



## PRICE LIST of UNIA GROUP

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Prices are for machines that can be transported on trucks with dimensions 2.45×2.75×13.6 m.  
The options price list is valid in the case of a machine order

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# PLOUGHS





# IBIS M



IBIS M 4



## Pantograph (beam/turntable connection)

It transfers the towing force and adjusts the first furrow-slice.

## STANDARD EQUIPMENT

- » frame 100×100×8 mm
- » hitch axle of Cat. II, ø28 mm, Cat. II, ø36 mm
- » MX plough body with trashboard
- » bolt (bolt M12×65 mm) protection
- » variable, spot-adjustable ploughing width: 32, 37 and 42 per body
- » adjustment of the first furrow-slice width
- » support wheel 200/60-14,5
- » ø450 mm coulter disc (IBIS M4) ø405 mm (M2+1 version)

### IBIS M in STANDARD version:

- » Interbody clearance: 85 cm
- » Underbeam clearance: 70 cm



Turntable axle with double-acting cylinder

## PRICES

IBIS

**M 2+**

**M 2+1**

**M 4**

## ACCESSORIES AT EXTRA CHARGE

surcharge for the solid openwork body

surcharge for the openwork body with cover plate

knife coulters (pair)

IBIS M	2+	2+1	4
Weight [kg]	550	700	900
Power demand [hp]	50÷70	70÷90	90÷110

\* Weight of machine with standard equipment



Variable, spot-adjustable ploughing width



IBIS L 3+1 WITH OPENWORK BODY



## Pantograph (beam/turntable connection)

It transfers the towing force and adjusts the first furrow-slice.



Connection axis

## STANDARD EQUIPMENT

- » 120×120×8 mm
- » hitch axle of Cat. II, ø28 mm, Cat. II, ø36 mm
- » MX plough body with trashboard
- » bolt (bolt M12×65 mm), non-stop spring leaf (S) (5-leaf spring) or hydraulic protection (H)
- » variable, spot-adjustable ploughing width: 35, 40 and 45 cm per body

- » adjustment of the first furrow-slice width with adjustment screw
- » support wheel
- » ø450 mm coulter disc: with bolt protection at bolt protection of the body and with spring protection on spring leaf or hydraulic protection of the body

## IBIS L in the STANDARD version offers:

- » Interbody clearance: 85 cm
- » Underbeam clearance: 70 cm

## IBIS L in the PLUS version offers:

- » underbeam clearance increased of 8 cm (80 mm) and interbeam clearance increased of 10 cm (100 mm)
- » skimmers instead of trash boards as a standard

- » underbeam clearance increased of 8 cm (80 mm)
- » LONG body

## IBIS L in PREMIUM version:

## PRICES

L 3+

L 3+1

L S 3+

L S 3+1

L H 3+

L H 3+1

IBIS L

IBIS L  
premium

IBIS L  
plus

IBIS L	3+	3+1	S 3+	S 3+1	H 3+	H 3+1
Weight [kg]	890	1090	1060	1290	1030	1260
Power demand [hp]	80÷90	90÷100	80÷100	90÷110	80÷100	90÷110

IBIS L	premium 3+	premium 3+1	premium S 3+	premium S 3+1	premium H 3+	premium H 3+1	plus 3+	plus 3+1	plus S 3+	plus S 3+1	plus H 3+	plus H 3+1
Weight [kg]	950	1160	1120	1370	1090	1340	910	1110	1080	1310	1050	1280
Power demand [hp]	80÷90	90÷100	80÷100	90÷110	80÷100	90÷110	90÷100	100÷110	100÷110	110÷120	100÷110	110÷120

\* Weight of machine with standard equipment

## ACCESSORIES AT EXTRA CHARGE

- surcharge for Long body
- surcharge for the solid openwork body
- surcharge for the slatted openwork body
- knife coulters (pair)
- extra coulter disc, ø450 mm dia. (pair) with bolt protected
- extra coulter disc, ø450 mm dia. (pair) with non-stop protected
- pair of universal skimmers with holders
- pair of skimmers for large crop residues
- mechanical beam for secondary tillage tool
- hydraulic beam for secondary tillage tool
- spring enhancement from 5 to 7 spring leaves, assy.
- shock absorber for support wheel
- extra fee for rear support wheel (3+1 version)

# IBIS XM



Rail with mechanical beam tilting

## STANDARD EQUIPMENT

- » 120×120×8 mm frame
- » hitch axle of Cat. II, ø28 mm, Cat. II, ø36 mm
- » MX plough body with trashboard
- » bolt (bolt M12×65 mm), non-stop spring leaf (S) (5-leaf spring) or hydraulic protection (H)
- » variable, spot-adjustable ploughing width: 35, 40 and 45 cm per body

- » adjustment of the first furrow-slice width with adjustment screw
- » support wheel
- » Beam tilling spindle
- » ø450 mm coulter disc: with bolt protection at bolt protection of the body and with spring protection of spring leaf or hydraulic protection of the body

### IBIS XM in STANDARD version:

- » Interbody clearance: 90 cm
- » Underbeam clearance: 72 cm

### IBIS XM in PREMIUM version:

- » Interbody clearance: 90 cm
- » Underbeam clearance: 80 cm

## PRICES

IBIS  
XM

IBIS XM  
premium

4+

4+1

**S** 4+

**S** 4+1

**H** 4+

**H** 4+1



## ACCESSORIES AT EXTRA CHARGE

LONG body (pair)

surcharge for the solid openwork body

surcharge for the slatted openwork body

knife coulters (pair)

extra coulter disc, ø450 mm (pair) bolt protected

extra coulter disc, ø450 mm (pair) spring protected

pair of universal skimmers with holders

pair of skimmers for large crop residues

mechanical beam for secondary tillage tool

hydraulic beam for secondary tillage tool

beam tilling cylinder

first furrow adjustment cylinder

spring enhancement from 5 to 7 spring leaves, assy.

shock absorber for support wheel

surcharge for transport-support wheel

surcharge for rear support wheel (4+1 version)

surcharge for rear transport-support wheel (4+1 version)

IBIS XM standard	XM 4+	XM 4+1	XMS 4+	XMS 4+1	XMH 4+	XMH 4+1
Weight [kg]	1150	1310	1370	1580	1360	1570
Power demand [hp]	90÷110	100÷120	110÷130	130÷150	110÷130	130÷150

IBIS XM premium	XM 4+	XM 4+1	XMS 4+	XMS 4+1	XMH 4+	XMH 4+1
Weight [kg]	1240	1400	1460	1680	1440	1660
Power demand [hp]	100÷120	120÷140	110÷130	130÷150	110÷130	130÷150

\* Weight of machine with standard equipment





IBIS XL 3+1



Rail with mechanical beam tilting



Beam for secondary tillage tool

## STANDARD EQUIPMENT

- » 120×120×8 mm frame
- » hitch axle of Cat. III
- » ZX plough body with trashboard
- » bolt (M16×81mm), non-stop spring leaf (S) (7 spring leaves) or hydraulic (H) protection
- » variable, spot-adjustable ploughing width: 36, 42 and 48 cm per body

- » adjustment of the first furrow-slice with adjustment screw
- » support wheel
- » ø480 mm coulter disc: with bolt protection at bolt protection of the body and with spring protection on spring leaf or hydraulic protection of the body

### IBIS XL in STANDARD version:

- » interbody clearance 90 cm
- » clearance under the frame: 75 cm (XL), 80 cm (XLS/H)
- » clearance under the frame- LONG body: 72,5 cm (XL), 77,5 cm (XLS/H)

### IBIS XL in the PLUS version offers:

- » increased clearance under the frame 10 cm (B) more increased interbody clearance 10 cm more
- » skimmers instead of trash boards
- » interbody clearance : 100 cm
- » clearance under the frame: 85 cm (B), 80 cm (S,H)

## PRICES

### IBIS XL

### IBIS XL plus

**3+**
**3+1**
**S 3+**
**S 3+1**
**H 3+**
**H 3+1**

## ACCESSORIES AT EXTRA CHARGE

Long body	no extra charge
Surcharge for the solid openwork body	
surcharge for the slatted openwork body	
pair of universal skimmers with holders	
pair of skimmers for large crop residues	
knife coulter (pair)	
extra coulter disc, ø480 mm dia. with bolt protection (pair)	
extra coulter disc, ø480 mm dia. with non-stop protection (pair)	
mechanical beam for secondary tillage tool	
hydraulic beam for secondary tillage tool	
beam tilting cylinder	
spring enhancement from 7 to 9 spring leaves, assy.	
shock absorber for support wheel	
extra fee for side support and transport wheel	
extra fee for rear support wheel (3+1 version)	
extra fee for rear support and transport wheel (3+1 version)	

IBIS XL	3+	3+1	S 3+	S 3+1	H 3+	H 3+1
Weight [kg]	1270	1420	1390	1590	1350	1550
Power demand [hp]	90÷110	100÷120	100÷120	110÷130	100÷120	110÷130

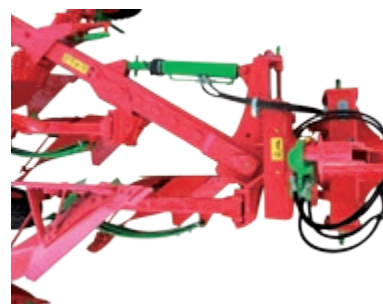
IBIS XL plus	3+	3+1	S 3+1	S 3+1	H 3+	H 3+1
Weight [kg]	1290	1440	1410	1610	1370	1570
Power demand [hp]	100÷110	110÷130	110÷130	120÷140	110÷120	110÷130

\* Weight of machine with standard equipment

# IBIS XXL



IBIS XXLS 4+1



## Rail with hydraulic cylinder of frame leaning

Decreases pressure of hydraulics system while turning the plow

## STANDARD EQUIPMENT

- » frame 140×140×8 mm
- » axle of Cat. III
- » ZX plough body or LONG body with trash boards
- » bolt (M16×81mm), non-stop spring leaf (S) (7 spring leaves) or hydraulic (H) protection
- » variable, spot-adjustable ploughing width: 36, 43 and 50 cm per body
- » adjustment of the first furrow-slice with adjustment screw
- » support wheel
- » ø480 mm coulter disc: with bolt protection at/bolt protection of the body and with spring protection on spring leaf or hydraulic protection of the body



Hydraulic regulation of first furrow

### IBIS XXL in STANDARD version:

- » Interbody clearance: 90 cm
- » Underbeam clearance: 75 cm (XXL), 80 cm (XXLS/H)
- » Underbeam clearance with LONG body: 72,5 cm (XXL), 77,5 cm (XXLS/H)

### IBIS XXL in the PLUS version:

- » increased clearance under the frame 10 cm (B) more increased interbody clearance 10 cm more
- » interbody clearance: 100 cm
- » clearance under the frame: 85 cm (B), 80 cm (S,H)
- » skimmers instead of trash boards

## PRICES

IBIS XXL

IBIS XXL plus

**XXL 4+**

**XXL 4+1**

**XXL S 4+**

**XXL S 4+1**

**XXL H 4+**

**XXL H 4+1**

## ACCESSORIES AT EXTRA CHARGE

Replacement ZX body with LONG body **no extra charge**

surcharge for the solid openwork body

surcharge for the slatted openwork body

pair of universal skimmers with holders

pair of skimmers for large crop residues

knife coulter (pair)

extra coulter disc, ø480 mm dia. with bolt protection (pair)

extra coulter disc, ø480 mm dia. with non-stop protection (pair)

mechanical beam for secondary tillage tool

hydraulic beam for secondary tillage tool

Secondary tillage roller Terra H 2m (450 kg)

Secondary tillage roller Terra H 2,5m (480 kg)

spring enhancement from 7 to 9 spring leaves, assy.

extra fee for side support and transport wheel

extra fee for rear support wheel (4+1 version)

extra fee for rear support and transport wheel (4+1 version)

extra wide wheel (320/60-12)

shock absorber for support wheel

IBIS XXL standard	4+	4+1	S 4+	S 4+1	H 4+	H 4+1
Weight [kg]	1370	1520	1550	1760	1510	1710
Power demand [hp]	120÷150	140÷180	130÷160	150÷200	130÷160	150÷200

IBIS XXL plus	4+	4+1	S 4+	S 4+1	H 4+	H 4+1
Weight [kg]	1395	1550	1570	1780	1530	1730
Power demand [hp]	130÷160	150÷190	140÷170	160÷210	140÷170	160÷210

\* Weight of machine with standard equipment





VARIO 5H



## STANDARD EQUIPMENT

- » 120×120×8 mm (VARIO 3, VARIO 4) and 140×140×8 mm (VARIO 5) beams
- » hitch axle of Cat. III
- » ø120 turntable axis with double-acting cylinder
- » ZX plough body with trashboard
- » bolt protection (B) (M16x81), non-stop spring leaf (S) (7 spring leaves) or hydraulic protection (H)
- » working width: from 30 to 50 cm, hydraulically adjustable
- » beam tilling cylinder
- » adjustment of the first furrow-slice with adjustment screw
- » support wheel
- » ø480 mm coulter disc: with bolt protection at bolt protection of the body and with spring protection on spring leaf or hydraulic protection of the body

### VARIO in the STANDARD version:

**Interbody clearance:** 90 cm

**Underbeam clearance:**  
75 cm (B), 80 cm (S, H)

### VARIO in the PLUS version:

- » underbeam clearance increased of 10 cm (only in the bolt protected version, to 85 cm) and interbody clearance increased of 10 cm (to 100 mm)
- » skimmers instead of trash boards as a standard

## ACCESSORIES AT EXTRA CHARGE

### PRICES

	VARIO	VARIO PLUS
<b>3</b>		
<b>3 S</b>		
<b>3 H</b>		
<b>4</b>		
<b>4 S</b>		
<b>4 H</b>		
<b>5</b>		
<b>5 S</b>		
<b>5 H</b>		

replacement of ZX body with LONG body  
**no extra charge**

cylinder for adjustment of the first furrow-slice

surcharge for the solid openwork body

surcharge for the slatted openwork body

pair of universal skimmers with holders

pair of skimmers for large crop residues

knife coulter (pair)

extra coulter disc, ø480 mm dia. with Bolt protection (pair)

extra coulter disc, ø480 mm dia. with non-stop protection

mechanical beam for secondary tillage tool

hydraulic beam for secondary tillage tool

Secondary tillage roller : TERRA H 2m (450 kg)

Secondary tillage roller TERRA H 2.5m (480 kg)

spring enhancement from 7 to 9 spring leaves, assy.

extra fee for side support and transport wheel

extra fee for rear support wheel

extra fee for rear support and transport wheel

extra wide wheel (320/60-12)

VARIO	3	S3	H3	4	S4	H4	5	S5	H5
Weight [kg]	1 240	1 360	1 320	1470	1740	1680	1700	2050	1970
Power demand [hp]	90÷120	100÷130	90÷120	120÷150	130÷160	130÷160	140÷180	150÷200	150÷200

VARIO plus	3	S3	H3	4	S4	H4	5	S5	H5
Weight [kg]	1 260	1 380	1 340	1500	1755	1695	1745	2070	1990
Power demand [hp]	90÷120	100÷130	90÷120	130÷160	140÷170	140÷170	150÷200	160÷210	160÷210

\* Weight of machine with standard equipment

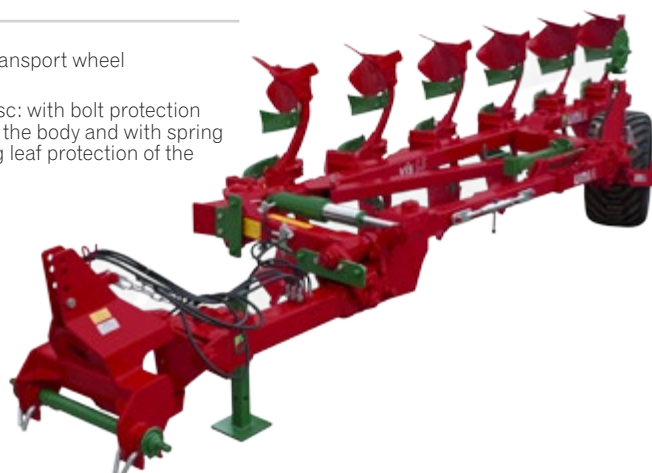
# VIS L, XL



New design of articulated joint and improved wheel suspension mechanism help at transport and operating stability.

## STANDARD EQUIPMENT

- » 140×140×8 mm (VIS L) and 180×180×8 mm (VIS XL) beams
- » hitch axle of Cat. III
- » ZX plough body with trashboard
- » bolt protection (B) (M16x81) or non-stop spring leaf (S) (7 spring leaves) protection
- » variable, spot-adjustable ploughing width: 42, 48 cm per body (35, 40 & 45 in MX 8+1 version)
- » wide support and transport wheel (550/45×22.5)
- » ø480 mm coulter disc: with bolt protection at bolt protection of the body and with spring protection on spring leaf protection of the body



### VIS L/XL in STANDARD version:

- » Interbody clearance: 100 cm
- » Underbeam clearance: 85cm (B), 80cm (S)

## PRICES

	VIS L		VIS XL
<b>4+</b>		<b>6+</b>	
<b>S 4+</b>		<b>S 6+</b>	
<b>4+1</b>		<b>6+1</b>	
<b>S 4+1</b>		<b>S 6+1</b>	
<b>5+</b>		<b>7+</b>	
<b>S 5+</b>		<b>S 7+</b>	
<b>5+1</b>		<b>7+1</b>	
<b>S 5+1</b>		<b>S 7+1</b>	

## ACCESSORIES AT EXTRA CHARGE

replacement of ZX body with LONG body	<b>no extra charge</b>
surcharge for the solid openwork body	
surcharge for the slatted openwork body	
knife coulter (pair)	
extra coulter disc, ø480 mm dia. with Bolt protection (pair)	
extra coulter disc, ø480 mm dia. with non-stop protection (pair)	
pair of universal skimmers with holders	
pair of skimmers for large crop residues	
mechanical beam for secondary tillage tool	
hydraulic beam for secondary tillage tool	
spring enhancement from 7 to 9 spring leaves	

VIS L	4+	4+1	5+	5+1	S 4+	S 4+1	S 5+	S 5+1
Weight [kg]	2700	2950	2980	3230	3030	3250	3280	2590
Power demand [hp]	120÷140	140÷160	140÷160	160÷180	130÷150	140÷170	140÷170	170÷190

VIS XL	6+	6+1	7+	7+1	S 6+	S 6+1	S 7+	S 7+1
Weight [kg]	3260	3510	3630	3890	3620	3930	4050	4370
Power demand [hp]	170÷200	210÷270	210÷270	250÷310	180÷200	220÷280	220÷280	260÷320

\* Weight of machine with standard equipment



VIS MX 8+1 in Transport.

## STANDARD EQUIPMENT

- » 140×140×8 mm (VIS MX 5+1) and 180×180×8 mm (VIS MX 6+1, 7+1, 8+1) beams
- » hitch axle of Cat. III
- » MX plough body
- » bolt protection (B) (M16×81) or non-stop spring leaf (S) (7 spring leaves) protection
- » variable, spot-adjustable ploughing width: 35, 40, 45 per body
- » wide support and transport wheel (550/45×22.5)
- » ø480 mm coulter disc: with bolt protection at bolt protection of the body and with spring protection on spring leaf protection of the body

### VIS MX in standard version

- » Interbody clearance: 90 cm
- » Underbeam clearance: 77,5 cm /82,5 cm



## PRICES

### VIS MX

<b>5+1</b>
<b>S 5+1</b>
<b>6+1</b>
<b>S 6+1</b>
<b>7+1</b>
<b>S 7+1</b>
<b>8+1</b>
<b>S 8+1</b>

## ACCESSORIES AT EXTRA CHARGE

- Replacement of MX body to LONG body
- Surcharge for the solid openwork body
- surcharge for the slatted openwork MX body
- extra coulter disc, ø480 mm dia. with bolt protection (pair)
- extra coulter disc, ø480 mm dia. with non-stop protection (pair)
- pair of universal skimmers with holders
- pair of skimmers for large crop residues
- mechanical beam for secondary tillage tool
- hydraulic beam for secondary tillage tool
- spring enhancement from 7 to 9 spring leaves
- knife coulter (pair)

VIS MX	5+1	S 5+1	6+1	S 6+1	7+1	S 7+1	8+1	S 8+1
Weight [kg]	2900	3260	3150	3570	3400	3880	3600	4140
Power demand [hp]	160÷180	160÷180	180÷210	180÷210	210÷250	220÷260	250÷310	250÷320

\* Weight of machine with standard equipment



# TUR, TUR vario



TUR 40 3+1 R



Version R



Variable (hydraulic), in TUR vario 5/5R, or mechanical, in TUR vario 4/4R, adjustment of working width

## STANDARD EQUIPMENT

- » 100×100×8 mm (TUR 30/35-3), 120×120×6 (TUR 35, TUR 40) and 120×120×8 mm (TUR Vario) beams
- » hitch axle of Cat. II, ø28 mm
- » MX plough body with trashboard (TUR 30/35-3; 35; 35R)
- » ZX plough body with trashboard TUR 40; 40R; TUR vario)
- » bolt protection (M16)
- » non-stop spring leaf (R) (5-leaf spring – TUR or 7-leaf spring TUR vario)
- » adjustment of the first furrow-slice width with adjustment screw (TUR)
- » working width: 30 or 35 cm (TUR 100), and 35 or 40 cm (TUR 120)
- » variably adjusted working width of ploughing: within the range 35-50 cm (TUR vario)
- » ø405 mm coulter disc (TUR 30/35-3) or ø480 mm (remaining TUR's & TUR vario): with bolt protection at bolt protection of the body and with spring at spring leaf protection of the body
- » steel support wheel (TUR 30/35-3)
- » rubber support wheel (TUR vario)

## Interbody clearance:

76 cm (TUR 30); 85 cm (TUR 35, TUR R 35); 90 cm (TUR 40, TUR R 40); 100 cm (TUR vario, TUR vario R)

## Underbeam clearance:

66 cm (TUR 30); 75 cm (TUR 35, 40, TUR R, TUR vario R); 80 (TUR vario)

## TUR plus (only bolt protection)

- » underbeam clearance increased of 10cm (to 85 cm)
- » Interbody: 90 cm
- » underbeam clearance: 85 cm, LONG body 82,5 cm

## PRICES

TUR TUR R

30/35-3

35 3+

35 3+1

35 4+

35 4+1

40 3+

40 3+1

40 4+

40 4+1

## PRICES

TUR plus

40 3+

40 3+1

40 4+

40 4+1

## PRICES

TUR vario

4

5

4 R

5 R

## ACCESSORIES AT EXTRA CHARGE

replacement of ZX body with LONG body (TUR 40, TUR vario)

no extra charge

surcharge for the solid openwork body (TUR 30/35-3; 35)

surcharge for the slatted openwork body (TUR 30/35-3; 35)

surcharge for the solid openwork body TUR 40, TUR vario assy.

surcharge for the slatted openwork body TUR 40; TUR vario assy.

mechanical beam for secondary tillage tool TUR 35,40

mechanical beam for secondary tillage tool TUR vario

hydraulic beam for secondary tillage tool TUR vario

spring enhancement in TUR R (from 5 to 7 spring leaves) and TUR vario R (from 7 to 9 spring leaves), assy.

skim coulter assy., TUR R, vario R, vario

side cylinder, TUR vario 4

knife coulter (per pc.)

TUR	30/35-3	35 3+	35 3+1	35 4+	35 4+1	40 3+	40 3+1	40 4+	40 4+1
Weight [kg]	330	510	600	600	680	510	610	610	700
Power demand [hp]	45÷60	45÷60	60÷80	80÷100	60÷80	80÷110	80÷110	80÷110	110÷150

TUR R	35 3+	35 3+1	35 4+	35 4+1	40 3+	40 3+1	40 4+	40 4+1
Weight [kg]	700	850	890	920	720	870	920	1080
Power demand [hp]	45÷60	60÷80	60÷80	80÷100	60÷80	80÷110	80÷110	110÷150

TUR plus	40 3+	40 3+1	40 4+	40 4+1
Weight [kg]	510	610	610	700
Power demand [hp]	60÷80	80÷110	80÷110	110÷150

TUR vario	4	5	4 R	5 R
Weight [kg]	800	990	980	1170
Power demand [hp]	90÷120	110÷150	90÷120	110÷150

\* Weight of machine with standard equipment

# SAFETY DEVICES USED IN PLOUGHS



PLOUGHS

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

transport

plant protection



## BOLT PROTECTION

an effective protection with a bolt sheared when the ploughshare encounters resistance of 1200kg. This protection can be used on light soils, stone-free and with small amount of obstacles in the field



## SPRING LEAF PROTECTION

A maintenance-free protection made of steel spring leaves that allow effective tilting of body when the ploughshare encounters resistance of 1300kg and returns to the preset working depth after its bypassing. They are recommended for heavy and stony soils, with great number of obstacles in the field. The resistance force of the protection can be increased by adding additional spring leaves (depending on the machine type, 5, 7 or 9-leaf springs are available).

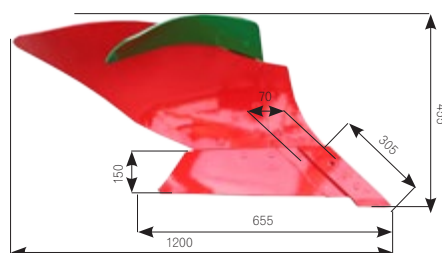


## HYDRAULIC PROTECTION

A maintenance-free solution that allows adjustment of the protection force and thus, adaptation to the field conditions. Pressure adjustment within the range from 70 to 120 bar allows resistance adjustment per ploughshare required for the body tilting from 800 to 1200 kg.

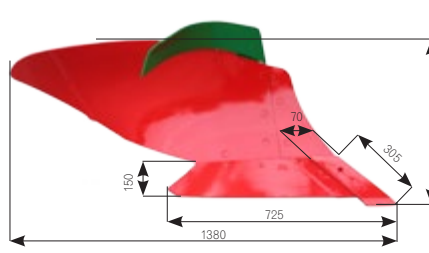


## Bodies



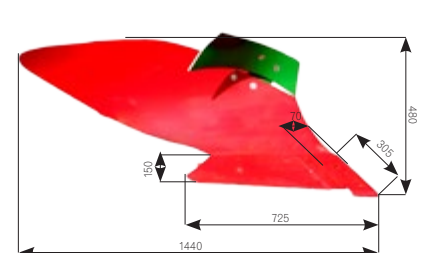
### MX body with trash board

120cm long body made of hardened, brittle timber boron steel. It allows full undercut and turning the furrow-slice of up to 45 cm wide at low tillage resistance.



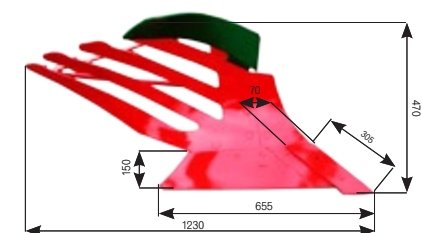
### ZX body with trash board

138cm long body for heavy duty ploughs made of hardened, brittle timber boron steel. It allows full undercut and turning the furrow-slice of up to 55 cm wide at low tillage resistance.



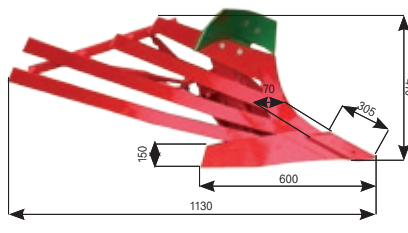
### LONG body with trash board

Excellent for various tillage types and for various soil conditions, in all work conditions. The body construction allows layering of wide furrow-slices under wide wheels of the tractors used today and at the same time minimizes resistance and the tractor's power requirements.



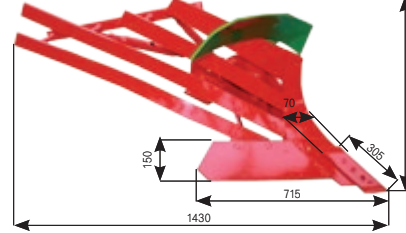
### MX solid openwork body with trash board

New construction of the openwork mouldboard made of one piece of steel provides uniform wear and is easy to replace.



### XL slatted openwork body with trash board

Excellent for very heavy, clayey and firm soils. It crushes soil very well at reduced resistance at work.



### XXL slatted openwork body with trash board

Excellent for very heavy, clayey and firm soils. It crushes soil very well at reduced resistance at work even with the largest ploughs.

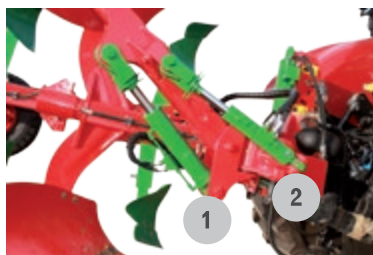
# Terra



## TERRA H Secondary tillage roller

It is equipped with hydraulic adjustment system for folding the tool for transport and adjust pressure by shifting the plough weight between the operating sections. It can be used for soil compacting during ploughing. It is integrated with the plough when accessing the field and during operation when rotating. As a standard, it is equipped with spiral roller with  $\varnothing$  470 mm dia. and working width of 2 or 2.5 m.

At work, cylinder No. 1 lowers the roller down to the stop and for transport, the cylinder lifts the roller up. Cylinder No. 2 is for setting the roller in proper direction. It is also designed for folding the roller, which allows containing the machine within the tractor overall dimensions over the plough.



## Wheels



### RUBBER SUPPORT WHEEL

200/65-14,5  
(IBIS M, XM, L, XL)  
10.0/80-12  
(IBIS XXL, Vario)



### REAR SUPPORT WHEEL

Allows precise setting of working depth and keeping it at given level



### SIDE SUPPORT AND TRANSPORT WHEEL

Allows taking the pressure of the tractor, during the transport and helps with transportation of plough on public roads.



### REAR SUPPORT AND TRANSPORT WHEEL

Combines advantages of side support and transport wheel with rear wheel. Allows precise setting of working depth, and ploughing the fields with obstacles, also helps with transportation of plough on public roads



### WIDE WHEEL

(320/60-12) Allows precise setting of working depth, and ploughing the fields with obstacles.

## Skimmers and disc coulters



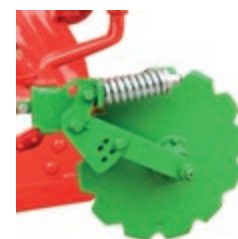
### UNIVERSAL SKIMMERS



### SKIMMERS FOR LARGE AFTERCORPS



### Disc coulters with bolt protection



### Disc coulters with spring protection



# CULTIVATION





# MAX



MAX 6H with SV tines



MAX with SZ tines



MAX with SX spring tines

## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III
- » front string roller, ø390 mm (or optionally, front levelling bar) and 4-row section of SV tines
- » levelling skid behind the tine section
- » rear double string roller, ø320 / 280 mm
  - version 3 – rigid frame
  - version 4H-9H – hydraulically folded frame



SV Tines



SX Tines



SZ Tines

## PRICES

MAX

**3**  
**4 H**  
**4,5 H**  
**6 H**  
**7,5 H**  
**9 H**



The working tools can adapt to the soil condition and crop.

## ACCESSORIES AT EXTRA CHARGE

	3	4H	4,5H	6H	7,5H	9H
surcharge for Crosskill/String roller						
surcharge for double Crosskill roller 320 mm						
surcharge for Ring roller 470 mm						

Carriage for 4,5H–6H version  
Carriage for 7,5H–9H version  
Carriage for 4,5H–6H version with seeder coupling  
Track looseners – set of 4 pcs.

