





3 types of effective body protection



Bolt protection acts as a safety device and it lets the body out only if it meets resistance of 1500 kg on ploughshare.

BOLT PROTECTION



SPRING-LEAVES PROTECTION



Non-stop spring leaves protection may have 5 or 7 leaves in IBIS L, or 7 or 9 leaves in IBIS XL and IBIS XXL.



Plough body with hydraulic protection is lighter than version with spring leaves by 16 kg.

HYDRAULIC PROTECTION





IBIS – mounted reversible ploughs

IBIS M



IBIS M	
Frame	100x100 mm
Plough bodies /distance between	2-4/85 cm
Ploughing width/body	32/37/42 cm
Underbeam clearance	70 cm

A tractor 70 HP is enough for work with a light 3-body plough, for 4-body plough will be enough 90 HP.

IBIS L



Ploughs of IBIS L line should be drawn by tractors 75-110 HP.

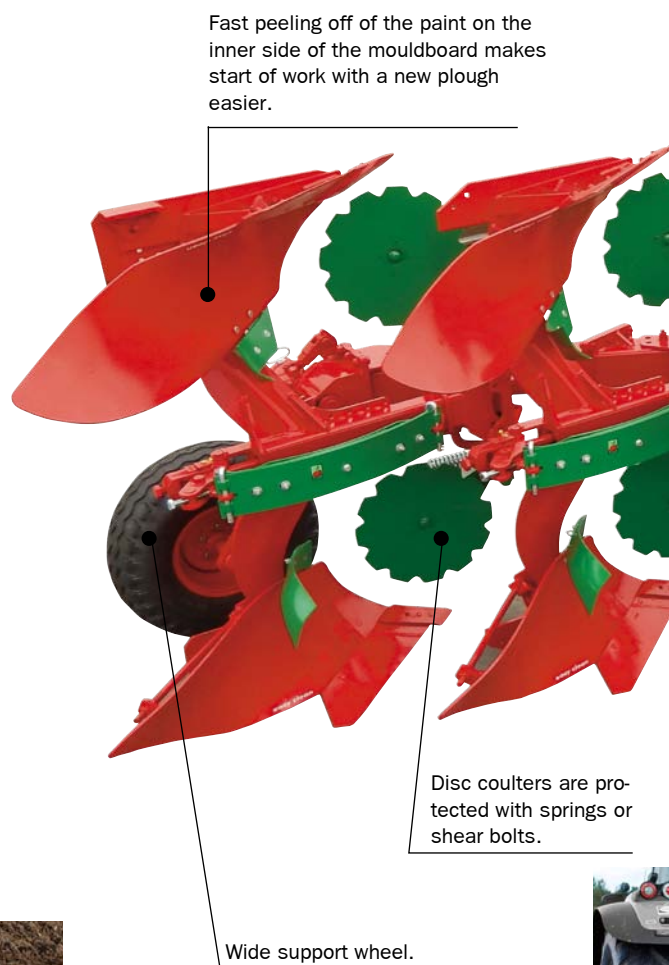
IBIS L	
Frame	120x120 mm
Plough bodies /distance between	3-4/90 cm
Ploughing width/body	35/40/45 cm
Underbeam clearance	72 cm

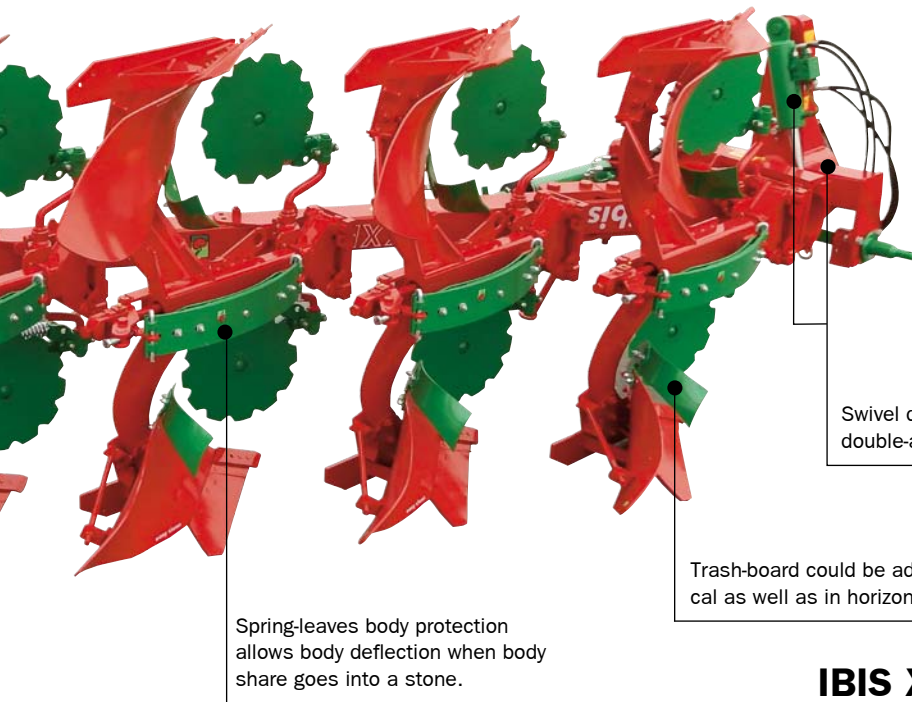
IBIS XM



That plough of modern design could work with tractors 90-140 HP.

