



**HAY
MAKING**

DISC MOWERS DKF



DKF rotary disc mowers are rear-mounted mowers designed for cutting all types of grass and forage plants, mowing areas alongside roads and for public utility works.

This type of mower is equipped with powerful cutter bars with gear transmission, highly reliable even during intense operation. They are also suitable for operation under difficult

conditions, such as: flattened and tangled grass, damp terrain, terrains with molehills, slopes, during moderate rainfall, etc.

Advantages:

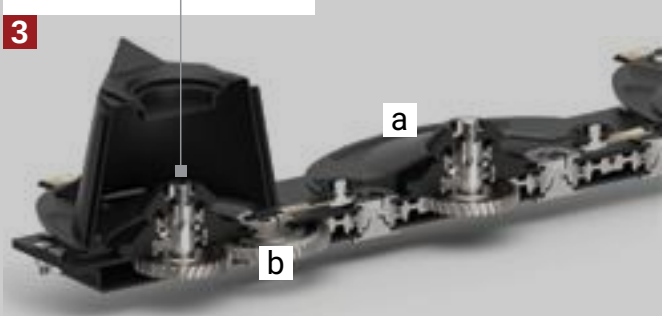
- Powerful and reliable cutter bar with gear transmission
- Does not destroy either plant stem or root
- Scatters and lays mowed mass (does not flatten swath by pressure), shortening drying time and facilitating the operation of wheel rakes
- Large working width

Key Features



WORKING POSITION
Designed to work on slopes from -45 up to +45 degrees.

FRAME:
a) Safety system for automatic release of the cutter bar in case of obstacle impact;
b) Mechanism for ground contour adapting
c) Hydraulic lifting system of the cutter bar.



CUTTER BAR:
a) Oval-shaped disc for more efficient flow of mowed mass through the mower;
b) Gear transmission in oil bath enables intensive use and high work rates with great reliability.



A SET OF V-BELTS
transmits power to gearbox.



								km/h	ha/h			
DKF 130/3 1N	1,3	3	2	1N	18(24)	540	3030	16	2	3-9	✓	320
DKF 160/4	1,6	4		I, II	21(29)				2,5			444
DKF 200/5	2	5			25(34)				3,2			492
DKF 240/6	2,4	6			31(42)				3,8			548
DKF 280/7	2,8	7			38(52)				4,5			590
DKF 320/8	3,2	8			41(56)				5			650

DISC MOWERS DKK



DKK rotary disc mowers are rear tractor mowers with a floating cutting bar intended for mowing all types of grass and fodder plants.

These mowers have powerful cutting bars with toothed transmission and are characterized by high reliability even during intensive use. They are also suitable for use

in difficult working conditions such as: fallen and tangled grass, wet terrain, terrain with molehills, during moderate rainfall, etc.

Advantages:

- Faster regrowth and regeneration of the plant, and therefore a higher yield
- It loosens, lays down and breaks the mown mass and thus shortens the drying time and makes the work easier for the hay rakes
- A large working width
- Ideal terrain copying

Key Features



CENTRAL FLOATING SYSTEM
enables ideal copying and adaptation to the terrain.



SPRINGS
Strong springs allow regulation and optimal pressure of the cutting bar on the ground.



LOCKING
Automatic fixing of the cutting bar at a certain height from the ground, faster and easier transition from swath to swath.



HYDRAULICS
A powerful hydraulic system enables lifting and turning back of the cutting bar as well as safety disengagement due to encountering an obstacle.



VERSION OF THE CONDITIONER WITH FLAILS
speeds up the drying process of cut grass and eliminates the need for a rake.



VERSION OF THE CONDITIONER WITH RUBBER ROLLERS
crushes the grass and reduces drying time, which helps preserve the high protein values of the grass.



								km/h	ha/h			
DKK-C 260/6	2,6	6	2	II	74 (100)	1000	3165	12+	2,8	4-9	✓	1340
DKK 260/6	2,6	6	2	II	66 (90)	1000	3165	12+	2,8	4-9	✓	1050
DKK-C 340/8	3,4	8	2	II	74 (100)	1000	3165	12+	4	4-9	✓	1460
DKK 340/8	3,4	8	2	II	74 (100)	1000	3165	12+	4	4-9	✓	1180

DOUBL EUTTER BAR MOWERS



Rear-mounted tractor mowers with two moveable cutter bars designed for cutting all types of grass, forage plants and medicinal herbs, as well as for public utility works.

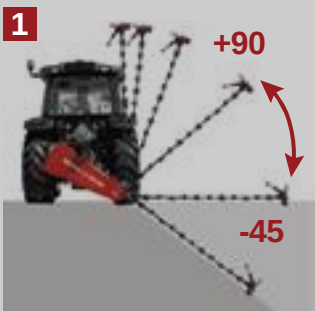
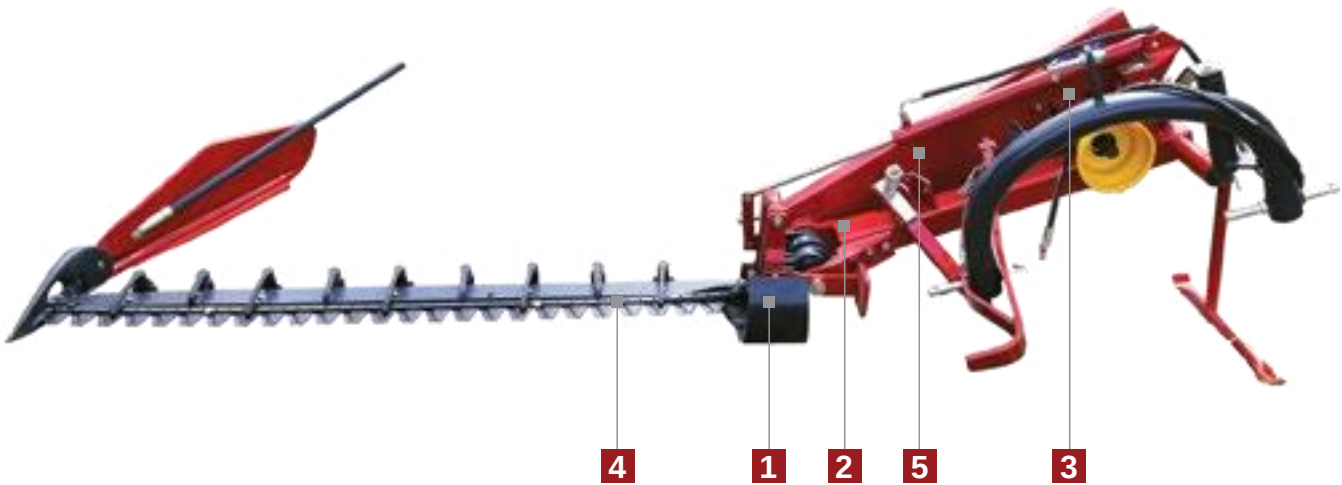
This type of mower is equipped with high-quality cutter bar made in Germany (ESM) and can be used for mowing even under difficult

