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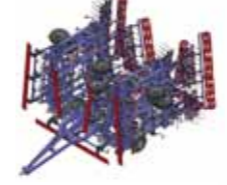

MADARA
AGRO


PRODUCTS CATALOGUE

2019 - 2020



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DISC HARROW X-OFFSET TRAILED,

- Machine Type: Heavy duty disc harrows - disc plough.
- Usage: Swift, low cost stubble cultivation and seed bed preparation.
- Operating components:
- 2 rows of grooved discs Ø 510 mm;
 - hydraulic controlled rear cage leveling roller.

Series BD

- Securing: Ridged squire frame made of special profile 200 x 100. The frame is produced by using high elasticity steel.
- Labouring operations: Intensive treatment of soil at a pre-selected work depth (by the depth controlling mechanism), uniform mixing of vegetal residue, crumbling of clods on the surface, leveling.

MASTER

Technical characteristic		BD 048	BD 058	BD 068
Power requirement	HP	180 – 200	210 – 240	250 – 300
Working width	m	4,8	5,8	6,8
Transport width	m		2,50	
Transport height	m		1,84	
Transport length	m	8,36	8,82	9,28
Work bodies	Disc diameter	mm	660	
	Number of discs	pcs	40 (2 x 20)	48 (2 x 24)
	Disc spacing	cm		23
Operational speed	km/h		8 – 15	
Working depth	cm		5 – 27	
Working angles	deg		front 0...20 ; rear 8...28	
Tire size		400 / 60 – 15,5" 14PR	500 / 50 – 17" 18PR	
Tractor linkage		Drawbar eye Ø 50 mm for bolt Ø 40 mm (Lower link arms Cat.III or K700 on request)		
Machine weight	t	4,3	5,3	5,8
Reconsolidation and leveling units	options	VT 5	VT 6	VT 7
Rear cage roller VTU 560 (Ø560)	m	5,0 (2 x 2,5)	6,0 (2 x 3,0)	7,0 (2 x 3,5)



DISC HARROW V-OFFSET TRAILED,

Series BDV

HECTOR

- Machine Type: Disc harrows.
- Usage: Swift, low cost stubble cultivation and seedbed preparation.
- Operating components: - 2 rows discs Ø 610 x 6 mm;
- rear cage leveling roller.

- Securing: Rigid one-piece steel frame 200x100 mm, made of high elastic steel.
- Labouring operations: Intensive treatment at the selected depth (depth control unit), uniform mixing of vegetal residue, crumbling of clods on the surface, leveling.

Technical characteristic		BDV 025	BDV 030	BDV 035	BDV 040
Power requirement	HP	80 – 100	100 – 120	120 – 140	140 – 160
Working width	m	2,5	3,0	3,5	3,9
Transport width	m	2,70	3,40	3,60	4,20
Transport height	m			1,50	
Transport length	m			6,30	
Work bodies	Disc diameter	mm		610	
	Number of discs	pcs	24 (2 x 12)	28 (2 x 14)	32 (2 x 16)
	Discs spacing	cm		23	
Operational speed	km / h			8 – 15	
Working depth	cm			2 – 18	
Working angles	deg			11 – 23	
Tire size, chassis			10,0 / 75 – 15,3" 14PR		
Tractor linkage			Drawbar eye Ø 50 mm for bolt Ø 40 mm		
Machine weight	t	2,2	2,4	2,7	2,9
Reconsolidation and leveling units	options	VT 2,5	VT 3,0	VT 3,5	-
Cage roller VTU 460 (Ø460)	m	2,50	3,00	3,50	-



BDV 035 with tine harrow



BDV 030



BDV 035 with VT 3,5



Agle controlling unit

DISC HARROW COMPACT MOUNTED,

- Machine Type: Mounted disc cultivator (Compact Harrow).
Usage: Swift, low cost stubble cultivation, seedbed preparation.
Operating components: - 2 rows of discs Ø 460 - 530 mm;
 - universal real and interchangeable rollers.

Series KDB

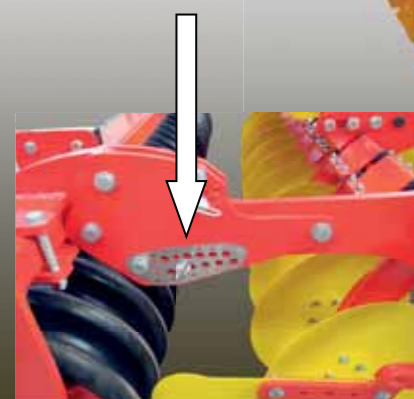
- Securing: Individual rubber segments.
Labouring operations: Loosening of the surface layer, cutting vegetal remnants, uniform mixing of vegetal remnants, disruption of capillarity, settlement and compaction.

PRINCESS

Technical characteristic		Mounted		
		KDB 2520	KDB 3020	KDB 3520
Power requirement	HP	80 - 120	100 - 165	120 - 160
Working width	m	2,6	3,0	3,5
Transport width	m	2,5	3,0	3,5
Transport height	m		1,45	
Transport length	m		2,60	
Work bodies	Disc diameter		460 - 510 - 530	
	Number of discs	18 (2x9)	22 (2x11)	26 (2x13)
	Disc spacing		25	
Operational speed	km / h		12 - 18	
Working depth	cm		3 - 15	
Tire size, chassis			-	
Tractor linkage			3 Point Hitch Cat. III	
Machine weight *	t	1,63	1,88	2,16
Reconsolidation and leveling units **	options			
Type	Double disc VDD (Ø550)			
	Rubber roller VGP (Ø570)			3,5
	Cage roller VTU (Ø560)		3,0	
	U - Ring GVP (Ø 500)	2,5		nu
	Tubular / flat bars			3,5
	Additional weights	kg	400	400

* with roller rubber rings VGP
 ** for adjusting of machine working depth

KDB 3020 control cultivating depth unit



KDB 3020 without roller



KDB 3020 with roller VGP



KDB 3020 with VGP



DISC CULTIVATOR (HARROW),

Machine Type: Disc cultivator (Disc Compact Harrow).

Usage: Swift, low cost stubble cultivation, seedbed preparation.

Operating components: - 2 rows of discs Ø 460 - 530 mm;
- universal real and interchangeable rollers.

Series KDB

Securing: Individual rubber segments.

Labouring operations: Loosening of the surface layer, cutting vegetal remnants, uniform mixing of vegetal remnants, disruption of capillarity, settlement and compaction.

PRINCESS

Technical characteristic		Mounted			Trailed				
		KDB 511	KDB 611	KDB 3019 P NEW	KDB 413 P	KDB 511 P	KDB 611 P	KDB 80 P	KDB120 P
Power requirement	HP	150 - 200	180 - 240	90 - 120	120 - 160	150 - 200	180 - 240	240 - 320	450 - 550
Working width	m	5,0	6,0	3,0	4,00	5,0	6,00	8,00	12,00
Transport width	m		2,95	3,40	2,45		2,95	3,96	3,50
Transport height	m		1,70	2,20	2,80		3,90	3,80 / 4,15***	4,50
Transport length	m		2,70		6,30		5,30	5,90	8,40
Work bodies	Disc diameter	mm 460 - 510 - 530							
	Number of discs	40 (2x20)	48 (2x24)	24 (2x12)	32 (2x16)	40 (2x20)	48 (2x24)	60 (2x30)	96 (2x48)
	Disc spacing	cm 25							
Operational speed	km / h	12 - 18							
Working depth	cm	3 - 15							
Tire size, chassis		-			10.0 / 75-15,3 14PR	11,5 / 80-15,3 16PR	400 / 60 - 15,5 18PR		500/50-17 18R
Tractor linkage		3 Point Hitch Cat. III			Lower link arms Cat. III (Cat. II or Cat. IIIIN on request)		Lower link arms Cat. III (Cat. IV, Cat. IVN or K700 on request)		Lower link arms Cat. IV (Cat. IVN on request)
Machine weight *	t	3,9	4,4	3,08	4,0	4,8	5,3	7,0	12,3
Reconsolidation and leveling units **	options								
Type	Double disc VDD (Ø550)								NR
	Rubber roller VGP (Ø570)	2 x 2,5		2 x 3,0	3,0	2 x 2,0	2 x 2,5	2 x 3,0	2,5 + 3,0 + 2,5 2,5+2,0+3,0+ 2,0+2,5
	Cage roller VTU (Ø560)	Not recommended (NR)							
	U - Ring GVP (Ø 500)					nu	nu	nu	nu

* with roller rubber rings VGP
** for adjusting of machine working depth
*** produced as KDB 80LH after 2019

KBD 611P with VGP in transport position



Double point attaching linkage



KBD 413P



KBD 611P



KBD 413P operating

DISC HARROW,

Series DK

NIGHTINGALE

Machine Type:

Disc cultivator (Harrow).

Usage:

Swift, low cost stubble cultivation, seedbed preparation.

Operating components:

- 2 rows of discs diameter Ø 620 mm;
- 2 rows clod crumbling tines diameter Ø 14 mm;
- foldable side working sections.

Securing:

Individual rubber segments. High wear-resistant steel Hardox® 450.

Labouring operations:

Loosening of the surface layer, cutting vegetal remnants, uniform mixing of vegetal remnants, disruption of capillarity, settlement and compaction.

Technical characteristic		Mounted		Trailed	
		DK 30	NEW	DK 50	NEW
Power requirement	HP	105 – 150		175 – 250	
Working width	m	3,00		5,60	
Transport width	m	3,00		3,00	
Transport height	m	1,57		3,60	
Transport length	m	3,52		7,60	
Work bodies	Disc diameter	620		620	
	Number of discs	28 (2 x 14)		40 (2 x 20)	
	Disc spacing	25		25	
Operational speed	km / h	12 – 18		12 – 18	
Working depth	cm	3 – 15		3 – 15	
Tire size, chassis		-		16,0 / 70 – 20"14 PR	
Tractor linkage		3 Point Hitch Cat. III		Lower link arms Cat. IIIN or III	
Machine weight	t	2,0		5,4	
Reconsolidation and leveling units		options			
Section	Clod crumbling tines with diameter of tines Ø 14 mm	pcs. 16		60	
	Tandem rear roller with tubes / flat bars	Tubes Ø 38 x 6 / flat bars 30 x 10		Tubes Ø 38 x 6 / flat bars 30 x 10	



DK 30

Three Point Hitch
Cat. III

Tubular roller
38 x 6 mm

Individual spring
protection

2 rows of discs with
diameter Ø 620 mm



DK 30
ready for
transport

DISC CULTIVATOR (HARROW) MOUNTED,

Machine Type: Mounted disc cultivator of short type (Harrow).

Usage: Swift, low cost cultivation between trees in orchards and vineyards.

Operating components: - 2 rows of grooved discs Ø 510 mm (notched and flat);
- rear roller with spring mechanism.

Series KDB

Securing:

Labouring operations:

CORMORAN

Individual rubber segments.

Loosening of the surface layer, cutting weeds between rows, uniform mixing of vegetal remnants and disruption of capillarity.