IBIS XM	
Frame	120x120 mm
Plough bodies /distance between	4-5/90 cm
Ploughing width/body	35/40/45 cm
Underbeam clearance	72 cm





VARIO		
Frame	120x120 mm	140x140 mm
Plough bodies /distance between	3-4/90 cm	5/90 cm
Ploughing width/body	105-200 cm	175-250 cm
Underbeam clearance	75/80 cm	

Reversible mounted ploughs with smoothly variable working width for tractors 210HP.

Swivel device axle with double-action cylinder.

Trash-board could be adjusted in vertical as well as in horizontal plane.

Spring-leaves body protection allows body deflection when body share goes into a stone.

IBIS XXL



IBIS XXL ploughs are designed for tractors 150-200 HP.



Good plough for tractors 120-140HP.

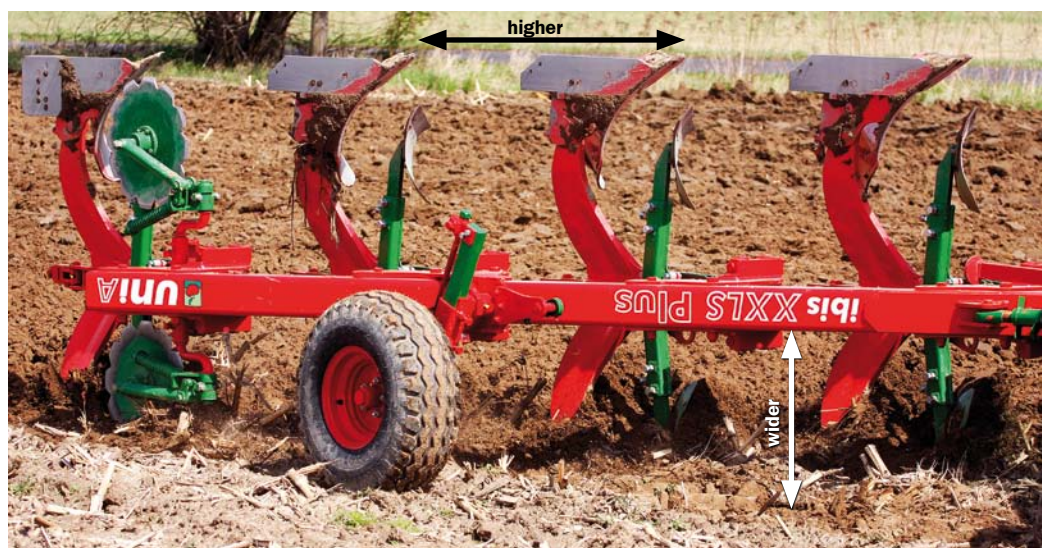
IBIS XL

IBIS XL	
Frame	120x120 mm
Plough bodies /distance between	3-4/90 cm
Ploughing width/body	36/42/48 cm
Underbeam clearance	75, 80 cm (S,H)

IBIS XXL	
Frame	140x140 mm
Plough bodies /distance between	4-5/90 cm
Ploughing width/body	36/43/50 cm
Underbeam clearance	75, 80 cm (S,H)



Models – plus, premium



Thanks to standard skimmers, as well as over-standard distance between bodies and clearance under the frame, IBIS plus ploughs excellently cover the crop-residue.



Ploughs in premium version have got in standard underbeam clearance 80-85 cm (depending upon body protection type).

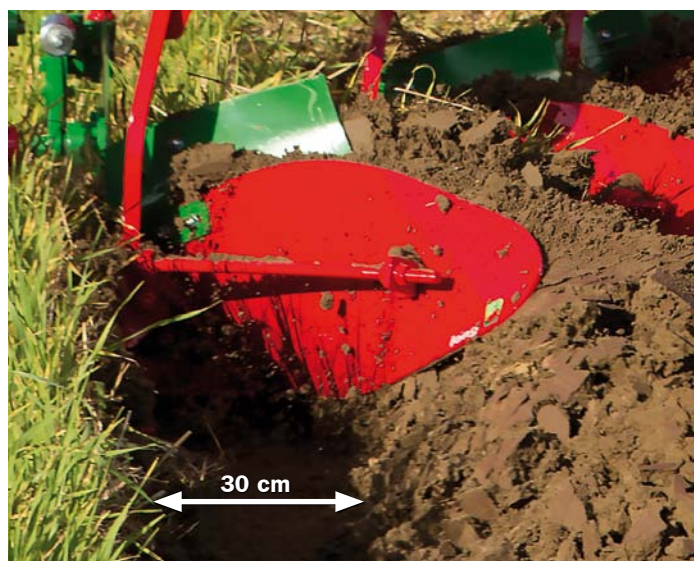
Version plus	
Distance between bodies	100 cm
Underbeam clearance, depending on body protection type	80-85 cm



Version plus	
Distance between bodies	90 cm
Underbeam clearance, depending on body protection type	80-85 cm

Ploughs of VARIO line could be produced in plus version as well as in premium version.