conditions, such as: flattened and tangled grass, damp terrain, terrains with molehills, slopes, during moderate rainfall, etc.

Advantages:

- Faster regeneration of plants and therefore greater yield
- Can be used in vertical position (+90 degrees) for trimming hedges, etc.
- Scatters and lays mowed mass (does not flatten swath by pressure), shortening drying time and facilitating operation of wheel rakes
- Low cost and easy maintenance

Key Features



WORKING POSITION
Adaptation to slopes
up to +90 to -45 degrees.



CUTTER BAR:
drive mechanism (shafts
with eccentric plates).



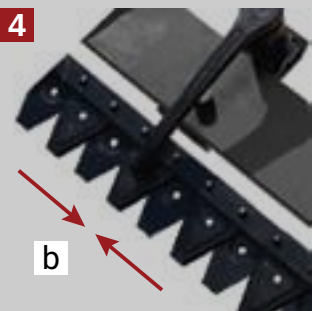
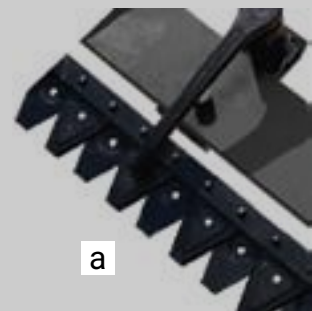
FRAME:
a) Safety system for automatic release of
the cutter bar in case of obstacle impact;



b) Hydraulic lifting system (optional);



CUTTER BAR:
a) Serrated knives for difficult working conditions;
b) Reciprocating movement of cutter bars (Busatis system) provides precise, scissor-like
cutting (without ripping) and contributes to faster plant regeneration and growth.
c) Main bar is made of special type of steel (spring steel), offering high strength and
appropriate flexibility.



A SET OF V-BELTS
transmits power to cutter
bar driveline.



			 cat	 min KW(HP)	 RPM	km/h	ha/h	 cm	 hydraulic	 Kg
LK 125/2 1N	1,25	32	1N	18(24)	540	12	1,5	3-9		172
LK 170/2	1,7	45	I,II				2			220
LK 170/2 H	1,7	45					2			228
LK 190/2	1,9	51		25(34)			2,3			224
LK 190/2 H	1,9	51					2,3			238
LK 225/2 H	2,25	61								3,0

SINGL EUTTER BAR MOWERS



Rear-mounted mowers with single cutter bar and double fingers are designed for cutting all types of grass and forage plants.

This type of mower is very simple and easy for handling and maintenance. Due to

high-quality materials and parts used for manufacturing, they are very durable.

Advantages:

- Easy handling
- Reliable and high-quality cutter bar
- Low maintenance
- Suitable for mowing in areas where there are stones

Key Features



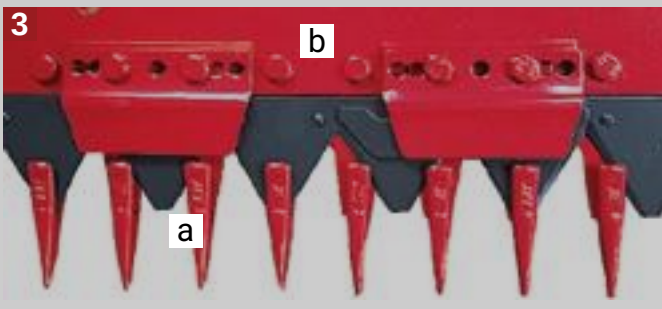
LK 120/1 1N
Model for the 1N category of tractors



TRANSMISSION
through V-belts with
belt tensioners.



FRAME:
Safety system for automatic
release of the cutter bar in
case of obstacle impact;



CUTTER BAR:
a) Double fingers (forgings);
b) Main bar is made of special type of of stainless
steel (spring steel), offering high strength and
appropriate flexibility.



CUTTER BAR DRIVE
SYSTEM



						km/h	ha/h		
LK 120/1 1N	1,2	15 / 11	1N	18(24)	540	10	1,2	3-9	160
LK 160/1	1,6	21 / 15	I, II				1,6		188
LK 180/1	1,8	24 / 17					1,8		194
LK 210/1	2,1	28 / 20					2,1		210

HAY TEDDERS



Hay tedders are primarily used for spreading and turning the mown grass mass. Evenly spread grass mass significantly accelerates drying. This reduces the losses caused by crushing, reduces the dependence on bad weather and improves the storage of nutrients in the mown grass.