MAX	3	4H	4,5 H	6 H	7,5 H	9 H
Weight [kg]	1400	1900	2200	2700	4500	5500
Power demand [hp]	90÷100	110÷130	120÷150	160÷180	200÷220	240÷260
Number of tines standard [pcs.]	32	36	48	64	80	96
Number of tines SX/SZ	12	18	20	24	30	36

\* Weight of machine with standard equipment



Double Crosskill roller, ø320 mm, with rear toothed skid



Toothed string roller, ø320 m, with ø280 mm toothed string roller



Crosskill ø320 mm, toothed string roller

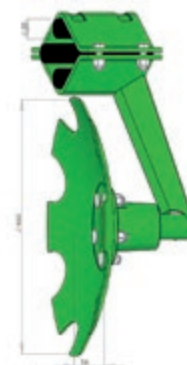


Ring roller, ø470 mm





MAX 3T



## Premium ø460 mm

Toothed discs section  
ø460 mm With rubber  
shock absorber  
protection 35×160 mm.

## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III
- » two rows of 460mm premium discs
- » levelling skid behind the disc section
- » rear double string roller, ø320 / 280 mm
- » version 3 – rigid frame
- » version 4H-9H – hydraulically folded frame

## PRICES

MAX T

3	
4	H
4,5	H
6	H
7,5	H
9	H



MAX T semimounted in transport

## ACCESSORIES AT EXTRA CHARGE

	3	4H	4,5H	6H	7,5H	9H
surcharge for Crosskill/String roller						
surcharge for double Crosskill roller 320 mm						
surcharge for Ring roller 470 mm						

Carriage for 4,5H–6H version

Carriage for 7,5H–9H version

Carriage for 4,5H–6H version with seeder coupling

Track looseners – set of 4 pcs.

MAX T	3	4H	4,5 H	6 H	7,5 H	9 H
Weight [kg]	1650	2200	2400	3100	5500	6400
Power demand [hp]	90 ÷ 110	130 ÷ 150	150 ÷ 180	180 ÷ 200	230 ÷ 240	250 ÷ 280
Number of the discs [pcs]	24	30	36	48	60	72

\* Weight of machine with standard equipment



Double Crosskill  
roller, ø320 mm, with  
rear toothed skid



Toothed string roller,  
ø320 m, with ø280 mm  
toothed string roller



Crosskill ø320 mm,  
toothed string roller

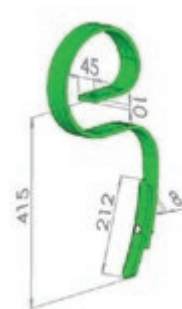


Ring roller, ø470 mm

# KOMBI



KOMBI 5,6 H



tines SV



tines SK

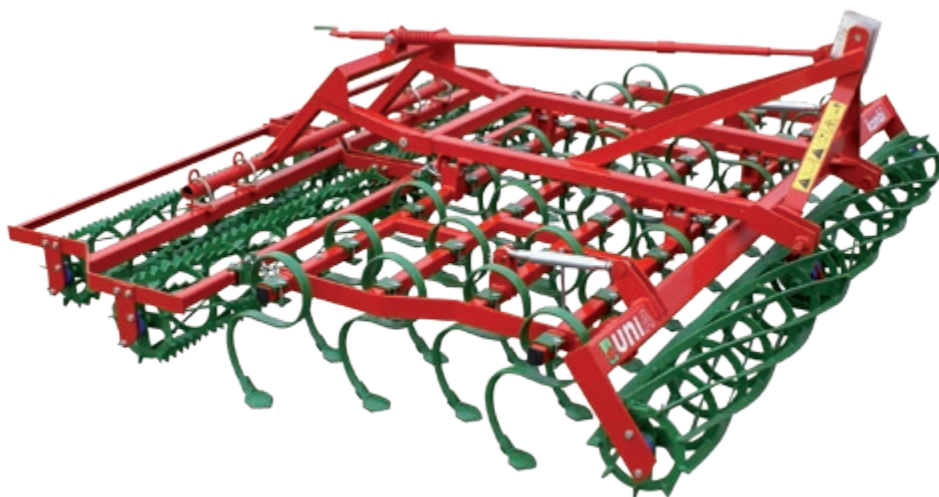
## STANDARD EQUIPMENT

### KOMBI H

- » suspension axle of Cat. II
- » track openers with spot adjustment of depth and spring protection of duckfoot
- » front string roller, ø320 mm
- » 3 rows of SV spring tines (45×10 mm) with variable adjustment of working depth
- » double string and toothed roller, ø320 / 280 mm with pressure control
- » hydraulically folded for transportation

### KOMBI

- » suspension axle of Cat. II
- » front string roller, ø320 mm
- » 4 rows of SV spring tines (45×10 mm)
- » double string and toothed roller, ø320 / 280 mm with pressure control
- » rigid frame



KOMBI 3 with SK tines

## PRICES

### KOMBI

3

3,7 H

4,2 H

5,1 H

5,6 H

## ACCESSORIES AT EXTRA CHARGE

surcharge for SK tine (45×10 mm) with duckfoot, 100 KOMBI H (price per pc.)

3

KOMBI	3	3,7 H	4,2 H	5,1 H	5,6 H
Weight [kg]	620	1060	1125	1410	1530
Power demand [hp]	60	75	90	112	150
Number of tines [pcs.]	30	36	42	50	56

\* Weight of machine with standard equipment





VIKING 6,3H

## STANDARD EQUIPMENT

### VIKING

- » adjustable front levelling skid
- » 5 rows of SV spring tines (45×10 mm)
- » single rear string roller, ø320 mm
- » double side wheels (Viking 8H)

### VIKING XL

- » adjustable front levelling skid
- » four rows of SL spring tines
- » single rear string roller, ø390 mm
- » double side wheels (Viking XL 8H)



Transport position



Viking XL



VIKING 6,8H with SV tines

## PRICES

### VIKING

5,3 H

5,8 H

6,3 H

6,8 H

8 H

XL 6 H

XL 8 H

## ACCESSORIES AT EXTRA CHARGE

	5,3H	5,8H	6,3H	6,8H	8H	XL 6H	XL 8H
surcharge for SK tine (45×10 mm) with duckfoot 100 (pcs.)							
front hydraulic spring board							
rear hydraulic spring board							
track opener, assy.							

VIKING	5,3 H	5,8 H	6,3 H	6,8 H	8 H	XL 6H	XL 8H
Weight [kg]	1860	1920	2000	2060	2350	2800	3100
Power demand [hp]	110÷140	120÷160	130÷170	155÷190	185÷225	160÷190	200÷230
Number of tines [pcs.]	65	71	79	85	98	30	40

\* Weight of machine with standard equipment



Front hydraulic spring board.

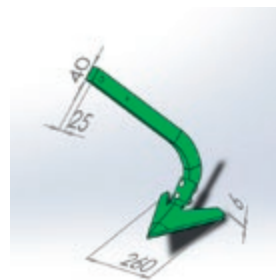


Hydraulically controlled board on spring arms (rear).

# ATLAS



ATLAS



SZ tine - for shallow cultivation - for seeding corn and white beet



SX tine - universal tine for shallow and deep cultivation

## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III 3 or 4 m version
- » front levelling bar or track openers with depth adjustment (version 3–4m)
- » front string roller ø400 mm
- » 2-row section of SX spring tines
- » levelling bar
- » rear double Crosskill roller, ø400 mm, alternating
- » rear toothed skid
- » rigid frame with wheels ø340/55-16
- » ATLAS system (seeder coupling and connecting bolt)



Atlas 4, with SX tines

## PRICES

ATLAS

3

4

## ACCESSORIES AT EXTRA CHARGE

3

4

Surcharge for Premium discs section (instead of tines)

ATLAS	3	4
Weight [kg]	2150	2550
Power demand [hp]	70 ÷ 90	90 ÷ 120
Number of tines [pcs.]	12	16

\* Weight of machine with standard equipment



Cultivating-sowing unit ATLAS 3 + POLONEZ 3





ATLAS 6H with SX tines

## STANDARD EQUIPMENT

- » hitch axle of Cat. III (4,5H-10H)
- » front levelling bar (4,5H-10H)
- » front string roller ø400 mm
- » 2-row section of SX spring tines
- » levelling bar
- » double Crosskill roller, ø400 mm, alternating
- » rear toothed skid
- » single frame with ø480/45-17 wheels 4,5H-10H
- » hydraulic folding for transportation,
- » machine as 8.0-10H machines are over 3m in transport
- » ATLAS system (seeder coupling and connecting bolt)



Atlas with MAZUR mechanical seeder.

## PRICES

ATLAS H

4,5 H

6 H

8 H

10 H



Rear toothed skid.



Levelling bar.

## ACCESSORIES AT EXTRA CHARGE

Surcharge for Premium discs section (instead of tines)

4,5 H

6 H

8 H

10 H

2 100

2 800

3 750

4 700

ATLAS	4,5 H	6 H	8 H	10 H
Weight [kg]	3500	4400	5300	5900
Power demand [hp]	150 ÷ 180	170 ÷ 210	200 ÷ 230	220 ÷ 260
Number of tines [pcs.]	18	24	32	40

\* Weight of machine with standard equipment

# GNIOT



GNIOT 5,2H Crosskill



Transport position

## STANDARD EQUIPMENT

- » suspension axle of Cat. III
- » 3 sections of Crosskill rollers, ø510mm
- » hydraulic roller folding
- » semi-mounted with carriage with wheel size 340 / 55-16



GNIOT PREMIUM with C harrow



## Cambridge roller with alternating rings ø525 mm i ø497 mm

It is recommended for heavy soils due to its strong crushing properties. Use of smooth rings and flat toothed discs with increased diameter, loosely fitted to the axle provides self-cleaning of the roller.



## Crosskill roller, ø510mm as a standard

It provides strong crushing and compacting of dry and lumpy soil, i.e. on medium and heavy soils.

## PRICES

GNIOT

5,2 H

6,2 H

## ACCESSORIES AT EXTRA CHARGE

5,2H

6,2H

surcharge for three sections of Cambridge roller with ring diameters ø525 mm and ø497 mm alternately

surcharge for Premium version with harrow type C

front hydraulic board

GNIOT	5,2H Crosskill	6,2H Crosskill	5,2H Cambridge	6,2H Cambridge
Working width [m]	5,2	6,2	5,2	6,2
Weight [kg]	2220	2450	2760	3120
Power demand [hp]	90÷120	100÷130	90÷120	100÷130

\* Weight of machine with standard equipment





CUT XXL with carriage and place for mounting seeder coupling.



CUT L in mounted version



CUT L/XL in semi mounted version



CUT XXL ø660 mm discs in transport position.

## STANDARD EQUIPMENT

### CUT L, CUT XL

- » 100×100×6 mm (CUT L) or 120×120×8 mm (CUT XL) frames
- » suspension axle of Cat. II or III
- » 4 sections of discs in 'X' arrangement
- » ø510×4 mm or ø560×4 mm (CUT L) toothed discs
- » ø610×6 mm or ø660×6 mm (CUT XL) toothed discs

### CUT XXL

- » suspension axle of Cat. III
- » 4 sections of discs in 'X' arrangement
- » ø660×6 mm toothed discs
- » ø600 mm pipe roller
- » hydraulic folding of frame

## PRICES

	2,3×510	2,3×560	2,8×510	2,8×560	3,2×510	3,2×560	3,9×560
<b>CUT L</b>							
Pipe roller ø500 mm							
	2,8×610	2,8×660	3,2×610	3,2×660	3,9×610	3,9×660	
<b>CUT XL</b>							
Pipe roller ø500 mm							
	5×660	6×660	7×660				
<b>CUT XXL with ø600 mm pipe roller</b>							
<b>CUT XXL with ø700mm steel roller</b>							

## ACCESSORIES AT EXTRA CHARGE

### CUT L, CUT XL

- middle tine
- carriage for semi-mounted version
- seeder coupler at the carriage

### CUT XXL

- hydraulic adjustment of working depth (2 points)
- hitch type drawbar

CUT L	2,3×510	2,3×560	2,8×510	2,8×560	3,2×510	3,2×560	3,9×560
Weight without a roller [kg]	750	780	790	820	880	920	1000
Power demand [hp]	60÷80	60÷80	70÷95	75÷100	85÷110	85÷110	110÷140
Number of discs[pcs.]	20	20	24	24	28	28	28

CUT XL	2,8×610	2,8×660	3,2×610	3,2×660	3,9×610	3,9×660
Weight without a roller [kg]	1270	1360	1380	1500	1500	1620
Power demand [hp]	80÷105	85÷110	95÷120	100÷125	125÷160	130÷165
Number of discs[pcs.]	24	24	28	28	36	36

CUT XXL	5×660	6×660	7×660
Weight/weight with water [kg]	5650/6150	5900/6400	6150/6650
Power demand [hp]	170÷210	180÷240	200÷270
Number of discs[pcs.]	44	52	60

\* Weight of machine with standard equipment

# ARES TL



ARES TL 3 with Packer roller



## T L ø460 mm

Toothed discs section  
ø460 mm With rubber  
shock absorbers  
35×160 mm.



## Premium ø460 mm

Toothed discs section  
ø460 mm With rubber  
shock absorbers  
35×160 mm.

## STANDARD EQUIPMENT

- » suspension axle of Cat. II
- » 2 rows of toothed discs, ø460 mm , protected by 35×160mm rubber shock absorbers
- » pipe roller, ø500 mm
- » mechanical adjustment of working depth
- » rigid frame (3–4)
- » hydraulic folding of frame ( 4,5H–6H)
- » row of spring levelling fingers ( 4,5H–6H)



ARES TL in the semi-mounted version.

## PRICES

ARES TL

3

3,5

4

4,5 H

6 H

## ACCESSORIES AT EXTRA CHARGE

3 3,5 4 4,5H 6H

front board (only with the Drive system or in semi-mounted)

system drive

Surcharge for Premium discs (per pc.)

lightweight carriage with drawbar (3–4)

heavy carriage with drawbar (4,5–6H)

deflectors (set)

Rollers according to table

page 42

ARES TL, premium	3	3,5	4	4,5H	6 H
Weight [kg]	1000	1150	1280	2800	3290
Power demand [hp]	80÷100	100÷120	110÷130	130÷160	150÷180
Number of discs[pcs.]	24	28	32	36	48
Distance between rows of discs [cm]	64	64	64	64	64

\* Weight of machine with standard equipment



Drive version with Premium, ø460 mm discs.





# ARES T XL



ploughs

CULTIVATORS

seeding  
equipment

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



ARES T XL 4 with pipe roller

## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III
- » 2 rows of toothed discs, ø560 mm protected by 35×190mm rubber shock absorbers
- » pipe roller, ø500 mm
- » row of spring levelling fingers
- » mechanical adjustment of working depth
- » rigid frame (3–4)
- » hydraulic folding of frame (4,5–6)

### Vibro Premium ø510 mm

Toothed discs section ø510 mm, with spring holder



ARES T XL with T vibro system, ø560 mm.



Ares T XL, in the semi-mounted version and Vibro Premium system, ø460 mm, prepared for transportation.

## PRICES

ARES T XL

**3**  
**3,5**  
**4**  
**4,5 H**  
**6 H**



### T XL ø560 mm

Toothed discs section ø560 mm With rubber shock absorbers 35×190 mm.



### T vibro ø560 mm

Toothed discs section ø560 mm with spring disc holder.

## ACCESSORIES AT EXTRA CHARGE

surcharge for T Vibro System 560/Vibro Premium 510

front board (only with the Drive system or semi mounted)

Drive system

front support wheel in the semi-mounted version (in the version without board)

hydraulic adjustment of working depth (2 adjustment points) (3–4)

hydraulic adjustment of working depth (4 adjustment points) (4,5–6)

lightweight carriage with drawbar (3–4)

heavy carriage with drawbar (4,5–6H)

Surcharge Snake disc(pc)

Surcharge premium disc ø560/6(pc)

Surcharge Premium Snake disc(pc)

Deflectors(set)

rollers acc. to the specification Table

page 42

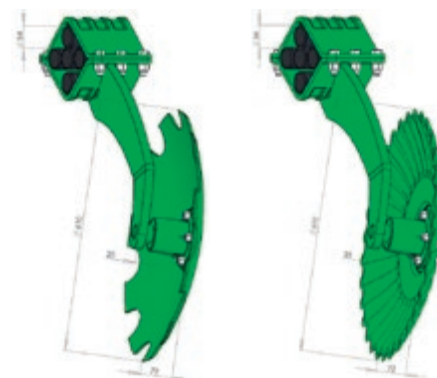
ARES T XL, vibro	3	3,5	4	4,5 H	6 H
Weight [kg]	1530	1690	1920	2970	3450
Weight in Vibro version [kg]	1590	1760	2000	3050	3560
Power demand [hp]	110÷130	120÷140	120÷150	150÷180	170÷210
Number of discs[pcs.]	24	28	32	36	48
Distance between rows of discs [cm]	80	80	80	80	80

\* Weight of machine with standard equipment

# MARS



MARS T with Snake discs and aftercorp seeder ETA200

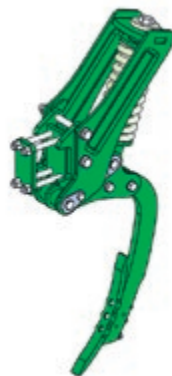


Version T

Snake version

## STANDARD EQUIPMENT

- » suspension axle of Cat. III
- » ridge, semimounted frame
- » T discs 610 in the front and 560 in the back, protected by rubber shock absorbers (Mars T)
- » TX discs 660 in the front and 610 in the back, protected by spring (Mars TX)
- » Two rows of double discs 660/610 with spring protection (Mars TWIX)
- » in MARS Long additionally one row of CX tines with narrow blade with possibility of step adjustment of working depth
- » mechanical adjustment of working depth
- » carriage with wheels 340/55-16 (Mars T)
- » carriage with wheels 480/45-17 (Mars TX/Twix)
- » pipe roller, 600 mm



Tine with narrow blade (MARS Long)



MARS with the Roller Up system



MARS Long equipped in standard with the row of tines

## PRICES

	3	3 DRIVE	3 Roller UP	3,5	3,5 DRIVE	4	4 DRIVE
<b>T</b>							
<b>TX</b>							
<b>TWIX</b>							

## ACCESSORIES AT EXTRA CHARGE

front support wheels assy(except Roller-up)
hydraulic adjustment of working depth(1 point)
hitch type drawbar
deflectors set

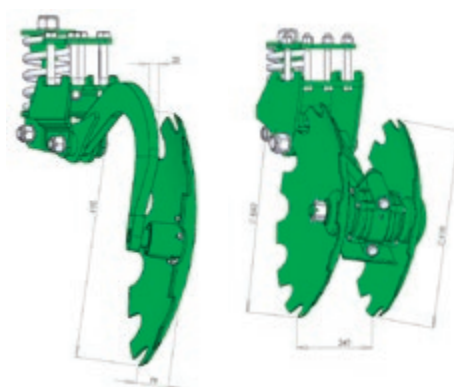
Surcharge T 610 discs(pc)
Surcharge TX660 (MARS TX) (pc)
Surcharge SNAKE discs (pc)
Surcharge MARS LONG 3
Surcharge MARS LONG 4
Rollers according to tables

page 42

MARS	3	3,5	4	3 LONG	4 LONG	3 ROLLER UP
Weight T [kg]	1580	1910	2120			2000
Weight TX [kg]	3340	3720	4100	3790	4790	2320
Weight Twix [kg]	3420	3820	4210	3870	4900	2380
Number of discs T/TX/Twix [pcs.]	24	28	32	24	32	24
Distance between rows of discs/Number of tines (MARS Long) [mm/pcs.]	1100	1100	1100	4	6	1050
Power demand [hp]	130÷150	135÷160	140÷170	180÷210	210÷250	130÷150

\* Weight of machine with standard equipment





TX version

Twix version

## STANDARD EQUIPMENT

- » suspension axle of Cat. III
- » hydraulically folded frame
- » T discs 610 in the front and 560 in the back, protected by rubber shock absorbers (Mars T)
- » TX discs 660 in the front and 610 in the back, protected by spring (Mars TX)
- » Two rows of double discs 660/610 with spring protection (Mars TWIX)
- » mechanical adjustment of working depth
- » carriage with wheels 480/45-17 (Mars T)
- » carriage with wheels 550/45-22,5 (Mars TX/Twix)
- » pipe roller, 600 mm



Mars H in transport



Mars T 6H during the work



Mars T 6H

## PRICES

### T

### TX

### TWIX

mars 4h	mars 4,5h	mars 5h	mars 6h
------------	--------------	------------	------------

## ACCESSORIES AT EXTRA CHARGE

front support wheels assy

hydraulic adjustment of working depth(1 point)

hitch type drawbar

deflectors set

Surcharge T 610 discs(pc)

Surcharge TX660 (MARS TX) (pc)

Surcharge SNAKE discs (pc)

Rollers according to tables

page 42

Mars	4,5	5	6
Weight T [kg]	3890	—	4590
Weight TX [kg]	—	6160	6825
Weight Twix [kg]	—	5890	6600
Number of discs MARS T [pcs.]	36	—	48
Number of discs MARS TX [pcs.]	—	40	48
Number of discs MARS Twix [pcs.]	—	32	40
Power demand MARS T [hp]	150÷180	—	180÷220
Power demand MARS TX/TWIX [hp]	—	220÷230	240÷260

\* Weight of machine with standard equipment

# KOS



KOS ST 3 at work

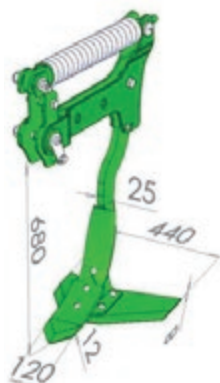


KOS with KX tines with bolt protection,  
A harrow and pipe roller



## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III
- » 2 rows of KX tines with 440 mm undercutter and bolt or spring protection
- » ø460 mm A disc harrow with gradual depth adjustment
- » rear pipe roller, ø500 mm
- » spot adjustment of working depth on the rear roller holder
- » rigid frame (2,1–3,7)
- » hydraulic folding of frame (3,7H–6H)



KOS H in transport position



A harrow ø460 mm

B harrow ø460 mm

## PRICES

	KOS	KOS S	Surcharge for B section (KOS T)
2,1			
2,6			
3			
3,7			
3,7 H			
4,5 H			
5,4 H			
6 H			

## ACCESSORIES AT EXTRA CHARGE

front support wheel assy. for semi-mounted version

carriage for semi-mounted version (4,5H – 6H)

for rollers, see the specification tables

page 42

KOS	2,1	2,6	3	3,7	3,7 H	4,5 H	5,4H	6 H
Weight in spring protected version [kg]	930	1050	1200	1650	1950	2380	2710	2820
Weight in bolt protected version [kg]	720	800	915	1270	1560	1920	2165	2280
Power demand spring protected version [hp]	75÷100	90÷120	115÷150	140÷180	140÷180	170÷220	200÷260	200÷260
Power demand bolt protected version [hp]	65÷80	80÷100	100÷140	140÷160	130÷160	140÷190	160÷200	160÷200
Number of tines[pcs]	5	6	7	9	9	11	13	13
Underbeam clearance[cm]	80	80	80	80	80	80	80	80
Distance between rows[cm]	80	80	80	80	80	80	80	80
Distance between tines [cm]	41	41	41	41	41	41	41	46

\* Weight of machine with standard equipment





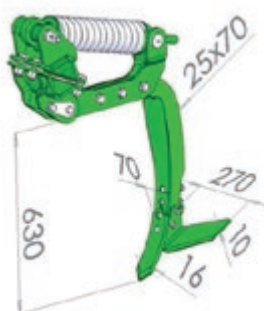
KOS premium at work



KOS premium plus ETA

## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III
- » ridg frame(3-4m versions)
- » hydraulic folding of frame (4H-6H)
- » chassis with wheels 480/45-17 (wersje 4H – 6H)
- » 2 rows of CX tines with 370 mm undercutter and spring protection
- » CX tines at the edges equipped with moldboards
- » Two rows of A harrow
- » rear pipe roller ø600 mm
- » hydraulic adjustment of working depth on the rear roller



### KOS premium

Semi-mounted version with CX tines, spring, harrow type A and spiral roller.



### KOS premium long

With CX tines, B harrow and Packer roller.

## PRICES

3	
3,5	
4	
4	H
5	H
6	H
3	LONG
4	LONG

KOS Premium	Surcharge for B section
-------------	-------------------------

## ACCESSORIES AT EXTRA CHARGE

front support wheel assy. for semi-mounted version

carriage (4H-6H)

rollers acc. to the specification tables

page 42

3	3,5	4	4H	5H	6H
---	-----	---	----	----	----

System drive

KOS PREMIUM	3	3,5	4	4 H	5 H	6 H
Weight with pipe roller 600mm [kg]	1880	2190	2500	2970	3500	4000
Power demand [hp]	120÷150	140÷170	160÷190	180÷200	200÷230	220÷240
Number of the tines[pcs]	8	10	12	11	13	15
Number of discs (A harrow) [pcs]	8	10	12	12	14	16
Number of discs (B harrow) [pcs]	16	20	24	22	26	30
Distance between the tines [mm]	370			350		
Clearance under the frame [cm]	850					
Weight of carriage [kg]				1100	1100	1100

\* Weight of machine with standard equipment

# CROSS



CROSS DRIVE at work



CROSS 3 with CX tines, harrow  
type B and pipe roller

## STANDARD EQUIPMENT

- » suspension axle of Cat. II or III (ready for assembling of hitch type drawbar)
- » rigid frame (3–4)
- » 3 rows of CX tines with 370 mm undercutter
- » external CX tines fitted with raking mouldboards
- » disc harrow type A
- » ø600 mm pipe roller
- » hydraulic adjustment of working depth



CROSS 3 with A harrow and spring roller



CROSS 3 drive with B harrow

## PRICES

**CROSS**

3
3,5
4

<b>CROSS</b>	<b>3</b>	<b>3,5</b>	<b>4</b>
Weight with pipe roller 600mm [kg]	1990	2380	2540
Power demand [hp]	150÷180	160÷190	170÷200
Number of the tines [pcs]	10	12	13
Distance between the tines [mm]	300	290	300
Clearance under the frame [cm]	850		
Distance between the beams [cm]	750		
Length of machine [cm]	397		

\* Weight of machine with standard equipment

narrow blade	no extra charge
hitch type drawbar (only drive version)	440
rollers acc. to the specification tables	page 42



# CROSS H



ploughs

CULTIVATORS

seeding  
equipment

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



CROSS H at work



CROSS H in transport position

## STANDARD EQUIPMENT

- » suspension axle of Cat. III
- » hydraulic folding of frame
- » 3 rows of CX tines with 370 mm undercutter
- » external CX tines fitted with raking mouldboards
- » disc harrow type A
- » ø600 mm pipe roller
- » hydraulic adjustment of working depth
- » wheeled chassis, 480 / 45–17 (4H)
- » wheeled chassis, 550 / 45–22,5 (5H–6H)



## PRICES

### CROSS H

4

5

6

CROSS H	4H	5H	6H
Weight with pipe roller 600mm [kg]	4300	5200	5800
Power demand [hp]	180 ÷ 240	240 ÷ 280	280 ÷ 320
Number of the tines [pcs]	13	17	19
Distance between the tines [mm]	300	290	305
Clearance under the frame [cm]	850		
Distance between the beams [cm]	750		
Length of machine [cm]	760		

\* Weight of machine with standard equipment

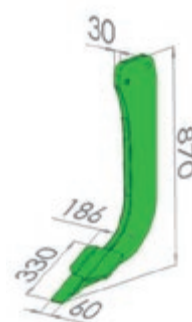
## ACCESSORIES AT EXTRA CHARGE

narrow blade	no extra charge
hitch type drawbar (only drive version)	
front wheels	
rollers acc. to the specification Table	page 42

# KRET



KRET 5S



## STANDARD EQUIPMENT

- » suspension axle of Cat. III
- » rigid, 100×200 mm frame
- » L tine
- » bolt or non-stop spring leaf tine protection (S version)
- » exchangeable coulters with tabs and undercutting with of 190 mm
- » adjustable tine spacing – you can install 3 or 5 tines on the working width of 3 m, 5 to 7 tines on 4 m



KRET 5 with pipe roller

## PRICES

## KRET

3

3 S

3 FRAME 5

3 S FRAME 5 S

5

5 S

7

7 S

3 frame 5

5

7

harrow type C

pipe roller with C harrow

steel support wheels, assy.

rubber support wheels, assy.

extra fee for XL tine (per pc.)

holders for the roller or C harrow (bolt protection)

holders for the roller or C harrow (spring protection)

divided axle (for PTO shaft)

for rollers, see the specification Table

KRET	3	3 S	3 frame 5	3 S frame 5 S	5	5 S	7	7 S
Working width [m]	1,7	1,7	3	3	3	3	4	4
Weight without roller [kg]	610	830	720	1000	840	1300	1140	1785
Power demand [hp]	75 ÷ 110	100 ÷ 130	100 ÷ 130	130 ÷ 160	110 ÷ 150	150 ÷ 180	160 ÷ 210	180 ÷ 240
Clearance under the frame [cm]	90	90	90	90	90	90	90	90

\* Weight of machine with standard equipment



# PLOW



ploughs

CULTIVATORS

seeding  
equipment

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



PLOW 6 S



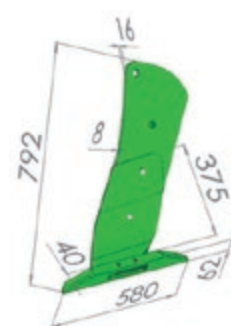
PLOW 6 B

## STANDARD EQUIPMENT

- » suspension axle of Cat. III
- » rigid, 100×200 mm frame
- » bolt or non-stop spring leaf tine protection (S version)



PLOW 4S



## PRICES

## PLOW

**4**  
**4 S**  
**6**  
**6 S**  
**8**  
**8 S**

## ACCESSORIES AT EXTRA CHARGE

rubber support wheels, assy.  
holders for the roller or C harrow (bolt protection)  
holders for the roller or C harrow (spring protection)  
C harrow (4, 4S, 6, 6S)  
C harrow (8, 8S)  
Pipe roller with C section (6, 6S)  
Pipe roller with C section (8, 8S)  
rollers according to tables

PLOW	4	4 S	6	6 S	8	8 S
Working width [m]	3	3	3	3	4	4
Weight without roller [kg]	840	1200	1140	1600	1400	2030
Power demand [hp]	130÷150	130÷150	150÷180	150÷180	170÷200	170÷200
Clearance under the frame [cm]	95	95	95	95	95	95

\* Weight of machine with standard equipment



Optional crushing harrow type C that perfectly opens the top layer of the soil.

# KRUK

soil miller, opens and mixes the soil and crushes agglomerates



Kruk 2.0  
with side drive



For working components, drive is transferred by the gear train.



KRUK (central drive)



## STANDARD EQUIPMENT

- » central drive (in the middle): Kruk 1.6, 1.8, 2.0
- » side chain drive in oil bath: Kruk 2.0 with side drive
- » universal three-point suspension system
- » adjustment of working depth on the support wheels: Kruk 1.6, 1.8, 2.0
- » front skids for adjustment of working depth: Kruk 2.0 with side drive
- » working depth up to 12 cm



Hydraulic side shift.



Working knives.