Long plough body.



Furrow width is even 30 cm.

ZX plough body.



MX plough body.



Strengthened cylinder of plough turning is designed for work with TERRA cultivating roller.

Open-work body.





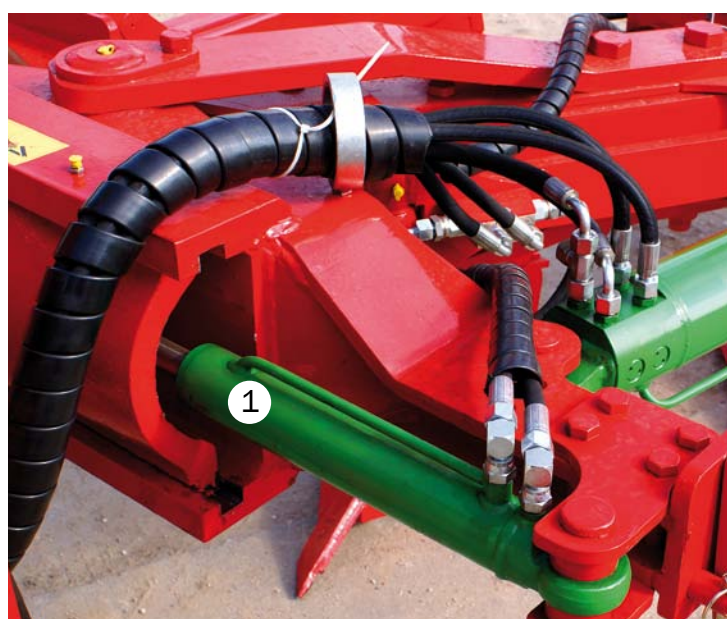
Additional equipment



TERRA – cultivating device firm assembled on the plough.



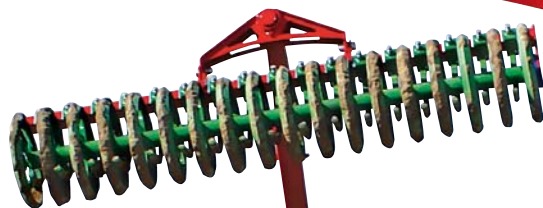
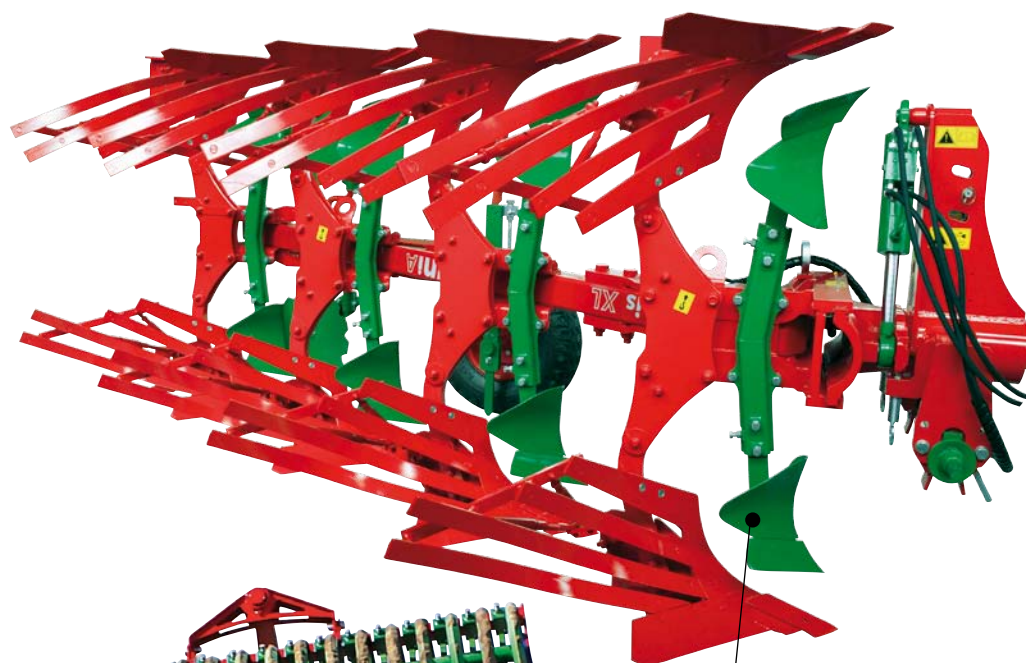
Special design of a hydraulically-controlled arm allows for adjustment of 2 m or 2.5 m wide ring roller pressure. The part responsible for it is a double-action cylinder (1). Another identical cylinder (2) is used to switch the roller from working position to transport position and vice versa.



Totally Vario – an optional hydraulic cylinder for first body ploughing width adjustment (1) with a standard frame deflection cylinder (2) allow for control of settings of all VARIO plough bodies from the tractor cabin.



With this rear support-and-transport wheel plough's comfortable transport is guaranteed



On IBIS ploughs could be mounted universal skimmers or skimmers for large crop remains.