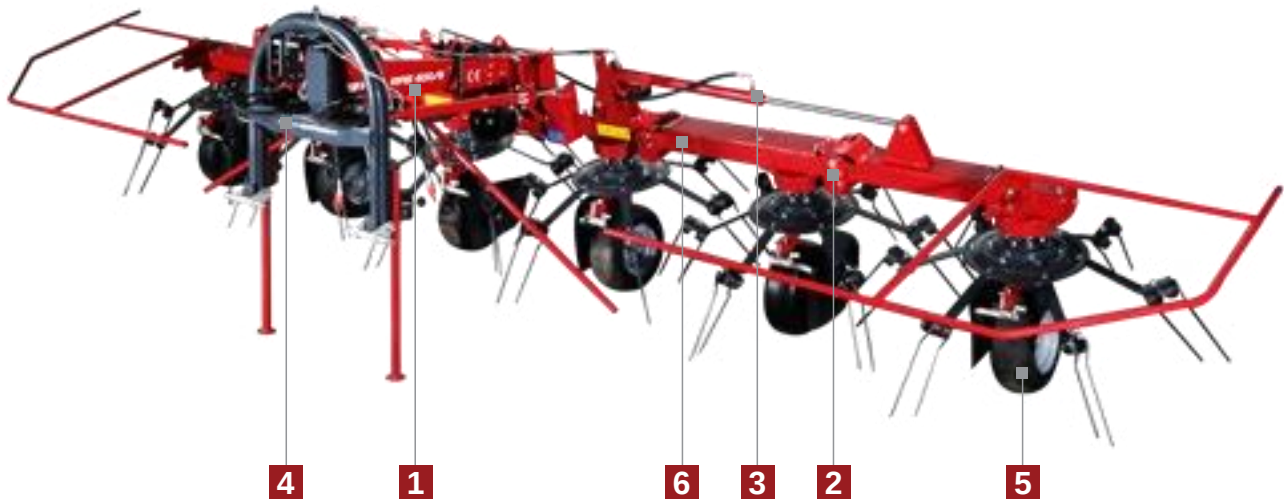
This machine is constructed with swivel heads under which there are wheels that perfectly follow the configuration of the terrain and thus allow the spring elements to evenly and gently grip the grass mass

and distribute it behind the machine. The rotating elements of the two adjacent rotors rotate in the opposite direction so that the two and two rotors catch the grass mass between them and scatter it behind the machine.

Advantages:

- Easy handling
- Evenly spreading the grass mass without crushing
- Does not damage the substrate and the root of the plant
- The possibility of adjusting the angle of scattering and the height and direction of movement
- Reliable operation with minimal maintenance

Key Features



ATTACHMENT FRAME
with terrain copying system and
stabilizing shock absorbers



DIGI DRIVE SYSTEM
Transmission with claw couplings, additional protection
against breakage possibility of rotor operation in all positions
from horizontal to vertical



HYDRAULICS SYSTEM
to move the machine from
working to transport position



**TERRAIN COPYING
SYSTEM**
Swivel attachment frame
with terrain copying system
and stabilizing shock
absorbers



**HEIGHT
ADJUSTMENT**
via wheels



**SECURING THE
MACHINE**
in the transport position



	 m		 mm	 cat	 min KW(HP)	 RPM	TRANSPORT  m	 hydraulic	ha/h			 Kg
RAS 400/4	4	4 / 6	9	I, II	18 / 25	540	2.5	✓	4	manual	15x6.00-6	574
RAS 600/6	6	6 / 6	9	I, II	35 / 48	540	2.85	✓	6.2	manual	15x6.00-6	732
RAS 800/8	8	8/6	9	II	66 / 90	540	2.85	✓	8	hydraulic	16x9.50-8 16x6.50-8	1100

ROTARY RAKES



Rotary rakes are designed for raking mowed mass and represent the latest design of machines for this purpose.

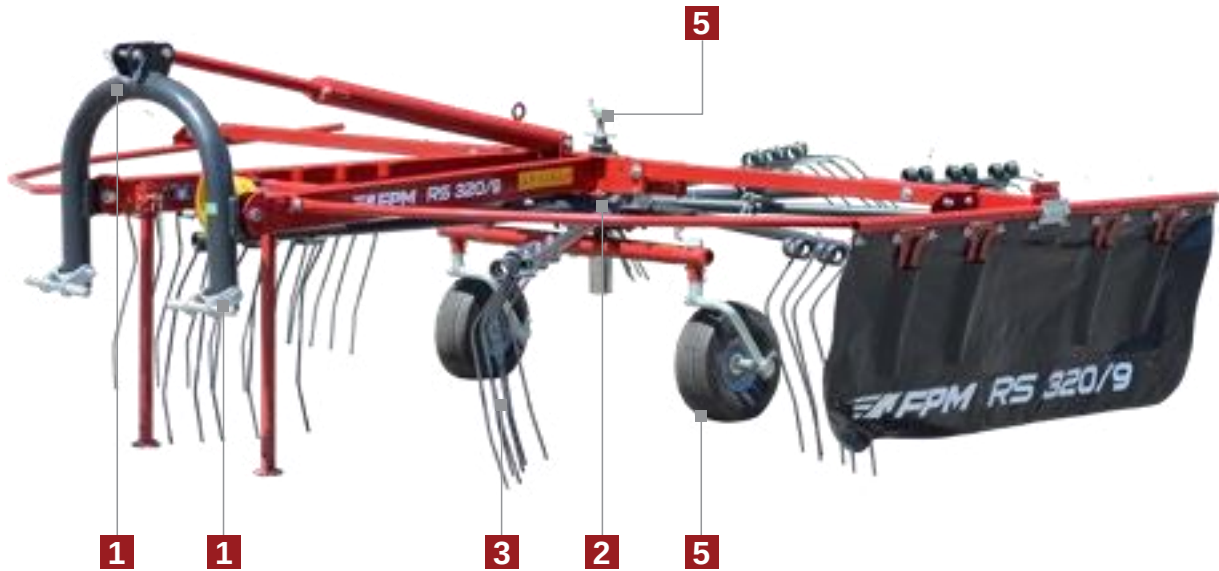
This type of machine collects only cut grass without unwanted impurities such as dirt and rocks, delivering quality fodder. In addition,

using this type of machines prevents tangling and flattening of the swath, making the process of balling much easier.

Advantages:

- Suitable for low powered tractors
- It neither flattens nor tangles the swath
- Collects only cut grass without unwanted impurities (dirt, rocks, etc.)
- Low costs and simple maintenance

Key Features



MECHANISM FOR GROUND CONTOUR ADAPTATION
with central shock absorber



GEARBOX
with a set of bevel and helical gears



COLLECTING ELEMENTS
made of high-quality spring wire



4 WHEELS OPTION: VERTICAL WHEEL MOVEMENT
by +/- 10° improves ground contour adaptation. Turning the first pair of wheels allows the tractor to change direction without lifting the machine.