Technical characteristic		Mounted						
		KDB 014	KDB 016	KDB 018	KDB 020	KDB 022	KDB 024	KDB 026
Power requirement	HP	25 – 40	25 – 45	30 – 55	35 – 60	40 – 65	50 – 75	60 - 85
Working width	m	1,4	1,6	1,8	2,0	2,2	2,4	2,6
Transport width	m	1,6	1,8	2,06	2,27	2,52 / 2,2	2,82	3,0
Transport height	m	1,11						
Transport length	m	1,31 (1,98 with roller)						
Work bodies	Disc diameter	510						
	Number of discs	10 (2 x 5)	12 (2 x 6)	14 (2 x 7)	16 (2 x 8)	18 (2 x 9)	20 (2 x 10)	22 (2 x 11)
	Disc spacing	25						
Operational speed	km / h	up to 18						
Working depth	cm	3 – 12						
Tractor linkage		3 Point Hitch Cat. I or Cat. II						
Machine weight	t	0,418	0,479	0,540	0,585	0,640	0,745	0,967
Leveling units	options	VSH 1.4	VSH 1.6	VSH 1.8	VSH 2.0	VSH 2.2	VSH 2.4	VSH 2.6
Flat Bar Cage Roller Ø 326mm - L / weght	m / kg	1,4 / 92	1,6 / 101	1,8 / 110	2,0 / 133	2,2 / 140	2,4 / 151	2,6 / 158



KDB 020 with Flat Bar Cage Roller



KDB 018 without roller



KDB 014



KDB 016



DISC CULTIVATOR FOR LAVENDER MOUNTED,

Machine Type:

Mounted disc cultivator of short type (Harrow).
Swift, low cost cultivation of the lavender fields. High productivity and efficiency at the optimal cultivation of lavender row spacing.

Usage:

Operating components:

- 2 rows of grooved discs Ø 510 mm (notched and flat).

Series KDB / BDL

CORMORAN

Securing:

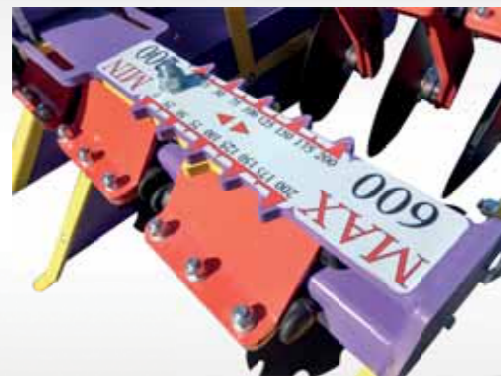
Individual rubber segments and both sides protectors.

Labouring operations:

Loosening of the surface layer, cutting weeds between rows. Uniform mixing of vegetal remnants and disruption of capillarity.

Technical characteristic		Mounted	
		KDB 022 LP	BDL NEW
Power requirement	HP	40 – 65	35 - 60
Working width *	m	2,2	1,92 – 2,42
Transport width *	m	2,2	1,92 – 2,42
Transport height	m		1,11
Transport length	m	1,31	-
Work bodies	Disc diameter	mm	510
	Number of discs	pcs	12 (2 x 6)
	Disc spacing	cm	25
Operational speed	km / h		pana la 18
Working depth	cm		3 – 12
Tractor linkage			3 Point Hitch Cat. I or Cat. II
Machine weight	t	0,505	0,670

* adjusting



BDL work width adjusting



KDB 022 L



KDB 022 LP



KDB 022 LP

DISC HARROW FOLDABLE MOUNTED,

Series BDS

CAPRICE

Machine type: Disc Harrows for the front and rear tractor Hitch

Usage: Innovative and effective technology for soil cultivation. Wavy form of the cultivation discs assures effective clod busting and excellent chopping of the vegetal residue.

Operating components - wavy form discs diameter Ø 560 mm, organized in two parallel rows on the machine.

Securing: Simplified and ridged and main frame. There are scrapers of the discs preventing them and machine from congestion and damage.

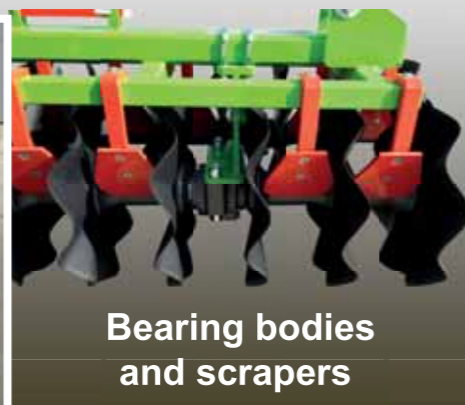
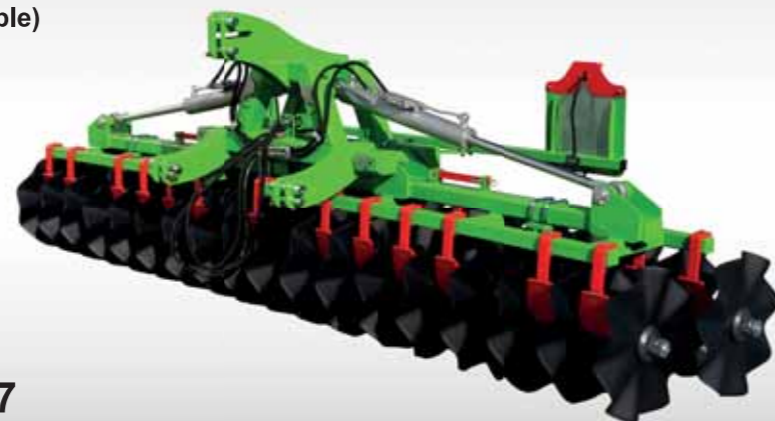
Labouring operations: Slices, crushes clods and compacting the soil. Optimal seed bed preparation as a result of the optimal tractor work balance and higher cultivation speed.

Technical characteristic		Mounted				
		BDC 307 *	BDS 407	BDS 507	BDS 607	
Power requirement	HP	60 – 80	80 – 100	90 – 110	100 – 120	
Working width	m	3,28	4,08	5,0	5,92	
Transport width	m	3,28	4,16	5,12	6,04	
Transport height	m	1,43	2,25	2,71	5,17	
Transport length	m			1,34		
Work bodies	Disc diameter	mm	560			
	Number of discs	pcs	28	36	44	52
	Disc spacing	cm	5,7			
Working speed	km / h	15 – 20				
Working depth	cm	20				
Tractor linkage		3 Point Hitch Cat. II or Cat. III				
Machine weight	t	1,31	1,65	1,99	2,29	

* with one piece beam (non-foldable)



BDS 407



Bearing bodies and scrapers



BDS in transport position

BDS in work position

STRAW HARROW PRECISE MOUNTED

Series BIN

SAVAGE

Machine Type: Tine harrow.

Usage: The perfect machine for aeration of 6-7 cm upper soil layer. Creates conditions for an optimal sowing bed.

Operating components: - 5 rows vibrating tines placed in 73 mm distance;
- wire diameter of tine elements - 16 mm.

Securing: Resilient monolithic frame without fixed tine elements without clogging and cause of damage and breakage.

Labouring operations: Spred and distribute evenly of the plant waste accumulated after harvest and surface soil cultivation.

Technical characteristic		Mounted		
		BIN 014 NEW	BIN 024 NEW	BIN 034 NEW
Power requirement	HP	20	40	50
Working width	m	1,4	2,4	3,4
Transport width	m	1,57	2,47	3,47
Transport height	m		1,09	
Transport length	m		1,31	
Work bodies	Length of the tine element		660	
	Number of tine elements	9	15	21
	Distance between tines		73	
Operational speed	km / h		15 – 25	
Working depth	cm		6 - 7	
Working angles	deg		0 - 27	
Tractor linkage			3 Point Hitch Cat. I, II or III.	
Main beam profile dimensions	mm		80 x 80	
Hydraulic adjustment of the depth wheels			no	
Machine weight	t	0,26	0,32	0,37

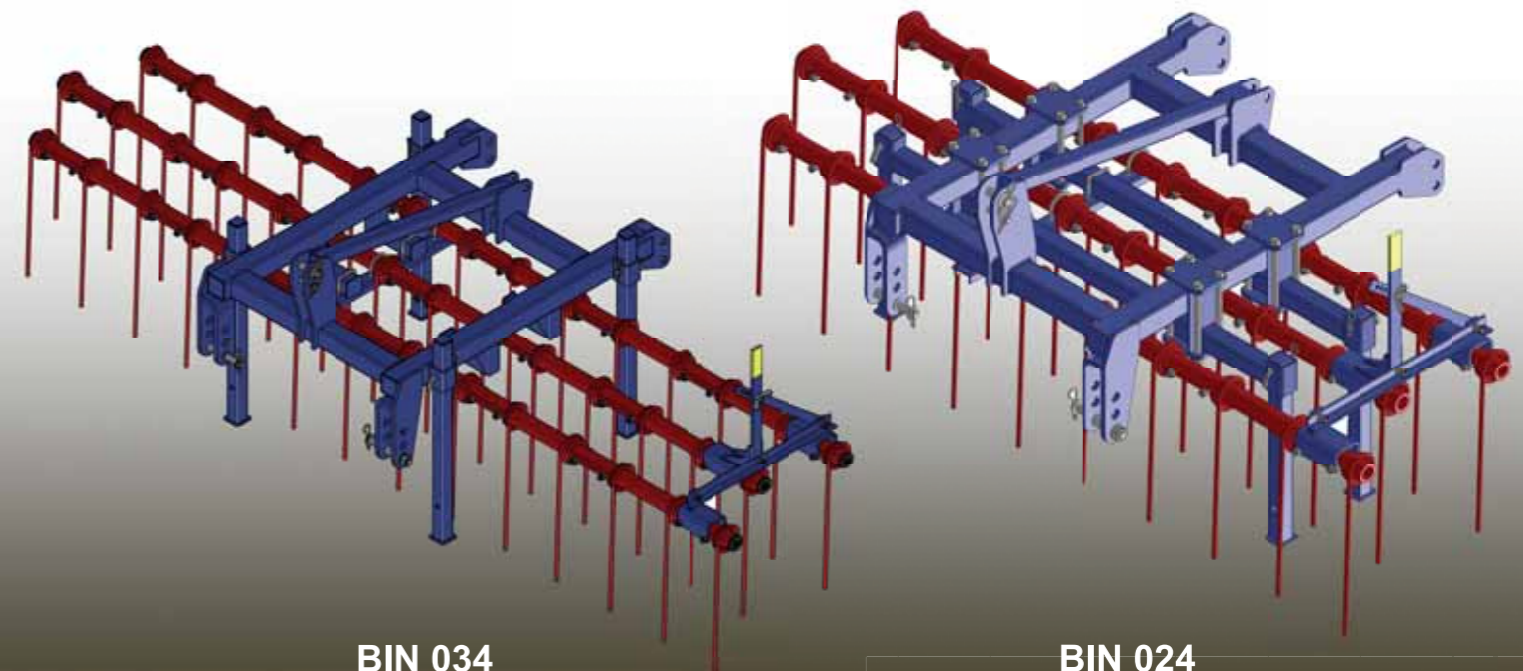
BIN 034 in work position



3 row, vibrating tines



BIN work tine



BIN 034

BIN 024

STRAW HARROW *PRICISE*,

Series BIP

SAVAGE

Machine Type:

Tine harrow.

Usage:

The perfect machine for aeration of 6-7 cm upper soil layer. Creates conditions for an optimal sowing bed.

Operating components:

- 5 rows vibrating tines placed in 61 mm distance;
- wire diameter of tine elements 16 mm.

Securing:

Resilient monolithic frame without fixed tine elements without clogging and cause of damage and breakage.