## PRICES

**KRUK 1,6**

**KRUK 1,8**

**KRUK 2,0**

**KRUK 2,0 (SIDE DRIVE)**

## ACCESSORIES AT EXTRA CHARGE

hydraulic side shift (for Kruk 2,0 with side drive)

410

KRUK	1,6	1,8	2,0	2,0 (side drive)
Working width [m]	1,6	1,8	2,0	2,0
Weight [kg]	350	370	390	420
Power demand [hp]	30	50	60	60
Number of knives [pcs]	48	54	60	48

\* Weight of machine with standard equipment



# HERMES

active units, multi-purpose heavy rotor harrow with vertically rotating knives



ploughs

CULTIVATORS

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

transport

plant protection



## Working elements

280 mm long knives operating in vertical position protected against mechanical damages by automatic clutch.



## Levelling bar

The bar located between the knives and packing roller level the soil before the sowing drill openers.



## Seedbed combination

the HERMES unit is equipped with coupler for seeder as a standard, which allows to connect it to e.g. Polonez 550/3 D seeder

## STANDARD EQUIPMENT

- » 280 long vertical knives
- » two-stage gear
- » foldable side guards
- » PTO speed – 540 RPM
- » rear pipe roller ø500 mm
- » PTO shaft with automatic clutch

## PRICES

### HERMES 3,0

### HERMES 4,0

## ACCESSORIES AT EXTRA CHARGE

- front levelling bar
- rear levelling bar
- surcharge for Packer roller, ø530 mm
- surcharge for rubber roller, ø500 mm
- seeder coupling + supports + linking screw

3 4

HERMES	3	4
Working width [m]	3	4
Weight without a roller [kg]	1120	1430
Power demand [hp]	80	100
Number of knives [pcs]	24	32

\* Weight of machine with standard equipment





# AKCENT

weeder harrow



ploughs

CULTIVATORS

seeding  
equipment

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



AKCENT 12



Working section.



Folded and ready  
for transport.

## STANDARD EQUIPMENT

- » segment frame can be folded for transport by the hydraulic system
- » spring-loaded fingers with  $\varnothing 7\text{mm}$  Dia. with adjustable rake angle
- » road wheels in size  $23 \times 8.5 \times 12$  mm
- » support wheels, 2 pcs. (AKCENT 7,5H)
- » support wheels, 4 pcs. in size 5.00 / 9 (AKCENT 9H, 12H)

## PRICES

### AKCENT 6

### AKCENT 7,5

### AKCENT 9

### AKCENT 12

AKCENT	6H	7,5H	9H	12H
Weight [kg]	640	900	1100	1700
Power demand [hp]	70	80	90	110

\* Weight of machine with standard equipment

# ARES L/XL – cultivators connected to seeders

passive cultivators designed for pre-sowing tillage of the soil after seed ploughing or before winter



ARES L



ARES XL



Ares with seeder connected.



Lifting on two hydraulic cylinders.



Screw coupler for seeder

## STANDARD EQUIPMENT

### L

- » front straight string roller ø320 mm
- » 2 rows of SU tines
- » rear toothed string roller ø320 mm
- » supports for seeder wheels
- » seed drill lifting on two cylinders
- » screw and coupling for seeder
- » axis of II or III category

### XL

- » divided string roller ø320 mm
- » 3 rows of SV heavy tines
- » rear pipe roller ø500 mm
- » supports for seeder wheels
- » lifting on one cylinder
- » screw and coupling for seeder
- » axis of II or III category

## CENY

ARES L	2,5	2,7	3
2 ROWS OF SU TINES			
3 ROWS OF SU TINES			

ARES XL	3
3 ROWS OF SV TINES	

## ACCESSORIES AT EXTRA CHARGE

ARES L	2,5	2,7	3
Pipe roller ø500mm			
Packer roller ø420 mm			

ARES XL	
Packer roller ø500 mm	
Crosskill roller ø500 mm	
Rubber roller ø500 mm	



Supports for seeder wheels.

ARES L	2,5	2,7	3	2,7	3
Rows of tines [pcs.]	2	2	2	3	3
Number of tines [pcs.]	18	20	22	27	32
Power demand [HP]	45	60	60	75	75
Weight + string roller [kg]	560	595	615	620	650
Weight + pipe roller [kg]	585	620	650	645	685
Weight + Packer roller [kg]	705	750	800	775	835

\* Weight of machine with standard equipment

ARES XL	3
Rows of tines [pcs.]	3
Number of tines [pcs.]	32
Power demand [HP]	90 ÷ 110
Weight + pipe roller [kg]	850
Weight + Packer roller [kg]	1115
Weight + Crosskill roller [kg]	1180
Weight + Rubber roller [kg]	1200



# Optional Equipment



## Drawbar with hitch

Allows precise alignment of the unit and provides regular operation even at work on a small depth



## Set of deflectors

Prevent ejection of soil beyond the working width of the unit and allow adjustment to the specific working depth



## Hydraulic board

Used in the ploughless cultivation systems and in the field after tillage. The boards eliminate inequalities of crop residues at the skimming work or break clods of earth and equalize furrows after tillage. The bits attached to the teeth can be easily replaced



## Hydraulic adjustment of working depth

Convenient control of the unit working depth from the tractor cab, especially at the variable structure of the soil. It is available with 2 or 4-point adjustment.



## Rubber support wheel



## Steel support wheel



## System drive

Equipped with a  $\varnothing 670$ mm tire and transport roller with hydraulic adjustment of working depth and allows secure transport on public roads and good soil compaction during work.



## Front support wheels assy.



## Carriage for semi-mounted version, light







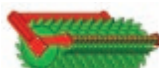








## Carriage for semi-mounted version

Relieves the tractor suspension system and provides convenient transportation.

# ROLLERS

\*in mounted machines in standard equipment, we have got pipe roller ø500 mm, and in semimounted pipe roller ø600 mm.

Change of the roller is done by decreasing the price of machine price of standard roller and adding the price of other roller from table.

Type	Working width [m]	3,0	3,5	4,0	4,0 H	4,5 H	5,0 H	6,0 H
Pipe roller ø500 mm 	Weight [kg]	250	300	335	345	390	420	500
	PRICES [eur]							
Pipe roller ø600 mm 	Weight [kg]	330	450	490	500	530	580	660
	PRICES [eur]							
Rubber roller ø500 mm 	Weight [kg]	560	710	790	800	870	940	1120
	PRICES [eur]							
Rubber roller ø700 mm 	Weight [kg]	835	1080	1190	1205	1320	1440	1670
	PRICES [eur]							
Packer roller ø500 mm 	Weight [kg]	495	630	695	705	780	850	990
	PRICES [eur]							
Packer roller ø700 mm 	Weight [kg]	730	950	1040	1050	1150	1240	1460
	PRICES [eur]							
Ring roller ø470 mm 	Weight [kg]	450	—	620	—	—	—	—
	PRICES [eur]							
Ring roller ø600 mm 	Weight [kg]	590	690	790	800	850	950	1180
	PRICES [eur]							
Alternate ring roller ø600 mm 	Weight [kg]	625	730	830	840	940	1 040	1 280
	PRICES [eur]							
Tire roller L ø670 mm 	Weight [kg]	590	690	790	800	880	980	1 180
	PRICES [eur]							
Tire roller XL ø800 mm 	Weight [kg]	650	750	850	870	975	1 080	1 350
	PRICES [eur]							
Steel roller ø700 mm 	Weight [kg]	780	980	1 100	1 110	1 220	1 340	1 560
	PRICES [eur]							
Spring roller L ø600 mm 	Weight [kg]	570	—	750	760	860	—	1 140
	PRICES [eur]							



# ROLLERS



ploughs

CULTIVATORS

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

transport

plant protection

Type	Working width [m]	3,0	3,5	4,0	4,0 H	4,5 H	5,0 H	6,0 H
 Spring roller XL ø700 mm	Weight [kg]	740	—	980	1 000	1 160	—	1 480
	PRICES [eur]							
 Alternate Spring roller L ø600 mm	Weight [kg]	770	—	1 030	1 040	1 165	—	1 550
	PRICES [eur]							
 Alternate Spring roller XL ø700 mm	Weight [kg]	930	—	1 230	1 250	1 420	—	1 880
	PRICES [eur]							

ARES TL	3	3,5	4	4,5 H	6H
Pipe roller ø500 mm	✓	✓	✓	✓	✓
Rubber roller ø500 mm	✓	✓	✓	✓	✓
Packer roller ø500 mm	✓	✓	✓	✓	✓
Ring roller ø470 mm	✓	x	✓	x	x
Ring roller ø600 mm	✓	✓	✓	✓	✓
Spring roller L	✓	x	✓	✓	✓
Alternate Spring roller L	x	x	x	✓	✓
Alternate Ring roller ø600mm	x	x	x	✓	✓

ARES TXL	3	3,5	4	4,5 H	6H
Pipe roller ø500mm	✓	✓	✓	✓	✓
Pipe roller ø600mm	✓	✓	✓	✓	✓
Rubber roller ø500 mm	✓	✓	✓	✓	✓
Packer roller ø500 mm	✓	✓	✓	✓	✓
Spring roller L	✓	x	✓	✓	✓
Ring roller ø600 mm	✓	✓	✓	✓	✓
Tire roller ø670 mm	✓	✓	✓	✓	✓
Alternate Spring roller L	✓	x	✓	✓	✓
Alternate Ring roller ø600 mm	✓	✓	✓	✓	✓

KOS / KOS S	2,1	2,6	3	3,7	3,7H	4,5H	5,4 H	6H
Pipe roller ø500mm	✓	✓	✓	✓	✓	✓	✓	✓
Pipe roller ø600mm	x	x	✓	x	x	✓	x	✓
Spring roller L	x	x	✓	x	x	✓	x	✓

KOS Premium	3	3,5	4	4H	5H	6H
Pipe roller ø600 mm	✓	✓	✓	✓	✓	✓
Rubber roller ø700 mm	x	x	x	✓	✓	✓
Steel roller ø700 mm	x	x	x	✓	✓	✓
Packer roller ø700 mm	x	x	x	✓	✓	✓
Tire roller ø670 mm	x	x	x	✓	✓	✓
Rubber roller ø500 mm	✓	✓	✓	✓	✓	✓
Packer roller ø500 mm	✓	✓	✓	✓	✓	✓
Spring roller L	✓	x	✓	✓	x	✓
Spring roller XL	x	x	x	✓	x	✓
Ring roller ø600 mm	✓	✓	✓	✓	✓	✓
Alternate Spring roller L	x	x	x	✓	x	✓
Alternate Spring roller X L	x	x	x	✓	x	✓
Alternate Ring roller ø600 mm	x	x	x	✓	✓	✓

MARS T, TX, TWIX, Long	3	3,5	4	4H	4,5 H	5H	6H
Pipe roller ø600mm	✓	✓	✓	✓	✓	✓	✓
Rubber roller ø700 mm	✓	✓	✓	✓	✓	✓	✓
Steel roller ø700 mm	✓	✓	✓	✓	✓	✓	✓
Packer roller ø700 mm	✓	✓	✓	✓	✓	✓	✓
Tire roller ø670 mm	✓	✓	✓	✓	✓	✓	✓
Tire roller ø800 mm	x	x	x	✓	✓	✓	✓
Rubber roller ø500 mm	✓	✓	✓	✓	✓	✓	✓
Packer roller ø500 mm	✓	✓	✓	✓	✓	✓	✓
Spring roller L	✓	x	✓	✓	✓	x	✓
Spring roller XL	✓	x	✓	✓	✓	x	✓
Ring roller ø600 mm	✓	✓	✓	✓	✓	✓	✓
Alternate Spring roller L	✓	x	✓	✓	✓	x	✓
Alternate Spring roller X L	✓	x	✓	✓	✓	x	✓
Alternate Ring roller ø600 mm	✓	✓	✓	✓	✓	✓	✓

MARS Roller-up	3
Pipe roller ø600	✓
Spring roller L	✓
Ring roller ø600 mm	✓

KRET, PLOW	3	4
Pipe roller ø600	✓	✓
Spring roller L	✓	✓
Ring roller ø600 mm	✓	✓
Steel roller	✓	✓

CROSS	3	3,5	4	4H	5H	6H
Pipe roller ø600 mm	✓	✓	✓	✓	✓	✓
Rubber roller ø700 mm	x	x	x	✓	✓	✓
Steel roller ø700 mm	x	x	x	✓	✓	✓
Packer roller ø700 mm	x	x	x	✓	✓	✓
Tire roller ø670 mm	x	x	x	✓	✓	✓
Tire roller ø800 mm	x	x	x	✓	✓	✓
Rubber roller ø500 mm	✓	✓	✓	✓	✓	✓
Packer roller ø500 mm	✓	✓	✓	✓	✓	✓
Spring roller L	✓	x	✓	✓	x	✓
Spring roller XL	x	x	x	✓	x	✓
Ring roller ø600 mm	✓	✓	✓	✓	✓	✓
Alternate Spring roller L	x	x	x	✓	x	✓
Alternate Spring roller XL	x	x	x	✓	x	✓
Alternate Ring roller ø470 mm	x	x	x	✓	✓	✓





# SEEDING EQUIPMENT





**F 350, 500**

grain drills mechanical, mounted, for grain seeding,  
in traditional cultivation technology



F 350/3



F 500/3

## STANDARD EQUIPMENT

- » hoe coulters or single-disc coulters or double-disc coulters
- » hydraulic trigger of side markers on one cylinder (F 350) or on two cylinders (F 500)
- » mechanical switch of processing routes (F 350)
- » pneumatic switch of processing routes (F 500)
- » central and individual pressing of coulters
- » stepless gearbox
- » tractor track openers
- » shelf for grain
- » loading platform
- » external disc coulters
- » firmer



Hydraulic trigger of side markers on one cylinder.



Hoe coulters



### Grain sowing apparatus



Compact design.



### Single-disc coulters

## PRICE

**F 350/3**

**F 500/3**

Hoe coulters	Single-disc coulters	Double-disc coulters
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Line F	350/3	500/3
Working width [m]	3,0	3,0
Seed box capacity [dm³]	350	500
Types of coulters	Hoe	hoe / single- / double-disc
Number of coulters [items]	25	25
Weight [kg]	400	530 / 590 / 650
Power demand [HP]	40	50



### Double-disc coulters

# P 550, 780, 855, 1100

mechanical row seed drills, mounted, for grain seeding, in traditional cultivation technology



ploughs

cultivators

SEEDING  
EQUIPMENT

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



P 550/3D



## Hoe coulters

Lightweight coulters recommended for medium firm soils; external coulters of double-disc type



## Double disc coulters

Massive double-disc coulters alternating and self-cleaning. Two metal coulters discs: first toe is attacking and the last one is cleaning discs.



## Pressing and copying set

Set of pressing and copying wheels assembled to the alternating double-disc coulters for pressing seeds to the ground and maintaining the pre-set sowing depth



## Seed drill computer

Counts passages from markers. Opens and closes processing routes in auto mode. Signals minimum seed levels. Displays daily and accumulated productivity.

## STANDARD EQUIPMENT

- » hoe coulters
- » alternating double disc coulters, self-cleaning type (D)
- » hydraulic trigger of passage markers on two cylinders
- » electrical processing paths
- » wheels 6×16 (version 550/3)
- » loading platform with steps
- » two-piece integrated sowing wheels for cereals and rape
- » stepless gearbox in oil bath
- » central hydraulic pressing of coulters
- » central control of working depth of the coulters
- » grating inside the hopper to facilitate loading
- » device for calibration test
- » central control of apparatus bottoms positions
- » tractor track openers
- » firmer with individual spring pressing

## PRICE

**P 550/3**

**P 780/4**

**P 550/3D**

**P 780/4D**

## ACCESSORIES AT EXTRA CHARGE

	550/3	780/4	550/3D	780/4D
900 litre loading hopper				
1000 litre loading hopper				
pressing and copying set				
seeder computer				
pre-emergence processing paths				
Duplo system (simultaneous seed drill and fertilizer distribution)				

Line P	550/3	780/4	1000/4	550/3 D	900/3 D	780/4 D	1000/4 D
Working width [m]	3	4	4	3	3	4	4
Loading hopper capacity [dm³]	550	780	1000	550	900	780	1000
Types of coulters	Hoe	Hoe	Hoe	Disc	Disc	Disc	Disc
Number of coulters [items]	29	35	35	25	25	31	31
Weight [kg]	680	920	930	870	890	1100	1150
Power demand [HP]	60	80	80	60	80	80	100



# P 855, 1100

mechanical row seed drills, mounted or semi-mounted, for seed drill or simultaneous seed drill and fertilizer distribution



P 1100/6,0D



## Double-disc coulters

Massive double-disc coulters, alternating and self-cleaning.

Two metal coulters: first one is attacking and the last one cleaning disc.



Sowing apparatus – divided to seeds fine and coarse



Sowing apparatus for fertilizer



A carriage (semi-mounted version) facilitates work with tractors with up to 100 HP of power output.



Additional wheels attached at the rear of the P seed drill allow its longitudinal transport.

## PRICE

**P 855/4,5**

**P 1100/6,0**

**P 855/4,5D**

**P 1100/6,0D**

## ACCESSORIES AT EXTRA CHARGE

855/4,5 1100/6,0 855/4,5D 1100/6,0D

pressing and copying set

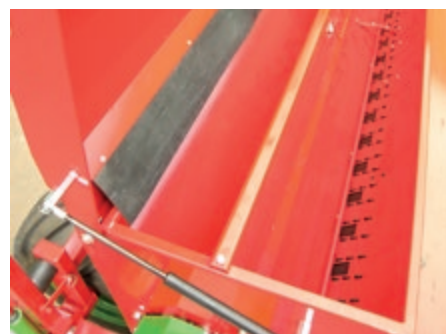
DUPLO system

hydraulic pre-emergence processing paths

carriage for semi-mounted version

seed drill computer

Line P	855/4,5	1100/6,0	855/4,5 D	1100/6,0 D	855/4,5 D DUPLO	1100/6,0 D DUPLO
Working width [m]	4,5	6	4,5	6	4,5	6
Seed box capacity [dm³]	855	1100	855	1100	855	1100
Types of coulters	Hoe	Hoe	Disc	Disc	Disc	Disc
Number of coulters [items]	39	51	35	47	35	47
Weight [kg]	1800	2300	1995	2560	2100	2750
Power demand [HP]	80÷100	100÷120	80÷100	100÷120	80÷100	100÷120



## P duplo

The duplo version is fitted with a 1/3 or 2/3 divided hopper. Additional sowing apparatus controlled by a second gearbox provide simultaneous sowing and fertilizer distribution.

# P 1000 premium



mechanical row seed drills, mounted, for seed drill or simultaneous seed drill and fertilizer distribution, in traditional or simplified cultivation technology



P 1000/4 premium

## STANDARD EQUIPMENT

- » alternating double disc coulters ø300 with a copying wheel
- » hydraulic trigger of side markers on two cylinders
- » electrical processing routes
- » tyres 10 x 15
- » loading platform
- » two-piece integrated sowing wheels for cereals and rape
- » stepless gearbox in oil bath
- » central hydraulic pressing of coulters
- » individual control of working depth of the coulters
- » firmer with individual spring pressing
- » tractor track openers
- » 1/3 to 2/3 divided hopper (fertilizes/grain – DUPLO version)



Double disc coulters ø300 with a copying wheel 360×80mm. Unit pressure 40 kg/coulter

## PRICE

### P 1000/4 premium

## ACCESSORIES AT EXTRA CHARGE

seeder computer

hydraulic pre-emergence processing paths

Duplo System (fertilize + grain)

Line P premium	1000/4	1000/4 DUPLO
Working width [m]	4,0	4,0
Hopper capacity [dm <sup>3</sup> ]	1000	1000
Types of coulters	double-disc ø300 with a copying wheel	double-disc ø300 with a copying wheel
Number of coulters [items]	31	31
Weight [kg]	1800	2000
Power demand [HP]	120	120



Divided grain sowing apparatus for fine or coarse seed.



Fertilizer distribution apparatus



Central hydraulic pressing of coulters.



A 1/3 to 2/3 divided hopper.





# P 1500 drive

mechanical row seed drills, semi-mounted, for seed drill or simultaneous seed drill and fertilizer distribution, in traditional cultivation technology



P 1500/4 drive



Seeder with mounted hydraulic trigger of passage markers

## STANDARD EQUIPMENT

- » alternating double disc coulters ø350 with a copying wheel
- » hydraulic trigger of side markers on two cylinders
- » tyres 7.5 x 20
- » loading platform
- » universal grain sowing and fertilizer distribution apparatus
- » central hydraulic pressing of coulters
- » individual control of working depth of the coulters
- » firmer with individual spring pressing
- » tractor track openers
- » 1/3 to 2/3 divided hopper (fertilizes/grain – DUPLO version)



Grain sowing apparatus (P drive).



Fertilizer distribution apparatus (P drive).

## PRICE

### P 1500/4 drive

## ACCESSORIES AT EXTRA CHARGE

Duplo System (fertilize+ grain)

Hydraulic trigger of passage markers on two cylinders

Line P drive	1500/4	1500/4 DUPLO
Working width [m]	4,0	4,0
Hopper capacity [dm³]	1500	1500
Types of coulters	double-disc ø350 with a copying wheel	double-disc ø350 with a copying wheel
Number of coulters [items]	26	26
Weight [kg]	2300	2500
Power demand [HP]	80	80



Pressure 65 kg/coulter



Double-disc coulters ø350 with a copying wheel 360x80mm.



Universal, grain sowing apparatus



Hydraulic cylinder for raising coulters



# AMBER 900, 1200



ploughs

cultivators

SEEDING  
EQUIPMENT

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection

mechanical row seed drills, mounted or semi-mounted, for fertilizer distribution or simultaneous seed drill and fertilizer distribution, in traditional cultivation technology



AMBER 900/3 DRIVE with hydraulic drag

## STANDARD EQUIPMENT

- » disc coulters, ø400 mm, protected by rubber shock-absorbers
- » universal, divided sowing wheels
- » stepless gearbox
- » Tilt for seed hopper
- » rubber roller ø500 mm (version 900)
- » tyre rear roller 195×15 (DRIVE model)
- » adjustable drawbar (DRIVE drive)
- » hydraulic trigger of passage markers on two cylinders
- » electrical system of closing processing paths
- » firmer



### Disc coulters with shock absorber

Disc ø400 mm with rubber shock absorber protection.



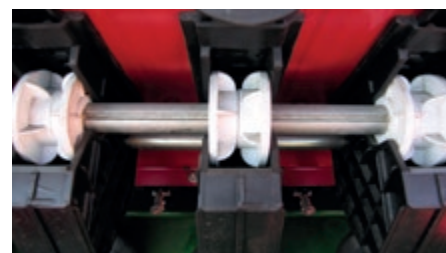
Amber 900/3 with rubber roller



Amber 900/3, mounted version



Divided grain sowing apparatus for fine or coarse seed



Fertilizer distribution apparatus

## PRICE

### AMBER 900/3

### AMBER 1200/4 DRIVE

## ACCESSORIES AT EXTRA CHARGE

900/3 1200/4  
DRIVE

front hydraulic board (drive only)

steel roller

spiral roller

drive system

duplo system

pre-emergence processing paths

computer

AMBER	900/3	1200/4 DRIVE
Working width [m]	3	4
Hopper capacity [dm³]	900	1200
Types of coulters	Disc	Disc
Number of coulters [items]	24	32
Weight [kg]	1750	3300
Power demand [HP]	100÷120	120÷140



# AMBER 3000, 3100 drive

mechanical row seed drills, mounted or semi-mounted, for fertilizer distribution or simultaneous seed drill and fertilizer distribution, in traditional cultivation technology



AMBER 3000/3 DRIVE + smoothing cultivation

## STANDARD EQUIPMENT

- » disc coulters, ø400 mm, protected by rubber shock-absorbers
- » universal, divided sowing wheels
- » stepless gearbox
- » Tilt for seed hopper
- » tyre rear roller 195×15
- » adjustable drawbar
- » hydraulic trigger of passage markers on two cylinders
- » electrical system of closing processing routes
- » firmer

## PRICE

**AMBER 3000/3 DRIVE**

**AMBER 3100/4 DRIVE**

## ACCESSORIES AT EXTRA CHARGE

double-disc with a copying wheel

front hydraulic board

duplo system

pre-emergence processing paths

computer

undercutting cultivation – discs ø460 mm

smoothing cultivation – discs ø460 mm

**3000/3  
DRIVE**

**3100/4  
DRIVE**

AMBER	3000/3 DRIVE	3100/4 DRIVE
Working width [m]	3	4
Hopper capacity [dm <sup>3</sup> ]	3000	3100
Types of coulters	disc	disc
Number of coulters [items]	24	32
Weight [kg]	2500	3100
Power demand [HP]	120 ÷ 140	140 ÷ 160



### Undercutting cultivation

Disc ø400 mm with rubber shock absorber protection. Unit pressure 100 kg/disc.



### Smoothing cultivation

Double-disc coulters of a V-shape, with ø360 mm discs and massive side copying wheel. Unit pressure 40 kg/coulter.



### Disc coulter with shock absorber

Disc ø400 mm with rubber shock absorber protection.



### Double-disc coulter with a copying wheel

Double-disc coulters of a V-shape, with ø360 mm discs and massive side copying wheel.

# ALFA



seed drills for aftercrop, grass, fertilizer, mounted on skimming units, disc units or seed drills



ALFA 550/25/3  
mounted on ARES TL

## STANDARD EQUIPMENT

- » driving wheel
- » components for spreading aftercrop and fertilizer
- » agitator shaft
- » painted metal tank – hopper made of acid resistant steel (ALFA Fertilizer)
- » sowing control by shaft displacement
- » components for assembling to KOS skimming unit
- » grooved sowing apparatus
- » tilt



ALFA 3.0 mounted on KOS unit



## Grain sowing apparatus

Grooved sowing apparatus are used in the ALFA drills (the dose depends on displacement of the shaft, on which the sowing apparatus are installed).



ALFA 750/3 (fertilizer) mounted on the front three-point hitch system of a tractor. Copying wheel raised hydraulically.



ALFA 180/23/3 and 240/30/4 are seed drills for distributed grass sowing. They are intended for combining with P line seed drills for simultaneous sowing of cereals and grass.

## PRICE

**ALFA 150/6/2,2**

**ALFA 170/7/2,6**

**ALFA 220/8/3,0**

**ALFA 250/10/3,7**

**ALFA 280/11/4,1**

**ALFA 550/25/3**

**ALFA 180/23/3**  
(GRASS FOR P)

**ALFA 240/30/4**  
(GRASS FOR P)

**ALFA 750/12/3**  
(FERTILIZER)

**ALFA 1000/18/4**  
(FERTILIZER)

**ALFA 210/25/3**  
(FOR ARES)

**ALFA 240/30/4**  
(FOR ARES)

## ACCESSORIES AT EXTRA CHARGE

suspension system for attachment to the front three-point hitch	350
lid made of acid resistant sheet 3.0	450
lid made of acid resistant sheet 4.0	610
additional components for fixing to: KOS T, ARES, CUT, CROSS units	150

ALFA	150/6/2,2	170/7/2,6	220/8/3	250/10/3,7	280/11/4,1	550/25/3	180/23/3	240/30/4	750/12/3	1000/18/4	210/25/3	240/30/4
Working width [m]	2,2	2,6	3	3,7	4,1	3	3	4	3	4	3	4
Hopper capacity [dm <sup>3</sup> ]	150	170	220	250	280	550	180	240	750	1000	210	240
Number of coulters [items]	6	7	8	10	11	25	23	30	12	18	25	30
Weight [kg]	90	100	120	140	210	265	160	220	230	320	180	240



# FV 1600

## Pneumatic seed drill for combining with a set of coulters



## STANDARD EQUIPMENT

- » grain dosing apparatus made of stainless steel
- » electrical drive of dosing apparatus
- » radar sensor of speed control
- » hydraulic drive of fan
- » protection tilt
- » road lights
- » multi-function computer
- » pneumatic line  $\varnothing 32$  mm – 25 m
- » pneumatic line  $\varnothing 70$  mm – 10 m



FV 1600 mounted on the front three-point hitch system of a tractor (possible 600 dm<sup>3</sup> extension package)



Grain dosing apparatus made of stainless steel, driven by electric motor. Fan driven by hydraulic motor.

## PRICE

**FV 1600**

## ACCESSORIES AT EXTRA CHARGE

ACCESSORIES AT EXTRA CHARGE	3,0 m	4,0 m	4,5 m	6,0 m
sowing bar with lightweight coulters (pressure 24 kg/coulter)				
sowing bar with heavy coulters (pressure 40 kg/coulter)				
pressing and copying set for lightweight coulters				
600 litre extension package				

<b>FV</b>	<b>1600</b>
Working width [m]	3÷6
Hopper capacity [dm³]	1600
Weight [kg]	380
Maximum sowing dose [kg/h]	1200



6 m wide sowing bar with lightweight  
coulters (pressure 24 kg/coulter)

# ETA 200, 300, 500



Seed broadcaster, pneumatic, for sowing aftercrop, rape or grass



ETA 200 with electrical drive

## STANDARD EQUIPMENT

- » pneumatic line 25 m
- » sowing roller for fine seed – 1 item
- » sowing roller for coarse seed – 1 item
- » agitator
- » set of electrical wires
- » measuring chute, installation plate
- » scatterer – 8 items
- » single-section distributor for hydraulic drive version



Control computer, type 5.2



ETA 200 with hydraulic drive

## PRICE

**ETA 200**

**ETA 300**

**ETA 500**

## ACCESSORIES AT EXTRA CHARGE

- control computer, type 3.2
- control computer, type 5.2
- pneumatic line
- Sensor radar of control speed – 3-point linkage
- Sensor radar of control speed – working carriage
- radar sensor of speed control – road wheel
- grain scatterer (extra)
- electrical wire extension
- hexagonal shaft for scatterer assembly

ETA	200	300	500
Working width [m]	1–6 m (electrical drive) 1–7 m (hydraulic drive 8 outputs) 1–12 m (hydraulic drive 16 outputs) – connection by distribution manifolds		
Weight with electrical/hydraulic drive [kg]	60/83	70/93	103/126
Tank capacity [dm³]	200	300	500
Electrical parameters	12 V / 25 A	12 V / 25 A	12 V / 25 A



Scatterer





# GAMMA

mechanical precision drills for sowing maize, sorghum, sunflower, beans, etc. in minimum soil cultivation technology



GAMMA 6 plus



## Transport system

Transport system  
For convenient movement on public roads, special transport wheels and a hook attachment for tractors can be used.

## STANDARD EQUIPMENT

- » mechanical seed sowing system
- » hydraulic trigger of side markers on two cylinders
- » fertilizer distributor made of acid-resistant steel with disc coulters
- » sowing section with coulters discs
- » precise adjustment of sowing depth and seed pressure
- » power transmission between section by cardan shaft

## PRICE

### GAMMA 6 PLUS

### GAMMA 8 PLUS

## ACCESSORIES AT EXTRA CHARGE

transport carriage (GAMMA 6 plus)

transport and operating carriage (GAMMA 8 plus)

Computer for GAMMA seed drill

disc for sunflower grain, item

GAMMA	6 PLUS	8 PLUS
Working width [m]	4,5	6
Hopper capacity [dm <sup>3</sup> ]	6×80	8×80
Number of coulters [items]	6 sections	8 sections
Weight [kg]	2100	2580
Power demand [HP]	100÷120	120÷150



## Grain sowing apparatus

Depending on the seed, you can select appropriate sowing disc. The disc may be of various number and diameter of wholes, depending on the seed calibration. A horizontally-mounted disc collects caryopses falling into the holes, while the excess of seed is gathered by a special scraper.