WORKING HEIGHT ADJUSTMENT:
a) by adjusting gearbox height;

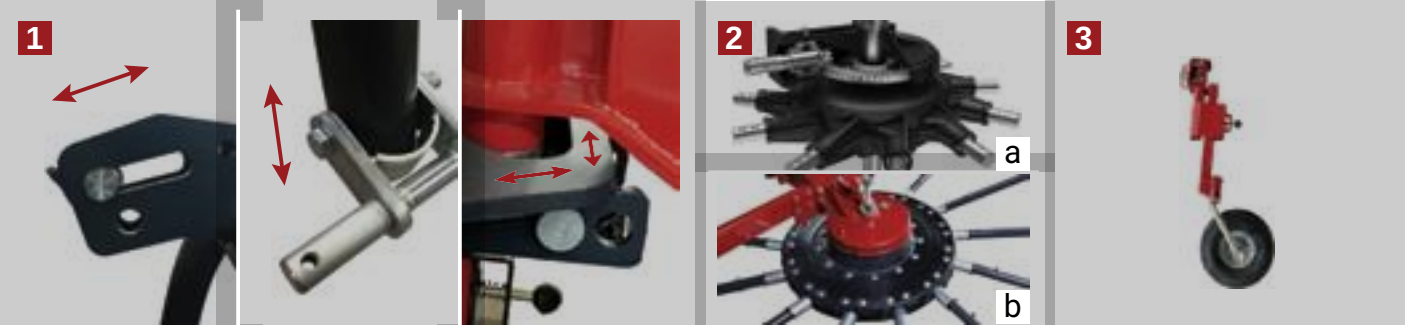
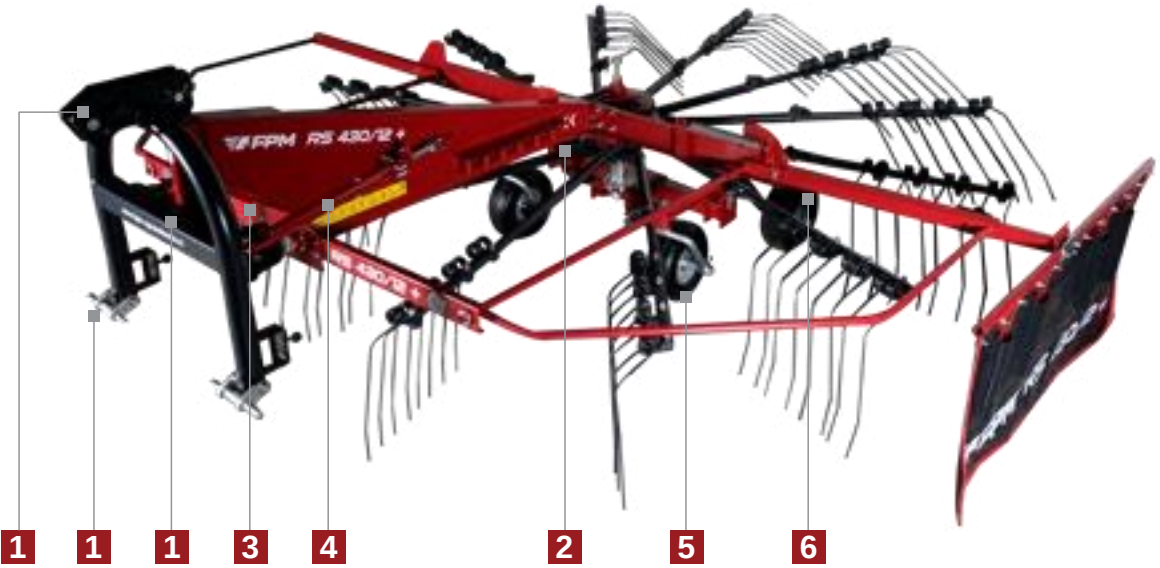


b) by adjusting wheel height.



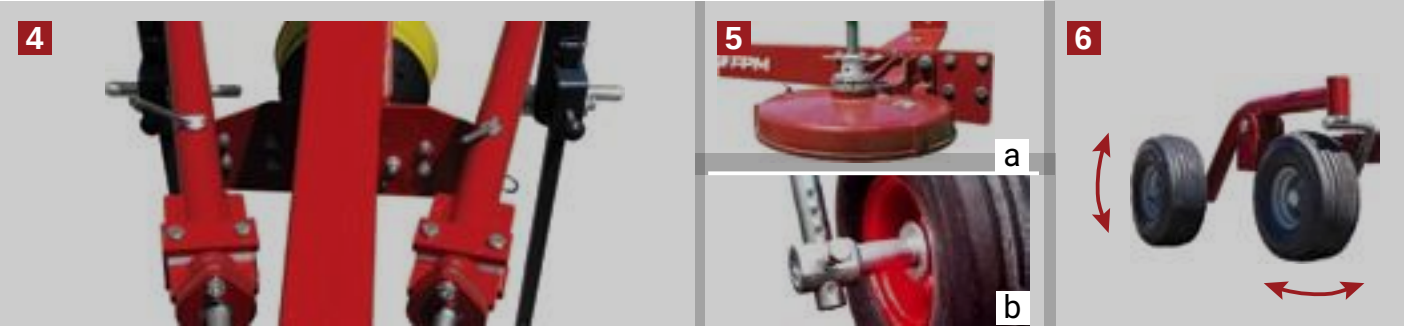
						km/h	ha/h		
	m	mm	mm	cat	min KW(HP)				Kg
RS 300/8	3,0	8 / 3	9	I, II	15(20)	15	4,8	2/15x6.00-6	332
RS 320/9	3,2	9 / 3					5		346

Key Features



THE FLOATING FRAME
enables ground contour adaptation in three planes - axes (upwards-downwards, left-right, forwards-backwards).

a) GEARBOX
b) RS 460/13+
FIFTH WHEEL
for better ground contour (optional)