Labouring operations:

Intensive treatment with an extremely rapid rise in soil temperature, to maximally reach the optimum germination conditions.

Technical characteristic			Mounted		Trailed
			BIP 40	BIP 80	BIP 150
Power requirement	HP	60	150	300	
Working width	m	4 (3,8)	8 (7,62)	22 (22,8)	
Transport width	m	3,00	2,22	2,50	
Transport height	m		3,86	3,78	
Transport length	m		3,4	8,2	
Work bodies	Length of the tine element	mm		660	
	Number of tine elements	pcs	30	60	
	Distance between tines	mm		61	
Operational speed	km / h		15 – 25		
Working depth	cm		6 - 7		
Working angles	deg		11 – 23		
Wheels dimensions			front – 16,0 / 70 – 20” 18PR ; rear - 11,5 / 80 – 15,3” 16PR		
Tractor linkage			3 Point Hitch		
			Cat. I, II or III.	Cat. III	
Main beam profile dimensions	mm		150 x 150	200 x 200	
Hydraulic adjustment of the depth wheels			no	yes	
Machine weight	t	0,6		1,4	

5 rows vibrating tines



BIP 80



BIP work tine



BIP 150 in transport position



COMBINATOR MULTIFUNCTIONAL,

Series KMT

RAPTOR

- Machine Type: Combined machine - 2 in 1,
Stubble cultivator / Disc harrow.
- Usage: Swift, low cost stubble cultivation, seedbed preparation.
- Operating components:
- 2 rows discs diameter Ø 610 mm;
 - 2 rows of cultivator operational elements;
 - rear universal interchangeable rollers;
 - leveling elements.

- Securing: Individual, "non-stop" spring system protection. (zero maintenance).
- Labouring operations: Intensive soil cultivation at a pre-selected work depth, perfect mixing of the plants residue, reconsolidation and leveling of the upper soil layer.

Technical characteristic		KMT 317 NEW	KMT 417
Power requirement	HP	200 - 350	250 - 400
Working width	m	3,00	4,10
Transport width	m	3,00	3,00
Transport height	m	1,60	3,33
Transport length	m	8,85	8,85
Work bodies	Number of discs	14 (2 x 7)	20 (2 x 10)
	Number of shares	7 (4 + 3)	9 (4 + 5)
	Distance between work elements	between discs 40 / between shares 47	
Operational speed	km / h	8 - 15	
Working depth	cm	5 - 30	
Wheels dimension, wheel carrier		7,5 x 16"	
Tractor linkage		Lower link arms Cat. III (Cat. IV, Cat. IVN or K700 on request	
Machine weight	t	4,5	6,7
Reconsolidation and leveling units	options		
Double disc VDD Ø 550 (total machine weight with VDD)	m	3,00 (4,6 + 0,9 t)	2 x 2,00 (6,7 + 1,9 t)
Rubor rings VGP Ø 510 (total machine weight with VGP)	m	3,00 (4,6 + 1,0 t)	2 x 2,00 (6,7 + 2,0 t)



Central frame with roller



KMT 417



Tine section



Central and side frames with leveling sections and rollers



Disc section



Leveling section



KMT 317



MODULAR MACHINE TRAILED,

Series MPM

TIREX

Machine Type:

Combine soil cultivating machines, 2 in 1. Stubble cultivator.

Usage:

Low resourced, swift, shallow, medium and deep stubble cultivation.

Operating components:

- 2 rows of discs diameter Ø 610 mm, or 4 row cultivator work bodies;
- rear universal interchangeable leveling rollers.

Securing:

Individual, Non-stop double spring system (maintenance free).

Labouring operations:

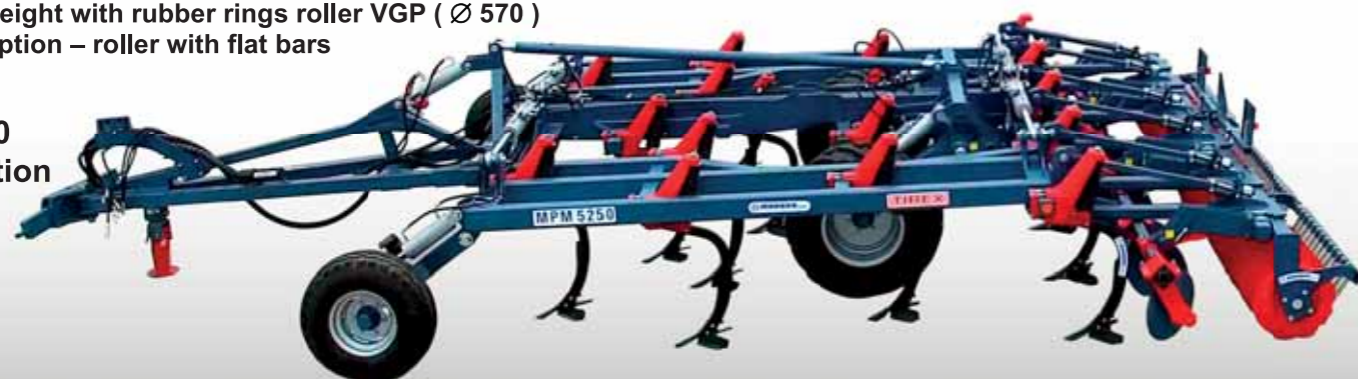
Intensive treatment at the selected depth, loosening, uniform mixing of plant residue, braking of soil capillarity, reconsolidation and leveling.

Technical characteristic		Cultivator	
		MPM 5250	MPM 6300
Power requirement	HP	250	300
Working width	m	5,0	6,0
Transport width	m		2,95
Transport height	m	3,7	4,25
Transport length	m		9,0
Work bodies	Number of tines	17	21
	Tines spacing		28
Leveling discs		yes	yes
Operational speed	km / h		8 – 12
Working depth	cm		5 – 30
Tire size, chassis			405 / 70 - 24" 14PR
Tire size, support wheels			11,5 / 80 - 15,3 16 PR
Tractor linkage		Lower link arms Cat. III (Cat. IV, Cat. IVN or K700 on request) /	
Machine weight *	t	7,4	8,1
Reconsolidation and leveling units		options	
Type	Double discs (Ø550)	m	1,50 + 2,00 + 1,50
	Rubber roller VGP (Ø570)	m	1,50 + 2,00 + 1,50
	Cage roller VTU 560 (Ø560)	m	1,50 + 2,00 + 1,50
	Tine harrow BIM **	m	1,50 + 3,00 + 1,50
	U – rings GVP 500 (Ø 500)	m	1,50 + 2,00 + 1,50

* weight with rubber rings roller VGP (Ø 570)

** option – roller with flat bars

MPM 5250 in work position with VDD



MPM 6300 soil cultivating



Working bodies



MPM 6300 on the move

UNIVERSAL CULTIVATOR,

Series PKU

ODISEY

Machine Type:

Stubble cultivator.

Usage:

Shallow, medium and deep stubble cultivation with high quality mixing residue.

Operating components:

- 3 rows of cultivator tines;
- leveling discs;
- rear universal leveling rollers.

Securing:

Individual, “Non-stop” double spring system (maintenance free).

Labouring operations:

Intensive treatment at the selected depth (depth control unit), uniform mixing of vegetal residue, disruption of “disks base”, crumbling of clods on the surface, leveling.

Technical characteristic		Mounted PKU 30	Trailed PKU 414 P
Power requirement	HP	120 – 200	160 – 250
Working width	m	3,0	4,0
Transport width	m		3,00
Transport height	m	1,70	3,00
Transport length	m	3,50	3,80
Work bodies	Number of tines	10	13
	Tines spacing	30	30,5
Operational speed	km / h		8 – 15
Working depth	cm		5 – 30
Tire size, chassis		-	400 / 60 – 15,5” 14PR
Tire size, support wheels		-	10,0 / 75 – 15,3” 14PR
Tractor linkage		3 Point Hitch Cat. III	Lower link arms Cat. III (Cat. IV, Cat. IVN or K700 on request)
Machine weight	t	2,0	4,8
Reconsolidation and leveling units		options *	
Type	Double discs (Ø550)	m	4,00 (2 x 2,00)
	Rubber roller VGP (Ø570)	m	4,00 (2 x 2,00)
	Cage roller VTU 560 (Ø560)	m	4,00 (2 x 2,00)
	Springer VSP 560 (Ø560)	m	4,00 (2 x 2,00)
	U – rings GVP 500 (Ø 500)	m	4,00 (2 x 2,00)

* for machine working depth adjusting



PKU 30
in position for
transport and
operation



PKU 30 stubble cultivation



PKU 414 P



FIELD CULTIVATOR,

Series MKSP

Machine Type:

Field cultivator.

Usage:

Swift and low cost soil tillage prior to sowing at high daily output, creating an uniform seedbed.

Operating components:

- front leveling bar;
- 6 rows of cultivator tines 45 x 12;
- rear tine harrow and flat bar cage leveling rollers.

Securing:

Cultivator tines by springy tine, shares by tine from spring steel.

Labouring operations:

Levelling the surface, seedbed preparation, shredding and compaction.

Technical characteristic		MKSP 160	MKSP 120
Power requirement	HP	480	360
Working width	m	16,0	12,0
Transport width	m		6,60
Transport height	m		4,60
Transport length	m		8,90
Work bodies	Number of rows		6
	Number of shares	135	101
	Shares spacing		12
Operational speed	km / h		8 – 12
Working depth	cm		4 - 16
Tire size, chassis			400 / 60 – 15,5” 18PR
Tire size, support wheels			11,5 / 80 – 15,3” 16PR
Tractor linkage		Drawbar eye Ø 53 mm for bolt Ø 45 mm	
Machine weight	t	13	10
Leveling units	options		
Tine harrow BIM	m	16,20 [2,2 + (2,2 + 1,5) + (2,2 + 2,2) + (1,5 + 2,2) + 2,2]	11,80 [(2,2 + 1,5) + (2,2 + 2,2) + (1,5 + 2,2)]
Flat Bar Cage Roller	m	16,20 [2,2 + (2,2 + 1,5) + (2,2 + 2,2) + (1,5 + 2,2) + 2,2]	11,80 [(2,2 + 1,5) + (2,2 + 2,2) + (1,5 + 2,2)]



Transport position



MKSP 160 in cultivation



SEED BED CULTIVATOR TRAILED,

Series CML

HAWK

- Machine Type: Seed bed multi-row cultivator.
- Usage: Swift, shallow and low cost soil tillage prior to sowing at high daily output, creating an uniform seedbed.
- Operating components:
- front leveling bar;
 - 6 rows of cultivator tines 45 x 12;
 - rear tine harrow leveling bar;
 - one row needle(tine) leveler.

- Securing: Cultivator tines by springy tine, shares by tine from spring steel.
- Labouring operations: Levelling the surface, seedbed preparation, shredding and compaction.