## Fertilizer distribution apparatus

Pin apparatus for distribution of fertilizers. Dose can be set on gearboxes.



Computer for precision drills. With photocells used at each section, it is possible to control the sowing process precisely.



## Disc coulters

Double-disc coulters with a copying wheel on which the sowing depth is set.



## Disc coulters for fertilizer

Double-disc coulters with massive spring pressure.

ploughs

cultivators

SEEDING  
EQUIPMENT

combination  
seed drills

mowers

rakes

Baler/wrapper  
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mineral  
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potato  
technology

transport

plant  
protection



# KRUK

mechanical precision seed drills for vegetable seeds



**KRUK B4**  
with hydraulic marker trigger



### Sowing elements

The size of sowing cups should be selected according to the seed calibration.



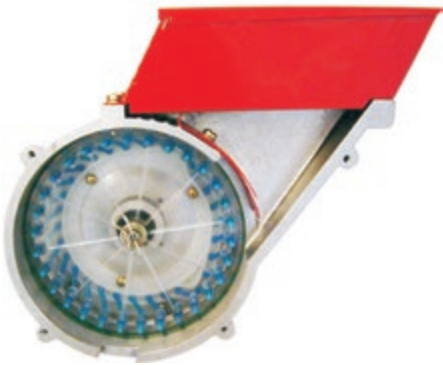
### KRUK B

The KRUK B is a manual, two-row version, while the B2, B3, B4 marking describe versions suspended to the tractor – 2, 3 or 4 two-row sections accordingly.



### Tractor section

Frame-mounted sections differ from the manual versions with coulter, press wheel and fixing on the parallelogram.



### Sowing body

Aluminium design prevents charging of fine seeds with static electricity.

## STANDARD EQUIPMENT

### MANUAL VERSION

- » passage marker
- » sowing body made of aluminium
- » set of sowing cups
- » chain drive from the front copying wheel
- » openwork copying wheels
- » set of toothed wheels
- » drag chain

### MOUNTED VERSION

- » from 2 to 12 sections
- » width of support frame: 1.80–6.00m
- » adjustable rubber support wheels
- » three-point hitch system
- » aluminium bodies
- » 8 sets of sowing cups



## PRICE

### KRUK A

### KRUK A2

### KRUK A3

### KRUK A4

### KRUK B

### KRUK B2

### KRUK B3

### KRUK B4

## ACCESSORIES AT EXTRA CHARGE

- one-row section
- two-row section
- hydraulic trigger of markers

KRUK	KRUK A	KRUK A2	KRUK A3	KRUK A4	KRUK B	KRUK B2	KRUK B3	KRUK B4
Working width [m]		1.8	1.8	1.8		1.8	1.8	1.8
Hopper capacity [dm³]	0,45	2×0,45	3×0,45	4×0,45	2×0,45	4×0,45	6×0,45	8×0,45
Number of coulters [items]	1 row	2 rows	3 rows	4 rows	2 rows	4 rows	6 rows	8 rows
Weight [kg]	13	126	149	172	23	156	194	232
Power demand [HP]		30	30	30		30	30	30



# COMBINATION SEED DRILLS







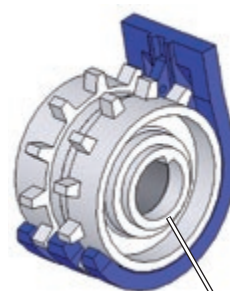
# FS 2000/3



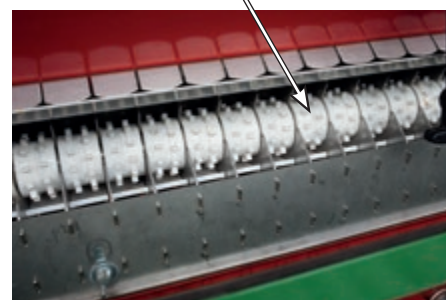
pneumatic combination seed drill, semi-mounted, for row sowing of grain in traditional cultivation technology



FS 2000/3



Modern sowing system FS with adapters for fine seed.



Double disc coulters  
ø300 with a copying  
wheel 360x80.  
Unit pressure 40 kg/coulter

## STANDARD EQUIPMENT

- » two rows of ø460 mm discs
- » transport and compacting tyre roller ø1100 mm
- » double disc coulters fi 300 with a copying wheel. Unit pressure 40 kg/coulter
- » hydraulic motor-driven fan (flow capacity 24 l/min)
- » electrical system of closing processing paths
- » hydraulic trigger for passage markers
- » independent hydraulic pump (hydraulic pump installed on the tractor's power take-off shaft + oil tank + fan)
- » sowing wheels with adapters for fine seed
- » loading platform with steps
- » central and individual pressing of coulters
- » device for seed calibration test
- » stepless gearbox (sowing range from 2.5 – 400 kg/ha)
- » electrical sowing control system
- » manometer
- » side deflectors

## PRICE

### FS 2000/3

## ACCESSORIES AT EXTRA CHARGE

- pre-emergence processing paths
- electric drive of sowing shaft

FS	2000
Working width [m]	3
Hopper capacity [dm <sup>3</sup> ]	2000
Types of coulters	Disc
Number of coulters [pcs.]	24
Weight [kg]	4500
Power demand [HP]	150÷180

Independent hydraulic pump system.



30 litre oil tank.



Pump with a delivery of 30 l/min installed on the tractor's power take-off shaft.



Oil cooler.



# FS 1000/3, 1000/4

pneumatic combination seed drills, semi-mounted, for row sowing of grain in traditional cultivation technology



FS 1000/3 A



Double disc coulters ø300 mm with copying 360x80 wheels, pressure 40 kg/ coulters (option)



Self-cleaning double-disc alternating coulters ø300 mm with compacting and copying set 330x50 mm, pressure 25 kg / coulters.

## STANDARD EQUIPMENT

- » pneumatic grain sowing system FS
- » self-cleaning double-disc alternating coulters
- » hydraulic motor-driven fan (flow capacity 24 l / min)
- » hydraulic trigger of side markers on two cylinders
- » electrical processing routes
- » manometer
- » **cultivator to be selected: ARES XL, ARES TL, HERMES P**

## PRICE

1000/3 1000/4

## FS SET

## FS T SET

## FS A SET



Compacting and copying set of 330x50 mm size.



FS 1000/3 T plus DRIVE system in transport position.

## ACCESSORIES AT EXTRA CHARGE

1000/3 1000/4

Compacting and copying set

DRIVE system (FS A)

DRIVE system (FS T)

mechanical drag (for DRIVE version)

front levelling bar (FS A)

rear levelling bar (FS A)

rubber shaft ø500 mm

front shaft Packer roller (FS T drive)

pre-emergence processing paths

electrical control of hydraulic system

seed drill computer

independent hydraulic pump (hydraulic pump installed on the tractor's power take-off shaft + oil tank + fan)

Double disc coulters fi 300 mm with copying wheels, pressure 40 kg/ coulters

Tire roller 800 mm (7,50x16) to Drive System

electric drive of sowing shaft

Extension 500 l

FS	1000/3	T 1000/3	T 1000/4	T 1000/3 DRIVE	T 1000/4 DRIVE	A 1000/3	A 1000/4	A 1000/3 DRIVE
Working width [m]	3	3	4	3	4	3	4	3
Hopper capacity [dm³]	1000	1000	1000	1000	1000	1000	1000	1000
Types of coulters	disc	disc	disc	disc	disc	disc	disc	disc
Number of coulters [pcs.]	24	24	32	24	32	24	32	24
Weight [kg]	2350	2450	2840	2850	3250	2480	2860	2870
Power demand [HP]	130	140	180	100	140	140	180	120

# FS 1000/3, 1000/4



ploughs

cultivators

seeding equipment

COMBINATION SEED DRILLS

mowers

rakes

Baler/wrapper combination

bale wrappers

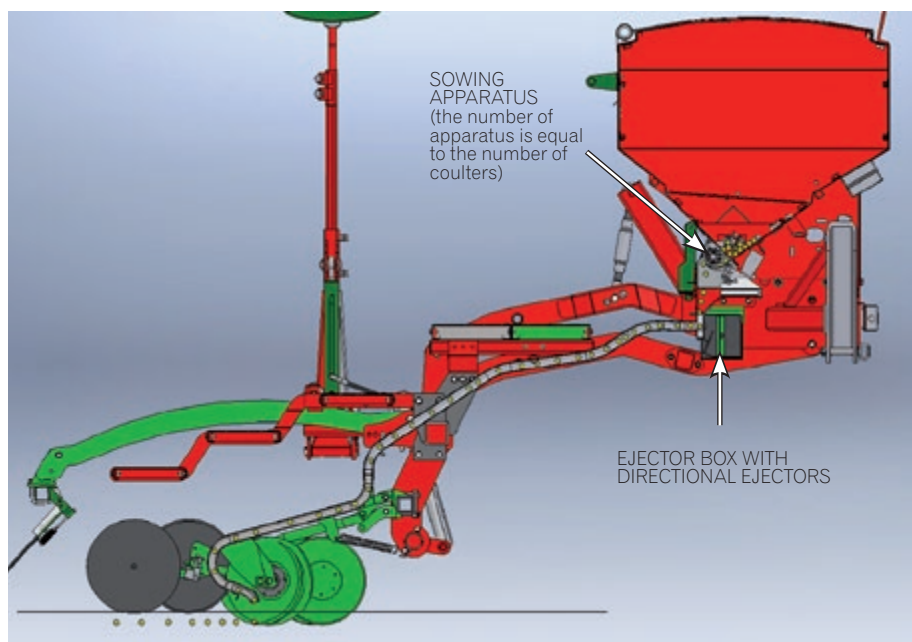
mineral fertilization

manure fertilization

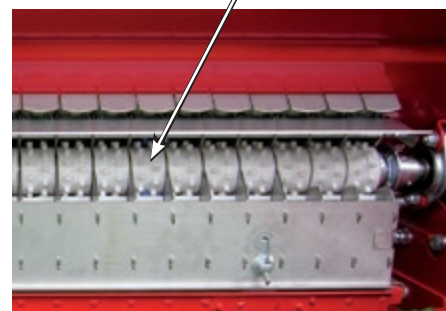
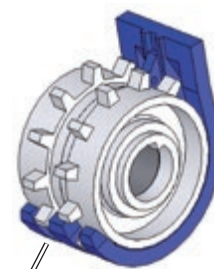
potato technology

transport

plant protection



Modern sowing system with adapters for fine seed.



## SYSTEM FS

grain dosing is provided with sowing apparatus the rotational speed of which is controlled by a stepless gearbox. The amount of grains measured flows into individual ejectors installed in the ejector box, from where they are transported by air to the coulters.

FS sowing system The number of sowing apparatus is equal to the number of coulters.

## Independent hydraulic pump system



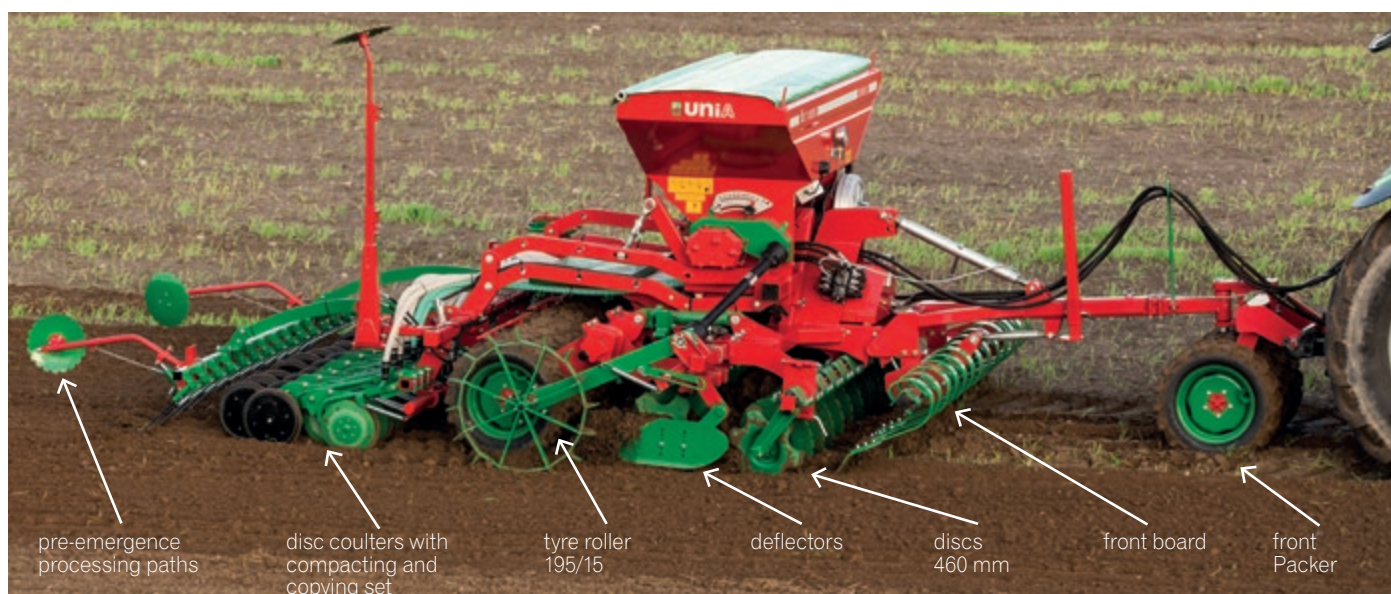
30 litre oil tank.



Pump with a delivery of 30 l/min installed on the tractor's power take-off shaft.



Oil cooler.





# FX 700/3

pneumatic combination seed drills, mounted, for row sowing of grain in traditional cultivation technology



FX A 700/3

## STANDARD EQUIPMENT

- » pneumatic grain sowing system (FX system) – one sowing apparatus
- » hoe coulters
- » self-cleaning alternating double-disc coulters (D)
- » hydraulic trigger of markers, based on one cylinder
- » Processing paths
- » fan driven by hydraulic motor
- » manometer
- » **cultivator to be selected: ARES XL, ARES TL, HERMES P**



Lightweight hoe coulters.



Alternating disc coulters, with attachable pressing and copying set.



Self-cleaning double-disc alternating coulters 300 mm with compacting and copying set 330×50 mm, pressure 25 kg/coulter.



Pressing and copying wheel, 330×50 mm.

## PRICE

700/3

700/3D

## FX SEED DRILL

## FX SET

## FX T SET

## FX A SET

## ACCESSORIES AT EXTRA CHARGE

- pressing and copying set
- Seeder computer
- rubber shaft 500 mm
- pre-emergence processing routes
- supports for seed drill disassembly
- distributor lid for sowing every second row
- hydraulic trigger of markers, based on two cylinders
- Electric drive to sowing apparatus

FX	700/3	700/3 D	T 700/3	T 700/3 D	A 700/3	A 700/3 D
Working width [m]	3	3	3	3	3	3
Hopper capacity [dm <sup>3</sup> ]	700	700	700	700	700	700
Types of coulters	hoe	disc	hoe	disc	hoe	disc
Number of coulters [pcs.]	24	24	24	24	24	24
Weight [kg]	1690	1850	1750	1910	1950	2120
Power demand [HP]	110	120	120	120	120	120

# FX 700/3



ploughs

cultivators

seeding equipment

COMBINATION SEED DRILLS

mowers

rakes

Baler/wrapper combination

bale wrappers

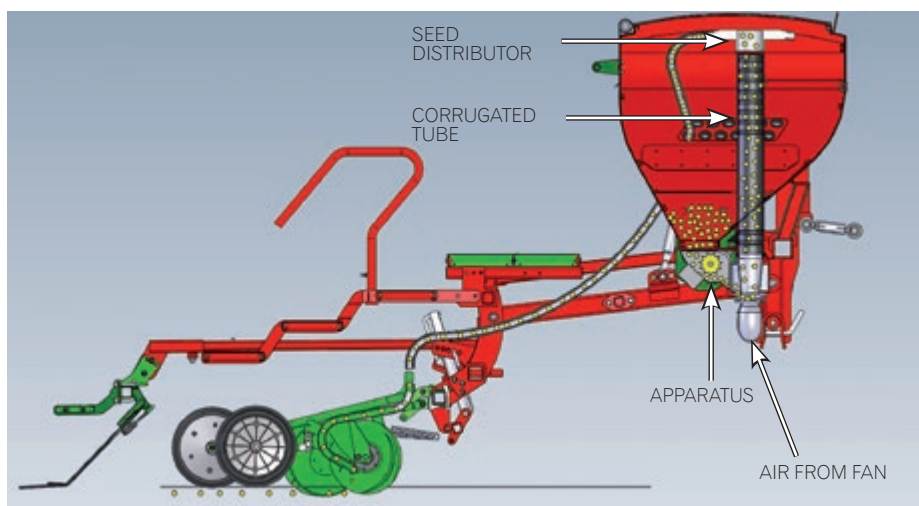
mineral fertilization

manure fertilization

potato technology

transport

plant protection



Supports for seed drill unloading facilitate installation of the seed drill on the unit.

## FX SYSTEM

one sowing unit measures out a seed dose, which is mixed with air flow and transported through a special corrugated tube to the distributor installed at the top of the loading hopper and then, the seed is transported through hoses to the coulters.



Fan driven by hydraulic motor.



Hydraulic motor of oil flow 27 l/min.



Seed distributor located inside the hopper distributes the grains to the coulters evenly. Processing paths closed with solenoid valves.



Funnel shape of the grain hopper facilitated loading from Big-Bags.



One sowing apparatus – simple adjustment with sowing roller displacement.

## FX SETS



**FX** – FX seed drill + ARES XL/P toothed unit – divided string roller ø320 mm, three rows of SV teeth, rear Packer roller roller ø500 mm



**FX T** – FX seed drill + ARES TL/P disc unit – two rows of discs ø460 mm, rear Packer roller roller ø500 mm



**FX A** – FX seed drill + HERMES P active unit – active harrow of „cyklotiler“ type, rear Packer roller roller ø500 mm



# PLUS 400 / 700

mechanical combination seed drills, mounted, for row sowing of grain in traditional cultivation technology



PLUS 700/3 (PLUS seed drill + ARES XL toothed unit)

## STANDARD EQUIPMENT

- » hoe coulters (PLUS)
- » disc coulters (PLUS D)
- » 400 or 700 litre hopper
- » mechanical switch of processing paths
- » hydraulic trigger of markers: on one cylinder (PLUS 700); on two cylinders (PLUS 400)
- » stepless gearbox
- » two-piece integrated sowing wheels for cereals and rape
- » central and individual pressing of coulters
- » grating inside the hopper
- » device for seed calibration test
- » loading platform
- » firmer
- » supports for seed drill unloading
- » **cultivator to be selected: ARES XL, ARES TL, HERMES P**



Supports for seed drill unloading facilitate installation of the seed drill on the unit.



Hoe coulters.



Disc coulters.



**PLUS T** – PLUS seed drill + ARES TL/P disc unit – two rows of discs ø460 mm, rear Packer roller roller ø500 mm.



**PLUS A** – PLUS seed drill + HERMES P active unit – active harrow of "cyklotiler" type, rear Packer roller roller ø500 mm

## PRICE

400/3 400/3 D 700/3 700/3 D

## PLUS SET

## PLUS T SET

## PLUS A SET

## PLUS SEED DRILL

## ACCESSORIES AT EXTRA CHARGE

pneumatically-controlled pre-emergence processing paths (for version 700)

860

PLUS	400/3	400/3 D	700/3	700/3 D	T 700/3 D	A 700/3	A 700/3 D
Working width [m]	3	3	3	3	3	3	3
Hopper capacity [dm <sup>3</sup> ]	400	400	700	700	700	700	700
Types of coulters	hoe	disc	hoe	disc	disc	hoe	disc
Number of coulters [pcs.]	25	25	25	25	25	25	25
Weight [kg]	1200	1350	1680	1850	1800	2100	2230
Power demand [HP]	80	100	120	120	120	140	140

## Mechanical combination seed drill



### ECO 350

- » Power demand: 80–90 HP
- » Seed hopper: 350 dm<sup>3</sup>

#### PRICE

**F 350/3 + ARES 2L/P**

**F 350/3 + ARES 3L/P**



### ECO 500

- » Power demand: 110–120 HP
- » Seed hopper: 500 dm<sup>3</sup>

#### PRICE

**F 500/3 + ARES 2L/P**

**F 500/3D + ARES 2L/P**



### ECO 550

- » Power demand: 120–140 HP
- » Seed hopper: 550 dm<sup>3</sup>

#### PRICE

**P 550/3 + ARES 3XL/P**

**P 550/3D + ARES TL/P (ECO T)**

**P 550/3D + HERMES P (ECO A)**



### ECO ATLAS

- » Power demand: 100–200 HP
- » Seed hopper: 550–1100 dm<sup>3</sup>

#### PRICE

**P 550/3D + ATLAS 3**

**P 780/4D + ATLAS 4**

**P 855/4,5D + ATLAS 4,5**

**P 1100/6,0D + ATLAS 6,0**

**NOTE!** All seeders have process paths and hydraulic markers while the units connected together are equipped with Packer roller (except ECO ATLAS). For the options at extra charge, see the pages of the relevant machines.





# DISC, ROTARY & FLAIL MOWERS





# ALKA<sub>L</sub>

rear disc mowers, light, high capacity, low power demand



Reinforced mowing bar with quick cutter exchange system and protection against damage.



### Quick replacement of cutters

With one motion and one spanner



## Cylinder

aids mower operation on headlands and allows easy setting of the machine for transport position.



## Overrun safety device

Enables tilting of the mowing bar backwards.

## STANDARD EQUIPMENT

- » reinforced mowing bar
- » quick replacement of cutters
- » mowing disc interlock at replacement of cutters
- » individual protection of discs
- » guard of working components
- » V-belt drive
- » hydraulic folding for transportation
- » guides for swath forming
- » mowing height adjustable within the range from 40–60 mm
- » mowing bar relieve system
- » overrun safety device
- » set of cutters
- » drive shaft

## PRICE

## ALKA L 2,1

**ALKA L 2,45**

## ALKA L 2,8

<b>ALKA L</b>	<b>2,1</b>	<b>2,45</b>	<b>2,8</b>
Working width [m]	2,1	2,45	2,8
Number of discs [pcs.]	5	6	7
Number of cutters [pcs.]	10	12	14
Mowing height [cm]	40 ÷ 60		
Efficiency [ha / h]	2	2,5	2,8
Weight [kg]	437	471	495
Power demand [HP]	50	60	70

# ALKA<sup>XL, XLC</sup>

rear and front-mounted disc mowers, with trailed suspension of the mowing bar



ploughs

cultivators

seeding  
equipment

combination  
seed drills

MOWERS

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



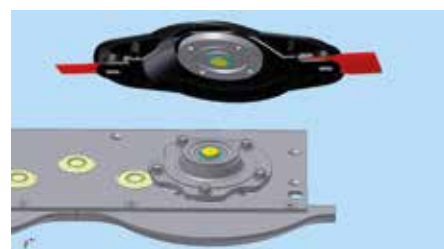
ALKA XL

## STANDARD EQUIPMENT

- » quick replacement of cutters
- » reinforced mowing bar
- » individual protection of discs
- » support frame for suspending the mowing bar
- » ground following system
- » mowing bar relieve system
- » cylinder facilitating connection (ALKA XL)
- » hydraulically folded for transportation
- » guides for swath forming
- » drive shaft
- » adjustable hay conditioning intensity
- » conditioner (S) or press (Z)

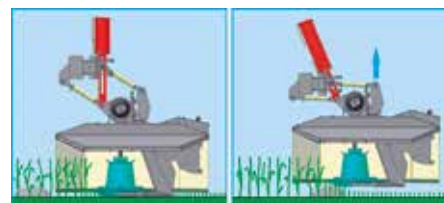


Together with the Standard equipment of the front mower, each customer receives an effective set with mowing width of 6 m. The mowers can be folded for transportation by the hydraulic system.



## Easy repair and low costs!

The axis with the safety notch protects against damage.



## Land following system

Works well while overcoming obstacles, and when working on slopes



## Swath press

two drums covered with rubber layer with the profile providing proper processing of papilionaceous plants.



## Swath conditioner

flexible fingers of the conditioner are light and tilt at a contact with any foreign body. Conditioning intensity is adjustable.

## PRICE

**ALKA XL 2,2**

**ALKA XL 2,6**

**ALKA XL 3**

**ALKA XL 2,2 S**

**ALKA XL 2,6 S**

**ALKA XL 3 S**

**ALKA XL 2,2 Z**

**ALKA XL 2,6 Z**

**ALKA XL 3 Z**

**ALKA XL C 2,6**

**ALKA XL C 2,6 S**

**ALKA XL C 2,6 Z**

**ALKA XL C 3**

**ALKA XL C 3 S**

**ALKA XL C 3 Z**

ALKA L	XL 2,2	XL 2,6	XL 3	XL C 2,6	XL C 3
Working width (m)	2,2	2,6	3	2,6	3
Number of discs (pcs.)	5	6	7	6	7
Number of cutters (pcs.)	10	12	14	12	14
Efficiency (ha/h)	2,2	2,6	3	2,6	3
Mowing height (mm)	40 ÷ 60				
Weight (kg)	726	768	812	650	700
Power demand (HP)	60 ÷ 80	70 ÷ 90	80 ÷ 100	70 ÷ 90	80 ÷ 100



# ALKA<sup>C</sup> XL 3

disc mowers with central suspension and hydraulic relieve of moving bar



ALKA C XL 3

## STANDARD EQUIPMENT

- » central suspension of the moving bar
- » quick cutter replacement system
- » overrun safety device
- » individual protection of discs
- » hydraulic adjustment of relieve
- » hydraulic lifting system for transportation
- » hydraulic levelling of the mower
- » pressure gauge
- » swath driving wheel
- » swath conditioner (S)
- » press (Z)



Overrun safety device through angular positioning of the axis of rotation of the mower frame.

## PRICE

**ALKA C XL 3**

**ALKA C XL 3 S**

**ALKA C XL 3 Z**

ALKA	C XL 3
Working width (m)	3
Number of discs (pcs.)	7
Number of cutters (pcs.)	14
Efficiency (ha/h)	3,1
Mowing height (mm)	40÷60
Weight (kg)	785
Power demand (HP)	80



### Moving bar

reinforced, welded and with modular replacement of gears.



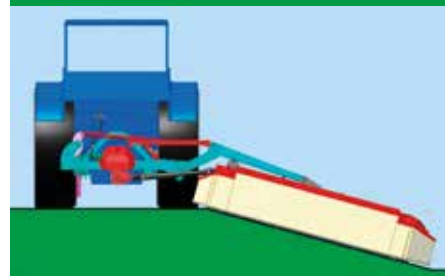
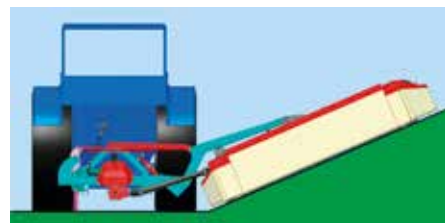
### With one motion

Cutters quick replacement system.



### Hydraulic relieve

is performed by means of a cylinder connected to a hydraulic accumulator and pressure gauge



Central suspension of the moving bar enables exact ground following.

# ALKA<sup>1</sup> XL, 2 XL

trailed disc mowers, with the central drawbar



ploughs

cultivators

seeding  
equipment

combination  
seed drills

MOWERS

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



ALKA 1 XL



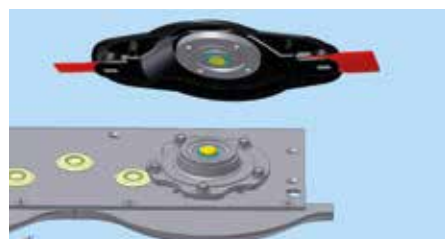
ALKA 2 XL

## STANDARD EQUIPMENT

- » reinforced mowing bar
- » quick replacement of cutters
- » individual protection of discs
- » ground following system
- » mowing bar relieve system
- » hydraulically controlled drawbar
- » hydraulic folding for transportation
- » transport wheels
- » torsion resistant support frame
- » guides for swath forming
- » adjustable hay conditioning intensity
- » drive shaft
- » conditioner (S) and press (Z)



Quick cutter replacement system as a standard



The axis with the safety notch protects against damage.



**Spring-loaded trapezoidal system for ground following**

protects the mowing bar against damage. It also allows mowing height adjustment.



**Hydraulically controlled drawbar**

allows mower operation on the right or left hand side of the tractor which also allows building a set with a front mower.

## PRICE

**ALKA 1 XL 3**

**ALKA 1 XL 3 S**

**ALKA 1 XL 3 Z**

**ALKA 2 XL 5,2**

**ALKA 2 XL 5,2 S**

**ALKA 2 XL 5,2 Z**

**ALKA 2 XL 6**

**ALKA 2 XL 6 S**

**ALKA 2 XL 6 Z**

ALKA L	1 XL 3	2 XL 5,2	2 XL 6
Mover type	trailed		
Working width (m)	3	5,1	5,8
Number of discs (pcs.)	7	12	14
Number of cutters (pcs.)	14	24	28
Efficiency (ha/h)	3	5,2	6
Mowing height (mm)	40 ÷ 60		
Max. working speed (km/h)	15		
Power demand (HP)	70	120 ÷ 170	
PTO speed (rpm)	1 000		
Weight (kg)	1 360	2 800	2 940



# ALKA<sup>3</sup> XL

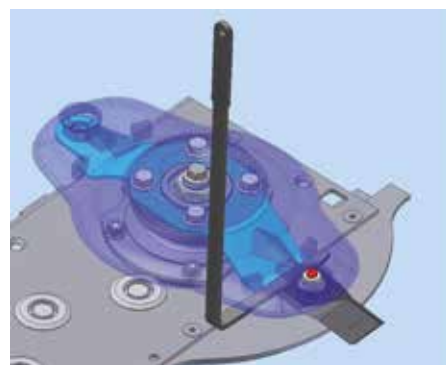
mounted mower combination, with trailed suspension of the mowing bar



ALKA 3 XL



ALKA 3 XL in transport position



Very easy replacement of cutters



Modular design of the mowing bar facilitates repair



## Swath press

two drums covered with rubber layer with the profile providing proper processing of papilionaceous plants.



## Swath conditioner

flexible fingers of the conditioner are light and tilt at a contact with any foreign body. Conditioning intensity is adjustable.

## STANDARD EQUIPMENT

- » reinforced mowing bar
- » quick replacement of cutters
- » individual protection of discs
- » ground following system
- » mowing bar relieve system
- » hydraulic folding for transportation
- » torsion resistant support frame
- » guides for swath forming
- » adjustable hay conditioning intensity
- » drive shaft
- » conditioner (S) and press (Z)

## PRICE

### ALKA 3 XL 8,2

### ALKA 3 XL 9

### ALKA 3 XL 9 S

### ALKA 3 XL 9 Z

ALKA 3 XL	8.2	9
Working width (m)	7,8	8,6
Number of discs (pcs.)	19	21
Number of cutters (pcs.)	38	42
Efficiency (ha/h)	7	8
Mowing height (mm)	40 ÷ 60	
PTO rotation speed for front mower (rpm)	1000	
Weight (kg)	2100	2200
Power demand (HP)	120 ÷ 170	
PTO rotation speed (rpm)	1 000	
Weight (kg)	1 360	2 800



MEWA



## CONDITIONER

- » V-shaped flexible fingers
- » creates loose and well ventilated swath
- » significantly accelerates drying of hay

## STANDARD EQUIPMENT

- » three-point linkage/hitch
- » two working drums
- » V-belt drive
- » adjustable mowing height on spacers
- » metal top cover
- » lower cover made of Plavil
- » overrun safety device
- » swath conditioner in versions 1.85 K & 2.1 K
- » drive shaft for 2.1 & 2.1 K



Loosely arranged swath significantly accelerated hay drying process.