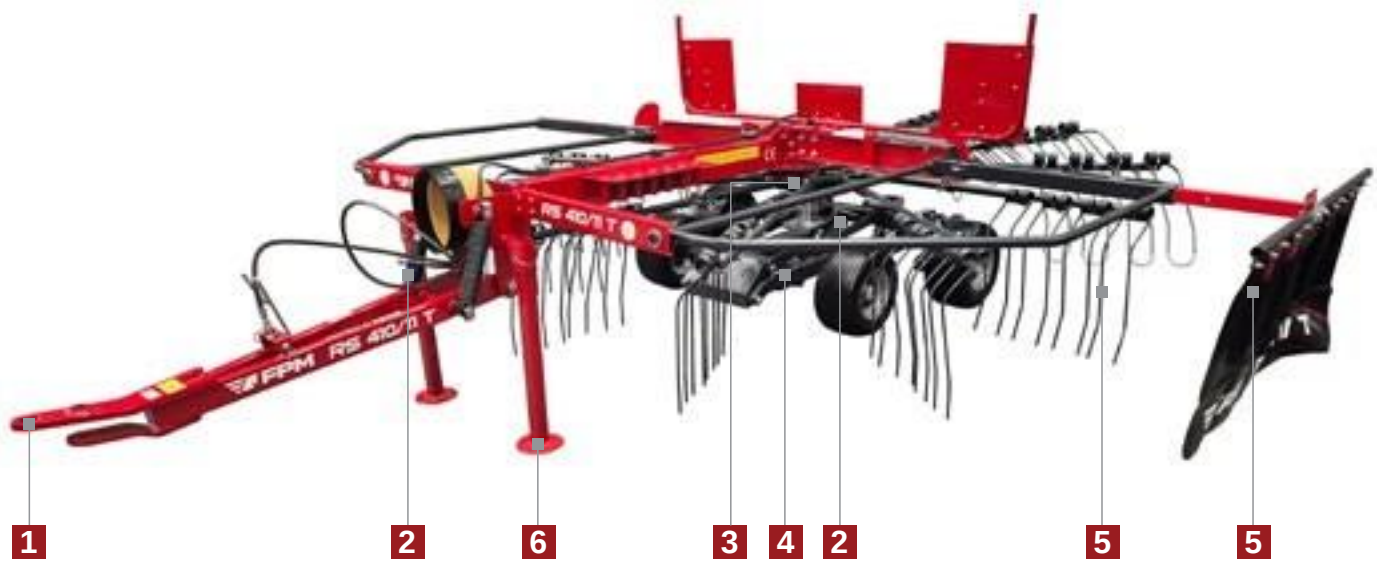
LATERAL SHOCK ABSORBERS
By removing the shock absorber lock, it is possible to move the rake relative to the tractor direction by $\pm 25^\circ$, allowing the tractor to turn without lifting the machine and without stopping raking. They also have an important function in ground contour adaptation.

WORKING HEIGHT ADJUSTMENT:
a) by adjusting wheel height;
b) by adjusting gearbox height.
VERTIC. WHEEL MOVEMENT
by $\pm 10^\circ$ improves ground contour adaptation. Turning the first pair of wheels allows the tractor to change direction without lifting the machine.



						km/h	ha/h		
	m		mm	cat	min KW(HP)				Kg
RS 410/11+	4,1	11 / 3	9	I, II	33(45)	15	6,2	4/15x6.00-6	580
RS 430/12+	4,3	12 / 4			33(45)		6,5	4/15x6.00-6	600
RS 460/13+	4,6	13 / 4		II	55(75)		6,9	4/16x6.50-8	786

Key Features



TRACTOR MOUNTING



HYDRAULIC CYLINDERS
X
for raising to transport and lowering to operating position