VIS – semi-mounted reversible ploughs

VIS L

Frame	140x140 mm
Plough bodies /distance between	4-6/90 cm
Ploughing width/body	36/42/48 cm
Underbeam clearance	78,5/80/85 cm

VIS XL

Frame	180x180 mm
Plough bodies /distance between	6-8/100 cm
Ploughing width/body	36/42/48 cm
Underbeam clearance	78,5/80/85 cm

VIS MX

Frame	180x180 mm
Plough bodies /distance between	6-9/90 cm
Ploughing width/body	35/40/45 cm
Underbeam clearance	80/85 cm



Ploughs of Vis MX line have got MX bodies.

Tur / Tur vario – bed-ploughs



Ploughs of TUR line have got bolt or spring-leaves body protection.

Approved in practice swivel joint construction.



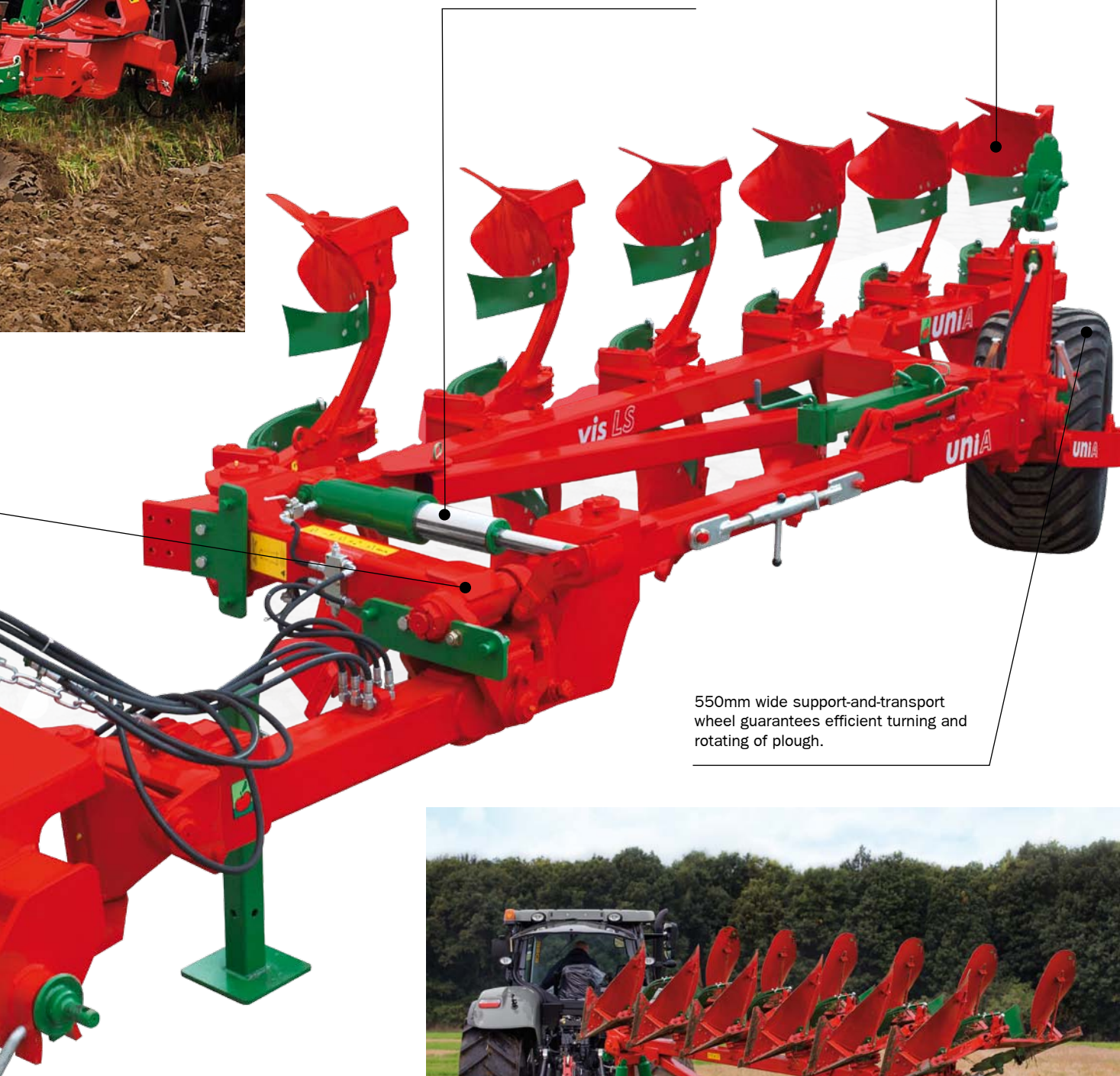
TUR

Frame
Plough bodies /distance between
Ploughing width/body
Underbeam clearance



Two cylinders of Weber Hydraulik manufacture allow for easy plough rotation.

VIS L and XL could be equipped with ZX or Long plough bodies.



550mm wide support-and-transport wheel guarantees efficient turning and rotating of plough.