## Cylinder

in drum mowers allows aligning the machine in the tractor axis or at its side during transport.

## PRICE

**MEWA 1,65**

**MEWA 1,85**

**MEWA 1,85 K**

**MEWA 2,1**

**MEWA 2,1 K**

## ACCESSORIES FOR EXTRA CHARGE

Hydraulic lifting system for transportation:

MEWA 1,65  
MEWA 1,85  
MEWA 2,1

PTO for Mewa 1,35; 1,65; 1,85

MEWA	1,65	1,85	1,85K	2,1	2,1K
Working width (m)	1,65	1,85	1,85	2,1	2,1
Efficiency (ha/h)	1,7	2	2	2,4	2,4
Number of cutters (pcs.)	6	6	6	8	8
Power demand (HP)	40	40	60	80	80
Weight (kg)	360	430	540	520	640



# MOWER for greenery maintenance

for lawns, sports fields, golf courses



## MOWER FOR GREENERY MAINTENANCE



Three knives mow and grind the grass and throw it in the back or to the side.



Mowing height adjustment is made by gears of the spacers on the wheel supports.



The belt drive is quiet, easy to repair, and is a type of safety device.

## STANDARD EQUIPMENT

- » three shredders
- » Support wheel with height adjustment
- » Drive shaft
- » Working width 1,5 or 1,8
- » Side throw in B version
- » Rear throw in T version

**PRICE**

## MOWER FOR GREENERY MAINTENANCE 1,5 B

## MOWER FOR GREENERY MAINTENANCE 1,5 T

## MOWER FOR GREENERY MAINTENANCE 1,8 B

## MOWER FOR GREENERY MAINTENANCE 1,8 B

MOWER FOR GREENERY MAINTENANCE	1,5 B	1,5 T	1,8 B	1,8 B
throw of grass	side	rear	side	side
Working width [cm]	150		180	
Number of cutters [pcs.]	3			
Cutting Height [mm]	25 ÷ 100			
Rotation speed of cutters [rpm]	2630			
Maximum slope of the terrain (*)	12			
Power demand on PTO [HP]	15 ÷ 30		20 ÷ 40	
PTO number of rotations [rpm]	540			
Length [m]	1,34			
Width [m]	1,78	1,55	2,08	1,88
Height [m]	0,86			
Weight [kg]	193	198	200	205

# CUTTER for fruit-growing cultivation

for mowing grass and shredding branches in orchards



CUTTER for fruit-growing cultivation

## STANDARD EQUIPMENT

- » two shredders
- » support wheel
- » skids
- » side throw
- » Drive shaft



The massive knives shred branches up to 30 mm in cross-section.



Knives on the holder are rotatably installed to protect them from damage in the case of obstacles



While working cutter can be placed on skids and can be easily lifted on the tractor three-point linkage/hitch and supported with adjustable rear wheel.

## PRICE

### CUTTER FOR FRUIT-GROWING CULTIVATION

CUTTER for fruit-growing cultivation	
Working width [m]	1,5
Number of cutters [pcs.]	2
Rotation speed of cutters [rpm]	912
Max. working speed [km/h]	12
Mowing height [mm]	40÷70
Efficiency [ha/h]	1,5
Weight [kg]	300
Power demand [HP]	30



# KORNIK L, XL

Flail mowers designed to destroy the above-ground parts of plants and for shredding cut branches and shrubs



KORNIK L

KORNIK XL



## Working components

Knives (Kornik L – 2 knives in the holder)

Knives (Kornik XL – 3 knives in the holder)

## STANDARD EQUIPMENT

- » working components: knives or hammers
- » mechanical side shift



## Working components

Hammers  
(Kornik L – weight of one hammer: 700 g)

Hammers  
(Kornik XL – weight of one hammer: 1650 g)

## PRICE

**KORNIK L 1,15**

**KORNIK L 1,35**

**KORNIK L 1,6**

**KORNIK L 1,9**

**KORNIK XL 1,55**

**KORNIK XL 1,8**

**KORNIK XL 2,0**

**KORNIK XL 2,3**

**KORNIK XL 2,5**

**KORNIK XL 2,8**



Kornik XL chopping crop residues in corn

## ACCESSORIES FOR EXTRA CHARGE

cylinder for mechanical side shift (L version)

cylinder for mechanical side shift (XL version)

PTO shaft

KORNIK	L				XL					
Working width [cm]	115	135	160	190	155	180	200	230	250	280
Weight [kg]	254	275	306	336	545	620	655	740	800	885
Power demand [HP]	25÷35	25÷35	35÷45	45÷60	45÷60	60÷75	60÷75	65÷80	70÷85	90÷105
Number of cutters [pcs.]	32	40	48	56	36	48	48	60	60	72
Number of hammers [pcs.]	16	20	24	28	12	16	16	20	20	24

# KORNIK COMBO



self-collecting flail mowers with tank, designed for maintenance of greenery in parks, garden, golf courses and green areas around roads



KORNİK COMBO 1,9



Rubber wheels for transport and work.



Tank discharge at max. height of 170 cm.

## STANDARD EQUIPMENT

- » 37 kW gearbox with free wheel for 540 RPM of PTO
- » catch for the tractor three-point linkage/hitch
- » front metal swivel wheel (piano wheel)
- » pneumatic rear swivel wheels (piano wheels)
- » jointed shaft type 5, length 900 mm

## PRICE

**KORNİK COMBO 1,6**

**KORNİK COMBO 1,9**

KORNİK COMBO	1,6 m	1,9 m
Total width [mm]	1910	2220
Power demand [HP]	33	44
Total weight [kg]	865	950
Knives type „V“	Grass moving height 20÷150 mm	
Knives type „VL“	Grass moving height do 200 mm	
Hammers type „S“	For cutting grass and small bushes to a height 300 mm	
Hammers type „M“	For cutting small bushes	

Model	A	B	Minimum tractor power									Tank capacity
	cm	cm	kW	HP	rpm	kg	pcs.	pcs.	pcs.	pcs.	pcs.	m <sup>3</sup>
COMBO 160	160	191	29	40	540	865	24+24	24+24+24	24	24	3	1
COMBO 190	191	222	33	45	540	950	28+28	28+28+28	28	28	3	1,3



# KORNIK VARIO

universal flail mowers with hydraulic arm designed for mowing ditches, cutting hedges and other work consisting of cutting and shredding of grass, branches and crop residues



KORNIK VARIO 1,9



### Hydraulic control

Hydraulic cylinders allow smooth control of mowing width and inclination angle in relation to the ground.



### Side gearbox

The gearbox is installed to the machine side and allows work along the whole its width outside the tractor outline.



### Transport position

## STANDARD EQUIPMENT

» working components: knives or hammers

## PRICE

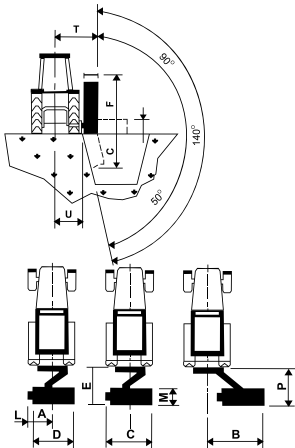
**KORNIK VARIO 1,6**

**KORNIK VARIO 1,9**

## ACCESSORIES FOR EXTRA CHARGE

PTO shaft

KORNIK VARIO	1,6	1,9
Working width [cm]	160	190
Number of cutters [pcs.]	48	56
Number of hammers [pcs.]	24	28
Drive [pcs.]	4	4
Weight [kg]	495	540
Power demand [HP]	60	60



VARIO	A	B	B	D	E	F	G	H	L	M	P	S	T	U
	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
1,6	85	210	178	162	161	247	122	58	16	71	193	47	150	90
1,9	85	237	208	192	161	277	152	58	16	71	193	47	150	90

# KORNIK FLEX



flail mowers with jib can be used for cutting weeds, scrub and grass on slopes, in ditches, behind protective barriers and for shredding branches



KORNİK FLEX 550



## Joystick

Electro-hydraulic joystick control with distributor for simultaneous control of 2 operations.

## STANDARD EQUIPMENT

- » anti-collision protection (hydraulic safety device) with automatic reaction (rotation by 109 degrees) (KORNİK FLEX 700 – 93 degrees)
- » independent hydraulic circuit (72l/min – 220 bar)
- » 120 / 190 litre oil tank
- » oil cooler with fan
- » oleo-pneumatic accumulator on the first arm of the jib (KORNİK FLEX 700)
- » rotor with design power demand of 26 kW and two directions of rotation
- » V-belt drive
- » remote control with flexible lines
- » motor and pump of Group 3
- » rear roller with 140 mm dia
- » safety guards

## PRICE

**KORNİK FLEX 480**

**KORNİK FLEX 550**

**KORNİK FLEX 600**

**KORNİK FLEX 700**

## ACCESSORIES FOR EXTRA CHARGE

head 80 'CP-M-S-A-D' with knives

head 80 with Z-knives

head 100 with 'CP-M-S-A-D' knives

head 100 with Z-knives

head 125 with 'CP-M-S-A-D' knives

head 125 with Z-knives

stabilization assembly with screws

electro-hydraulic joystick control

rear bumper with driving lights

transmission shaft (type 4), length: 0.9 m

KORNİK FLEX	A	B	C	D	E	F	G	H
	cm	cm	cm	cm	cm	cm	cm	cm
480 – 80	438	288	271	80	424	186	160	392
480 – 125	484	334	314	125	470	186	160	438
550 – 80	504	335	274	80	497	217	170	458
550 – 125	550	381	312	125	543	217	170	504
600 – 80	551	360	309	80	543	241	180	506
600 – 125	597	406	347	125	589	241	180	552
700 – 100	677	407	419	100	665	395	210	599
700 – 125	700	430	439	125	688	395	210	622



KORNİK FLEX	Minimum permissible weight of the tractor								
		PTO	max	„CP”	„M”	„S”	„A”	„D”	„Z”
	kg	rpm	kg	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
480 – 80	1800	540	870	24	12	12	24	24+12	12
480 – 125	1800	540	927	40	20	20	40	40+20	20
550 – 80	2200	540	915	24	12	12	24	24+12	12
550 – 125	2200	540	972	40	20	20	40	40+20	20
600 – 80	2800	540	940	24	12	12	24	24+12	12
600 – 125	2800	540	997	40	20	20	40	40+20	20
700 – 100	4000	540	1480	32	16	16	32	32+16	16
700 – 125	4000		1510	40	20	20	40	40+20	20





# RAKES AND TEDDERS





# SPAJDER

rotor tedders



SPAJDER



## Throwing away of baulk

You can use a lever on the frame to change the position of wheels in order to set the throwing angle to the 'off-the-baulk' mode.

## STANDARD EQUIPMENT

- » four working rotors
- » seven arms per rotor
- » 56 tedding tines
- » hydraulic folding for transport
- » angle of spread adjustment – four positions
- » setting of wheels for work at the field edge
- » swinging ground following wheels



## Angle of spread

4-step adjustment of the angle of spread allows setting grass processing intensity according to the needs.

## PRICE

### SPAJDER

## ACCESSORIES AT EXTRA CHARGE

PTO for Spajder

SPAJDER	
Working width [m]	5,5
No. of rotors [pcs.]	4
Diameter of rotors [m]	1,75
No. of arms per rotor [pcs.]	7
Adjustment of rotor inclination	4 positions
Capacity [ha / h]	10
Power demand [HP]	40
Weight [kg]	630
Tyres	170–60/ 8
Transport width [m]	2,95
Transport height [m]	3,2



## Transport position

external rotors are folded to the transport position by the hydraulic system.

# RAK 1, 1.12

single rotary rakes



ploughs

cultivators

seeding  
equipment

combination  
seed drills

mowers

**RAKES**

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

potato  
technology

transport

plant  
protection



RAK 1



**Swivel wheel suspension**  
facilitates rake operation in narrow U-turns.

## STANDARD EQUIPMENT

- » one working rotor
- » maintenance-free gear
- » 9 raking arms (RAK 1)
- » 12 raking arms (RAK 1.12)
- » raking arms foldable for transport
- » adjustment of working height
- » pneumatic ground following wheels
- » tandem type carriage (RAK 1.12)
- » torsion suspension frame (RAK 1.12)
- » rotor interlock for transport (RAK 1.12)



RAK 1.12

## PRICE

**RAK 1**

**RAK 1.12**

## ACCESSORIES AT EXTRA CHARGE

PTO for Rak 1, Rak 1.12

RAK	1	1.12
Working width [m]	3,8	4,3
Width of forming roller [m]	0,7	0,7
No. of rotors [pcs.]	1	1
Rotor diameter [m]	3,3	3,35
No. of raking tines [pcs.]	9	12
Capacity [ha / h]	3,6	4,7
Power demand [HP]	45	45
Weight [kg]	340	490



Rotor interlock allows disassembly of only side arms for transport.



**Adjusting of tines**  
is easy controlled directly on the gearbox with a special wheel lock.



# RAK<sub>2</sub>

double-sided rotary rakes



RAK 2



**Tines**  
easy to replace even in the field.

## STANDARD EQUIPMENT

- » two rotary rakes
- » 22 raking arms
- » hydraulically adjustable working width
- » hydraulic folding of rotors for transport
- » interlock of rotors in transport position
- » height adjustment when working on ground following wheels
- » working height adjustment on gears
- » pneumatic ground following wheels for each rotor
- » rotor relive system
- » land following system
- » transport bar for raking arms
- » steerable transport wheels
- » parking foot
- » drive shaft



The rotors are set in transport position by the hydraulic system.



Very effective land following system ensures clean raking

## PRICE

### RAK 2

RAK	2
Working width [m]	6,4 ÷ 7,4
Width of forming roller [m]	0,7 ÷ 1,7
No. of rotors [pcs.]	2
Rotor diameter [m]	3,1
No. of raking tines [pcs.]	22
Capacity [ha / h]	8,5
Power demand [HP]	70
Weight [kg]	1870



**Transport bar**  
during trips to longer distances, the raking arms can be securely installed in the holes of the middle transport bar.



# BALERS







# DF 1,8C



Chain fixed chamber balers, designed for pick-up of straw, hay and grass



DF 1,8C

## STANDARD EQUIPMENT

- » double twine binding
- » electric control of the binding system
- » swath compressing plate
- » 5-row pick-up
- » mechanical interlock of the rear cover
- » feeder augers
- » adjustable pick-up pressure to the ground
- » adjustable compression level
- » adjustment of wraps
- » visual indicator of the chamber filling
- » drive chain tensioners
- » pneumatic pick-up tyre
- » drive shaft
- » discharge ramp
- » tyre size: 11.5 / 80–15.3

## PRICE

**DF 1,8C (TWINE BINDER)**

**DF 1,8C (NET BINDER)**

## ACCESSORIES AT EXTRA CHARGE

400 / 60–15.5 tyres

DF	1,8C
Type	chain baler
Pick-up width [m]	2,1
Bale dia. [m]	1,2
No. of pick-up tine rows [pcs.]	5
No. of pick-up tines [pcs.]	160
No. of working rollers [pcs.]	1
PTO speed [RPM]	540
Power demand on PTO [HP]	50÷70
11.5 / 80–15.3 wheels	standard
Length [m]	3,6
Width [m]	2,35
Height [m]	1,95
Weight [kg]	2050



Simple binding system with double twine is activated from the tractor cabin with cord.



The feeder system copes well with hay and straw.



Mechanical interlock of the rear cover.



Discharge ramp rolls the bales away outside of the rear cover rotation area.

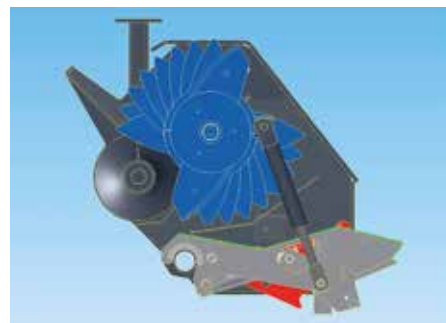


# DF 1,8V / 1,8Vd

Chain and roller fixed chamber balers with lowered floor under the rotor and automatic chain lubrication



DF 1,8Vd



In the balers with cutter, the bottom under the rotor is hydraulically lowered



## Pilot box

programming and information about the active features and errors of the machine, it counts the bales.



## Pick-up pressure to the substrate

can be adjusted by changing position of a special compression spring. It allows selection of optimal operating conditions of this unit depending on the pick-up material and field conditions.



## Non Stop

individual protection of 14 shredding knives.

## STANDARD EQUIPMENT

- » Pilot Box control panel
- » rotor
- » cutter in DF 1.8Vd version
- » 14 knives cutting device
- » individual protection of knives
- » hydraulic lowering of knives to the neutral position
- » hydraulically dropped pick-up floor in 1.8Vd version
- » drop pick-up floor in DF 1.8V version
- » net binder in DF 1.8Vd version
- » adjustment of the net wraps
- » net brake
- » double twine binding in DF 1.8V version
- » adjustment of twine wraps
- » adjustable level of compression
- » auto lube system for drive chains
- » drive chain tensioners
- » swath compressing roller
- » feeding augers
- » 5-row pick-up
- » adjustment of pick-up pressure to the ground
- » mechanical interlock of the rear cover
- » tyre size: 400 / 60–15,5 in DF 1.8Vd
- » wide angle drive shaft

## PRICE

### DF 1,8V

### DF 1,8Vd (WITH CUTTER AND NET)

## ACCESSORIES AT EXTRA CHARGE

- tyres size 400 / 60–15.5 (for 1.8V)
- net binder (for 1.8V)
- twine binder (for 1.8Vd)
- applicator of ensilage fluids
- additional box for the net

DF	1,8V	1,8Vd
Type	chain & roller baler	chain & roller with cutter
Pick-up width [m]	2,1	
No. of pick-up tine rows [pcs.]	5	
No. of pick-up tines [pcs.]	160	
No. of compression rollers [pcs.]	8	
No. of cutting knives [pcs.]	n/a	14
Bale dia. [m]	1,2	
11,5 / 80–15.3 wheels	standard	option
400 / 60–15.5 wheels	option	standard
PTO speed [RPM]	540	
Power demand on PTO [HP]	70 ÷ 80	70 ÷ 90
Weight [kg]	2300	2200
Length [m]	3,6	
Width [m]	2,4	
Height [m]	1,95	

# DF 1,8D / 1,8Dd



Full roller fixed chamber balers, with lowered floor under the rotor and automatic chain lubrication



DF 1,8Dd

## STANDARD EQUIPMENT

- » Pilot Box control panel
- » rotor
- » cutter in DF 1.8Dd version
- » 14 knives cutting device
- » individual protection of knives
- » hydraulic lowering of knives to the neutral position
- » hydraulically dropped pick-up floor in 1.8Dd version
- » drop pick-up floor in DF 1,8D version
- » net binder in DF 1,8D version
- » adjustment of the net wraps
- » net brake
- » double twine binding in DF 1,8D version
- » adjustable level of compression
- » mechanical interlock of the rear cover
- » swath compressing roller
- » 5-row pick-up
- » feeding augers
- » reverse
- » auto lube system for drive chains
- » drive chain tensioners
- » wide angle drive shaft

## PRICE

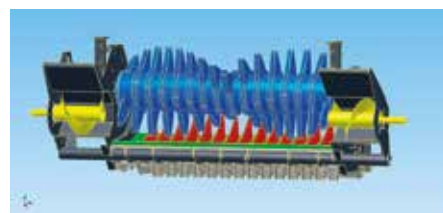
### DF 1,8D

### DF 1,8Dd (WITH CUTTER AND NET)

## ACCESSORIES AT EXTRA CHARGE

- net binder (up to 1.8D)
- twine binder (do 1,8Dd)
- tyre size: 400 / 60–15.5 (up to 1.8D)
- additional box for the net
- applicator of ensilage fluids

DF	1,8D	1,8Dd
Type	roller baler	roller with cutter
Pick-up width [m]	2,1	
No. of pick-up tine rows	5	
No. of compression rollers [pcs.]	17	
Bale dia. [m]	1,2	
11,5 / 80 – 15.3 wheels	standard	option
400 / 60 – 15.5 wheels	option	standard
PTO speed [RPM]	540	
Power demand on PTO [HP]	70 ÷ 80	70 ÷ 90
Weight [kg]	2400	2500
Length [m]	3,74	
Width [m]	2,5	
Height [m]	2,07	



Presses with cutter are equipped with rotor and 14 shredding knives



### Pilot box

programming and information about the active features and errors of the machine, it counts the bales.



### Augers

feed material to the rotor improving capacity of the pick-up unit.



### Lowered bottom

Lowered bottom under the rotor – comfort in the event of clogging.



# PP<sub>1,5</sub>

Belt fixed chamber balers, with spring adjustable level of compaction



PP 1,5

## STANDARD EQUIPMENT

- » belt winding chamber
- » rotor
- » drop pick-up floor
- » binding with double twine
- » electric control of the binding system
- » adjustment of number of wraps
- » adjustable level of compaction
- » drive chain tensioners
- » 5-row pick-up
- » adjustable pick-up pressure to the ground
- » swath compression roller
- » feeding augers
- » chamber filling indication
- » bale thrower
- » drive shaft
- » tyre size: 11.5 / 80–15.3

## PRICE

**PP 1,5**

## ACCESSORIES AT EXTRA CHARGE

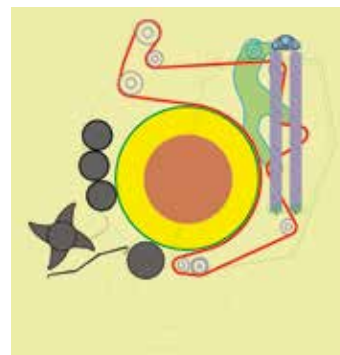
400 / 60–15.5 tyres

net binder

PP	1,5
Type of baler chamber	belt chamber
No. of operating belts	6
Source of compression force	spring
Bale dia. [m]	1,5
Pick-up width [m]	2,1
No. of pick-up tine rows [pcs.]	5
No. of pick-up tines [pcs.]	160
Rotor	standard
Power demand on PTO [HP]	50 ÷ 70
PTO speed [RPM]	540
Weight [kg]	2500
Length [m]	4
Width [m]	2,4
Height [m]	2,5



Double twine binder



## Better compacted core

The core is pressed at the beginning due to the tension of the bale forming belt.



## Bale thrower

rolls the bales away outside of the rear cover rotation area.



## Pressure roller

facilitates pick-up of high swath and initially distributes material on the pick-up roller, facilitates material flow and reduces the risk of machine jamming.

# DF 1,9Z / 1,9Zd / 1,7Z / 1,7Zd



Belt variable chamber balers, with variable adjustment of bale diameters and density



DF 1,7Zd

## STANDARD EQUIPMENT

- » Pilot Box – modern control system
- » rotor
- » cutter in 1.7Zd and 1.9Zd versions
- » 14 knife device
- » individual knife protection
- » hydraulically dropped pick-up floor in 1.7Zd and 1.9Zd versions
- » drop pick-up floor in 1.7Z and 1.9Z versions
- » net wrap binder
- » reverse
- » auto lube system for drive chains
- » drive chain tensioners
- » adjustable pick-up pressure to the substrate

- » 5-row pick-up
- » swath compressing roller
- » feeding augers
- » air brake in 1.7Zd and 1.9Zd versions
- » size of tyres 400 / 60–15.5
- » wide angle drive shaft

## PRICE

### DF 1,7Z

### DF 1,7Zd (WITH CUTTER)

### DF 1,9Z

### DF 1,9Zd (WITH CUTTER)

## ACCESSORIES AT EXTRA CHARGE

- 480 / 45–17 wheels
- double twine binder
- hydraulic brake system
- hydraulic brake system (1.7Z, 1.7Zd)
- 3 tine rotor



Setting of bale diameter and its density can be done in a variable mode from the controller console.

## Pilot Box allows setting of:

- » bale diameter
- » pressure level for the centre of bale
- » level of compacting of the top layer
- » selection of the net or twine binder
- » number of wraps with the net or twine
- » it also controls pick-up, cutter and rear cover

## The system informs operator of:

- » amount of the consumed net
- » accumulated number of the net wrapped bales
- » accumulated number of twine wrapped bales
- » accumulated number of bales made with the use of cutter
- » any irregularities in the chamber filling

## Signalling:

- » position of shredders
- » excessive tension
- » too low tension
- » incorrect pressure
- » fault of the net cutting

DF	1,7Z	1,7Zd	1,9Z	1,9Zd
Type	belt baler	belt with cutter	belt baler	belt with cutter
Design of baler chamber	3 rollers; 6 belts			
Min. bale dia. [m]	0,8			
Max. bale dia. [m]	1,65		1,85	
Bale width [m]	1,2			
Pick-up width [m]	2,1			
No. of pick-up tine rows	5			
No. of pick-up tines [pcs.]	160			
No. of cutting knives [pcs.]	—	14	—	14
Length [m]	4,3			
Width [m]	2,65			
Height [m]	2,75		2,95	
Weight[kg]	3120	3250	3320	3450
Power demand on PTO [HP]	80 ÷ 110			



# Z 511

Cubing press for taking crops from the field and pressing grass, hay and straw



The heart of the machine is the original and reliable binding device manufactured by Raaspe.



Cubes length is steplessly adjusted in the range of 0.3 to 1.3 meters.



Press can be equipped with feeder that enables loading cubes directly on the trailer.

## STANDARD EQUIPMENT

- » Binding device by Raaspe
- » Adjustable cube length
- » Adjustable level of density
- » Cubes counter
- » Star-shaped piling device
- » Beam wheel for the pick-up device
- » Protecting clutch
- » drive shaft

## PRICE

### SQUARE BALER Z 511

## ACCESSORIES AT EXTRA CHARGE

- bale guide
- hydraulics of the pick-up device
- drawbar hydraulics

Typ	511
Width of pick-up device [m]	1,85
Bale's length [m]	0,3 -1,3
Width of pressing chamber [m]	0,46
Height of pressing chamber [m]	0,36
Power demand [HP]	30
Weight [kg]	1300





# WRAPPERS







# FALA L2



A stationary, mounted bale wrappers, with backward unloading feature

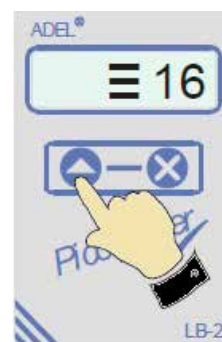


## STANDARD EQUIPMENT

- » hydraulic drive
- » universal feeder for 500 & 750 mm wide films
- » two rollers of the rotary table
- » rotary table can be tilted back for unloading
- » counter of wraps
- » bale supporting cones
- » acoustic alarm of the last wrap



The table tilts backwards enabling unloading of bale.



The amount of wrappings can be programmed

## PRICE

### FALA L2

TYP	FALA L 2
Type	mounted
Max dia. of the wrapped bale [m]	1,25
Max bale weight [kg]	1000
Film width [mm]	500 / 750
Bale loading	loader
Wrapping system	turntable
foil cutter	no
Wrapper drive	hydraulic
Length [m]	2,18
Width [m]	1,16
Height [m]	1,6
Power demand (HP)	45
Weight of the machine (kg)]	580



The device supports 500 and 750 mm wide films.





# GUICIO XL/ FALA XL

Wrappers with turntable, self-loading device and bale unloader



ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

BALE WRAPPERS

mineral fertilization

manure fertilization

potato technology

transport

plant protection



FALA XL



GUICIO XL

## STANDARD EQUIPMENT

- » Automatic work feature (GUICIO XLE)
- » 500 and 750 mm foil feeder
- » Turntable
- » Foil cutter
- » Wrapping counter
- » Hydraulic drive
- » stabilising cones
- » Bale unloader
- » Central drawbar (FALA)
- » Folding drawbar (GUICIO)



## Control

FALA XL and GUICIO XL H are equipped with control lever system



## Bale unloader

with adjustable support foot will set the bale vertically



## Gucio XL E

The controller among other things enables automatic or manual working mode of the wrapper, allows you to set the amount of wrappings and informs the operator eg. about disruption of the film.

## PRICE

### GUICIO XL H

### GUICIO XL E

### FALA XL

TYP	GUICIO XL H	GUICIO XL E	FALA XL
Type	trailed		
Max dia. of the wrapped bale (m)	1,5		
Max bale weight (kg)	1000		
Film width (mm)	500/750		
Bale loading	front self-loading		rear self-loading
Wrapping system	turntable		
Control	lever system	electronic	lever system
foil cutter	yes		
Wrapper drive	hydraulic		
Length [m]	4,5		3,25
Width [m]	2,6		1,69
Height [m]	2,1		2,22
Power demand (HP)	45		45
Weight of the machine (kg)]	1300		1030

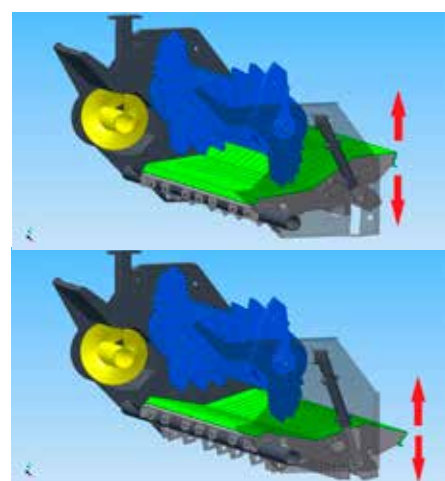


# MASTER

fixed chamber baler with cutter and automatic work mode feature



Modern controller allows programming of the machine operating cycle in auto mode.



**Movable bottom under the rotor**  
comfort in the event of clogging



3-tine rotor works efficiently even during fast harvesting of rough swath.



Very fast planetary and twin-arm wrapping system. Film is cut by the cutters in auto mode.

## STANDARD EQUIPMENT

- » adjustable compression level
- » active net tensioning
- » auto lube system for drive chains
- » mechanical interlock of the rear cover
- » reverse
- » bale unloader
- » wide angle drive shaft
- » 400 / 60–15.5 tyres floor
- » swath compressing roller

## PRICE

**MASTER**

## ACCESSORIES AT EXTRA CHARGE

tyres 480 / 45-17

acidifying liquid applicator

TYP	MASTER
Baler chamber	fixed / roller type
Diameter / width of the bale [m]	1,2 / 1,2
Pick-up width (m)	2,1
No. of pick-up tine rows [pcs.]	5
No. of pick-up tines [pcs.]	160
No. of cutting knives [pcs.]	14
Film wrapping system	two wrapping arms
Film feeder	2 x 750
PTO speed [RPM]	540
Power demand on PTO (HP)	110
Weight[kg]	4150
Length [m]	6,1
Width [m]	2,65
Height [m]	2,95



# FOKA



single-row maize/corn cutter blower with controlled blower channel



FOKA

## STANDARD EQUIPMENT

- » two circular shear knives
- » 12 shredders
- » adjustment of the blower channel
- » floor for crushing grain
- » shredder grinder
- » trailer hitch
- » drive shaft



Sharp round knives cut the maize/corn stalks and a feeder drums transport them onto the disc with shredders rotating at high speed.



The machine is provided with a grinder for the shredders.



**Important!** A special ribbed rasp installed on the bottom of shredder chamber tears the grain coating



Control of the blower channel from the tractor cabin.