GEARBO



LEVERAGE SYSTEM
for regulating lift and mowing height



SWATH FORMER AND GATHERING ELEMENTS

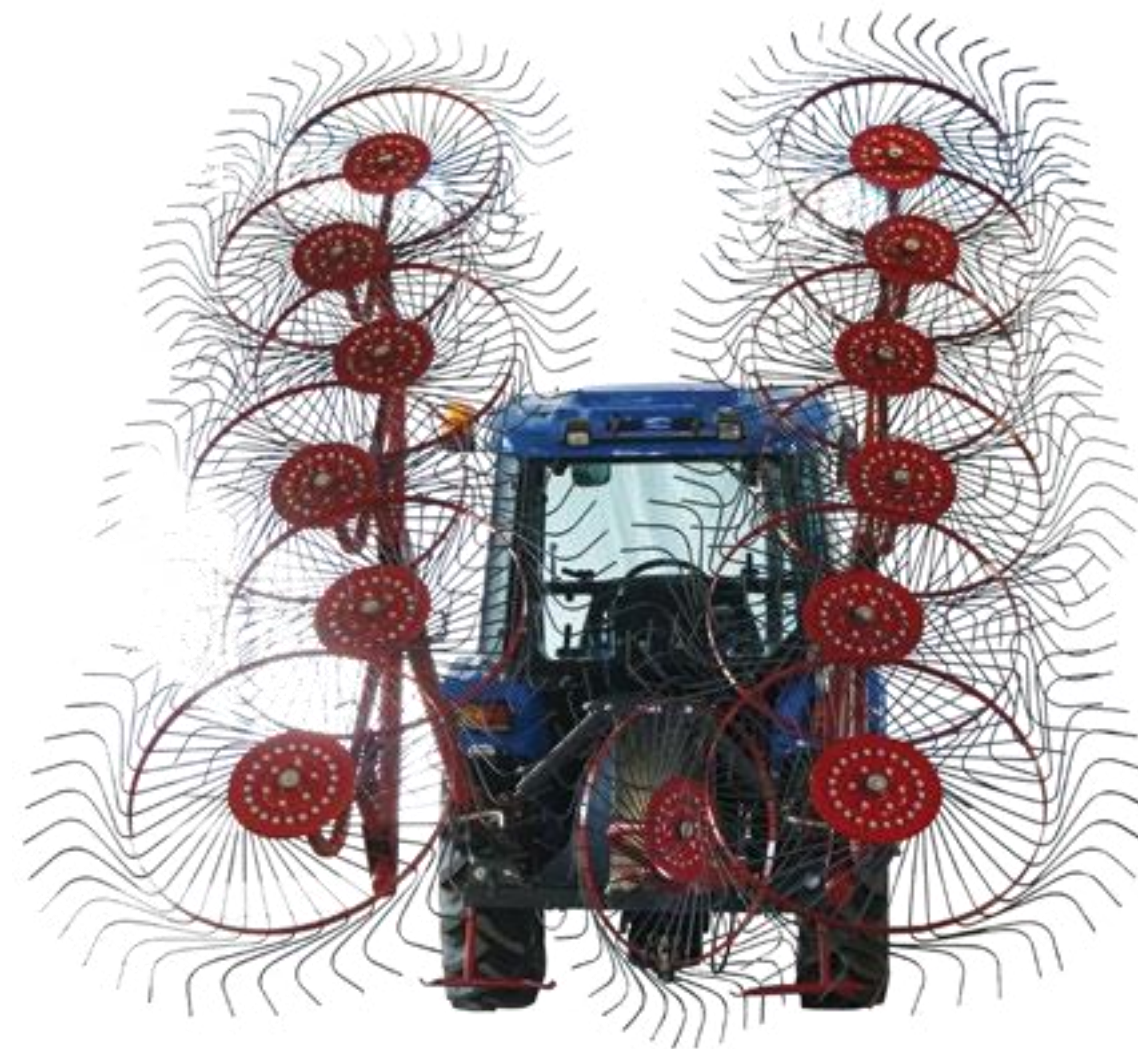


SUPPORT LEGS
for machine storage



						km/h	ha/h		
RS 410/11 T	4,1	11 / 3	9	I, II	33(45)	15	6,2	4/16x9.50-8	580

WHEEL RAKES



Wheel hay rakes are designed for raking, spreading and turning mowed mass, which shortens drying time.

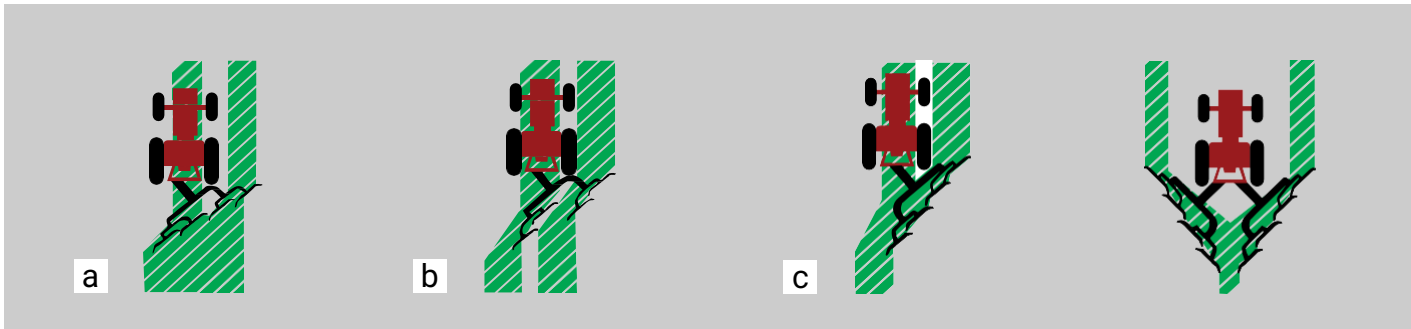
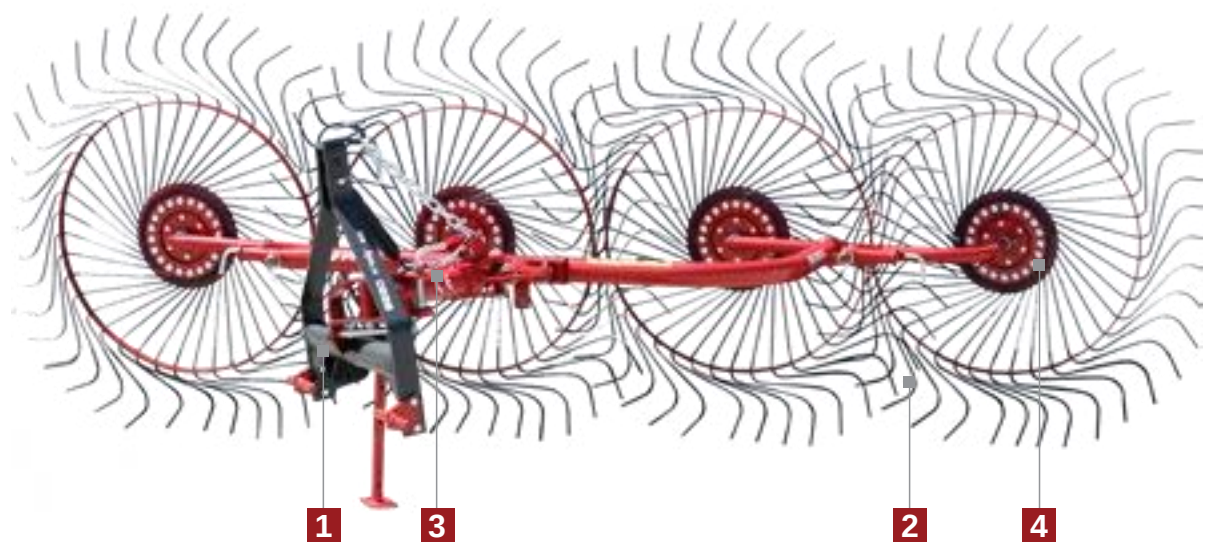
Due to good ground contour adaptation, this type of wheel rake is suitable for every type

of terrain, and is very reliable and easy to use due to simple and sturdy construction.