100x100 mm	120x120 mm
3/76-88 cm	3-4-5/85-90 cm
30/35 cm	35/40 cm
66 cm	75 cm





ARES – T L, T XL, vibro, snake



ARES with discs of snake type perfectly cut soil and mixes soil with crop remains.



ARES T vibro – cultivators protected by spring holders – two rows of discs by vibrating are multiplying the effect of cultivation.



ARES cultivators could be equipped with packing roller for choice: pipe, spring, ring, rubber, Packer or steel roller.

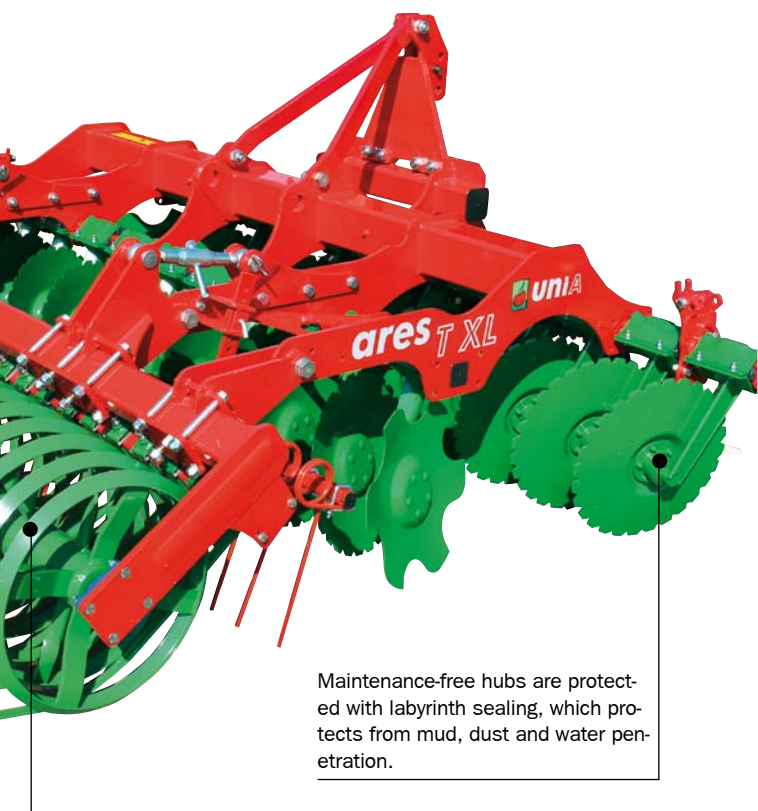


ARES cultivators could be attached to seeder with the help of seeder coupling.

	working width	working depth
ARES T L	3-6 m	up to 8 cm
ARES T XL	3-6 m	up to 12 cm
ARES vibro	3-6 m	up to 12 cm
ARES snake	3-6 m	up to 15 cm



Under cut by laser frame, we have got big clearance, for the throwed out soil and aftercorps.



Maintenance-free hubs are protected with labyrinth sealing, which protects from mud, dust and water penetration.



In transport position semi-mounted ARES is not wider than 3 m.



MARS



	working width
MARS T	3/3,5/4/4,5/6 m
MARS T X	3/3,5/4/5/6 m
MARS Twix	3/3,5/4/5/6 m

In transport position semi-mounted MARS is not wider than 3 m.



MARS TX with single discs on holders protected by heavy springs.



Wide distance between rows of discs. At the

working depth
up to 12 cm
up to 12 cm
up to 12 cm



The edges deflectors are stopping the ground within the machine.



MARS Twix with double discs on holders protected by heavy springs.



MARS



MARS cultivators might be used for shallow stubble cultivation, cultivation before sowing after plowing or for mulching.



Strong maintenance-free spring protection.



MARS Twix long have got independent regulation of work of discs and tines.

Disc section could work at depth up to 15 cm.

Tines are placed in one row every 70 cm and can work at depth up to 30 cm.

Double discs could have diameter of 660/610 mm or 710/660 mm.

	working width	working depth
MARS T	3/3,5/4/4,5/6 m	up to 12 cm
MARS T X	3/3,5/4/5/6 m	up to 12 cm
MARS Twix	3/3,5/4/5/6 m	up to 12 cm
MARS T X long	3/4 m	Discs to 12 cm/Tines to 30
MARS Twix long	3/4 m	Discs to 12 cm/Tines to 30



Semi-mounted MARS in transport position is not wider than 3 m.



Mars T with aftercrop seeder.

Clips at roller cylinders are used for regulation of working depth.



MARS cultivator may be equipped with the heaviest rollers of 700 mm diameter: steel, rubber and Packer.



Mars machines have got big distance between rows of discs. Snake discs are good for cutting the aftercrops.



KOS, KOS premium



Tines of KX type could work at depth up to 15 cm.



Work of these cultivators creates perfect conditions for germinating weed seeds and self-sown plants; it also prevents water evaporation from soil.

Sets of soil cultivating discs



One-rowed disc section A.



Two rowed disc section B with diameter 460 on rubber shock absorbers.