## PRICE

## FOKA

TYP	FOKA
Weight [kg]	520
No. of knives (pcs.)	12
Cutting length (mm)	5
Working speed (km / h)	12
Min. row spacing (cm)	60
Capacity (t / h)	up to 30
Throw control	mechanical
PTO speed	540
Power demand (HP)	45



# ORKAN

Soilage cutter for grass mowing and for pick-up of soilage already mowed



Hammers operate smoothly in all conditions



Control of the blower channel from the tractor's cockpit



Wheels are used for adjusting the height of the work.



During the transport, the cutter is trailed behind the tractor.

## STANDARD EQUIPMENT

- » hammering cutting system
- » Cutting length adjusting system
- » control of blower channel
- » wheels
- » drive shaft

## PRICE

**ORKAN 1,35**

**ORKAN 1,5**

TYP	ORKAN 1,35	ORKAN 1,5
Type	mounted	
Mowing width [m]	1,35	1,5
Cutting system	hammer	
No. of knives [pcs.]	15	21
Rotor speed [RPM]	1430	
PTO speed [RPM]	540	
Working speed [km/h]	10	
Control	lever system	
Tyres	185R15C	
Transport dimensions		
Length [m]	3,35	3,55
Width [m]	1,8	1,94
Height [m]	3,48	3,98
Power demand [HP]	50	60
Weight of the machine [kg]	632	709



# MINERAL FERTILIZATION





# MS / MS-SAD

double disc distributors, with gap sowing system



Double disc MS-SAD distributor designed for distributing fertilizer in field cultivation and in gardening, vineyards, or hops cultivation.

## STANDARD EQUIPMENT

- » working width 10÷24 m (MS)
- » working width 10÷18 m (MS-SAD)
- » width in belt distribution 2÷6 m (MS-SAD)
- » belt distribution shield (MS-SAD)
- » shield for boundary sowing
- » suspension system of cat. II
- » mixer for fertilizers
- » fertilizer distributor discs made of stainless steel



Narrow loading box 1.3 m and a shield for belt sowing enables to distribute fertilizer directly under trees or bushes.

## PRICE

**MS 400**

**MS 500**

**MS-SAD 400**

**MS-SAD 500**

**MS-SAD 600**



Belt distribution shield helps to direct the fertilizer on the area of roots of the cultivated plants.

## ACCESSORIES AT EXTRA CHARGE

- plate for limit spreading
- removable transport wheels
- lighting installation
- PTO shaft
- hydraulic closing, MS
- hopper tilt, MS

Type	MS 400	MS 500	MS-SAD 400	MS-SAD 500	MS-SAD 600
Metering orifice closing system	m – mechanical				
Hopper capacity [dm³]	400	500	400	500	600
Operating width [m]	10 ÷ 24		10 ÷ 18 2 ÷ 6 – width in belt distribution		
Length [m]	0.94		1	1	1
Width [m]	1.65		1,3 (1,4)	1,3 (1,4)	1,3 (1,4)
Loading height [m]	0.95	1.05	1,1	1,3	1,5
Weight [kg]	220	240	230	240	250
Power demand [HP]	40 ÷ 50	50 ÷ 60	40 ÷ 50	50 ÷ 60	60 ÷ 70



# MX

double disc distributors, with gap sowing system



MX 850

## STANDARD EQUIPMENT

- » working width 10÷24 m (MS, MX 850–1600)
- » working width 10÷36 m (MX 3000)
- » sieves in the hopper
- » indicator of angle of inclination of the spreader
- » spreading and setting tables
- » shield for border spreading

## PRICE

**MX 850**

**MX 1200**

**MX 1600**

**MX 3000**

## ACCESSORIES AT EXTRA CHARGE

- spreader hopper made of stainless steel, 850 MX
- spreader hopper made of stainless steel, 1200 MX
- spreader hopper made of stainless steel, 1600 MX
- two-line hydraulic control of the LH or RH side of spreading
- rack tilt, MX
- plate for limit spreading
- removable transport wheels
- lighting installation
- PTO shaft for MS, MX 850, MX 1200 & MX 1600
- PTO shaft for MX 3000
- limiter for border spreading of granular fertilizers – mechanically folded



### Limiter for MX

Limiter for border spreading allows obtaining the best precision of spreading at the border of fields in a simple manner.



### Simple adjustment of the spreader

In our spreaders, adjustment of the working width and rate can be performed without the use of any tools. By the use of screws with convenient handles, adjustment of working width is not a problem.



### LM spinner discs

Spinner discs are an important component of spreaders. Our fertilizer and lime spreaders have the spinner discs made of the best stainless steel grade. The LM fertilizer spinner discs ensure precise distribution of fertilizer in any conditions. Simple change of working width due to practical holes reduces the time for preparation the machine to work to minimum.

Type	MX 850h	MX 1200h	MX 1600h	MX 3000h
Hopper capacity [dm <sup>3</sup> ]	850	1 200	1 600	3 000
Operating width [m]	10 ÷ 24			10 ÷ 36
Length [m]	1,1		1,54	1,67
Width [m]	2		2,2	2,67
Loading height [m]	1,06	1,19	1,36	1,78
Weight [kg]	273	305	380	595
Power demand [HP]	60 ÷ 70	80 ÷ 90	100 ÷ 120	180



# MXL

suspended spreaders for fertilizers, SDS distribution system, dosage by means of a precise feeding screw with computer distribution control



MXL 1200

## STANDARD EQUIPMENT

- » working width 10 ÷ 36 m
- » single-function control – worm rotation reader
- » hopper sieves
- » indicator of angle of inclination of the spreader
- » spreading and setting tables
- » hydraulic closing of left and right chamber
- » of the spreader
- » one hydraulic motor that controls distributing device that is controlled by one function,
- » MSR 10 controller
- » two hydraulic motors that control the distributing device, independently, left and right
- » Superior, UTS Computer

## PRICE

**MXL 1200**

**MXL 1600**

**MXL 2100**

**MXL 3000**

## ACCESSORIES AT EXTRA CHARGE

Multifunctional MSR 10 control – monochromatic display

multifunctional Superior control

MXL 1200 hopper made of stainless steel

MXL 1600 hopper made of stainless steel

MXL 2100 hopper made of stainless steel

MXL 3100 hopper made of stainless steel

rack tilt

removable transport wheels

lighting installation

PTO shaft

plate for limit spreading

limiter for border spreading of granular fertilizers – mechanically folded

TrackLeader package – UTS computer + antenna GPS – direct leading

VRC package – UTS computer + antenna GPS – precise agriculture

Type	MXL 1200	MXL 1600	MXL 2100	MXL 3000
Hopper capacity [dm <sup>3</sup> ]	1 200	1 600	2 100	3 000
Operating width [m]	10 ÷ 36		10 ÷ 36	
Length [m]	1,5		1,67	
Width [m]	2,2		2,67	
Loading height [m]	1,25	1,41	1,42	1,62
Weight [kg]	382	408	580	600
Power demand [HP]	80 ÷ 90	90 ÷ 100	120 ÷ 140	180



## MSR 10/ SUPERIOR CONTROLLERS

The controllers available as an option, allow maintaining of the fertilizer dose regardless of the driving speed

### In addition, they allow:

quick change of fertilizer dose  
measurement of operating parameters such as e.g.:

- capacity and quantity of distributed fertilizer and worktime
- check of operation of all sensors



## SDS – control system in the MXL spreaders

MXL Series spreaders have the SDS spreading system installed, where control of the distributed fertilizer is performed by change of auger speed. Variable (stepless) adjustment of engine speed and thus change of spreading the fertilized portion is provided by hydraulic controller.



## UTS Computers

MXL spreaders may be equipped with UTS computer. This enables the distribution of the fertilizer with the use of GPS system. The version with Track Lead package enables parallel drive of the spreader on the field, however with the package VRC, enables the distribution of the fertilizer, according to soil quality map.

# MXL premium

mounted and trailed fertilizer spreaders with GPS system



MXL premium 8200



Use of the limiter for limit spreading in the MXL Premium version allows complete control over the spreading limits in any conditions. Hydraulically lifted and controlled from the cabin by the UTS computer, it provides full comfort at work.

## STANDARD EQUIPMENT

- » UTS computer with automatic dose regardless of driving speed
- » single-axis spreader
- » hydraulic drive of belt conveyor and spreading apparatus
- » mechanical drive of spinner discs
- » lower or top hitch
- » handbrake
- » 2-line air brake system
- » mechanical drawbar support
- » hopper sieves
- » lighting installation
- » spinner discs for fertilizer made of stainless steel
- » PTO shaft



## Feeding screw

In MXL spreaders, precise dosage of fertilizer is assured by the screw feeder



In the MXL premium spreaders, precise metering of fertilizer is provided by an auger. In order to maintain exact fertilizer metering, especially when spreading at the boarders, 2 independent fertilizer feeding systems are used: to the LH and RH spinner discs.

## PRICE

**MXL PREMIUM 5500**

**MXL PREMIUM 8200**

## ACCESSORIES AT EXTRA CHARGE

- TRACK Leader II software for parallel pass + GPS antenna
- VRC software – Precision Agriculture + GPS antenna
- device for boarder spreading of granular fertilizers – mechanically folded
- device for boarder spreading of granular fertilizers – hydraulically folded
- Hopper tilt hydraulically folded

Type	MXL premium 5500	MXL premium 8200
Hopper capacity [dm <sup>3</sup> ]	5500	8200
Operating width [m]	10 ÷ 36	
Length [m]	5,7	
Width [m]	2,29	2,55
Loading height [m]	2,47	2,72
Weight [kg]	2895	3155
Tyres	340 / 85 R48	20,8 R42
Power demand [HP]	60 ÷ 70	80 ÷ 90



Modern and universal system of exchange of information between the tractor and the cooperating machine, operating under ISOBUS standards.



# Computers for MXL Premium fertilizer spreaders



## UTS COMPUTER IN ISOBUS STANDARD Standard equipment in the following machines:

- » MXL premium 5500 / MXL premium 8200

**Main task of computer in the standard version is to maintain the preset dose regardless of driving speed.**

### In addition, the controller allows:

- » fast change of the distributed dose of  $\pm 10$ , 20 and up to 50%
- » check of fertilizer presence in the hopper
- » check of the rotational speed of the spinner discs
- » measurement of the covered area to the nearest 1 m<sup>2</sup>
- » measurement of the capacity achieved, ha / h
- » measurement of the above values for one of five fields
- » check of operation of all sensors



## UTS COMPUTER + TRACK LEADER II Option in the following mounted spreaders:

- » MXL 1200/ MXL 1600/ MXL 2100 / MXL 3000
- » MXL premium 5500 / MXL premium 8200

**All tasks same as in the standard equipment + parallel tracking with the GPS.  
In addition, the software allows:**

- » documentation of the treated areas
- » recording of the process paths, obstacles and boundaries
- » display of the application map with the treated and remaining areas
- » measurement of the treated area with resolution to 1 m<sup>2</sup>
- » keeping the corners
- » 2D/3D display mode and 'as a bird's eye' perspective



**TRACK Leader II** allows pass in parallel paths in various modes.  
Displaying of driving direction and distance to the ideal line.



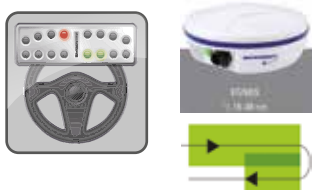
## UTS COMPUTER + VRC Precise distribution of fertilizer in accordance with the soil abundance map

### option in the following mounted spreader versions:

- » MXL 1200 / MXL 1600 / MXL 2100 / MXL 3000
- » MXL premium 5500 / MXL premium 8200

**All tasks same as in the standard equipment + parallel tracking with the GPS + fertilization with the use of the soil abundance map.**

**UTS with GPS – precise fertilization with a map of soil minerals. It facilitates monitoring of the selection of proper nutrients according to the requirements. It also provides cost-effective and efficient use of fertilizer.**



**VARIABLE RATE Control** work according to the application maps in the 'shape' format.



RCW 10000



## STANDARD EQUIPMENT

- » belt conveyor
- » single-axis spreader (RCW 3000, RCW 5500, RCW 8200)
- » tandem spring spreader (RCW 10000)
- » hopper sieves
- » conveyor drive from star wheel
- » mechanical drive of spinner discs
- » bottom or top drawbar
- » drawbar support
- » handbrake
- » 2-line air brake system
- » lighting installation
- » external disc
- » spinner discs for fertilizer and lime made of stainless steel – belt conveyor
- » spinner discs for lime made of stainless steel – chain conveyor
- » PTO shaft

## PRICE

### RCW 3000

### RCW 5500

### RCW 8200

### RCW 10000

## ACCESSORIES AT EXTRA CHARGE

surcharge for chain conveyor, RCW 3000

surcharge for chain conveyor, RCW 5500 / 8200 / 10000

extension package increasing capacity up to 4000 l – RCW 3000

mechanically folded tilt for the hopper, RCW 3000

hydraulically folded tilt for the hopper, RCW 5500 / 8200

hydraulically folded tilt for the hopper, RCW 10000

device for limit spreading of fertilizers – mechanically folded

device for limit spreading of fertilizers – hydraulically folded

fertilizer RCW 8200 23,1 R 36 Tyres

ball hitch 80 mm dia



Conveyor drive from star wheel.



Belt conveyor – fertilizer + lime.



Chain conveyor – lime.

Type		RCW 3000	RCW 3000*	RCW 5500	RCW 5500*	RCW 8200	RCW 8200*	RCW 10000	RCW 10000*
Conveyor type		mounted	trailed	mounted	trailed	mounted	trailed	mounted	trailed
Hopper capacity [dm³]		3 000		5 500		8 200		10 000	
Operating width	granular fertilizers [m]	10 ÷ 36							
	lime [m]	8 ÷ 16							
Overall dimensions	Length [m]	4,95		5,70		5,7		6,8	
	Width [m]	2,12		2,2		2,29		2,35	
	Height [m]	1,95		2,23		2,45		2,56	
Tyres		385 / 65 – 22,5		500 / 60 – 22,5 PR		550 / 60 – 22,5 16 PR		500 / 60 – 22,5	
Weight [kg]		2140	2200	2540	2600	2620	2680	3960	3985
Power demand [HP]		40 ÷ 50		60 ÷ 70		80 ÷ 90		90 ÷ 120	

\* spreader with chain conveyor is only intended for lime spread



# RCW plus

lime and fertilizer distributors, attached, to fertilize plants in row cultivation



RCW plus 5500



## Adjustable wheels

RCW Plus Series spreaders are supplied with large and narrow wheels with wheel track adjustable in the range from 1800÷2250 mm (RCW plus 5500) and 2000÷2250 mm (RCW plus 8200). Such a solution allows precise adaptation of the wheel track in the machine to the tractor, which is ideal for row cultivation at fertilization of high plants.

## STANDARD EQUIPMENT

- » single-axis spreader
- » belt conveyor
- » hydraulic belt drive – RCW plus
- » conveyor drive from star wheel – RCW plus M
- » mechanical drive of spinner discs – RCW plus
- » hydraulic drive of spinner discs – RCW plus M
- » dual-function KP-03 controller
- » bottom or upper drawbars
- » handbrake
- » 2-line air brake system
- » drawbar support
- » lighting installation
- » external disc
- » spinner discs for fertilizer and lime made of stainless steel
- » PTO shaft



## RCW plus 8200 M Distributors

are equipped with sowing discs located at the height of 120 cm from the ground level. This enables to fertilize plants in row cultivation. Fixed wheel distance of 1900 mm



## Limiter for RCW plus

Limiter for limit spread provides the best precision when distributing fertilizer at a border of two fields of high plants in a simple manner.



## Hydraulic belt drive

RCW Series spreaders have hydraulic conveyor speed control system. Electrohydraulic control of the floor conveyor allows precise distribution of the preset portion of fertilizer. As a standard, the distribution rate can also be controlled manually.

## PRICE

**RCW PLUS 5500**

**RCW PLUS 8200**

**RCW PLUS 8200 M**

## ACCESSORIES AT EXTRA CHARGE

Computer Superior multifunctional control system – maintaining of the preset dose of fertilizer or lime regardless of driving speed

hydraulically folded tilt for hopper

device for limit spread of granular fertilizers – mechanically foldable

device for limit spread of granular fertilizers – hydraulically foldable

ball hitch 80 mm dia

Type		RCW plus 5500	RCW plus 8200	RCW plus 8200 M
Hopper capacity [dm³]		5 500	8 200	8 200
Conveyor drive		hydraulic		mechanical
Distance of the sowing discs from the ground [cm]		80		120
Operating width	lime [m]	8 ÷ 16		
	granular fertilizers [m]	10 ÷ 36		
Length × Width × Height [m]		5,70 × 2,29 × 2,45	5,70 × 2,55 × 2,72	5,70 × 2,55 × 2,95
Tyres		340 / 85 R48	20,8 R 42	20,8 R 42
Weight [kg]		2845	3100	3150
Power demand [HP]		60 ÷ 70	80 ÷ 90	80 ÷ 90

# CHASSIS

chassis for MX and MXL spreaders



ploughs

cultivators

seeding  
equipment

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

MINERAL  
FERTILIZATION

manure  
fertilization

potato  
technology

transport

plant  
protection



CHASSIS

## STANDARD EQUIPMENT

- » bottom or upper drawbars
- » 400 / 60–15.5 wheels
- » mechanical support

## PRICE

### CHASSIS

Type	CHASSIS
Transport speed [km / h]	25
Working speed [km / h]	15
Wheel track (continuously variable) [mm]	1 500 ÷ 1 800
Length [m]	2,25
Width [m]	1,78 ÷ 2,08
Height [m]	0,95
Tyres	400 / 60–15,5
Weight [kg]	320

# BYK

loader



BYK

## STANDARD EQUIPMENT

- » RBS hydraulic distributor

## PRICE

### BYK LOADER

Type	BYK
Max load capacity [kg]	1000
Max. lifting height (with feet on the ground) [m]	4,3
Max. lifting height (at max. lifting of the tractor drawbars) [m]	4,75
Min. height to hitch [m]	1,55
Range in horizontal position [m]	1,5 ÷ 2,3
Weight [kg]	300





# MANURE FERTILIZATION





# TYTAN

universal spreaders with durable and liquid-tight box



TYTAN 10 TD

## STANDARD EQUIPMENT

- » hydraulic, variable control of the floor conveyor drive
- » TYTAN 7, 8 & 10 – single-axle spreader
- » TYTAN 7TD, 8TD, 10TD, 11, 13 & 18 – double axle trailer in tandem arrangement
- » Trailer box tailgate
- » floor conveyor with 4 chains (2 pairs)
- » lower or upper hitch
- » mechanical support
- » handbrake
- » 2-line air brake system
- » complete lighting installation
- » PTO shaft – TYTAN 7/ 8/ 10
- » wide angle PTO shaft – TYTAN 11/ 13/ 18

## PRICE

	vertical 4-shaft	vertical 2-shaft	horizontal + spinner disc
<b>TYTAN 7 – LOAD CAPACITY. 5,5 T</b>			
<b>TYTAN 8 – LOAD CAPACITY. 6,5 T</b>			
<b>TYTAN 10 – LOAD CAPACITY 8 T</b>			
<b>TYTAN 7 TD – LOAD CAPACITY 5,5 T</b>			
<b>TYTAN 8 TD – LOAD CAPACITY 6,5 T</b>			
<b>TYTAN 10 TD – LOAD CAPACITY 8 T</b>			
<b>TYTAN 11 TD – LOAD CAPACITY 9 T</b>			
<b>TYTAN 13 TD – LOAD CAPACITY 10 T</b>			
<b>TYTAN 18 TD – LOAD CAPACITY 14 T</b>			

## ACCESSORIES AT EXTRA CHARGE

- horizontal beater + spinner disc
- RBS distributor
- conveyor drive, 2-speed gear
- wide angle PTO shaft TYTAN 7 / 8 / 10
- capacity increasing attachment



TYTAN – single-axle



TYTAN TD – tandem



## CHAIN TENSIONERS

Very good access to the floor conveyor tensioners located in the front part of the machine allows easy adjustment of the chain tension, which allows minimizing scope of work to be performed in hazardous areas.



## Tight box

TYTAN spreaders are equipped with a tight, self-supporting structure of loading box. This facilitates cleaning and maintenance of the spreader.



## BOTTOM OR UPPER DRAWBAR

TYTAN spreaders can be supplied with both upper and bottom drawbars according to the customer's needs. In order to ensure maximum safety, we only use proven and certified hitch-rings, ø50 for the lower or ø40 for the upper drawbar.



## TAILGATES

In order to ensure better spreading of clarified sludge, compost or other material in the form of small lumps, all universal spreaders are equipped as a standard with retention and metering tailgates.



## HYDRAULIC CONVEYOR DRIVE

In TYTAN spreaders, hydraulic drive of the floor conveyor is transmitted by a gear designed for heavy loads. The use of hydraulic drive of floor conveyor ensures uniform feeding of material (e.g. manure, peat or lime) to the spreading units.



## ROBUST FLOOR CONVEYOR

TYTAN spreaders are supplied with floor conveyors consisting of four chains. The chains are made of high grade steel bars with 14 mm dia. and together with special scraping bars, they are adapted to carry heavy loads. Large diameter of the socket wheels reduces the chain wear.

TYTAN	7 / 7 TD			8 / 8 TD			10 / 10 TD		
Type of attachment	vertical 4-shaft	vertical 2-shaft	horizontal + spinner disc	vertical 4-shaft	vertical 2-shaft	horizontal + spinner disc	vertical 4-shaft	vertical 2-shaft	horizontal + spinner disc
Nominal load capacity [kg]	5 500			6 500			8 000		
Working width [m]	4 ÷ 6	8 ÷ 12	12 ÷ 24	4 ÷ 6	8 ÷ 12	12 ÷ 24	4 ÷ 6	8 ÷ 12	12 ÷ 24
Manure capacity [m³]	5,5 + 3,0			7,0 + 3,0			9,0 + 3,0		
Overall dimensions [m]	length			6,75			6,75		
	width			2,30			2,30		
	height			2,64			2,64		
Box dimensions [m]	length			4,35			4,35		
	width			1,8			1,8		
	height			0,75			1,25		
Weight [kg]	2 550 / 3 075	2 710 / 3 235	2 770 / 3 295	2 650 / 3 175	2 810 / 3 350	2 650 / 3 410	2 820 / 3 275	2 910 / 3 434	2 970 / 3 494
Tyres	500/50 × 17 / 12,5/80 × 15,3			500/50 × 17 / 400/60 × 15,5			550/45 × 22,5 / 500/50 × 17		
Power demand [HP]	60 ÷ 70			70 ÷ 80			90 ÷ 100		

TYTAN – tandem	11 TD	11 TD	13 TD	13 TD	18 TD	18 TD
Type of attachment	vertical 2-shaft	horizontal + spinner disc	vertical 2-shaft	vertical 2-shaft	horizontal + spinner disc	vertical 2-shaft
Nominal load capacity [kg]	9 000		10 000		14 000	
Working width [m]	8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24
Manure capacity [m³]	10 + 3,0		11 + 3,0		13,5 + 3,0	
Overall dimensions [m]	length		6,75		6,75	
	width		2,5		2,65	
	height		2,76		2,95	
Box dimensions [m]	length		4,35		4,35	
	width		2,0		2,0	
	height		1,0		1,5	
Tyres	400/60 × 22,5		500 / 60 × 22,5		550 / 60 × 22,5	
Weight [kg]	4 760	4 600	5 245	5 320	5 525	5 320
Power demand [HP]	100 ÷ 110		110 ÷ 120		130 ÷ 150	



# TYTAN 18, 24, 30

efficient and durable spreaders for large agricultural farms



**Sprung drawbar**  
Drawbar in TYTAN 24/30 spreaders is suspended on the adjustable longitudinal leaf spring, which perfectly absorbs any unevenness during operation of the spreader.



**2- or 3-axle chassis**  
Use of 2- or 3-axle chassis allows the spreader operation even in harsh environment conditions. The spreader successfully copes with turning on curves or on headlands, due to the use of steerable 1 and 3 axles (passive) in the TYTANA 30 chassis.

## STANDARD EQUIPMENT

- » hydraulic variable control of the floor conveyor
- » trailer box tailgate
- » upper or bottom drawbar – TYTAN 18
- » sprung lower drawbar – TYTAN 24/30
- » 4-chain conveyor (2 pairs)
- » handbrake
- » 2-line air brake system
- » TYTAN 18 / 24 – tandem spreader
- » TYTAN 30 – Tridem spreader
- » TYTAN 24 - rear axis (self-adjusting)
- » lighting installation
- » adjustable support
- » wide angle PTO shaft

## PRICE

**TYTAN 18 – LOAD CAPACITY. 14 T**

**TYTAN 24 – LOAD CAPACITY. 18 T**

**TYTAN 30 – LOAD CAPACITY. 22 T**

## ACCESSORIES AT EXTRA CHARGE

- adapter horizontal + spinner disc
- capacity increasing attachment
- RBS distributor
- electrohydraulic control of the MSR-5 floor conveyor
- ball hitch 80 mm dia

TYP		TYTAN 18			TYTAN 24			TYTAN 30		
Type of attachment		vertical 2-shaft	vertical 4-shaft	horizontal + spinner disc	vertical 2-shaft	vertical 4-shaft	horizontal + spinner disc	vertical 2-shaft	vertical 4-shaft	horizontal + spinner disc
Load capacity [kg]		14 000			18 000			22 000		
Working width [m]		8 ÷ 12	5 ÷ 8	16 ÷ 24	8 ÷ 12	5 ÷ 8	16 ÷ 24	8 ÷ 12	5 ÷ 8	16 ÷ 24
Loading height [m]		2,8			3,05			3,15		
Overall dimensions [m]	length	7,93			9,43			10,75		
	width	2,6			2,6			2,48		
	height	3,13			3,24			3,37		
Box dimensions [m]	length	4,85			6,35			6,8		
	width	2,0			2,0			2,0		
	height	1,25			1,25			1,7		
Tyres		550 / 60 × 22,5			600 / 55 × 26,5			550 / 60 × 22,5		
Weight [kg]		5 420	5 420	6600	6 885	6685	6 825	9 825	9 825	10 110
Power demand [HP]		120 ÷ 150			190			250		

# APOLLO premium

universal spreaders with a wide spreading adapter



ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

MANURE FERTILIZATION

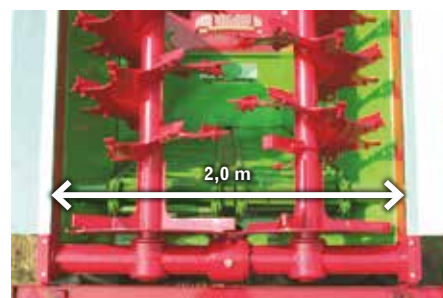
potato technology

transport

plant protection



APOLLO premium 16



## WIDE ADAPTER - 2 cylinders vertical

APOLLO premium spreaders 11 / 14 / 16 are equipped with an adapter of the width of 2 m.

This increases the sowing width, especially when distributing small particles of materials, moreover the distributed material does not get blocked in the rear part of the spreader.

## STANDARD EQUIPMENT

- » adapter of the width of 2 m
- » hydraulic variable control of the floor conveyor
- » 2-chain floor conveyor (1 pair of bars) – APOLLO 11
- » 4-chain floor conveyor (2 pairs of bars) – APOLLO 14 / 16 / 24
- » sprung bottom drawbar, on a longitudinal leaf spring
- » handbrake
- » 2-line air brake system
- » mechanical support
- » complete lighting installation
- » PTO shaft

## PRICE

vertical  
2-shaft

**APOLLO 11 – LOAD CAPACITY. 9 T**

**APOLLO 14 – LOAD CAPACITY. 11 T**

**APOLLO 16 – LOAD CAPACITY. 14 T**

## ACCESSORIES AT EXTRA CHARGE

mudguards/fenders for APOLLO 11

mudguards/fenders for APOLLO 14 / 6

electric control of the floor MSR-5 floor conveyor



## ROBUST FLOOR CONVEYOR

APOLLO spreaders are supplied with floor conveyors consisting of four chains. The chains are made of high grade steel bars with 14 mm dia. and together with special scraping bars, they are adapted to carry heavy loads. Large diameter of the socket wheels reduces the chain wear.



## HYDRAULIC CONVEYOR DRIVE

In APOLLO spreaders, hydraulic drive of the floor conveyor is transmitted by a gear designed for heavy loads. The use of hydraulic drive of floor conveyor ensures uniform feeding of material (e.g. manure, peat or lime) to the spreading units

APOLLO premium		11	14	16
Type of attachment		vertical 2-shaft	vertical 2-shaft	vertical 2-shaft
Box capacity [m³]		11,0	13,0	16,5
Load capacity [t]		9,0	11,0	13,0
Working width [m]		8 ÷ 16		
Overall dimensions [m]	length	7,6	8,25	
	width	2,8	3,09	
	height	2,8	2,95	3,06
Box dimensions [m]	length	4,48	5,48	
	width	1,56 ÷ 1,96	1,50 ÷ 2,30	
	height	1,29	1,40	1,73
Tyres		23,1 R26	28,1 R26	650/75 R32
Weight [kg]		4 500	5 730	5 880
Power demand [HP]		80 ÷ 100	100 ÷ 120	120 ÷ 150



# APOLLO

universal spreaders to work in harsh field conditions



APOLLO 14

## STANDARD EQUIPMENT

- » adapter of the width of 1.5 m
- » hydraulic variable control of the floor conveyor
- » 2-chain floor conveyor (1 pair of bars) – APOLLO 6 / 8 / 10 / 11
- » 4-chain floor conveyor (2 pairs of bars) – APOLLO 14 / 16 / 24
- » sprung bottom drawbar, on a longitudinal leaf spring
- » handbrake
- » 2-line air brake system
- » mechanical support
- » complete lighting installation
- » PTO shaft

## PRICE

**APOLLO 6 – LOAD CAPACITY 5 T**

**APOLLO 8 – LOAD CAPACITY 6,5 T**

**APOLLO 10 – LOAD CAPACITY 8 T**

**APOLLO 11 – LOAD CAPACITY 9 T**

**APOLLO 14 – LOAD CAPACITY 11 T**

**APOLLO 16 – LOAD CAPACITY 14 T**

**APOLLO 24 – LOAD CAPACITY 18 T**

vertical 2-shaft	horizontal + spinner disc
---------------------	------------------------------

## ACCESSORIES AT EXTRA CHARGE

- |  |
|--|
| mudguards/fenders for APOLLO 8 / 10 / 11           |
| mudguards/fenders for APOLLO 14 / 16               |
| mudguards/fenders for APOLLO 24                    |
| electric control of the floor MSR-5 floor conveyor |



## COMPOST, LIME AND PEAT – HORIZONTAL BEATER + SPINNER DISC

APOLLO spreader can be available in the spinner disc attachment with 2-drum horizontal worm beater (with replaceable cutting blades). Such a solution works very well at spreading sludge, compost and peat from 12 to 24 m wide.



## MANURE, LIME – 2-SHAFT VERTICAL BEATER

As a standard, APOLLO spreaders are supplied with universal 2-cylinder worm beater of wide spreading range. Two aggressive spreading cylinders quickly process manure or other material supplied by the floor scraper bars and large spinner discs with four vanes. Adequately shaped and wear resistant, they are capable to achieve even several meters' wide spreading range at maintaining very good consistency. The 2-cylinder beater can spread both manure, as peat and lime. Bolted, replaceable cutting and shredding blades made of high grade steel ensure long and troublefree operation of the machine.



## Chain conveyor

The spreader is equipped with a conveyor that is composed of two (APOLLO 8 and 11) and four chains (APOLLO 14 and 16). The chains are made of high-quality steel of the diameter 14mm





## SPRUNG BOTTOM DRAWBAR

In APOLLO spreaders, the drawbar suspended on a longitudinal adjustable leaf spring that perfectly absorbs any unevenness during operation of the spreader.



