plough and then the rear part is set in float position to let it down to work. This means that straight and even ins and outs can be performed despite the large dimensions of the implement.

The DXL ploughs are designed for in furrow use. With the wagon plough concept this works well all the way up to ten furrows. With the tractor wheels in the furrow good traction is ensured also in difficult conditions.

Överum DXL 81075 H. The furrow width can be set at 16, 18 or 20 inches. Optimum clearance for non-stop ploughing in heavy trash.

Överum DXL wagon ploughs have a hydraulically controlled joint, which is freely flexing in float position when ploughing.

The heavy duty profile legs give optimal clearance.

Technical specifications	Number of furrows	Working width in cm	Weight ca. kg*	Point to point clearance, cm	Underbeam clearance, cm	Pairs of disc coulters possible to fit	Recommended tractor power, hp (kW)	Wheel dimensions
DXL 71080 H	7 (4+3)	280-350	4700	100	80	7	150-250 (110-185)	400x26.5 and 10.00x12
DXL 81080 H	8 (5+3)	320-400	5300	100	80	8	160-280 (120-205)	
DXL 91080 H	9 (6+3)	360-450	5600	100	80	9	180-320 (130-235)	
DXL 101080 H	10 (6+4)	400-500	5900	100	80	10	200-350 (150-260)	

*Equipped with: one pair of disc coulters, others fin coulters.

Minimum tillage with XL – shallow ploughing

The picture is showing Överum XL shallow ploughing at 13 cm depth and 11 km/h forward speed.
The only difference from normal ploughing, beside depth adjustment, is that the wearing plate on the rear landside is turned around. It reaches deeper in the furrow to support the plough side stability.

Result:
Stubble and crop residues are buried shallow in the top soil layer with good oxygen availability and therefore quick decomposition. The surface is almost clean and can be seeded with any type of seed drill.

In this way the standard Överum XL-plough can be used both for minimum tillage before drilling, and for deeper quality work when weed control and repairing of compaction damage is more important.

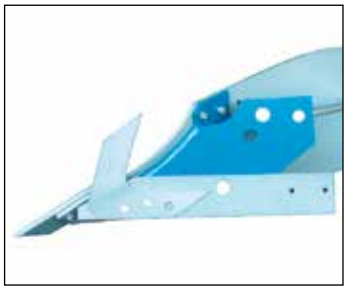
Accessories

Skimmer EG. Wide shallow cut. Works well with both fin coulter and disc coulter.

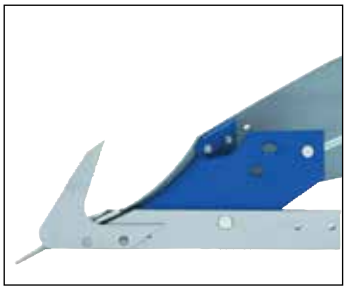
Skimmer EP. Plastic mouldboard for the best scouring properties.

Skimmer EM. Handles large amounts of crop residues. Works best with fin coulter.

Trashboard. Good clearance for straw. Not recommended for sticky soils.



Fin coulter. Low weight and good clearance.



Forward knife coulter. Improves the ploughing when the knife cuts before turning the soil.

Spring loaded/Fixed disc coulter. 18" or 20" plain or 20" rippled disc.

Furrow widening knife for wide tractor tyres.

Pressure controlled diverter valve. Two double acting functions are controlled by one double acting outlet.

Stone release pressure adjustment set for on the go adjustment.

Furrow press arm for CVL. Double acting rubber suspension.

Furrow press arm DVL, VF EVL and DXL up to 8 furrows. Double acting rubber suspension.

ÖVERUM
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