Technical characteristic		CML 50	CML 60	CML 70	CML 80	CML 90	CML 100
Power requirement	HP	170	200	230	270	300	350
Working width	m	4,95	5,95	7,20	8	9,1	9,9
Transport width	m		3,0		3,7		4,2
Transport height	m	2,5	3,0	3,4	3,8	4,0	4,3
Transport length	m				7,4		
Work bodies	Number of shares	65	79	95	107	121	133
	Distance between shares				7,4		
Operational speed	km / h				6 - 10		
Working depth	cm				2 - 12		
Wheels dimension, carrier				10,0 / 75 – 15,3” 14 PR			
Draw bar eye internal diameter	mm			Ø 40			
Machine weight	t	2,4	3,2	4,00	4,33	4,70	4,90

CML 90 working on the field



Rear spring leveling board and needle leveler

CML 100 in cultivation



6 row work tines with dimensions 45 x 12 mm

Front spring leveling board



CML 100 in transport position

SEED BED CUTLIVATOR TRAILED,

Series PKSP

FALCON

- Machine Type: Seed bed cultivator.
- Usage: Swift and low cost soil tillage prior to sowing at high daily output, creating an uniform seedbed.
- Operating components:
- front leveling bar or 1 row flat discs Ø 510 x 5 mm(KKSP);
 - 6 rows of cultivator tines 45 x 12;
 - leveling bars – front, middle and rear;
 - rear cage leveling or U double ring rollers or "Crosskill".

- Securing: Cultivator tines by springy tine, shares by tine from spring steel.
- Labouring operations: Levelling the surface, seedbed preparation, shredding and compaction.

Technical characteristic		PKSP 50	PKSP 60	PKSP 70	PKSP 80
Power requirement	HP	140 – 170	160 – 190	180 – 210	220 – 260
Working width	m	5,0	6,0	7,0	8,0
Transport width	m		3,1		3,8
Transport height	m	2,90	3,40	3,80	3,90
Transport length	m			6,10	
Work bodies	Number of shares	21	27	31	39
	Shares spacing			22	
Operational speed	km / h			8 – 12	
Working depth	cm			2 – 12	
Tire size, chassis		400 / 60 – 15,5" 14PR			
Tractor linkage		Lower link arms Cat. III (Cat. IV, Cat. IVN or K700 on request)			
Machine weight *	t	3,7	4,0	4,3	4,9
Reconsolidation and leveling units		options			
Crosskill roller (Ø460) **	m	5,0 (1,5 + 2,0 + 1,5)	6 (3 x 2,0)	7,0 (2,5 + 2,0 + 2,5)	8,0 (2,5 + 3,0 + 2,5)
Cage roller VTU 460 (Ø460)	m	5,0 (1,5 + 2,0 + 1,5)	6 (3 x 2,0)	7,0 (2,5 + 2,0 + 2,5)	8,0 (2,5 + 3,0 + 2,5)
U ring double roller (Ø460) **	m	5,0 (1,5 + 2,0 + 1,5)	6 (3 x 2,0)	7,0 (2,5 + 2,0 + 2,5)	8,0 (2,5 + 3,0 + 2,5)

* weight with cage roller; ** rear roller replacement only; *** KKSP series instead of rollers in the first row there is disc section.



SEED BED CULTIVATOR MOUNTED,

Series **KNSO**

DIONIS

- Machine Type:** Seed bed cultivator (mounted models).
- Usage:** Swift and low cost soil tillage prior to sowing at high daily output, maneuverability, creating an uniform seedbed.
- Operating components:**
- front leveling bar;
 - depth adjusting supporting wheels;
 - rear tandem roller.

- Securing:** Cultivator tines made of qualitative spring steel, and shares produced from boron steel.
- Labouring operations:** Levelling the surface, seedbed preparation, mixing and compaction.

Technical characteristic		KNSO 3 L	KNSO 4,5 L	KNSO 6 L	KNSO 7,5 L	KNSO 9 L
Power requirement	HP	65 – 115	95 – 145	110 – 180	125 – 215	145 – 250
Working width	m	3,0	4,5	6,0	7,5	9,0
Transport width	m			3,0		
Transport height	m	1,40	1,70	---	3,05	3,80
Transport length	m			3,0		
Work bodies	Number of tines	32	48	64	80	96
	Tine spacing			9,4		
Operational speed	km / h			12 – 15		
Transport speed	cm			2 – 12		
Working depth		no			10,0 / 75 – 15,3" 14PR *	
Tractor linkage		3 Point Hitch Cat. III or Cat. IIIN				
Machine weight	t	1,16	2,0	2,6	3,3	3,8

* option KNSO 6L



KNSO 6L prepared for operation



KNSO 6L ready for transport position



KNSO 6L in soil cultivation

KNSO 9L

Depth adjusting support wheels



Rear twin tubular roller

3 rows cultivator operational tines

SEED BED CULTIVATOR MOUNTED,

Machine Type: Seed bed cultivator. Mounted models.

Usage: Swift and low cost soil tillage prior to sowing at high daily output, maneuverability, creating an uniform seedbed.

Operating components: - 3 rows of cultivator tines 32 x 10;
- rear flat bar cage leveling roller.

Series **KSP_M**

Securing:

Cultivator tines by springy tine, shares by tine from spring steel.

Labouring operations:

Levelling the surface, seedbed preparation, shredding and compaction.

COLIBRY

Technical characteristic		Mounted						
		KSP _M 014	KSP _M 016	KSP _M 018	KSP _M 020	KSP _M 022	KSP _M 024	KSP _M 026
Power requirement	HP	20	25	30	35	40	45	50
Working width	m	1,4	1,6	1,8	2,0	2,2	2,4	2,60
Transport width	m	1,45	1,65	1,85	2,05	2,25	2,45	2,65
Transport height	m				0,9			
Transport length	m				1,98			
Work bodies	Number of tines	7	8	9	10	11	12	13
	Tine spacing				14			
Operational speed	km / h				10 – 12			
Transport speed	km / h				up to 25			
Working depth	cm				2 – 12			
Tractor linkage		3 Point Hitch Cat. I or Cat. II						
Machine weight	t	0,20	0,21	0,22	0,23	0,24	0,25	0,26

KSP_M 022



KSP_M 018

KSPM 020 for transportation ready



KSPM 018 with flat bars roller



SEED BED CULTIVATOR MOUNTED,

Machine Type: Seed bed cultivator. Mounted models.

Usage: Swift and low cost soil tillage prior to sowing at high daily output, maneuverability, creating an uniform seedbed.

Operating components:

- front flat bar cage rollers;
- 3 rows of cultivator tines 32 x 10;
- rear tandem flat bar cage leveling rollers.

Series KSP

FENIX

Securing: Cultivator tines by springy tine, shares by tine from spring steel.

Labouring operations: Levelling the surface, seedbed preparation, shredding and compaction.

Technical characteristic		Mounted	
		KSP 42	KSP 58
Power requirement	HP	100 - 130	150 - 180
Working width	m	4,32	5,87
Transport width	m	2,69	3,45
Transport height	m	2,36	2,65
Transport length	m	2,87	
Work bodies	Number of tines	27	36
	Tine spacing	14	
Operational speed	km / h	10 – 12	
Transport speed	km / h	up to 25	
Working depth	cm	2 – 12	
Tractor linkage		3 Point Hitch Cat. III or Cat. IIIN	
Machine weight	t	1,3	1,7



SEED BED CULTIVATOR MOUNTED,

- Machine Type:** Seed bed cultivator (mounted models).
- Usage:** Swift and low cost soil tillage prior to sowing at high daily output, maneuverability, creating an uniform seedbed.
- Operating components:**
- 2 rows tine elements;
 - depth adjusting supporting wheels;
 - 5 rows Spike Tooth Harrow.

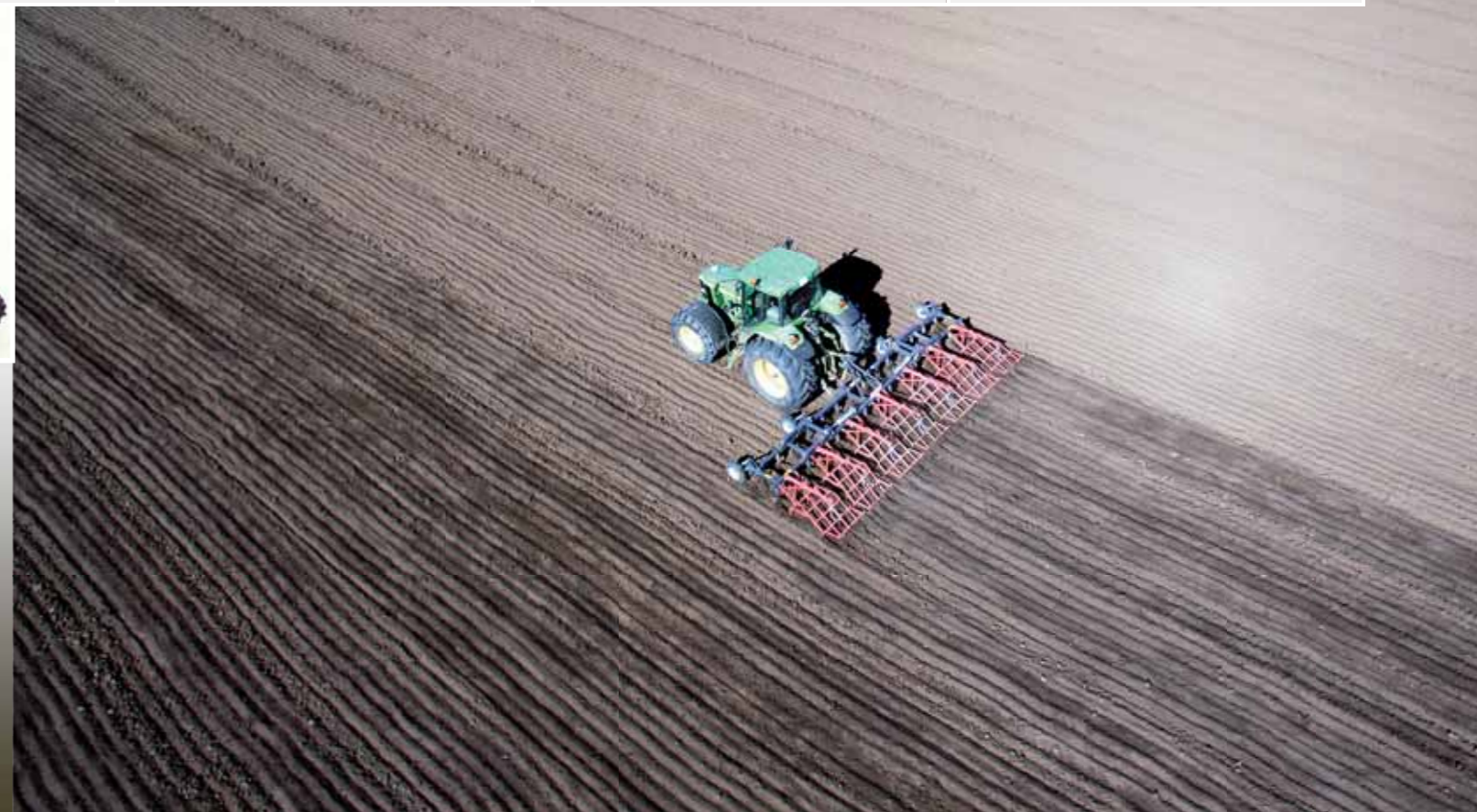
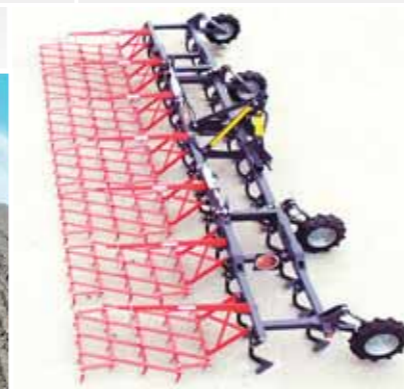
Series KSPN

CLASSIC

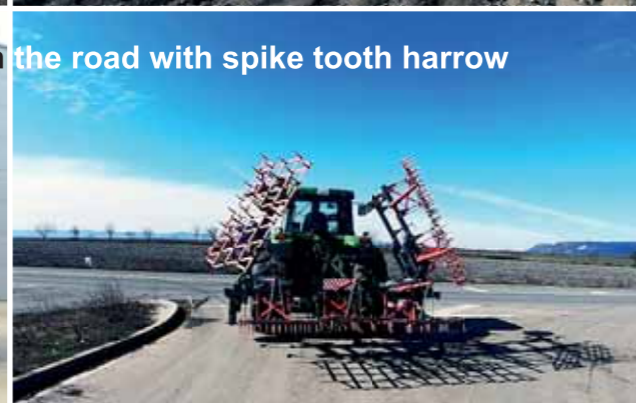
- Securing:** Cultivator tines with share bolts, shares produced from boron steel.
- Labouring operations:** Levelling the surface, seedbed preparation, mixing and compaction.