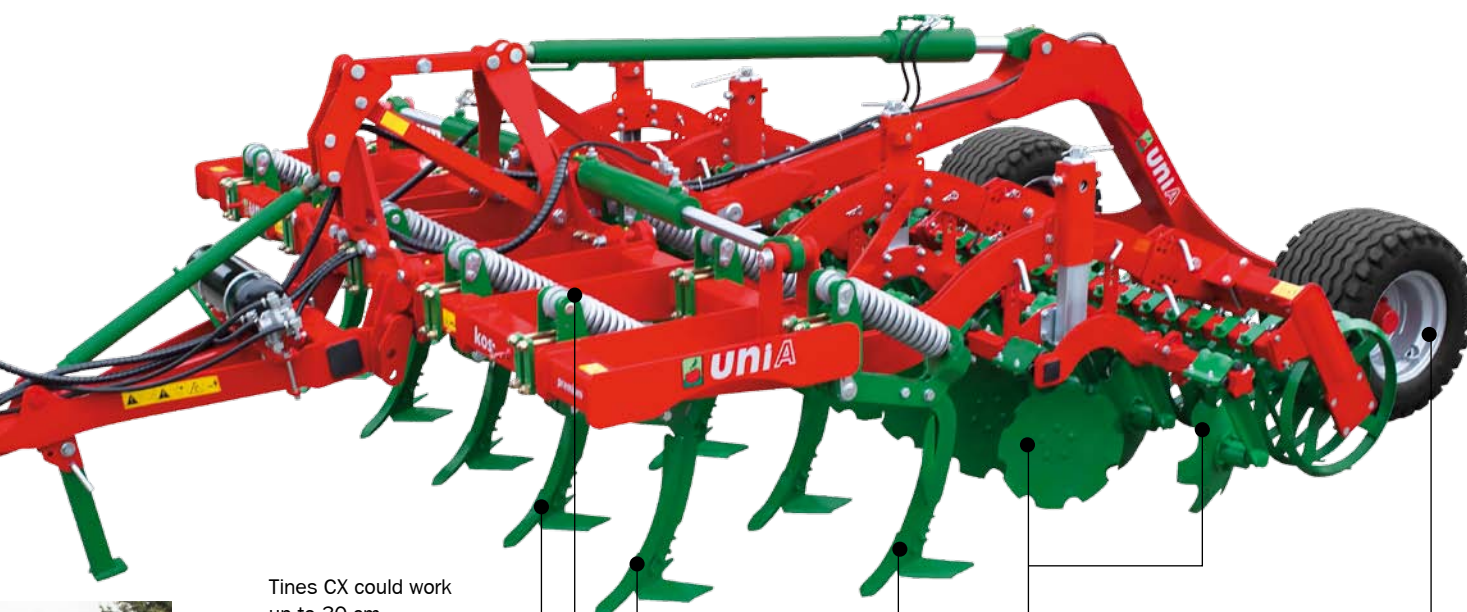


KOS in transport position is not wider than 3 m.





Universal two-row KOS premium could be used for stubble cultivation and make deep pre-sowing soil preparation.



Tines CX could work up to 30 cm.

Two rows of tines with 75 cm interrow distance.

Wide support wheels.

Two-row levelling disc unit.

Maintenance-free spring protection.



	working width	working depth
KOS	2,1-6 m	up to 15 cm
KOS Premium	3-6 m	up to 30 cm



CROSS – cultivators

Spring roller.



CX tines with cutting wings.



CROSS L in Drive version.

Disc sections



A disc section-standard delivery.



B disc section –option-only in mounted and drive version of CROSS.

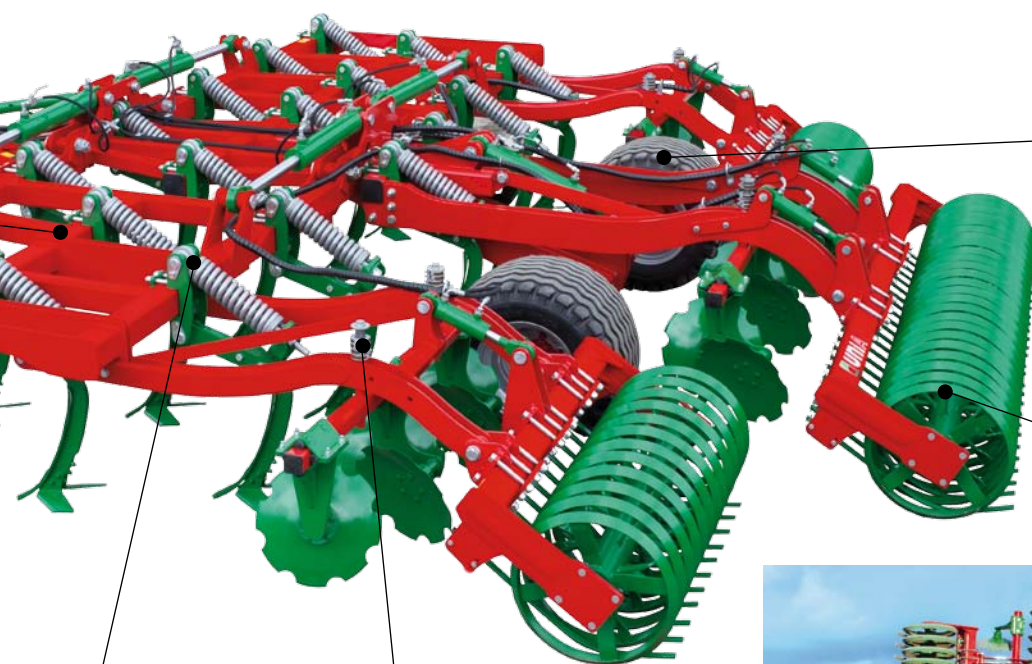
Interrow distance – 75 cm.