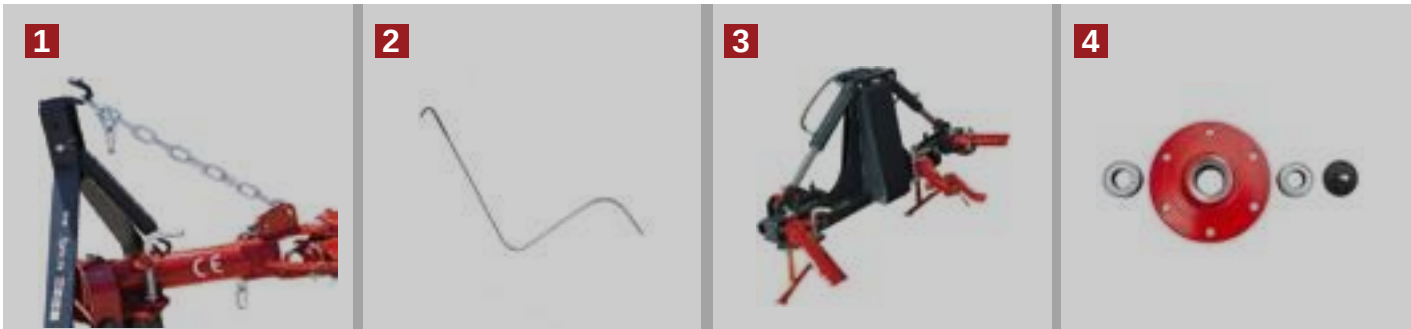
Advantages:

- Robust construction
- Possibility of raking hay in one, two or more windrows depending on quantity of mowed mass
- Low fuel consumption
- Low maintenance

Key Features



MULTIPLE APPLICATION:
a) Spreading;
b) Turning;
c) Raking.



**MECHANISM FOR
GROUND CONTOUR
ADAPTATION**

**COLLECTING
ELEMENTS**
have specific shape and
geometry and are made of
high-quality spring wire

**HYDRAULIC LIFT.
SYSTEM**
DSS 520/9
DSS 800/13

**COLLECTING
WHEEL HOUSING**
with high-quality bearings
and automatic lubricator



m / mm cat min kW(HP) km/h ha/h hydraulic Kg									
SS 240/4	2,4	4 / 40	7	I, II	18(24)	15	3,6		185
SS 300/5	3	5 / 40			30(41)		4,4		286
DSS 520/9H	5,2	9 / 40					7,5	✓	688
DSS 800/13H	8	13 / 40					12		846

BELT RAKES

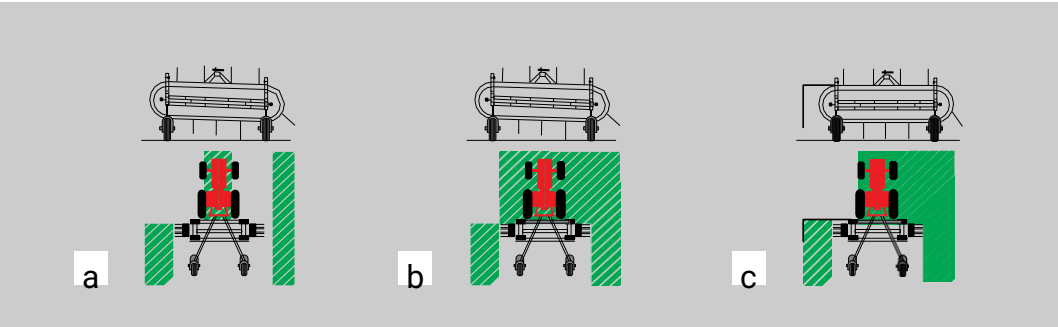


Belt rakes are designed for raking, spreading and turning mowed mass which shortens drying time. This type of rake is very easy to use and is suitable for low powered tractors.

Advantages:

- Suitable for use on uneven terrain and slopes
- Suitable for low powered tractors.
- Can operate in both movement directions (forward and reverse)
- Low maintenance

Key Features



MULTIPLE APPLICATION:
a) Spreading;
b) Turning;
c) Raking.



COLLECTING ELEMENTS
made of high-quality spring wire

MECHANISM FOR GROUND CONTOUR ADAPTATION

WORKING HEIGHT ADJUSTMENT



	 m	 / Σ	 mm	 cat	 min KW(HP)	km/h	ha/h	 Kg
TS 160/2 1N	1,6	2 / 18	6	1N	13(18)	8	1,3	172
TS 160/3 1N	1,6	3 / 27			15(20)		1,5	200
TS 200/3	2	3 / 36		I, II	18(24)		1,6	227
TS 200/4	2	4 / 48		I, II	22(30)		1,6	238
TS 220/4	2,2	4 / 52		I, II	22(30)		1,8	242



FLAIL MOWERS

LIGHTWEIGHT FLAIL MOWERS



The light universal flail mower is intended for versatile application on all agricultural areas, for the maintenance of green areas and neglected terrains.

Light universal flail mower can be used for shredding individual harvest residues, for shredding pruning residues in orchards and vineyards and crushing branches up to 40 mm thick. The construction of the flail

mower is intended for work on smaller farms, around weekend houses, in parks. Possibility of attaching to smaller - compact tractors. Lightweight construction with easy maintenance and low maintenance costs.

Advantages:

- Suitable for small farms and cottages
- High quality treated surface
- Low costs and easy maintenance
- Safe for work and the possibility of use along roads and in parks

Key Features



CONNECTING FRAME
possibility of lateral
movement in two positions



**LATTERAL
TRANSMISSION**
through toothed V-belts



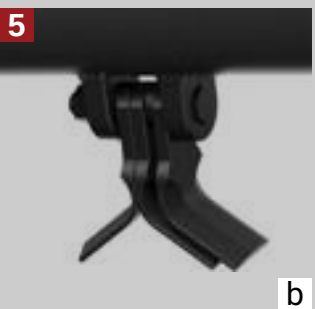
**HEIGHT
ADJUSTMENT**
with the roller



ROTOR
electronically balanced



BLADE OPTIONS:
a) Hammer blade;



b) Universal Y blade



	m	m	min KW(HP)	cat	RPM	mm				cm	Kg
LM 110	1.1	1.3	11(15)	1	540	114	3	14	42	2-7	188
LM 130	1.3	1.5	15(20)	1	540	114	3	18	54	2-7	246
LM 150	1.5	1.7	18(25)	1	540	114	3	20	60	2-7	262

FLAIL MOWERS FOR ORCHARDS AND VINEYARDS



Flail mowers for orchards and vineyards are a type of agricultural flail mower primarily designed for shredding of plant residue after pruning and for weed and grass in orchards and vineyards.