Technical characteristic			KSPN 32	KSPN 52	KSPN 72	KSPN 92
Power requirement	HP		50 – 90	110 – 150	150 - 200	180 - 210
Working width	m		3.20	5,20	7.20	9.20
Transport width	m				4.20	
Transport height	m		1.30	2,0	3.20	3.70
Transport length	m				3,30	
Work bodies	Number of tines	pcs	13	21	29	37
	Tine spacing	cm			25	
Operational speed	km / h				10 – 12	
Transport speed	km / h				up to 25	
Working depth	cm				5 – 20	
Tractor linkage			3 Point Hitch Cat. III or Cat. IIIN			
Machine weight	t		0,67	1,2	1,6	1,85

KSPN 72 in seed bed preparation



KSPN 72 folded advancing on the road with spike tooth harrow



KSPN 72 without tooth harrow

ROTARY HOE,

Series MR

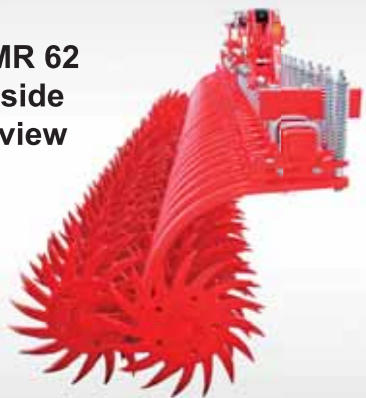
SUNRISE

Machine Type: Rotary cultivator (Hoe), mounted.
Usage: Cultivation of the upper soil layer in rows especially for row plans application.
Operating components: - 1 row spring suspensions with tube with 2 cogged elements;
 - hydraulic system for folding of the Hoe.

Securing: Spring protection of every single tube, assuring protection of 2 cogged wheels in the same time.
Labouring operations: In row cultivation of plants by digging spaces and pulling out weeds roots in that area. Make surface loosed, as can get more moisture and waters from morning dew and rains, as pointed to the bio agriculture.

Caracteristici tehnice		MR 22	MR 32	MR 62	MR 82
Power requirement	HP	40 - 70	50 - 75	70 - 100	90 - 150
Working width	m	2,10	3,20	6,20	7,70
Transport width	m	2,10	3,22	3,22	3,90
Transport height	m	1,30	1,30	2,35	
Transport length	m	1,36			
Work bodies	Diameter of the cogged element	Ø 555			
	Number of the cogged elements	24	36	72	88
	Distance of the cogged elements	17,5			
Maximal operational speed	km / h	12			
Working depth	cm	1 - 8			
Tractor linkage	3 Point Hitch Cat. III				
Machine weight	t	0,65	0,85	1,80	2,20

MR 62 side view



Working Cogged element



MR 62 in operational position



Spring protection



MR 62 ready for transportation



MR 32



INROW CULTIVATOR,

Series OK

PRECISE

Machine Typr:

Row-crop (Inrow) cultivator.

Usage:

Processing rows of spring crops, hoeing and hugging.

Operating components:

- Cultivator tines dimensions 32 x 12 mm.
For OK 1L, 2L, 4L – 42 x 12 mm.

Securing:

Cultivator tines by springy tine, shares by tine from spring steel, protection discs.

Labouring operations:

Hoeing of the Spring cultures with or without hugging and in the same time applying granulated or liquid fertilizers for plants nutrition.

Technical characteristic		OK 1 L	OK 2 L	OK 4 L	OK L6	OK 42 S	OK 8 S	OK 8 P	OK 12 S	OK 12 P	OK 24 P	
Power requirement	HP	40 – 50	50 – 60	60 – 70	60 – 70	60 – 70	65 – 80		110 – 130		160 - 240	
Cultivating rows	pcs	1	2	3	6	6	8	8	12	12	24	
Transport width	m	1,40	2,78	3,14	4,60	3,00	3,90	2,50	3,90	3,00	2,95	
Transport height	m	1,22	1,22	2,58	1,20	1,40	2,50	2,0	3,90	2,10	4,10	
Transport length	m	1,82	1,82	2,66	1,80	1,80	1,80	8,60	1,80	10,50	10,50	
Work bodies	Number of shares	pcs	6	12	18	19	19	25	25	37	37	73
	Number of work sections	pcs	2	4	6	7	7	9	9	13	13	25
	Row spacing	cm	140	149	140	60 – 70	70	70	70	70	70	56 (22')
Operational speed	km / h	5 - 10										
Working depth	cm	4 - 10										
Tire size, support wheels		-	-	5,00-12" 4PR	16 x 6,50 / 8" 10PR			10,0 / 75 x 65 5,00-12" 4PR	16 x 6,50 / 8" 10PR	10,5 / 75 x 65		
Tractor linkage		3 Point Hitch Cat. II or Cat . III										
Machine weight	t	0,173	0,315	1,035	0,7	0,9	1,45	1,8	1,98	2,7	3,7	
Options												
Fertilizing included		yes	yes	yes	yes	yes	no	yes	no	yes	no	
System for applying liquid fertilizers (without a device for applying)		no	no	no	yes	yes	yes	no	yes	yes	yes	
Special application		lavender					Common application					



OK 1L

OK for lavender



OK 42S foldable



OK L6 with plastic fertilizing bunkers



OK L6 Base model



OK 4L



PLOUGHS REVERSIBLE MOUNTED

Series PLNR

HEMUS

Machine Type: Mounted reversible moldboard ploughs.

Use: Primary tillage equipment.

Operating components: Plough bodies with: - standard moldboard;
- slatted moldboard;
- 3 or 4 furrows with work width adjusting;
- mechanical adjustment of the work angle.

Securing: Ridged welded construction assembled with heat treated plough elements axis. Protection types: shear bolts and continues (non-stop) operation.

Labouring operations: For primary tillage and soil preparation for subsequent cultivation and planting of various crops.

Technical characteristic		Reversible Mounted	
		PLNR 3 / 3L	PLNR 4 / 4L *
Power requirement	HP	70 - 110	90 - 130
Working width (per mold board))	cm	36 / 40 / 44 / 48	
Framework height	cm	85	
Frame dimensions height x width	mm	100 x 150	
Work bodies	Number of furrow pairs	(3)	(4)
	Spacing between bodies	95	
Tine, profile dimensions	mm	80 x 25	
Support (depth controlling) wheels		T 522 PR 10 – 6,00 x 9 /10 - Ø 550	
Stone protection		Mechanical with share bolt	
Tractor linkage		3 Point Hitch Cat. II or Cat. III	
Total weight (standart / slatted moldboard)	kg	955 / 945	1 200 / 1 180

* can be produced in a composite formula 3 furrows plus 1 (3 +1)

** all plough modifications can be delivered with normal and slatted moldboards



PLNR 4



PLNR 3L



PLNR 3



Dumper and support wheel



PLNR 4L in operation



Turning for the new cycle

PLOUGHS REVERSIBLE MOUNTED

Series PLNR

PERELIC

Machine Type: Mounted reversible moldboard ploughs
Use: Primary tillage equipment.
Operating components: Plough bodies with: - standard moldboard;
 - slatted moldboard;
 - 5 or 6 furrows with work width adjusting;
 - adjustment of the work angle by hydraulic cylinder with memory.

Securing: Ridged welded construction assembled with heat treated plough elements axis. Protection types: shear bolts and continues (non-stop) operation.
Labouring operations: For primary tillage and soil preparation for subsequent cultivation and planting of various crops.

Technical characteristic			Mounted Reversible	
			PLNR 5 / 5L	PLNR 6 / 6L *
Power requirement	HP	160 - 280	200 - 300	
Working width (per mold board))	cm	36 / 40 / 44 / 48		
Framework height	cm	85		
Frame dimensions height x width	mm	150 x 150		
Work bodies	Number of furrow pairs	(5)	(6)	
	Spacing between bodies	95		
Tine, profile dimensions	mm	80 x 25		
Support (depth controlling) wheels		10,0 / 75 – 15,3” 14 PR		
Stone protection		Mechanical with share bolt		
Tractor linkage		3 Point Hitch Cat. II; or Cat. III		
Total weight (standart / slatted moldboard)	kg	2 070 / 1 960	2 350 / 2 220	

* can be produced in a composite formula 5 furrows plus 1 (5 +1)
 ** all plough modifications can be delivered with normal and slatted moldboards





CHOPPER (CUTTER) MOUNTED,

Series RL

GRIZZLY

Machine Type: Chopper "Cutter".

Usage: Cut, crushed and left on the surface residual plants. Best for sunflower and rapeseed.

Operating components: - cutter bars - 65 x 7mm knives.

Securing: Heat treated sheet spring steel (hardened cutters).

Labouring operations: To cope with the residual plants on the surface of the ground without destroying roots. The root of the stubble is kept in the soil minimizing the leakage of nitrogen.