## LARGE WHEELS

APOLLO 6 / 8 / 10 / 11 / 14 / 16 spreaders are supplied with a single axle, which provides lower rolling resistance and good load capacity and manoeuvrability. Easy driving in a difficult area, protection of the soil structure and fuel economy are the other advantages of such solution.



## HYDRAULIC LIFTING OF THE BOX

In APOLLO 24, the trailer box is equipped with hydraulically adjustable drawbar that can be adapted to the existing conditions. Drawbar adjustment allows change of the rear axle pressure characteristics and inclination of the machine in the forward direction, which significantly improves operation of the floor conveyor. It is especially important when the machine is used as a trailer of a large capacity, where this option facilitates unloading and prevents the drawbar unloading at fertilization operations

TYP		APOLLO 6		APOLLO 8		APOLLO 10		APOLLO 11	
Type of attachment		vertical 2-shaft	horizontal + spinner disc	vertical 2-shaft	horizontal + spinner disc	vertical 2-shaft	horizontal + spinner disc	vertical 2-shaft	horizontal + spinner disc
Box capacity [m³]		6,0		7,5		10,0		11,0	
Load capacity [t]		5,0		6,5		8,0		9,0	
Working width [m]		8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24
Overall dimensions [m]	length	6,95	7,05	7,1	7,25	7,1	7,25	7,6	7,75
	width	2,57		2,55		2,55		2,8	
	height	2,6		2,7		2,8		2,8	
Box dimensions [m]	length	4,34		4,34		4,34		4,48	
	width	1,46 ÷ 1,96		1,46 ÷ 1,96		1,46 ÷ 1,96		1,56 ÷ 1,96	
	height	0,98		1,04		1,37		1,29	
Tyres		18,4 x 30		18,4 x 34		18,4 x 38		23,1 x R26	
Weight [kg]		3400	3460	4 040	4 100	4 090	4 150	4 500	4 750
Power demand [HP]		50 ÷ 60		70 ÷ 80		75 ÷ 90		80 ÷ 100	

TYP		APOLLO 14		APOLLO 16		APOLLO 24	
Type of attachment		vertical 2-shaft	horizontal +spinner disc	vertical 2-shaft	horizontal +spinner disc	vertical 2-shaft	horizontal +spinner disc
Box capacity [m³]		13,0		16,5		20,0	
Load capacity [t]		11,0		13,0		18,0	
Working width [m]		8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24	8 ÷ 12	12 ÷ 24
Overall dimensions [m]	length	8,25	8,4	8,25	8,4	8,95	9,1
	width	3,09		3,05		2,6	
	height	2,95		3,06		3,0	
Box dimensions [m]	length	5,48		5,48		6,2	
	width	1,5 ÷ 2,3		1,5 ÷ 2,3		1,5 ÷ 2,3	
	height	1,4		1,73		1,83	
Tyres		28,1 R26		650 / 75R32		23,1 R26	
Weight [kg]		5 730	5 650	5 780	5 720	5 650	5 730
Power demand [HP]		100 ÷ 115		120 ÷ 130		190	



# Attachments for TYTAN spreaders



## MANURE – VERTICAL 4-SHAFT BEATER

The spreaders supplied with 4-shaft vertical beater inclined towards the front of the machine that ensure uniform manure spread to the width from 6 to



## MANURE – VERTICAL 2-SHAFT BEATER

Two shafts and installed large wheels with vanes allow achievement of several meters wide spread at maintaining good uniformity. Universal 2-shaft beater can spread manure, peat and lime.



## COMPOST, LIME, PEAT – HORIZONTAL BEATER + SPINNER DISC ATTACHMENT

Spinner disc attachment with 2-drum auger horizontal beaters serve for spreading of rotted manure (without fresh straw), lime, sludge, compost and peat as far as from 12 to 20 m wide.



## CAPACITY INCREASING ATTACHMENT

This attachment is equipped with a set of special top additions and capacity increasing extensions with hydraulically opened rear wall and its purpose can be changed such, that the machine becomes a trailer with automatic unloading.





# POTATO TECHNOLOGY





# KORA 2, 4, 4h, 4hp

potato planters



KORA 4h



**KORA 4**

Two row mounted potato planter with 400 (450) kg of the hopper load capacity.



**KORA 4h**

Four row mounted potato planter with 840 (900) kg of the hopper load capacity.

## STANDARD EQUIPMENT

- » interrow width 75 cm
- » belt tensioner
- » feeding belt shaker
- » ridging discs
- » copying wheels – KORA 4, 4h, 4hp
- » sprocket wheels – 15 speeds
- » hydraulic markers (in KORA 4h, 4hp)
- » mechanical markers (in KORA 4)



**KORA 2**

Two row mounted potato planter with 400 (450) kg of the hopper load capacity.



**KORA 4hp**

Four row mounted potato planter with hydraulically lifted hopper with 1100 (1150) kg of load capacity.

## PRICE

**KORA 2 (70/ 75 CM)**

**KORA 4 (70/ 75 CM)**

**KORA 4H (75 CM)**

**KORA 4HP (75 CM)**

## ACCESSORIES AT EXTRA CHARGE

special equipment for planting sprouted potatoes (for KORA 2)

surcharge for interrow width 90 cm (KORA2)

surcharge for interrow width 90 cm (KORA 4, 4h,4hp)

fertilizer scatterer (for KORA 2)

fertilizer scatterer (for KORA 4)

set of inserts for planting undersized seeds (for KORA 2)

set of inserts for planting oversized seeds (for KORA 2)

set of inserts for planting undersized seeds (for KORA 4, 4h, 4hp)

set of inserts for planting oversized seeds (for KORA 4, 4h, 4hp)

hydraulic markers (for KORA 4)

Typ	KORA 2		KORA 4		KORA 4h		KORA 4hp	
No. of rows	2		4		4		4	
Working width [m]	1,4 ÷ 1,5	1,8	3	3,6	3	3,6	3	3,6
Interrow width [cm]	70/75	90	70/75	90	75	90	75	90
Potato hopper capacity [kg]	400	450	840	900	1 000	1200	2 000	2 200
Planting depth [cm]	4 ÷ 12		4 ÷ 12		4 ÷ 12		4 ÷ 12	
Capacity [ha/h]	0,3 ÷ 0,5	0,4 ÷ 0,6	0,6 ÷ 1,1	0,7 ÷ 1,2	1,3	1,5	1,6	1,7
Weight [kg]	440	480	940	990	1 100	1 150	1580	1650
Power demand [HP]	50	60	75	80	75	90	75	80

# FORMA 2,4

ridging ploughs with forming device



ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

POTATO TECHNOLOGY

transport

plant protection



FORMA 2



Trapezoidal shape of a ridge after operation of the ridging plough ensures better moisture retention in the ridge.

## STANDARD EQUIPMENT

- » forming device
- » selectable spacing of interrows, 75 / 70 cm
- » adjustable tilt of the forming device
- » forming plates are removable
- » (for processing ridges after plant emergence)



Forming plates can be installed in the standard versions of the 2- and 4-row ridging ploughs.

## PRICE

### FORMA 2

### FORMA 4

FORMA		2 (Two row)	4 (Four row)
Working width [m]		1,5	3
Interrow width [cm]		70 / 75	70 / 75
Capacity [ha/h]		0,5 ÷ 0,7	1,0 ÷ 1,4
Dimensions [m]	length	1,89	1,89
	width	1,77	3,28
	height	1,12	1,12
Weight [kg]		420	700
Power demand [HP]		od 35	od 55



# BOLKO

potato and vegetable harvesters



BOLKO

## STANDARD EQUIPMENT

- » hydraulic control of the drawbar
- » tank for stones
- » hydraulic lifting and lowering of the digger
- » PTO shaft
- » lighting installation

## PRICE

### BOLKO

### BOLKO S

### BOLKO T

## ACCESSORIES AT EXTRA CHARGE

onion pick-up

carrot digger

circular scraper

hopper

TYP		BOLKO	BOLKO S	BOLKO T
Working width [m]		0,625 ÷ 0,75	0,625 ÷ 0,75	0,625 ÷ 0,75
No. of rows		1	1	1
Working speed[km]		1,5 ÷ 5,0	1,5 ÷ 5,0	1,5 ÷ 5,0
Capacity [ha/h]		up to 0,15	up to 0,15	up to 0,15
Potato hopper capacity [kg]		1250	—	—
Width of loading duct [mm]		—	—	600
Platform load capacity [kg]		—	500	—
Dimensions [m]	length	5,95	5,95	5,95
	width	2,42	2,42	2,42
	height	2,69	1,9	2,95
Unloading height [m]		1,1 ÷ 2,5	—	up to 3,1
Power demand [HP]		40	30	30
Weight [kg]		1971	1531	2090
Operators		2 people	2 people	—



## Onion pick-up

Onion pick-up is a special equipment of the harvester. After its installation, you can pick-up onions arranged in 0.65 wide strips.



## BOLKO

Potato harvester with 1250 kg hopper capacity.



## BOLKO S

Potato harvester with bag loader and platform, loading capacity of 500 kg.



## BOLKO T

Potato and vegetable harvester designed for direct loading on a trailer.

# PYRA 1600

potato and vegetable harvesters with a finger hump



ploughs

cultivators

seeding  
equipment

combination  
seed drills

mowers

rakes

Baler/wrapper  
combination

bale wrappers

mineral  
fertilization

manure  
fertilization

POTATO  
TECHNOLOGY

transport

plant  
protection



PYRA 1600

## STANDARD EQUIPMENT

- » hydraulic drive of the potato hopper conveyor
- » hydraulic lifting of digger
- » lighting installation
- » active rod scraper
- » finger hump
- » hydraulically controlled drawbar
- » PTO shaft
- » hopper

## PRICE

### PYRA 1600

## ACCESSORIES AT EXTRA CHARGE

onion pick-up

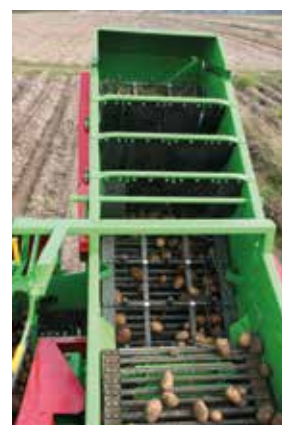
carrot digger

electromechanical control of the harvester hydraulic system

additional cleaning equipment (finger hump)



Hydraulically driven and installed over the transverse conveyor, this device effectively and gently slides potatoes from it onto the picking table. The scraper speed is infinitely controlled by the picking table operators with a knob. Two rows of the scraping fingers can be set at various angles and at various heights in relation to the transverse conveyor in order to select optimal position.



### Finger hump with wide pitch conveyor

By attaching this optional unit, you can significantly improve effectiveness of cleaning potatoes from soil clods and haulms. This is especially important when digging potatoes in difficult field conditions and on the fields with great amount of haulms and weeds.

TYP		PYRA 1600
Working width [m]		0,75
No. of rows		1
Working speed[km]		1,5 ÷ 5,0
Capacity [ha/h]		up to 0,16
Potato hopper capacity [kg]		1600
Width of loading duct [mm]		—
Platform load capacity [kg]		—
Dimensions [m]	length	6,95
	width	2,4 (4,4)
	height	2,8 (2,4)
Unloading height [m]		1,35 ÷ 2,70
Power demand [HP]		od 50
Weight [kg]		2900
Operators		3 people



PYRA 1600 harvester has a hopper with adjustable unloading height in the range from 1.25 to 2.7 m.



# PYRA 3000

potato and vegetable harvesters



PYRA 3000

## STANDARD EQUIPMENT

- » hydraulic drive of potato hopper conveyor
- » hydraulic lifting of digger
- » lighting installation
- » active finger scraper
- » infinite control of finger scraper and picking table conveyors speed
- » hydraulically controlled drawbar
- » independent hydraulic control system
- » steerable wheels
- » PTO shaft
- » wheels 385/60 R22,5
- » hopper



The harvester hydraulic system can be controlled manually or electromechanically from the tractor cabin.



PYRA 3000 harvester is equipped with a hydraulically raised hopper for adjustment the unloading height in the range from 1.25 m to 3.7 m.



Hydraulically controlled steering of wheels in PYRA 3000 facilitates turns on headlands, work on slopes and accessing trailers for unloading.

## PRICE

### PYRA 3000

## ACCESSORIES AT EXTRA CHARGE

onion pick-up

carrot digger

electromechanical control of the harvester hydraulic system

TYP	PYRA 3000
Working width [m]	0,75 ÷ 0,90
No. of rows	1
Working speed[km]	1,5 ÷ 5,0
Capacity [ha/h]	up to 0,18
Potato hopper capacity [kg]	3000
Dimensions (length / width / height) [m]	8,15 / 2,82 / 3,02
Unloading height [m]	1,25 ÷ 3,70
Power demand [HP]	80
Weight [kg]	4690
Operators	2 + 2 people

# WEGA 1400, 1400D

potato and vegetable diggers



WEGA 1400

## STANDARD EQUIPMENT

- » coulter disc
- » every second rod is lined
- » adjustable vibration mechanism
- » sifter shaker
- » rubber support wheels
- » rear chute



WEGA Long version 1400D

## PRICE

**WEGA 1400**

**WEGA 1400D**

## ACCESSORIES AT EXTRA CHARGE

digging share for onion

packing roller

PTO shaft

WEGA	1400	1400D
Working width [m]	1,4 (1,5)	1,4 (1,5)
Interrow width [cm]	70 ÷ 75	70 ÷ 75
No. of rows [pcs.]	2	2
Dimensions (length / width / height) [m]	2,84 / 1,8/ 1,12	3,5 / 1,8/ 1,12
Weight [kg]	608	720
Power demand [HP]	55	65



### Rod conveyor

Rod conveyors of the diggers are made on 3 flat belts (with additional reinforcing belt in the middle part of the conveyor), and every other rod is lined, which minimizes damages and facilitates transport of the digged potatoes and vegetables.



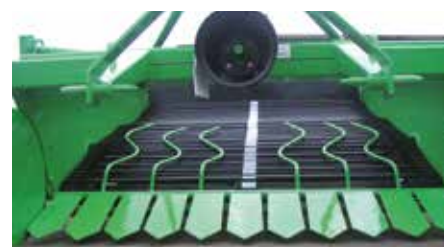
### Digging share for onion and vegetables

The digger can be used for harvesting onion and other vegetable after replacing the digging share with a special plate.



### Packing roller

As option, a packing roller can be installed WEGA 1400 and WEGA 1600 diggers, which levels soil under falling potatoes or vegetables, which facilitates and accelerates their pick-up.



### Shaking system

In order to effectively clean the vegetables and sift soil, transversely shaking rods are installed in the front part of the digger and shakers in its rear part. Vibration rate of the transverse rods can be adjusted, depending on operating conditions. In addition, WEGA 1600 allows adjustment of the conveyor shaking force in the rear part of the digger.

ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

POTATO TECHNOLOGY

transport

plant protection





# TRANSPORT







# P<sub>TD</sub>

unitized body trailers



ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

TRANSPORT

plant protection



P14TD + P14 long

## STANDARD EQUIPMENT

- » 2-line air brake system with automatic brake controller
- » lighting installation
- » rear hydraulic socket
- » rear coupling of brake system
- » tipping system with cut-off valve
- » 3-acting telescopic cylinder with articulated joint
- » grain chute in the rear wall
- » rear electric socket
- » wheel chocks with pockets
- » wheel mudguards/fenders
- » side ladder and steps facilitating access to the cargo box
- » warning triangle

## PRICE

**P12TD**

**P14TD**

## ACCESSORIES AT EXTRA CHARGE

spare wheel, 385/65 R22.5

surcharge for 435/60 R22.5 wheels

spare wheel, 435/60 R22.5

working platform with rail

tilt with rack

automatic rear hitch ROCKINGER

manual rear hitch ROCKINGER

grain chute



In the tandem trailers, ability to work in harsh field conditions is greatly improved.



Robust trailer frame made of open profile ensures its strength for many years.



Trailers with load capacity from 6 to 12 tons have single sides, while the 14 tons trailer sides are splitted in the middle.

Typ		P12TD	P14TD
Total weight [t]		4 300	4 600
Technical capacity [t]		12 000	14 000
Cargo box dimensions [m³]		15,25	17,80
Speed approval [km/h]		40	
Axle load [kg]		2× 8000	2× 9000
Max. drawbar load on hitch [t]		2 ÷ 3	
Cargo box dimensions (length / with / height) [m]		5,25	
		2,42	
		0,6 + 0,6	0,6 + 0,8
Overall dimensions [m]	length	2,55	2,55
	with	7,34	7,56
	height	2,97	3,17
Tyres		385/65 R22,5	
Kerb weight [kg]		4 300	4 600



# PS

## unitized body trailers



### STANDARD EQUIPMENT

- » 2-line air brake system
- » sprung wheelset in tandem arrangement
- » 2-line air brakes with automatic brake controller
- » hand brake
- » drawbar cushioned by rubber pads
- » steps to the inside of the cargo box
- » gate for stream discharge in the rear wall
- » hydraulically opened rear wall with hook lock
- » mudguards/fenders
- » wheel chocks
- » hydraulic support foot with hydraulic pump
- » 550/60 R22.5 tyres

### PRICE

**PS 20**

**PS 22**

**PS 20W**

**PS 22W**

### ACCESSORIES AT EXTRA CHARGE

working platform with rail

manual rear hitch ROCKINGER

automatic rear hitch ROCKINGER

hydraulically driven rear axle

chute for stream unloading

tilt with rack

ball hitch 80 mm dia

tyres 600/60 R22,5

Typ		PS20	PS22	PS20W	PS22W
Total weight [t]		20	22	20	22
Technical capacity [t]		14	16	14	16
Cargo box dimensions [m³]		16,5		16,5	
Box capacity with 500 mm attachment [m³]		23		23	
Speed approval [km/h]		(25) 40		(25) 40	
Axle load [kg]		2× 9000	2× 10000	2× 9000	2× 10000
Max. drawbar load on hitch [t]		2 ÷ 3		2 ÷ 3	
Cargo box dimensions [m]	length	6,0		6,0	
	with	2,2		2,2	
	height	1,25	1,75	1,25	1,75
Overall dimensions [m]	length	7,8		7,8	
	with	2,55		2,55	
	height	2,7	3,1	2,7	3,1
Weight [kg]		5 545	5 745	5 645	5 845

### Trailers PS20W, PS22W

The trailers have a hydraulically elevated box that is raised to the level of 2.3 m. This enables direct unload to the hoppers or enables to firm high prisms (e.g. silage, compost, etc.).



A liquid-tight loading box enables to transport even small-particled or liquid materials.



In the standard option, the trailers are equipped with a cushioned drawbar that absorbs all vibrations.



### Clamps

Robust and tight closing of the rear wall by clamping hooks, which automatically lock the rear wall after its lowering.

# BIZON

trailers to transport crops and corn



ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

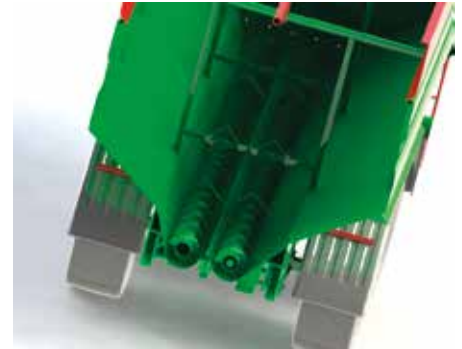
potato technology

TRANSPORT

plant protection



BIZON 25000



In two floor channels running through the entire length of the load box, there are two feeding screws that transport material to a feeding box that is the frontal part of the tank

## STANDARD EQUIPMENT

- » double sprung suspension
- » hydraulic control of
- » unloading mechanisms
- » hydraulic support foot, folded
- » 2-cable pneumatic brake system
- » PTO
- » hand brake
- » rear twisting axis (self-adjusting)
- » working platform with a handrail
- » ladder and steps
- » wheel wedges with pockets
- » mud guards

## PRICE

**BIZON 20000**

**BIZON 25000**

## ACCESSORIES AT EXTRA CHARGE

- canvas
- rear hydraulic twisting axis
- ball hitch 80 mm dia

TYP	20000	25000
Total permitted weight [kg]	18000	22000
Total permitted weight on the field [kg]	20000	24000
Own weight [kg]	7100	7650
Capacity [kg]	10900	14350
Loading capacity [m³]	20	25
Unloading efficiency [t/h]	200 ÷ 400	
Length / width of the loading box inside [mm]	6000 / 2492	
Dimensions (length/width/height) [mm]	8900/2875/3250	8900/2875/3550
Height of the walls of the box [mm]	1490	1490+250
Thickness of the metal sheet: floor/walls/accessories [mm]	4/4/3	
The height of loading of the top border from the ground [mm]	3000	3300
Wheel distance [mm]	1900	
Tyre size	550/60x22,5	600/50x26,5
Minimal tractor power demand [HP]	150	170
Hydraulically folded screw feeder (diameter/length/height to the border of the aisle opening) [mm]	430/5245/4800	430/5245/4850
Height of the top hitch (from the ground level) / pressure on the drawbar [mm / kg]	1000 / 2500	
Height of the bottom hitch (from the ground level) / pressure on the drawbar [mm / kg]	600 / 3000	



A tube that can be elevated high enables to load material onto high trailers.



The reloading capacity of the trailer is 200 tonnes per hour.



Hydraulic support foot



# PL

## transport platforms



PL6



Loading of machines is of no concern since the platform can be lowered to the ground level.

### STANDARD EQUIPMENT PL6

- » skew hitch – beam of Cat. II and III
- » mechanical transport interlock
- » brackets for attachment of belts on both sides
- » 40 mm thick wooden boards
- » lighting panel
- » 2-line air brake system
- » 12.5 / 80 × 15.3 tyres
- » max. load capacity 6 ton

### STANDARD EQUIPMENT PL19/27

- » mechanically folded ramps
- » brackets for attaching belts on both sides
- » 40 mm thick wooden boards
- » lighting panel
- » 2-line air brake system



PL 27 transport platform with Tridem wheelset

## PRICE

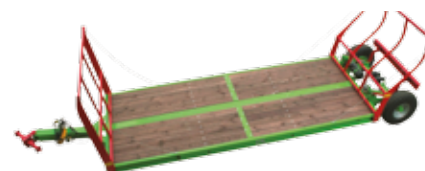
### PL-6

### PL-6 WITH BALE ATTACHMENT

### PL19

### PL27

Typ	PL6	PL6 WITH BALE ATTACHMENT	PL19	PL27
Load capacity [t]	5,5		19	27
Length (without drawbar) [mm]	9 000		6 369 + without drawbar 1500	7586 + without drawbar 1500
Width [mm]	2 480		2 564	2 564
Height [mm]	200–500	200–500	928	928
1-wheelset	12,5/80 × 15,3			
2-wheelset	—	—	215 × 75 R17,5	—
3-wheelset	—	—	—	215 × 75 R17,5
Pallet dimensions [m]	6,0 × 2,48	6,0 × 2,48	2,42 × 6,39	2,42 × 7,85
Platform weight [kg]	1 700	1 850	3 568	4 860



After installation of special brackets, PL6 platform can be used for transport of hay or straw bales.

# TRAILERS – major features



ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

TRANSPORT

plant protection



## ROBUST FRAME

The chassis frame has been designed acc. to the latest design solutions and is made of open profile components, which greatly increases the strength and durability in relation to the closed profile



## PROFILED WALLS

Profiled walls of Fuhrmann reputable company, which greatly increases the body resistance to deformations and ensures its good quality for many years.



## LONG WHEELBASE

Long wheelbase allows safe transport and unloading in any conditions.



## PRESERVATION

A modern trailer means also perfect fitting of all details as well as preservation of the trailer against harsh operating and adverse weather conditions. Powder painting of the sides and other components is the best trailer protection for many years.



## NEW SEALS

New seals in the 14 tons trailers made of bars (without gasket), ensure high tightness and maintenance-free operation of the trailer for many years.



## VERSATILITY

5.25 m long and 2.42 m wide body in the 'long' version of trailers mean excellent use of the cargo area. Versatility of our trailers means that you can use them not only for transport of agricultural products, but also pallets or bales of straw.



## ROBUST DESIGN

Components of the best reputable companies also contribute to the robustness of our trailers:

- » brake system with automatic brake controller of the American companies Wabco or Haldex
- » cylinder for three way tipping of the body of Italian Mariz company
- » ADR/ATW driving axles with TÜV certificate
- » turntable, ball joints and drawbar of German Jost company with TÜV certificate



## LOW LOADING HEIGHT

Adaptation of the modern loadbearing frame design enabled achievement of low loading height, which is equal to as little as 1.18 m (versions P6 long & P8 long) of 1.42 m (for P10 long, P12 long & P14 long) from the ground to the trailer floor.





# PROTECTION





# Spray controlling valves and controllers



## ZSF MANUAL VALVE

Manual control valve designed for suspended sprayers, supporting control operations of the main valve spraying sections and used for manual setting of operating pressure.

**Application:** EKO, LUX, REX



## ZTS MANUAL VALVE – CONSTANT PRESSURE

Manual control valve with pressure compensation. Disactivation of particular spraying sections is controlled by appropriate push-buttons on valves.

Link control of the main valve for PLUS.

**Application:** EKO, LUX, REX, PLUS



## ELECTRICALLY CONTROLLED PROPORTIONAL SOLENOID VALVE

Valve bank with electric motors and pressure compensating system

– controlled by CONTROL DUO.

The valve can be expanded with an electronic pressure sensor or optionally supplemented with a SPRAY computer or UTS.

**Application:** EKO, LUX, REX, PLUS, EUROPA, EUROPA premium



## CONTROL – H

Basic features:

- » control of boom hydraulic functions\*

**Application:** versions with symmetric boom unfolding with ZSF or ZTS manual valve in the fluid system



## CONTROL – H +

Basic features:

- » control of boom hydraulic functions\*\*
- » foam marker control

**Application:** versions with symmetric boom unfolding with ZSF or ZTS manual valve of the fluid system



## CONTROL DUO

Basic features:

- » activation of spraying and boom section
- » operating pressure control
- » control of boom hydraulic functions \*/ \*\*
- » foam marker control

**Application:** versions with symmetric or separate boom unfolding with solenoid valve of the fluid pressure (pressure reading from pressure gauge on the solenoid valve)



## Additional functions

Electronic display of operating pressure on the control panel

\* symmetric boom unfolding – required 2 pairs of hoses; controlled by tractor hydraulic system levers

\*\* separate boom unfolding – required 1 pair of hoses; electro-hydraulic control from the control panel in the cab



## SPRAY COMPUTER

### Basic features:

- » automatic spray dose control, regardless of driving speed
- » monochrome display
- » activation of spraying sections
- » display of operating pressure
- » display of driving speed
- » display of sprayed fluid
- » display of sprayed area in hectares
- » control of boom hydraulic functions \*/\*\*
- » foam marker control

Only in conjunction with solenoid valve of the fluid system.

### Additional features:



## NAVI GPS

Navigation with automatic control of the fluid system sections  
Parallel drive

**Application:** EKO, LUX, REX, PLUS, EUROPA, EUROPA premium



## UTS COMPUTER

High-tech system of data exchange between tractor and supported machine, operating in ISOBUS standards – used for control of multiple machines from one computer.

### Basic features:

- » automatic spraying dose control, regardless of driving speed
- » ISOBUS
- » colour display
- » control of boom hydraulic functions \*\*
- » display of operating pressure
- » display of driving speed
- » display of sprayed fluid volume
- » display of sprayed area in hectares
- » display of fluid level in the fluid tank
- » USB port
- » joystick

Used in combination with a solenoid valve of the fluid system and the electro-hydraulic controls of the boom

**Application:** EUROPA, EUROPA premium

### Additional features:



TRAIL control



AXLE control

automatic tractor trajectory tracking



DYSTANS Control

automatic filed boom lifting and lowering



R System

reduction of boom operating width



TRACK Leader II

GPS-controlled parallel and contour drive system



SECTION Control

automatic spraying section activation by GPS



EDS

automatic activation of particular sprayers by GPS  
fluid recirculation in the field boom

\* symmetric boom unfolding – required 2 pairs of hoses; controlled by tractor hydraulic system levers

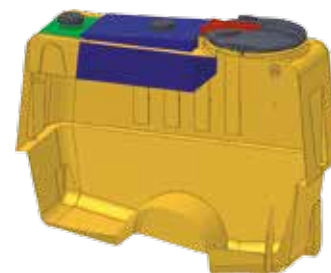
\*\* unfolded, independent booms – required 1 pair of hoses; electro-hydraulic control from the control panel in the cab







LUX 1015



Three-chamber tank enables rinsing of the machine with clean water immediately after spraying operations.



Hydraulic boom folding – symmetrical with two cylinders and linked tie rods, folding the last wings.



Boom lifting cylinder improves work comfort and is included in the Standard equipment scope.

### STANDARD EQUIPMENT

- » Main tank: 400, 600, 800, 1000-polyethylene
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » ZETA 100 membrane-piston pump for 400/600, ZETA 140 for 800/1000
- » Water diluter in main tank inlet
- » ZSF control valve on the boom
- » Single-position heads with spraying nozzles
- » Field booms (12 or 15 m) hydraulically unfolded (symmetrically), 2 pairs of hoses
- » Hydraulic boom lifting to 2.1 with mechanical shock absorption (for 400/600-1.7m)
- » Trapezoidal stabilisation system
- » Manual correction of the boom inclination
- » Fluid system: 1/2" acid-resistant steel
- » spraying nozzles in 50 cm intervals

### PRICE

#### WITH STANDARD EQUIPMENT

12 m

15 m

LUX 400

LUX 600

LUX 800

LUX 1000

### PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

12 m

15 m

LUX 400

LUX 600

LUX 800

LUX 1000

### \* RECOMMENDED MANUFACTURER'S OPTIONS:

- » ZTS constant pressure control valve on the boom
- » Boom inclination cylinder
- » Three-position heads with spraying nozzles for 12/15 m boom

LUX		400	600	800	1000
Tank volume (l )		400	600	800	1000
Operating width (m)		12 / 15			
Number of sections in boom fluid system		5			
Boom lifting scope (m)		0,5-1,7		0,5-2,1	
Boom control		hydraulic – 2 pairs of hoses			
Pump		ZETA 100		ZETA 140	
Transport dimensions (m)	length	1,4	1,4/1,6		
	width	2,6			
	height	2,4/3,0			
Power demand (HP)		60	80		
Weight (kg)		315	475	620	640



# REX

mounted field sprayers, hydraulically unfolded and lifted booms



REX 1018

## STANDARD EQUIPMENT

- » Main tank: 1000, 1200 l – polyethylene
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » ZETA 170 membrane-piston pump
- » Water diluter in main tank inlet
- » ZSF manual control valve
- » field booms: 15, 18, 20, 21, 24 m, hydraulically unfolded (symmetrically – 2 pairs of hoses)
- » Hydraulic boom lifting up to 2.1 m with mechanical shock absorption
- » Pendulous stabilisation system with mechanical shock absorption
- » Boom tilt correction – manual
- » Fluid system: ½" acid-resistant steel, spraying nozzles in 50 cm intervals
- » Single-position heads with spray nozzles



Pendulous stabilisation with shock absorption effectively suppresses shock transfer onto the boom and enables its manual or hydraulic tilting.



Possible partial reduction of the boom operation width in its full lifting scope is a big advantage of this solution.