CROSS L drive at work.



Multi-purpose cultivators with heavy tines cultivate soil even at depth up to 30 cm.



Perfect construction with transporting system.

Ring roller.

Maintenance-free spring protection.

Disc section has got point-adjustment.



	working width	working depth	underbeam clearance
CROSS L	3-6 m	up to 30 cm	85 cm



MAX/MAX T – pre-sowing cultivators



SV tines

Spring tines prepare soil for sowing fine-grained crops.

SX tines

Shallow opening for corn cultivation, deep opening for root crops.



SZ tines

Stiff tines protected with safety device are used for shallow soil opening – excellent for beetroot cultivation.



MAX – maximum capability of pre-sowing cultivation

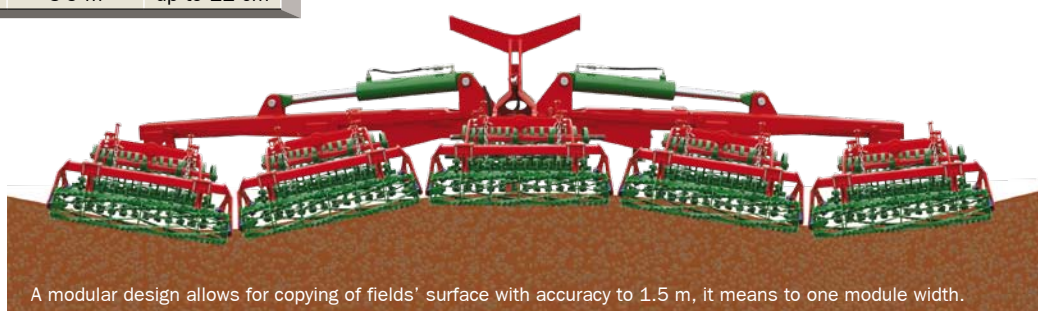
- for each tractor
- at each soil
- for each crop.





MAX T

	working width	working depth
MAX (2-, 4-row)	3-9 m	up to 8 cm
MAX T (2-row)	3-9 m	up to 12 cm



A modular design allows for copying of fields' surface with accuracy to 1.5 m, it means to one module width.

Types of rollers



Two toothed string rollers
(320 and 280 mm)



Double Crosskill roller (320 mm)



Ring roller (470 mm)



CROSSKIL/STRING ROLLER



Cultivators for cultivation after ploughing

VIKING – very efficient tine cultivators for pre-sowing cultivation after ploughing

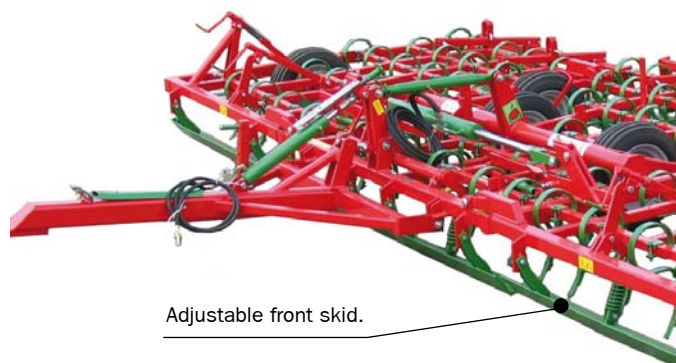
	working width	working depth	quantity of rows
VIKING L	5,3-8 m	up to 8 cm	4/5
VIKING XL	5,6,8 m	up to 15 cm	4



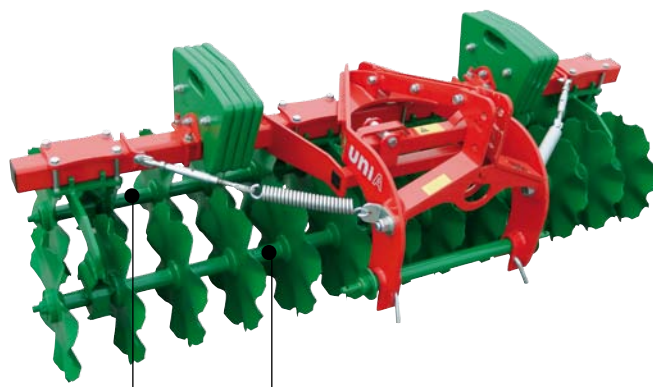
VIKING in transport position is not wider than 3 m.



ARES TL Front/ARES-C-Front – a tool for mounting on the front three-point suspension system of a tractor, consisting of two rows of various type discs.



Adjustable front skid.