Technical characteristic		Mounted																				
		RL 255				RL 255 D				RL 324				RL 324 D				RL 424				RL 424 D
Power requirement	HP	50 – 70				50 – 70				60 – 80				60 – 80				70 – 90				
Working width	m	2,49				3,15				3,52				4,2				4,57				
Transport width	m	2,86				3,52				1,5				1,5				1,5				
Transport height	m	1,3				1,3				1,5				1,5				1,5				
Transport length	m	0,8				1,2				0,8				1,2				0,8				
Work bodies	Number of cutting apparatus	1				2				1				2				1				
	Number of knives, „Cutter”	30				60 (2 x 30)				30				60 (2 x 30)				40				
Operational speed	km / h	-				-				15 - 20				15 - 20				-				
Tire size, chassis		3 Point Hitch Cat. II or Cat. III										3 Point Hitch Cat. III										
Tractor linkage	t	0,76				1,2				0,92				1,48				1,09				1,84
Options/ MACHINE - MODIFICATIONS		RL 255	RL 255 P	RL 255 D	RL 255 DP	RL 324	RL 324 P	RL 324 T	RL 324 PT	RL 324 D	RL 324 DP	RL 324 DT	RL 324 DPT	RL 424	RL 424 P	RL 424 T	RL 424 PT	RL 424 D	RL 424 DP	RL 424 DT	RL 424 DPT	
Machines with weights – weight of machine	t	-	-	-	-	-	-	1,52	-	-	-	2,05	-	-	-	2,3	-	-	-	3,05	-	
Machines with wheel carrier – weight of machine	t	-	0,93	-	1,45	-	1,13	-	-	-	1,69	-	-	-	1,27	-	-	-	2,0	-	-	
Machines with wheel carrier and weights – weight of machine	t	-	-	-	-	-	-	-	1,73	-	-	-	2,3	-	-	-	2,48	-	-	-	3,21	
Tire dimensions in case of wheel carrier		10,0 / 75 15,3” 14PR																				

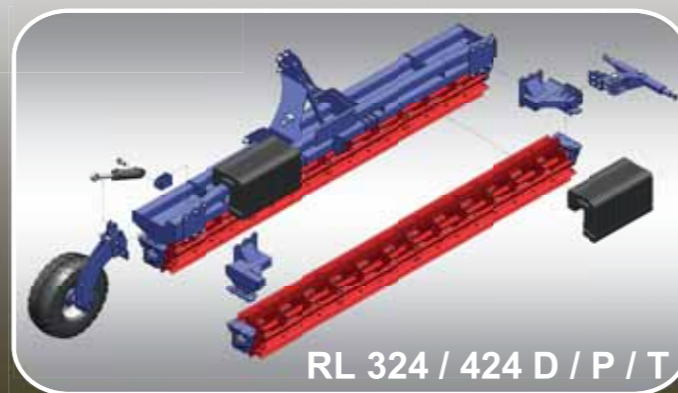
RL 255



RL 424D



RL 324



RL 324 / 424 D / P / T





CHOPPER (CUTTER) FOLDABLE,

Machine Type: Chopper "Cutter".

Usage: Cut, crushed and left on the surface residual plants. Best for sunflower and rapeseed, convenient during transportation.

Operating components: - cutter apparatus - 65 x 8 mm knives.

Series RS / RLS

Securing: Heat treated sheet spring steel (hardened cutters). Protection net over the cutters.

Labouring operations: To cope with the residual plants on the surface of the ground without destroying roots. The root of the stubble is kept in the soil minimizing the leakage of nitrogen.

GRIZZLY

Technical characteristic		Mounted				Trailed			
		RLS 506	RLS 646	RS 4,5 / 413	RS 6,0 / 613	RS 63	RS 82	RS 103	RS 123
Power requirement	HP	75 - 95	80 -100	50 – 80	70 – 90	75 – 100	95 – 140	115 – 150	125 – 160
Working width	m	5,0	6,4	4,5	6,0	6,5	8,4	10,6	12,3
Transport width	m	2,48	2,25		2,38		2,46		
Transport height	m	2,57	3,23	1,38		2,2	2,3	2,45	
Transport length	m	0,8		4,34	4,93	4,20	5,10	6,84	
Work bodies	Number of cutting apparatus	pcs	2	2	3	3	3	5	5
	Number of knives „Cutter”	pcs	60 (30 +30)	60 (30 + 30)	60 (20 + 20 + 20)	60 (20 + 20 + 20)	60 (20 + 20 + 20)	60 (20 + 20 + 20)	130 (20+30+30+30+20)
Operational speed	km / h	15 - 20							
Tire size of carrier		-			10,0 / 75 15,3” 14PR			400 / 60 – 15,5” 18PR	
Tractor linkage		3 Point Hitch Cat . II or III		Draw bar eye Ø 50 mm for bolt Ø 40 mm			Draw bar eye Ø 50 mm for bolt Ø 40 mm (Lower link arms Cat. III or K700 on request)		
Machine weight	t	1,39	1,66	1,4	1,6	2,25	2,74	4,45	4,9



RS 82 in operational position

RS 103 folded for transportation



RLS 506 unfolded



CHOPPER (CUTTER) HEAVY SERIES TRAILED,

- Machine Type: Chopper (Cutter) - Heavy series.
- Usage: Cut, crushed and left on the surface residual plants. Best for sunflower and rape.
- Operating components:
- cutter bars, 95 x 7mm (knives);
 - possibility for getting heavier by filling water in cutting apparatus tubes.

Series RHD

- Securing: Specially hardened cutters. Cutters strong fixing on the cutting apparatus. Ridged frame.
- Labouring operations: To cope with the residual plants on the surface of the ground without destroying the roots. The root of the stubble is kept in the soil which minimizing the leakage of nitrogen.

THUNDER

Technical characteristic			RHD 6
Power requirement		HP	150
Working width		m	5,8
Transport width		m	3
Transport height		m	3,4
Transport length		m	5
Work bodies	Number of cutting apparatus	pcs	3
	Number of knives „Cutter”	pcs	90
Operational speed		km / h	15-20
Tire size of the carrier			400 / 60 - 15,5 145A8
Tractor linkage			Lower link arms Cat. III
Machine weight *		t	5,1

* weight is without water in cutting apparatus



At the assembling shop



RHD 6



Work apparatus with hardened and strongly fixed cutters



RHD 6

Unfolding for operation



Ready for transport

ROLLER COMBINED TRAILED,

Series BK

CONDOR

Machine Type: Rollers.

Usage: Using to create the seedbed after the previous field operations. Compaction and leveling.

Operating components:

- leveling front spring-board;
- rotary cast rings weights;
- cutting apparatus "RL".

Securing: Qualitative cast iron. Removing slacks in bearing units by adjusting nuts.

Labouring operations: Oscillating rollers to adapt to the contour of the ground, levelling the surface, seedbed preparation, intensive clod crushing and the prevention of moisture loss.

Technical characteristic		BK 634	BK 824	BK 103	BK 123	
Power requirement	HP	80 – 130	120 – 140	120 – 150	140 – 160	
Working width	m	6,5	8,4	10,6	12,3	
Transport width	m	2,38		2,46		
Transport height	m	2,20	2,30		2,45	
Transport length	m	4,20	5,10		6,84	
Work bodies	„K 510” – number of casting rings “Cambridge” Ø 510	pcs	64 (22 + 20 + 22)	86 (32 + 22 + 32)	97 (12 + 26 + 21 + 26 + 12)	125 (26 + 26 + 21 + 26 + 26)
	„K 460” - number of casting rings “Cambridge” Ø 460	pcs	54 (19 + 16 + 19)	81 (30 + 21 + 30)	90 (11 + 24 + 20 + 24 + 11)	116 (24 + 24 + 20 + 24 + 24)
	„RL”- number of cutters in cutting apparatus RL Ø 480 *	pcs	60 (20 + 20 + 20)	60 (20 + 20 + 20)	90 (30 + 30 + 30)	130 (50 + 30 + 50)
Operational speed	km / h	6 – 10				
Transport speed	km / h	Max . 25				
Tire size of the carrier		10,0 / 75 – 15,3” 14PR	400 / 60 – 15,5” 18 PR	500 / 50 – 17” PR		
Tractor linkage		Drawbar eye Ø 50 mm for bolt Ø 40 mm (Lower link arms Cat.III or K700 on request)		Lower link arms Cat. III (Cat. IV, Cat. IVN or K700 on request)		
Machine weight with “K 460”	t	3,9	4,75	6,2	7,9	
Options						
Leveling spring board		yes	yes	yes	yes	

* look at RS 63 or RS 82



BK 634



BK 824



BK 123

In operation



ROLLER TRAILED,

Series BXT

ROLLING BEAR

Machine Type: 2 in 1, Roller / Chopper (Cutter).
Usage: Used to create the seedbed after the previous field operations. Compaction and leveling.
Operating components: - rotational cast ring weights;
 - or cutting apparatus "RL", by request.

Securing: High strength cast iron. Removing slacks between rings and weights in reconsolidation rollers by nuts usage.
Labouring operations: Levelling the surface, seedbed preparation, intensive clod crushing and the prevention of moisture loss.

Technical characteristic		BXT 413	BXT 613
Power requirement	HP	50 - 80	75 - 100
Working width	m	4,5	6,0
Transport width	m	max. 2,25	max. 2,38
Transport height	m	1,38	1,38
Transport length	m	4,34	4,92
Work bodies	"K 460" - number of cast rings "Camridge" Ø 460 **	39 (13 + 13 + 13)	51 (17 + 17 + 17)
	„K 510" - number of cast rings "Camridge" Ø 510	45 (15 + 15 + 15)	60 (20 + 20 + 20)
	„TR" - compacting unit with tube Ø 530	3	3
	„RL"- number of cutters in apparatus RL Ø 480 *	60 (20 + 20 + 20)	60 (20 + 20 + 20)
Operational speed	km / h	6 - 10	
Transport speed	km / h	max. 25	
Tire size of wheel carrier		10,0 / 75 - 15,3" 14PR / 11,5 / 80 - 15,3" 14PR	
Tractor linkage		Drawbar eye Ø 50 mm for bolt Ø 40 mm or sharnir draw bar Cat. III or Cat. IIIN	
Machine weight **	t	2,30	2,71

* look at RS 4,5 or RS 6,0

BXT 413

For transport ready

BXT 613

RS 6,0 with cutting apparatus „RL"

BXT 613 TR with tubular compacting unit „TR"



STONE COLLECTING MACHINE,

Series UPS

COLLECTOR

Machine Type: Soil-cleaning machines.

Usage: Especially designed for the removal of stones and other unevenness from the soil.

Operating components: - rotary comb swinging apparatus with attached 15 high-strength teeth on it.

Securing: Robust steel construction and use of elements and materials produced from high quality steel.

Labouring operations: Cleaning, thus increasing the homogeneity of the soil, mainly by stones and other unevenness (pieces of bricks, tiles, tree roots, pieces of plastic, etc.).

Technical characteristic		UPS 14 NEW
Power requirement	HP	70 - 150
Working length	m	4,60
Working width (of the cradle)	m	1,52
Transporting width	m	2,85
Transporting height	m	1,98
Work bodies	Work teeth	pcs
		15
Maximal diameter of the collected stones (rocks)	mm	600
Height of unloading	m	0,9
Volume of the bunker for stones collecting	m ³	1,65
Wheels		500/50 - 17" 18PR : 16.00 x 17"
Internal diameter of the draw bar eye	mm	Ø 40
Machine weight	t	2,4



HOPPER (TRAILER) GRAIN DISTRIBUTOR,

Series SPK

COMPLEMENT

Machine Type: Agricultural machine application.

Usage: Trailer for grain collecting and distribution.

Operating components:

- built-in spiral conveyer with turning rate 540 – 1000 rpm;
- 1,2 or 3 axles with hydraulic steering control;
- double contour brake system on each axle.

Securing:

Drive shaft protective clutch. Brake system actuates automatically, in case of trailer emergency disconnect from the tractor.

Labouring operations:

Collecting and distributing grain during harvesting and sewing, reloading it from combines to transport vehicles and seeders.