The spatial boom design, made in total of bent profiles, ensures very high rigidity of its structure and enables the use of spray nozzles of any length and RSM caps.



The design of the hydraulic boom unfolding system, perfect in every engineered detail, is based on double-sided cylinders, sequentially controlled by mechanical valves.

## PRICE WITH STANDARD EQUIPMENT

15 m 18 m 20 m 21 m 24 m

**REX 1000**

**REX 1200**

## PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

15 m 18 m 20 m 21 m 24 m

**REX 1000**

**REX 1200**

REX	1000	1200
Tank volume (l)	1000	1200
Operating width (m)	15/18/20/21/24	
Number of sections in boom fluid system	5; 7 for 24 m width	
Boom lifting scope (m)	0,5-2,1	
Boom control	hydraulic – 2 pairs of hoses/electrohydraulic – 1 pairs	
Pump	ZETA 170	
Transport dimensions (length / width / height) (m)	1,85 / 2,55 / 2,40–3,10	
Power demand (HP)	120	150
Weight (kg)	1000	1100

## \* RECOMMENDED MANUFACTURER'S OPTIONS:

- » SPRAY computer
- » Electromagnetic valve for 15-21 m – 5 section boom
- » Electromagnetic valve for 24 m – 7 section boom
- » Electrohydraulic boom unfolding (independent) with boom tilting cylinder
- » Lateral ejection water diluter
- » Spin washer of the main tank
- » Transport wheels for rolling
- » Three-position heads with spraying nozzles: for 15 m/18 m/20 m/21 m/24 m boom



PLUS 1618



Pendulous stabilisation with manual or hydraulic correction of boom tilting

## STANDARD EQUIPMENT

- » Main tank: 1600 l, 2000 l, 2500 l, polyester
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » Spin washers of the main tank
- » Upper rigid drawbar with ø 40 eye
- » Water diluter in main tank inlet
- » ZETA170 membrane-piston pump for 1600l and ZETA 260 for 2000 l and 2500 l
- » ZTS manual control valve (constant pressure)
- » Hydraulically (symmetrically) unfolded field booms – 2 pairs of hoses
- » Boom section filters
- » Hydraulic boom lifting to 2.3 m with mechanical shock absorption
- » Pendulous stabilisation with shock absorption
- » Boom tilting correction-manual

- » Fluid system: ½" acid resistant steel, spraying nozzles in 50 cm intervals
- » Single-position heads with spraying nozzles
- » Wheels: 9.5 x 36" for 1600 l; 9.5 x 44" for 2000 l and 2500 l
- » Axle with infinitely variable spacing of wheels: 1.35-1.8 m for 1600 l; 1.5-2.0 m for 2000 and 2500 l
- » single-circuit, pneumatic braking system with a parking brake (for 2000 l and 2500 l)

## PRICE

### WITH STANDARD EQUIPMENT

**PLUS 1600** STANDARD BOOM

**PLUS 2000** STANDARD BOOM

REX BOOM

**PLUS 2500** STANDARD BOOM

REX BOOM

15 m 18 m 20 m 21 m 24 m

## PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

**PLUS 1600** STANDARD BOOM

**PLUS 2000** STANDARD BOOM

REX BOOM

**PLUS 2500** STANDARD BOOM

REX BOOM

15 m 18 m 20 m 21 m 24 m



REX boom with separate unfolding and boom tilting cylinder – available in the option.

PLUS	1600	2000	2500
Tank volume (l)	1 600	2 000	2 500
Operating width standard boom (m)	15/18	15/18/20/21	18/20/21
Operating width REX boom (m)	—	15/18/20/21/24	18/20/21/24
Number of sections in boom fluid system	5; 7 for 24 m width		
Boom lifting scope (m)	0.5-2.3		
Boom control	hydraulic – 2 pairs of hoses / elektrohydraulic – 1 pair		
Pump	ZETA 170	ZETA 260	
Wheel track (m)	1,35-1,1,80	1,5-2,0	
Transport dimensions (length / width / height) (m)	4,4-5,1 / 2,5 / 3,2	5,0-5,7 / 2,5 / 3,2-3,3	
Power demand [KM]	60	80	
Weight [kg]	1 430	1 960	2 120

## \* RECOMMENDED MANUFACTURER'S OPTIONS:

- » SPRAY computer
- » Solenoid valve for 15-21 m 5-section booms/for 24 m 7-section booms
- » Boom tilting cylinder /for standard boom/
- » Electrohydraulic boom unfolding /separate/ with REX boom tilting cylinder/
- » Lateral ejector water diluter
- » Four-position heads with spraying nozzles for 15/18/20/21 m standard boom
- » Three-position heads with spraying nozzles for 15/18/20/21/24 m REX boom



# EUROPA

trailed field sprayers, hydraulically unfolded and mounted booms



EUROPA 3024



Perfect stabilisation system for every condition  
– rubber elements to ensure maximal shock damping.



Lifting system on a quadrangle with hydraulic shock absorption of the boom. Spray nozzles protected by boom structure.

## STANDARD EQUIPMENT

- » Main tank: 2500, 3000, 4000 l, polyester
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » Spin washers of the main tank
- » Upper rigid drawbar with fi 40 eye
- » Lateral ejector water diluter
- » ZETA 300 membrane-piston pump
- » Solenoid valve with operating pressure display, electrically controlled from tractor cabin
- » Hydraulically (symmetrically) unfolded booms – 2 pairs of hoses
- » Hydraulic boom lifting to 2.3m with hydraulic shock absorbance
- » Stabilisation system – pendulous with shock absorbance
- » Correction of boom tilting – manual
- » Fluid system: ½" acid resistant steel, spraying nozzles in 50 cm intervals
- » Axle with infinitely variable wheel track: 1.8-2.25 m
- » Land wheels 18.4 R38
- » Double-circuit pneumatic brake system with parking brake
- » Road lighting
- » Boom section filters

## PRICE WITH STANDARD EQUIPMENT

**EUROPA 2500**

**EUROPA 3000**

**EUROPA 4000**

18 m    20 m    21 m    24 m    27 m    28 m

## PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

**EUROPA 2500**

**EUROPA 3000**

**EUROPA 4000**

18 m    20 m    21 m    24 m    27 m    28 m

EUROPA	2500	3000	4000
Tank volume (l)	2500	3000	4000
Operating width (m)	18 / 20 / 21 / 24 / 27 / 28		
Number of sections in boom fluid system	5; 7 for 24 / 27 / 28 m width		
Boom lifting scope (m)	0,5–2,3		
Boom control	hydraulic – 2 pairs of hoses / elektrohydraulic – 1 pair		
Pump	ZETA 300		
Wheel track (m)	1,8–2,25		
Transport dimensions (length / width / height) [m]	5,9–7,2 / 2,65 / 3,2–3,8		7–7,4 / 2,65 / 3,2–3,8
Power demand [KM]	80		90
Weight [kg]	3 280	3 340	3 520

## \* RECOMMENDED MANUFACTURER'S OPTIONS:

- » SPRAY computer
- » Electrohydraulic boom unfolding (separate) with boom tilting cylinder
- » Semi-automatic tracking drawbar
- » Axle pneumatic shock absorption
- » Four-position heads with spraying nozzles
- » 13.6 R 48 wheels
- » Mudguards

# EUROPA premium



trailed field sprayers, hydraulically unfolded and mounted booms



EUROPA premium 4024



Complex pendulous boom stabilisation system with additional shock absorption in horizontal and vertical plane – supported with shock absorbers.



Spatial design of the boom guarantees high rigidity and mechanical protection of heads and spraying nozzles.

## STANDARD EQUIPMENT

- » Main tank: 4200, 5800 l – polyester
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » Spin washers of the main tank
- » Rigid drawbar – with shock absorption – upper ø40 for 4200 l – lower ø50 for 5800 l
- » Lateral ejector water diluter
- » RO 400 membrane-piston pump
- » Solenoid valve with electronic operating pressure display, electrically controlled from tractor cabin
- » Boom section filters
- » Electrohydraulically symmetrically unfolded field booms with boom tilting cylinder (one pair of hoses)
- » Mudguards
- » Axle pneumatic shock absorbance
- » Road lighting
- » Hydraulic boom lifting to 2.5 m with hydraulic absorption
- » Pendulous stabilisation system with shock absorption
- » Fluid system: ½" acid-resistant steel, spraying nozzles in 50 cm intervals
- » One-position heads in 50 cm intervals
- » Axle with infinitely variable wheel track: – 1.8÷2.25 m for 4000 l
- » Rigid axle with wheel track: 2 or 2.25 m for 6000 l
- » Wheels: 18.4 R 38 for 4000 l and 580/70 R38 for 6000 l
- » Two-circuit pneumatic brake system with parking brake

## PRICE WITH STANDARD EQUIPMENT

**EUROPA premium 4000**

**EUROPA premium 6000**

24 m 27 m 28 m 36 m

## PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

**EUROPA premium 4000**

**EUROPA premium 6000**

24 m 27 m 28 m 36 m

EUROPA premium	4200	5800
Tank volume (l)	4200	5800
Operating width (m)	24 / 27 / 28 / 36	
Number of sections in boom fluid system	7	
Boom lifting scope (m)	0.5–2.5	
Boom control	elektrohydraulic – 1 pair	
Pump	RO 400	
Wheel track	1.8–2.25	2 or 2.25
Transport dimensions (length / width / height) (m)	7.0 / 2.6–2.8 / 3.2	
Power demand (HP)	120	150
Weight (kg)	4 450	4 550

## \* RECOMMENDED MANUFACTURER'S OPTIONS:

- » UTS computer
- » Four-position heads with spray nozzles
- » Distance control
- » AXIS control

ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

transport

PLANT PROTECTION



# OPTIONAL ACCESSORIES

## Optional accessories – added to the standard version

Sprayer type	EKO mounted	LUX mounted	REX mounted	PLUS trailed	EUROPA trailed	EUROPA premium trailed
<b>ACCESSORIES – FLUID SYSTEM OPTIONS</b>						
Three-chamber tank (600 l)	130	—	—	—	—	—
Three-chamber tank (800 l)	580	—	—	—	—	—
Spin washer of the main tank	70	70	70	+	+	+
ZETA 140 pump	180	—	—	—	—	—
2 x ZETA 260 (520 l/min) combined pumps	—	—	—	—	—	1 090 (for 5800 l volume)
ZTS manual (constant pressure) control valve on the boom	250	250	250	<sup>1</sup> + (with link control unit)	—	—
Solenoid valve with pressure reading on pressure gauge (for booms to 21 m – 5 sections)	2 000 (only for 800 l, 1000 l 3-chamber)	2 000 (only for 800 l and 1000 l)	2 000	2 000	+	—
Solenoid valve with pressure reading on pressure gauge (for booms from 24 m – 7 sections)	—	—	2 600	2 600 (with REX boom)	+	+
Electronic display of operating pressure on control panel in the cab (instead of pressure gauge)	280	280	280	280	+	+
Extension of 5/7 or 7/9 fluid system with 2 other sections (available with a computer) UTS, does not apply to EDS)	—	—	—	—	650	650
Lateral ejector water diluter	—	590 (for 800 l 1000 l)	590	590	+	+
<b>COMPUTER OPTIONS</b>						
SPRAY computer (requires solenoid valve)	2 000 (for 800 l and 1000 l 3-chamber)	2 000 (for 800 l and 1000 l)	2 000	2 000	2 000	2 000
Tractor/SPRAY computer cable	160	160	160	—	—	—
NAVI – GPS with SECTION CONTROL and TRACK LEADER II functions (parallel driving) – requires SPRAY computer	—	6 000	6 000	6 000	6 000	6 000
UTS computer (requires electrohydraulic boom unfolding)	—	—	—	—	6 850	6 850
GPS with SECTION CONTROL and TRACK LEADER II functions (parallel drive) – requires UTS computer	—	—	—	—	3 700	3 700
EDS – automatic deactivation of particular spray nozzles by GPS with fluid circulation on field boom) requires UTS computer with GPS with SECTION CONTROL and TRACK LEADER II functions	—	—	—	—	—	8 950 – 24m, 10 250 – 27m, 10 350 – 28 m, 13 200 – 36 m
LICHTBAR – driving direction indicator (requires TRACK LEADER II and UTS computer)	—	—	—	—	750	750
S-BOX – control panel for individual and quick control of any spraying sections (requires UTS computer)	—	—	—	—	360	360
Holder with suction cup for mounting on controller/computer glass	110	110	110	110	110	110
<b>FIELD BOOM OPTIONS</b>						
Boom tilting cylinder	—	330	330	330	330	+
Boom lifting cylinder	270 (for booms 12/15 with 3 chamber tank)	+	+	+	+	+
Boom with fluid system, made of acid-resistant piping with 1-position heads	210 for 12 m 390 for 15 m	+	+	+	+	+
Electrohydraulic boom unfolding (separate) with boom tilting cylinder (1 pair of hoses). For EUROPA premium – symmetrically unfolded with tilting cylinder.	—	—	1 700	1 700	1 700	+
Distance control – requires UTS computer	—	—	—	—	1 600	1 600
R – system (operating width reduction by partial folding of 28/21 m, 27/21 m, 24/18 m, 21/15 m and 18/12 m booms – requires UTS computer	—	—	—	—	1 400	—
Boom section filters ( for booms to 21 m – 5 sections)	—	80	80	+	+	—
Boom section filters (for booms from 24 m – 7 sections)	—	—	110	+	+	+
<b>DRAWBAR OPTIONS</b>						
Rigid drawbar for the Lower hitch, with fi 50 eye (for 2000 l/2500 l)	—	—	—	–310 reduce price	—	—
Semi-automatic, tracking drawbar, requires SPRAY computer and electrohydraulic boom unfolding	—	—	—	1 750 (for 2000 l and 2500 l)	1 750	—
Automatic tracking drawbar, requires UTS computer and electrohydraulic boom unfolding	—	—	—	—	2 950	—
Steerable drawbar with hitch rings	—	—	—	– 310 reduce price	—	—



# OPTIONAL ACCESSORIES

Sprayer type	EKO mounted	LUX mounted	REX mounted	PLUS trailed	EUROPA trailed	EUROPA premium trailed
<b>AXLE OPTIONS</b>						
Axle pneumatic shock absorption	—	—	—	—	3 150	+
Steerable axle (requires UTS computer) wheels – 18.4 R 38, wheel track 2 or 2.25 m for 4000 l wheels – 580/70 R 38 wheel track 2.25 m for 4000 and 6000 l wheels – 14.9R 46 wheel track 2 or 2.25 m for 4000 and 6000 l	—	—	—	—	—	4 250
Wheels – 11.2X42 (for PLUS 2000/2500)	—	—	—	270	—	—
Wheels – 11.2 R 48 (for EUROPA 2500/3000)	—	—	—	—	40	—
Wheels –11.2 R 54 (for EUROPA 2500/3000)	—	—	—	—	1 010	—
Wheels – 13.6 R 48 (for EUROPA 2500/3000/4000)	—	—	—	—	330	—
Wheels – 14.9 R 46 ( for EUROPA premium 4000)	—	—	—	—	—	2 200
Wheels – 14.9 R 46 (for EUROPA premium 6000)	—	—	—	—	—	310
Wheels – 580/70 R 38 (for EUROPA premium 4000)	—	—	—	—	—	1 950
Mudguards	+	+	+	840	840	+

(—) not available, (+) available in standard, net prices in EUR

## Additional accessories – added to standard version

Sprayer type	EKO mounted	LUX mounted	REX mounted	PLUS trailed	EUROPA trailed	EUROPA premium trailed
Foam marker + concentrate 5l	690	690	690	690	690	690
Road lighting	130	130	130	130	+	+
Night lighting	—	—	240	240	240	240
Oil for membrane pumps – 1 l	10	10	10	10	10	10
Protection set – 1 piece	70	70	70	70	70	70
WOM shaft	80	80	80	350 (wide angle) 80 (for steerable drawbar)	350 wide angle	350 wide angle
6 m hose for tank filling	100	100	100	100	100	100
Hydrant connection for filling	—	180 (for 800 l and 1000 l)	180	180	180	180
Pressure lance with drum	—	160 (for 800 l and 1000 l)	160	—	—	—
Rolling wheels for sprayer transport	160 (for 800 l, 1000 l, 3-chamber)	160 (for 800 l and 1000 l)	160	—	—	—

(—) not available, (+) available in standard, net prices in EUR

## Heads – all sprayer types, added to standard version

BOOM WIDTH m	Sprayer type	BOOM WIDTH								
		12 m	15 m	18 m	20 m	21 m	24 m	27 m	28 m	36 m
3-position heads with spray nozzles (for boom on pipes)	EKO with boom on pipes, LUX, REX, PLUS with REX boom,	290	360	430	480	500	570	—	—	—
4-position heads with spray nozzles (for boom on pipes)	PLUS with standard boom, EUROPA, EUROPA premium	—	470	560	620	650	750	840	870	1 120
4-position heads with spray nozzles (for boom on PVC hoses)	EKO	250	310	380	—	—	—	—	—	—

net prices in EUR/set of heads with spray nozzles per boom

## Spray nozzles – all sprayer types

Sprayer type	Boom width								
	12 m	15 m	18 m	20 m	21 m	24 m	27 m	28 m	36 m
Lu 120-0,3 C lub Lu 120-0,4 C lub Lu 120-0,5 C	120	150	180	200	210	240	270	270	350
ID 120-0,3 C lub ID 120-0,4 C	260	320	390	430	450	510	580	590	760
IDK 120-0,3 C	230	280	340	380	400	450	510	530	670
IDKT 0,3 C lub IDKT 0,4 C	350	440	520	580	610	690	780	810	1 040
FD 0,4 lub FD 0,5	260	320	390	430	450	510	580	590	760

Net prices in EUR/1 set of spray nozzles

**Lu** – universal, flat-stream, slot nozzle  
**ID** – flat-stream ejector nozzle  
**IDK** – compact, flat-stream ejector  
 nozzle **IDKT** – compact, ejector,  
 double-stream nozzle  
**FD** – fan-shaped nozzle for RSM  
**C** – ceramic nozzle  
**120** – fluid stream angle  
**0.3, 0.4, 0.5** – nozzle size



# Extra-charged options – computers



## SPRAY COMPUTER

Automatic spraying dose control, regardless of driving speed.  
For tanks 800 l – three-chamber.  
Requires solenoid valve.

*EKO, LUX, REX, PLUS, EUROPA, EUROPA premium*



## UTS COMPUTER

Automatic spraying dose control, regardless of driving speed.  
Joystick control of main sprayer functions.  
Requires solenoid valve + electrohydraulic boom control.  
ISOBUS.

*EUROPA, EUROPA premium*



## NAVI-GPS

Enables automatic activation of boom sections and drawing virtual driving routes vs GPS signals, both in mounted and trailed sprayers. Its advantage is a quick and easy connection to the SPRAY computer in order to share navigation with other machines, such as cultivators or fertiliser spreaders.

Exclusively for SPRAY computer.

*EKO, LUX, REX, PLUS, EUROPA, EUROPA premium*



## S-BOX

Control panel for individual and quick control of any spraying sections.

*For UTS computer*



## ADAPTER CABLE: SPEED SENSOR – TRACTOR/ SPRAY COMPUTER

Adapter cable is used exclusively for mounted sprayers, allowing non-colliding connection of the sprayer computer with the tractor speed sensor. Exclusively for SPRAY computer.

*EKO, LUX, REX*



## LIGHTBAR

Additional driving direction indicator (LED), mounted with a suction cup on tractor's windscreen, allowing the operator to keep appropriate driving direction.

Supports TRACK Leader II function.

*For UTS computer*

# Extra-charge options – other



## FOAM MARKER

Foaming device of 20 l volume, which marks the trail with foam, left on soil or plants. The deposited foam visually protects against subsequent spraying.



## NIGHT LIGHTING

An additional lighting set, mounted on the field boom and above the water diluter, allows for safe work even at night.

# Extra-charged options – drawbars, axle, wheels



## RIGID DRAWBAR FOR LOWER HOOK EYE

With hook eye ø50.  
Exclusively for PLUS 2000 and 2500.

PLUS 2000, 2500



## STEERABLE DRAWBAR

Exclusively for PLUS 1600.

PLUS 1600



## SEMI-AUTOMATIC TRACKING DRAWBAR

Semi-automatic drawbar enables automatic copying of tractor tracks in row crops and manual switch to the, so-called "dog's walk".

Requires SPRAY computer and electrohydraulic boom unfolding.  
Not applicable for PLUS 1600.

PLUS 2000, 2500, EUROPA



## AUTOMATIC DRAWBAR

Automatic drawbar enables automatic copying of tractor tracks in row crops and automatic or manual switch to the, so-called "dog's walk".

Requires UTS computer and electrohydraulic boom unfolding.

EUROPA



## STEERABLE AXLE

Automatically controlled axle, copying tractor tracks.

Requires UTS computer.

EUROPA premium



## AXLE PNEUMATIC SHOCK ABSORPTION

Pneumatic shock absorption of the axles improves comfort during fast drives.

In the field environment, it effectively absorbs vibrations transferred onto field boom.

EUROPA



## MUDGUARDS

Protect boom fluid system against contamination.

PLUS, EUROPA



## ROLLING WHEELS

Tractor-mounted sprayers may have additional, robust, transport wheels mounted, facilitating empty sprayer handling on paved surface, e.g. when aggregating with tractor.

For tanks 800 l (3-chamber).

EKO, LUX, REX

ploughs

cultivators

seeding equipment

combination seed drills

mowers

rakes

Baler/wrapper combination

bale wrappers

mineral fertilization

manure fertilization

potato technology

transport

PLANT PROTECTION



# SLEZA

orchard sprayers



SLEZA 1500 DUET



## OKTOPUS tube attachment

- » Application: for bushes (currants, raspberry, blueberry), orchards
- » Number of spraying heads: 8 or 10
- » Fan diameter: 17"
- » Number of speeds: 2
- » Radial fan

## STANDARD EQUIPMENT

- » Main tank 1000l
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » Water diluter in main tank inlet
- » External ejector device for application of chemical agents
- » OMEGA 135 membrane-piston pump
- » Manual control valve
- » Fan attachment: round or column
- » Rigid drawbar
- » 10 x 15" wheels
- » Manual control valve



## Fan attachment ø800 PILMET

- » Application: for traditional orchards
- » Number of spraying heads: 16
- » Fan diameter: 32"
- » Number of speeds: 2
- » Max fan capacity: 45 000 m³/h



## DUET column attachment (two coaxial, backward fans)

- » Application: for high plantings
- » Number of spraying heads: 16
- » Fan diameter: 32"
- » Number of speeds: 2
- » Max fan capacity: 43 000 m³/h

## PRICE WITH STANDARD EQUIPMENT

### SLEZA 1000

ø800 Pilmot	ø900 Chmiel	ø800 OC	CD plus	Duet	Oktopus 8	Oktopus 10
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## PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

### SLEZA 1000

ø800 Pilmot	ø900 Chmiel	ø800 OC	CD plus	Duet	Oktopus 8	Oktopus 10
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## \* RECOMMENDED MANUFACTURER'S OPTIONS:

- » Tank of 1500 l
- » Solenoid valve with electronic pressure display in the cab
- » Wheels: 11.5/80-15.3 (for 1500/2000 l)
- » Steerable drawbar

Type of attachment	SLEZA						
	ø800 Pilmet	ø900 Chmiel	ø800 OC	CD PLUS	DUET	Oktopus 8	Oktopus 10
Attachment type	round			column		pipe	
Main tank volume (l)	1 000/1 500/2 000						
Pump	Omega 135						
Length	3,1 / 3,5 / 3,9	3,2 / 3,7 / 4,2	3,1 / 3,5 / 3,9	3,5 / 3,7 / 4,2	3,2 / 3,7 / 4,2	3,2 / 3,5 / 3,9	3,2 / 3,5 / 3,9
Width	1,2 / 1,3 / 1,45	1,2 / 1,3 / 1,45	1,2 / 1,3 / 1,45	1,4 / 1,4 / 1,45	1,3 / 1,3 / 1,45	1,3 / 1,3 / 1,45	1,3 / 1,3 / 1,45
Height	1,5 / 1,5 / 1,6	1,5 / 1,5 / 1,6	1,5 / 1,5 / 1,6	2,4 / 2,4 / 2,5	2,1 / 2,1 / 2,2	2,4 / 2,4 / 2,5	2,4 / 2,4 / 2,5
Power demand (KM)	45	55	50	45	55	45	
Weight (kg)	670	670	670	690	695	665	670

# NYSA 600, 1500, 2000

vegetable sprayers



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NYSA 600



NYSA 2000 trailed sprayer with 2000 l tank.

## STANDARD EQUIPMENT

- » Main tank 600 l, 1500 l polyethylene
- » Tank with clean water for gear rinsing
- » Tank with clean water for hand washing
- » Membrane-piston pump:
  - KAPPA 75 – 600 l
  - OMEGA 135 – 1500 l
- » Water diluter in main tank inlet
- » Manual control valve
- » Field boom 10 m:
  - manually unfolded with 10 adjusted diffusers (600 l)
  - hydraulically lifted and unfolded, With tilting cylinder, with 10 adjusted diffusers (1500 l)
- » Two-position heads with spray nozzles
- » Manual boom lifting to 1.7 m (600 l)
- » Hydraulic lifting to 1.4 m (1500 l)
- » Trapezoid stabilisation system
- » Rigid drawbar (1500 l)
- » Wheels: 11.2 x 24 (1500 l)
- » Infinitely variable wheel track 1.5–1.8 m (1500 l)



Centrifugal fan, supporting the sprayed stream.

## PRICE WITH STANDARD EQUIPMENT

10 m

### NYSA 600 – mounted

### NYSA 1500 – trailed

## PRICE WITH RECOMMENDED MANUFACTURER'S OPTIONS\*

10 m

### NYSA 1500 – trailed

## \*RECOMMENDED MANUFACTURER'S OPTIONS:

- » Steerable drawbar
- » Solenoid valve with electronic pressure display in the cab

NYSA		600 mounted	1500 trailed
Type of attachment		pipe	pipe
Tank volume (l)		600	1500
Number of diffusers (pcs)		10	10
Operating width (m)		10	10
Pump		KAPPA 75	OMEGA 135
Wheel track (m)		—	1,5–1,8
Transport dimensions (m)	length	2,40	4,5
	width	2,70	2,5
	height	2,00	2,9
Power demand (HP)		80	70
Weight (kg)		420	1010



Fan drive is directly received from the shaft of the sprayer pump.



Diffusers are mounted loose on the field boom, allowing to tailor their configuration to individual user's needs.



# OPTIONAL ACCESSORIES

Sprayer type	SLEZA trailed	NYSA 1500 trailed	NYSA 600 mounted
<b>FLUID SYSTEM OPTIONS</b>			
Tank 1500 l	1 000	—	—
Tank 2000 l	1 110	110	—
Manual valve with electric control of sections and pressure reading on a pressure gauge on the valve body	360	360	—
Solenoid valve with pressure reading on a pressure gauge in the cab	670	—	—
Solenoid valve with electronic pressure display in the cab	1 090	1 090	—
<b>AXLE OPTIONS</b>			
Wheels: 11.5/80-15.3 (for 1500 l and 2000 l)	100	—	—
<b>DRAWBAR OPTIONS</b>			
Steerable drawbar	280	280	—
<b>OTHER OPTIONS</b>			
Road lighting	110	110	110
Fan guard (for PILMET, CHMIEL attachments)	50	—	—
Oil for membrane pumps – 1 l	10	10	10
Protection set – 1 pcs	70	70	70
PTO shaft (for rigid drawbar and NYSA 600)	140	140	140
Wide angle PTO shaft (for steerable drawbar)	410	410	—
6 m hose for tank filling	100	100	100
Hydrant connection for filling	180	180	180

(—) not available, (+) available in standard, net prices in EUR



## ELECTRICALLY CONTROLLED, PROPORTIONAL SOLENOID VALVE WITH PRESSURE READING ON A PRESSURE GAUGE

A solenoid valve, enabling remote control – from the tractor cab – of all the functions (spraying control, section control, operating pressure adjustments) and reading of the operating pressure from a pressure gauge on the control panel

SLEZA



## ELECTRICALLY CONTROLLED, PROPORTIONAL SOLENOID VALVE WITH ELECTRONIC PRESSURE DISPLAY

A solenoid valve, enabling remote control – from the tractor cab – of all the functions (spraying control, section control, operating pressure adjustments) and reading of the operating pressure from electronic LCD monitor on the control panel.

SLEZA / NYSA 1500, 2000



## MANUAL VALVE, ELECTRICALLY CONTROLLED SECTIONS WITH PRESSURE COMPENSATION

Section control is available via buttons on the control panel. Operating pressure can be set with a manual valve. Pressure control is based on pressure reading from a closely located pressure gauge.

SLEZA / NYSA 1500, 2000



## FAN GUARD

Rubber guard protecting the fan from suction of leaves. Only for Pilmet and Chmiel attachments.

SLEZA Pilmet and Chmiel



## STEERABLE DRAWBAR – SLEZA

SLEZA



## STEERABLE DRAWBAR

NYSA 1500/2000

# AGROPOL



agricultural forklift gear, mounted on tractor's back, designed for handling operations in agricultural farms, as well as in pomiculture and vegetable farming



AGROPOL XL

## STANDARD EQUIPMENT

- » massive stable mast: AGROPOL L – 180 cm high, AGROPLO XL – 270 cm high
- » chain drive
- » folded fork
- » three-point hitch

## PRICE

### AGROPOL L

### AGROPOL L + TILT

### AGROPOL L + SHIFT

### AGROPOL L + TILT + SHIFT

### AGROPOL XL

### AGROPOL XL + TILT

### AGROPOL XL + SHIFT

### AGROPOL XL + TILT + SHIFT

## EXTRA-CHARGED OPTIONS

Turntable for pallet-crates

AGROPOL	L	XL
Lifting height [cm]	180	270
Max. load capacity [kg]	1400	1200
Height of the structure [cm]	205	211
Kerb weight [kg]	190	270
Power demand [HP]	40	40
Side shift – option [cm]	18	18
Mast tilting – option [°]	12	12



### Lateral shift

Lateral shift cylinder provides 18 cm shift range.



### Mast tilting

Linking screw replacement with hydraulic cylinder enables mast tilting of 12 degrees.



### Turntable for pallet-crates

XL version may additionally be equipped with a device for pallet-crate turning.



### Transport position

While in transport, the lift fork is set upwards into vertical position, thus allowing for truck manoeuvring on public roads.

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# ZUK

earth drills, universal gear for vertical hole drilling tasks



## STANDARD EQUIPMENT

- » PTO shaft
- » Rigid structure without shifting/setting options
- » Angular transmission without drill
- » Three-point suspension system
- » Supports for grill removal

## PRICE

**ZUK S**

**ZUK H**

## EXTRA-CHARGED OPTIONS

120 mm drill
200 mm drill
300 mm drill
450 mm drill
600 mm drill

ZUK	S	H
Weight [kg]	200	230
Max. drilling depth [cm]	100	
Drill diameter [mm]	120/ 200/ 300/ 450/ 600	
Power demand [KM]	40	40

## Drills

Available diameters from 120 to 600 mm.



### Hydraulic shift

Hydraulic cylinder enables drill resetting vs tractor axis.





CULTIVATING MACHINERY



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SEEDING EQUIPMENT

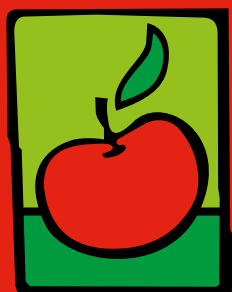


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