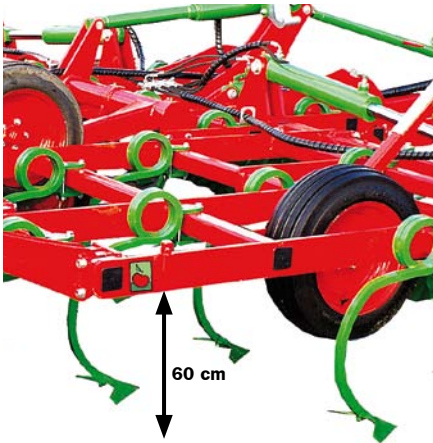
Two rows of cultivating discs.

	working width	working depth
ARES/FRONT	3/3,5/4 m	up to 12 cm

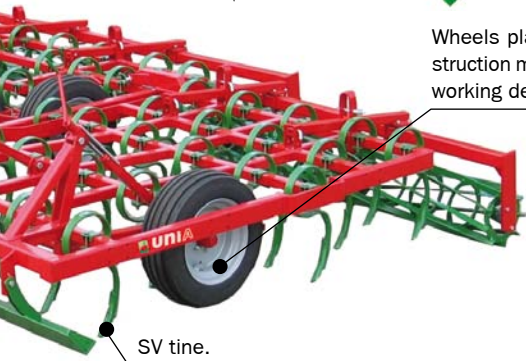


ATLAS – heavy semi-mounted cultivators with two rows of tines, designed for soil preparation before sowing.

	working width	working depth	Quantity of rows
ATLAS	3-10 m	up to 8 or 15 cm	2



VIKING XL

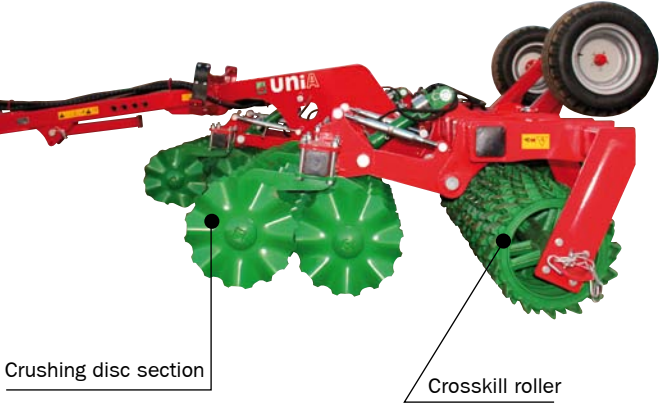


Wheels placed inside machine construction make easier to keep steady working depth.



ATLAS in transport position.

	working width	weight
GNIOT	5,2 m	2220/2760 kg
GNIOT	6,2 m	2450/3120 kg



Crushing disc section

Crosskill roller



GNIOT with Cambridge roller and board with spring fingers.

PLOW opens soils at 32 cm depth without reversing it.

	working width	working depth
PLOW (1-row)	3-4 m	up to 32 cm



Spring-leaves tine protection.

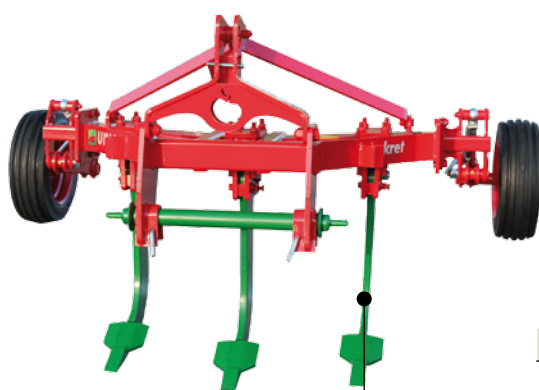


Shear-bolt tine protection.



An optional crushing harrow opens the upper layer of soil excellently.

KRET/PLOW – subsoilers with very heavy tines protected with safety-bolt devices or a double pack of springs.



L tine.



XL tine.

	working width	working depth
KRET L/XL	1,7-4 m	up to 50 cm

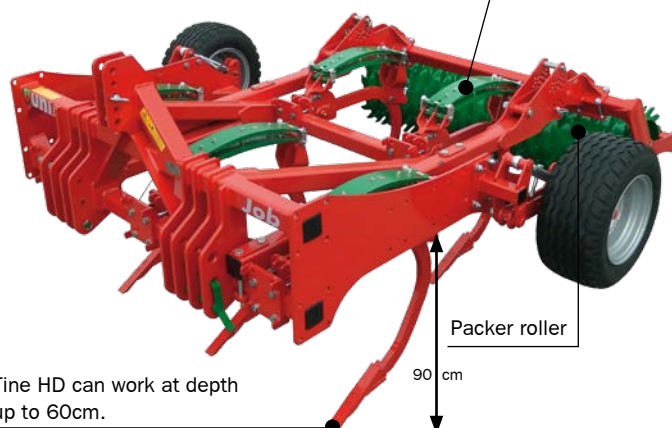


The KRET subsoilers may be equipped with the same rollers as PLOW .

JOB opens soils at 60 cm

	working width	working depth
JOB	1,7-6 m	up to 60 cm

Double pack of spring-leaves protection.



Packer roller

Tine HD can work at depth up to 60cm.