Technical Characteristic		SPK 21	SPK 25	SPK 31	SPK 32
Power requirement	HP	120	140	220	180
Volume of the bunker	m ³	21	25	30,8	32
Transshipment output	m ³ / min	9		15,4	9
Bunker dimensions	Length	5,0	5,7	4,88	7,25
	Width	2,55		3,58	2,55
Height to the bunker board	m	3,0	3,25	3,37	3,46
Unloading height	m	4,5	4,6	3,80	4,43
Suspension, axles number	pcs	1	2	1	3
Turning auger speed, rpm	rpm	540 – 1000			
Diameter of internal / external auger	cm	35 / 40		- / 46	35 / 40
Draw bar position		upper		lower	
Brake system		yes		no - option	yes
Tire size		800 / 65 R32	650 / 65 x 30,5" TL	900 / 60 R32 12PR	700 / 50 - 26,5" 16PR
Machine own mass	kg	5 800	7 500	5 600	10 340
Macine total weight	kg	22 000	27 800	29 420	35 000



SPK 21



SPK 25



SPK 31



SPK 32 loaded on a trailer



SPK 21 being towed



SPK 25



HOPPER GRAIN DISTRIBUTOR FOR SEED DRILLS,

- Machine Type: Agricultural machine application.
- Usage: Trailer for grain collecting and distribution.
- Operating components:
 - built- in spiral conveyer consisted of 2 parts with turning rate 540 rpm;
 - 2 axles with pneumatic brake system;
 - 360 degree rotating auger around vertical axis.

Series TR

- Securing: Drive shaft protective clutch. Brake system actuates automatically, in case of trailer emergency disconnect from the tractor.
- Labouring operations: Collecting and distributing grain during harvesting and sewing, reloading it from combines to transport vehicles and seeders.

TRAKIA

Technical Characteristic			TR 20
Power requirement	HP		120
Volume of the bunker	m ³		20,5
Transshipment output	m ³ / min		2
Bunker dimensions	Length	mm	5 000
	Width	mm	2 600
Height to the bunker board	mm		3 342
Unloading height	mm		6 500
Suspension, axles number	pcs		2
Turning auger speed, rpm	rpm		540
Diameter of the auger	mm		273
Pneumatic brake system			yes
Tire size			500 / 60 – 22,5
Machine own mass	kg		4 500
Macine total weight	kg		22 500



Spiral auger



TR 20 in readiness for attachment to the tractor



TP 20 in the assembling shop



TR 20 - the real substitution

BULK LOADS HOPPER (TRAILER),

Series RNT

DUNAV

Machine Type: Transportation trailer for grain and bulk loads.

Usage: Bulk loads hopper and seeders feeder.

Operating components:

- built- in spiral conveyer with hydraulic turning;
- 3 sides unloading with hydraulic control;
- 1 – 4 axles power line drive formula.

Securing:

Ridged chassis and frame, in-build axles and integrated elements of well-known companies.

Labouring operations:

For agricultural or construction bulk loads transportation. For feeding seed drills and fertilizers and for common usage.

Technical characteristic		RNT 6	RNT 14	RNT 14 C*	RNT 14T**	RNT 20	RNT 26	RNT 30	RNT 45
Power requirement	HP	60	100	100	100	130	150	180	200
Payload	kg	6 000	10 000	10 000	10 000	14 000	18 600	22 000	33 000
Owned weight	kg	2 550	3 450	3 450	3 450	6 111	7 600	7 920	12 000
Total weight	kg	8 550	13 450	13 450	13 450	20 111	26 200	29 920	45 000
Overall dimensions	length	m	4,59	6,2	6,2	8,3	8,967	8,967	11,080
	width	m	2,33	2,33	2,33	2,42	2,42	2,42	2,45
	height with standard + additional lids	m	1,58 / 2,08	1,8 / 2,4	1,8 / 3,3	1,8 / 2,4	2,3 / 2,9	2,3 / 2,9	2,3 / 3,1
Load space dimensions	length	m	3,316	4,25	4,25	5,888	7,130	7,130	8,942
	width	m	2,12	2,22	2,22	2,316	2,316	2,316	2,396
	height with standard + additional lids	m	0,5 / 1,0	0,6 / 1,2	0,6 / 2,0	0,6 / 1,2	0,8 / 1,4	0,8 / 1,4	0,8 / 1,6
Carriage volume	m ³	6,85	11,3	13,2	11,3	18	22	26	42
Loading height	m	1,086	1,2	1,2	1,2	1,4	1,4	1,4	1,548
Suspension, axles number	pcs	1	2	2	2 - tandem	2	3	3	4
Tire size		400 / 60-15,5" 18 / 22 PR				425 / 65 – 22,5"			
Rim size		13.00 x 15,5"				13 x 22,5"			
Unloading options						three sides			
Container lifting angle	aside					45°			
	back					45°			
Preassure needed for unloading of maximal load	bar					200			
Brake system	working	double contour		double contour on both axles /			double contour on the 3 axles / on the 4 axles		
	parking			mechanic, handbrake					
Maximum transport speed	km/h					40			
Internal diameter of the draw bar	mm	Ø 40				Ø 50			

* lattice superstructure for silage transportation; ** can be produced for the silage transportation; *** for transportation of bulk loads.

RNT 6



RNT 14



RNT 20



RNT 26 tarpaulin cover



RNT 14T



VINEYARD TRAILER,

Series LR

LOZNITZA

Machine type:

Ttrailer designed for the vineries application.

Usage:

For grape harvesting and transporting of food and food ingredients.

Operating components:

- hydraulic system for dump lifting and lowering;
- 3 stages hydraulic cylinder for dump unloading;
- places for 3 buckets for grape harvesting, placed on to the dump front side.

Swcuring:

Dump made of INOX (chromium - nickel steel) with wall ticknss 2,5 mm. Precise welding seam hasn't allowed material leakage.

Labouring operations:

For harvesting and transportation of grape from Vineyards to the places of procecing, fermentation and storage. Various activities, requesting work to be done at a spacificed height.

Technical characteristic		LR 30	LR 30 X	LR 32	LR 32 X	LR 40	LR 40 X
Power requirement	HP	40 - 60	40 - 60	50 - 100	50 - 100	60 - 120	60 - 120
Volume of the dump	m ³	2,1	2,1	3,1	3,1	4,0	4,0
Pay load	kg	1 680	1 680	2 260	2 260	2 680	2 680
Own weight	kg	920	1 000	1 100	1 200	1 320	1 450
Total weight	kg	2 600	2 680	3 360	3 460	4 000	4 130
Overall dimensions	transport lenght	mm	4 000	4 000	5 500	5 500	6 050
	transport width	mm	1 500	1 500	1 500	1 500	1 500
	transport height	mm	1 600	1 600	1 600	1 600	1 600
Dump dimensions	length	mm	2 400	2 400	3 500	3 500	4 500
	width	mm	1 450	1 450	1 450	1 450	1 450
	height	mm	600	600	600	600	600
Work height without lifting	mm	1 040	1 040	1 040	1 040	1 040	1 040
Maximal work height with lifting mechanizm usage	mm	-	1 700	-	2 400	-	2 400
Maximal angle of dump lifting	deg	47°	47°	47°	47°	47°	47°
Work systems	hydraulic hydraulic	For lifting and lowering of the dump For dump unloading					
Suspensions, number of axles	pcs	1	1	1	1	1	1
Tire size		11,5 / 80 – 15,3” 14PR	11,5 / 80 – 15,3” 14PR	11,5 / 80 – 15,3” 16PR	11,5 / 80 – 15,3” 16PR	11,5 / 80 – 15,3” 16PR	11,5 / 80 – 15,3” 16PR
Rim size		9.0 x 15,3”	9.0 x 15,3”	9.0 x 15,3”	9.0 x 15,3”	9.0 x 15,3”	9.0 x 15,3”
Maximal transportation speed	km/h	40	40	40	40	40	40
Draw bar internal diameter	mm	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40
Draw bar load	kg	220	220	550	550	700	700



HEADER CARRIER,

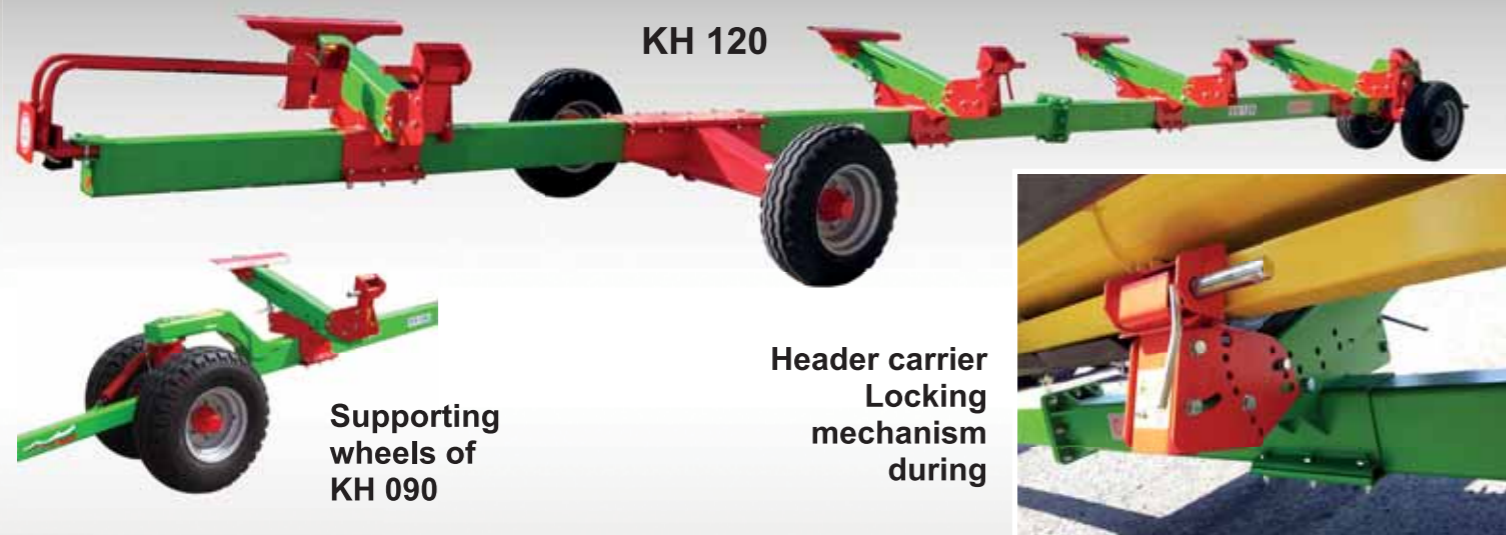
Series KH

CARRIER

- Machine Type: Transportation wheel carrier.
- Usage: Auxiliary equipment to transport harvesters' headers.
- Operating components:
- brackets for header attaching and fasteners;
 - security framework and lights;
 - linkage that locks header.

- Securing: Main beam with dimensions 200 x 150 mm made of high quality steal profile.
- Labouring operations: Towing harvester headers on standard roads, without additional security measures for the transportation of oversized cargo.

Technical characteristic		KH 073	KH 090	KH 120
Working grip of header	m	7,50	9,00	12,00
Working width	m		2,52	
Working height	m		1,20	
Transport locking			mechanically	
Number of supports	pcs	2	3	4
Front carrier support		nu		da
Electrical road signalization system			applied	
Diameter of the drawing eye	mm		40	
Weight	t	0,869	1,198	1,334



HYDRAULIC PLATFORM,

Series PX

PRISTA

Machune type:

Trailer designed for the vineries application.

Usage:

For usage in orchards.

Operating components:

- hydraulic system for platform lifting and lowering;
- pneumatic compressor system;
- 6 pcs pneumatic shears for pruning fruit trees.

Swcuring:

Protecting railing on all sides of the operational platform.

Labouring operations:

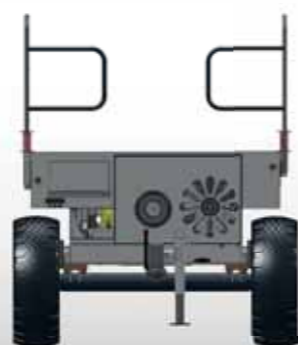
For pruning fruit trees in orchards and harvesting fruits in in it. Various activities, requesting work to be done at a spacificed height.

Technical characteristic			PX 01 NEW
Power requirement	HP		30
Pay load	kg		900
Own weight	kg		1 850
Total weight	kg		2 750
Overall dimensions	transport lenght without railing	m	5,124
	transport width	m	1,660
	transport height	m	1,150
Work plaform dimensions	length	m	5,124
	width	m	2,850
	Height without railing	m	2,390
Operational height with protecting railing	m		3,190
Protecting railing height	m		0,8
Work systems	hidraulic		For lifting and lowering of the work plaform To drive 6 pcs pneumatic shears for pruning fruit trees
	pneumatic		
Suspensions, number of axles	pcs		1
Tire size			10,0 / 75 – 15,3” – 14PR
Dimensiunea jantei			9.0 x 15,3”
Maximal transportation speed	km/h		40
Draw bar internal diameter	mm		Ø 40

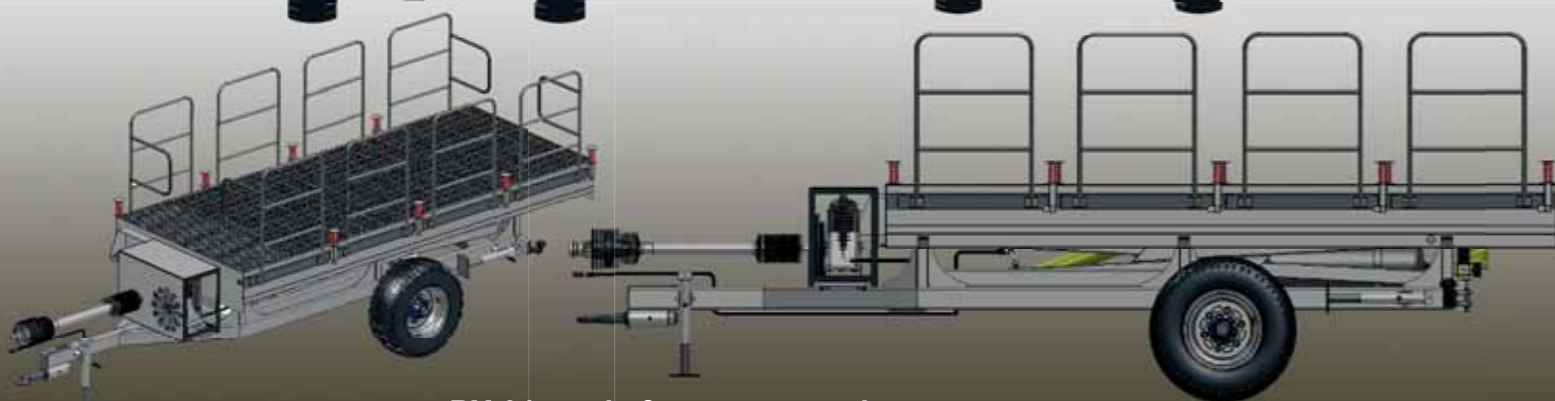
Front view



Rear view



PX 01 ready for transportation



Operation position



WATER TANK,

Series CV

RUSALKA

Machine Type

Cistern (steel balloon).

Usage:

For water delivery, distribution and firefighting.

Operating components:

- autonomous petrol or diesel motor pump;
- rear situated tubes for watering.

Securing:

Zinc plated water tank, ridged chassis and frame, built axles and elements of leading companies. Brake system actuates automatically, in case of trailer emergency disconnect from the tractor.

Labouring operations:

For water transporting, loading sprayers for plant protection, irrigation and firefighting.

Technical characteristic		CV 7000	CV 10000	CV 12000	CV 16000	CV 20000 NEW	
Power requirement	HP	100	150	150	180	200	
Payload	m ³	7,0	10,0	12,0	16,0	20,0	
Owned weight	t	2,9	3,8	4,84	5,5	7,3	
Overall dimensions	length	mm	6 148	6 850	6 850	7 557	8 195
	width	mm	2 300	2 260	2 345	2 350	2 947
	height	mm	2 705	2 780	3 123	3 235	3 839
Maximum transport speed, km/h	km / h					40	
Weal size		500 / 60 - 22,5" 16 PR TL				650 / 65 x 30,5" TL	
Water level indicating system						da	
Internal diameter of the draw bar	mm					Ø 40	
Machine total weight	t	9,9	13,8	16,84	21,5	27,3	
Options							
Diesel pump	model	Koshin Japan - SE 80 XD - BAP					
Petrol pump	model	Koshin Japan - SE 80 EX - BAA					

CV 7000



CV 10000



CV 7000



With DIESEL pump



CV 16000 inside configuration of the balloon

CV 12000



CISTERN FOR LIQUID FERTILIZER (UAN),

BALKAN

Machine Type

Cistern with polyethylene tank (s).

Usage:

Tank for transportation of liquid nitrogen fertilizer UAN (urea ammonium nitrate) with sloping bottom walls for complete emptying.

Operating components:

- 3-inch hydraulic pump (2" optional);
- operator protection kit.

Series UAN

Securing:

Tanks are made of highly resistant polyethylene. They have ribs from inside to ensure stability during transport. Built-in bridges, braking system and elements of leading companies.

Labouring operations:

Transportation of liquid nitrogen fertilizer UAN, both for basic and pre-sowing fertilization, as well as for leaf feeding and loading of fertilizer machines.

Technical characteristic		UAN 8	UAN 16	UAN 32
Power requirement	HP	150	150	300
Tank volume	m ³	6,0	12	25,0
Own weight	t	2,1	4,12	9, 92
Payload	t	8,0	16,0	32,0
Overall dimensions	length	mm	5 155	11 200
	width	mm	2 330	3 100
	height	mm	2 598	3 200
Maximal transport speed	km / h		25	
Axles		Single	Tandem type BUGE – hydraulic steering	Tridem - hydraulic steering
Brake system – doublé circuit		on single axle	on both axles	on thee axles
Tire dimensions		400 / 60 – 15,5" TL	500 / 60 – 22,5" TL	710 / 50 R 26,5 TL
Level meter			Embossed digits on the tank	
Draw bar eye infernal diameter	mm		Ø 40	Ø 50
Draw bar load (vertical)	kg		1720	5400
Machine total weight	t		20,12	41,92
Options				
Pump with hydraulic drive	model		AGROTOP 300 PHY / BANJO	
Protective equipment for operators when handling UAN	pcs		1 kit	

* Cisterns can be produced with volumes: 2,7; 4; 5; 6; 7,7; 9; 12; 18 and 25 cubic meters using single or double (with the same volumes) reservoirs.



„MERCEDES 1317" attached on cistern UAN 8

UAN 32 rear view



UAN 16



UAN 32



UAN 8



END WHEEL DRILL,

Series EDW

POLINA

Machine Type: Mechanical end wheel drill.

Usage: For sowing of autumn crops i.e. wheat and row sowing of forage and silage plants.

Operating components: - double sowing apparatus with hydraulic pressing and over compacting wheels;

Securing: Individual spring protection. Mechanism assuring protection during the back side movement, switching off the gears, during transportation and interpretational maneuver.

Labouring operations: For uniform placing the seeds on the requested depth and sowing norm. Fertilizing with granulated fertilizers. Leveling. Compacting. Also can be used for "Tramlining" sowing!

Technical characteristic		EWD 1500 – base type						EWD 1500 K - carrier type			
Power requirement	HP	65 - 90						65 - 90			
Working with a full set of sowing apparatus	m	3,90						3,90			
Transport width	m	4,62						2,95			
Transport height	m	1,75	2,25	1,75	2,25	2,25	1,75	2,25	2,0	2,5	2,5
Transport length	m	3,9	3,9	4,0	4,0	3,9	4,0	4,0	6,45		
Work bodies	Sowing apparatus	pcs						26			
Row spacing	cm	15						15			
Depth of seeding	cm	4 - 8						4 - 8			
Volume of the seed hopper *	dm ³	1500						1500			
Rate of seeding	kg / h	up to 360						up to 360			
Work speed	km / h	5 - 14						5 - 14			
Transportation speed (maximal)	km / h	25						25			
Transport clearance	cm	23						31			
Support-drive wheels	pcs	2						2 work + 2 move			
Tire dimension of the support- drive wheels / carrier		7,50 – 20"						7,50 – 20" / 10,0/75-15,3"			
Internal diameter of drawing bar	mm	Ø 40						40 / Ø 36 two point beam			
Machine weight	t	2,35		2,20	2,50	2,45	2,35		2,7		2,85
Operating weight (loaded with wheat)	t	3,15 – 3,55		3,00 – 3,40	3,30 – 3,70	3,25 – 3,65	3,10 – 3,90		3,50 - 3,90		3,65 - 4,10
Options											
Wheel carrier	pcs								x	x	x
Fertilizing		x			x	x	x		x		x
Marker with hydraulic control	2 pcs		x		x	x		x		x	x
Tine leveling harrow	13 pcs			x	x		x	x			
Options designation		EWD 1500 F	EWD 1500 M	EWD 1500 Y	EWD 1500 FMY	EWD 1500 FM	EWD 1500 FY	EWD 1500 MY	EWD 1500 KF	EWD 1500 KM	EWD 1500 KFM

* Bunker volume under the option fertilizing, is divided in ratio 60% for seeds and 40% for fertilizer.



LAVENDER HARVESTER,

Machine Type:

Lavender Harvester (Combine).

Usage:

For harvesting lavender and other herbs.

Operating components:

- rotary mower 8 cutters operating;
- 2 rotary collectors;
- front (loading) and rear (unloading) elevators.
- chain conveyor for stuffing and mowing the raw material in the hopper in and out.

Series KL

Securing:

Fully electrical control form the tractor's cabin. Hydraulic operation of the main systems and safety elements included.

Labouring operations:

For lavender mowing and collecting. Hydraulic opening of the rear unloading lid (KL 18 modification) and elevator unloading of KL 22 (with rear elevator).

LAVENDER

Thechnical Carachteristic			KL 18	KL 22
Power requirement		HP	50-90	50-90
Working with a full set of tines		m	2,47	2,47
Transport width		m	3,98	3,98
Transport height		m	8,3	10,2
Work bodies	Rotary mower cutters	pcs	4	4
	Collecting wheels	pcs	2	2
Cutting height		mm	100 – 650	100 – 650
Grip on the mower		mm	1000	1000
Volume of cargo space		m ³	18,00	22,00
Additional coolers for hydraulic oil and level gauge		kg / h	yes	yes
Operational speed (depending on the work conditions)		km / h	5 - 15	5 - 15
Transport speed (maximal)		km / h	40	40
Unloading elevator			no	yes
Tire size			11,5 / 80 – 15,3” 16 PR	11,5 / 80 – 15,3” 16 PR
Track (wheels distance adjustable) dimensions		mm	1400 ...1700	1400 ...1700
Draw bar internal eye diameter		mm	Ø 40	Ø 40
Machine weight		t	4,3	4,9

* wheels are adjusted mechanically



KL 22
with rear
elevator



Frontal elevator



Assembly stage