Beside their basic purpose, flail mowers can also be used for shredding of crop residue, for maintenance of all other agricultural, public, neglected or uncultivated areas. Due to electronically balanced rotor of high speed, blades precisely and efficiently shred

plant residue transforming it to light humus fertiliser, improving the quality and fertility of the soil and decreasing the use of inorganic fertilisers. This directly reduces agricultural production costs and increases yields.

Advantages:

- Shredding prunes up to 50 mm in diameter
- Low fuel consumption and low powered tractor requirements due to double spiral rotor and optimal positioning of rotor blades
- Lateral movement
- Low cost and easy maintenance

Key Features



HEIGHT ADJUSTMENT
using side slider and/or roller



LATERAL TRANSMISSION
through toothed V-belts



GEARBOX
with overrunning clutch:
a) Rear-mounting (standard);
b) Only front or combination of front and rear mounting (optional).



ROTOR
electronically balanced with forged hammer blades as standard option



BLADE OPTIONS:
a) Hammer blade (standard) - for difficult operating conditions (branches, thicker weeds, grass, etc.);
b) Universal Y blade (optional) - for easy operating conditions (grass, weeds, etc.).



Options

G	Rubber
H	Hydraulic
C	Side movement through cylinder
+	Front and rear attachment

NEW

All orchard flail mowers are now available with lubrication.

G/C series



H/C series



VM 155/180/200



COUNTER BLADES (standard)



SIDE MOVEMENT through cylinder (C series)



HYDRAULIC MOVEMENT (H series)



SIDE MOVEMENT through profiles (standard)



C series (standard)



G series (protective rubber)



H+ series

														
VM 155	1,55	1,7	26(35)					16	48		61	92		450
VM 155H											91	62	✓	460
VM 180	1,80	2,00	29(39)	I, II	540	2230	108	20	60	2-7	75	105		470
VM 180H											105	75	✓	480
VM 200	2,00	2,2	33(45)					24	72		85	115		490
VM 200H											115	85	✓	500

FLAIL MOWERS FOR FARMING



Flail mowers for farming are a type of agricultural flail mowers and are primarily designed for shredding of plant residue upon harvesting of field crops such as: maize, sunflowers, straw, sugar beet, rapeseed, rice, etc.

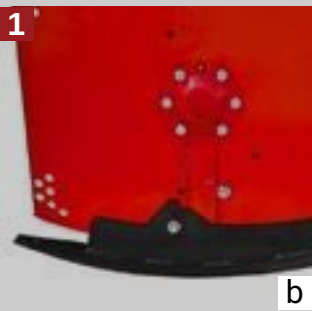
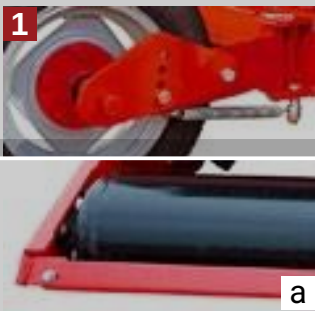
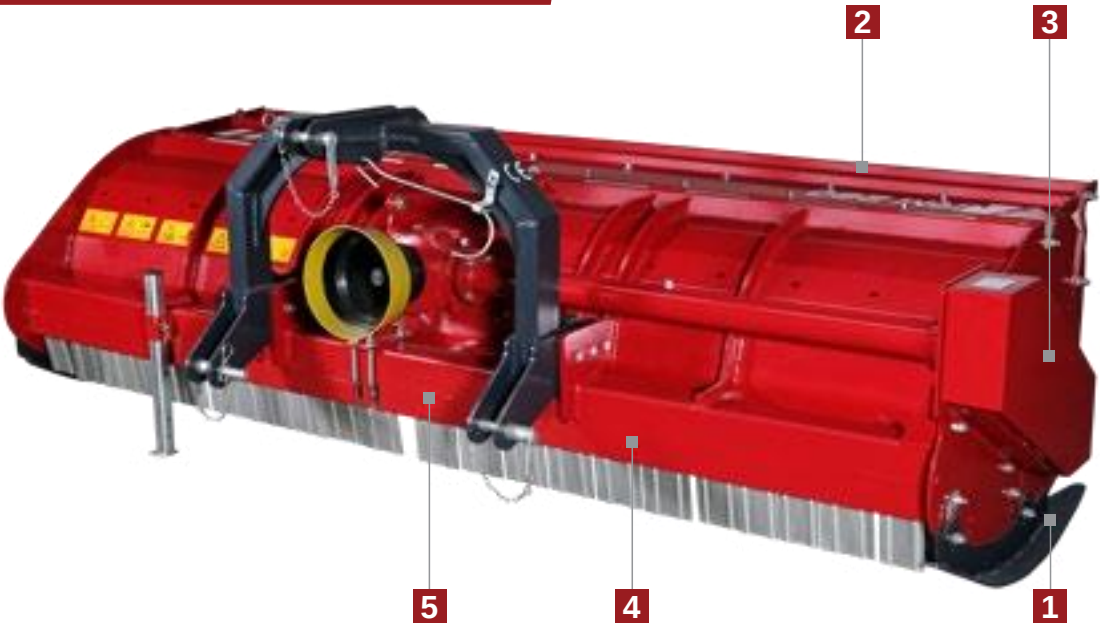
Beside their basic purpose, flail mowers can also be used for shredding of crop residue, for maintenance of all other agricultural, public, neglected or uncultivated areas. Due to electronically balanced rotor of high speed, blades precisely and efficiently shred plant

residue transforming it into light humus fertiliser, improving the quality and fertility of the soil and decreasing the use of inorganic fertilisers. This directly reduces agricultural production costs and increases yields.

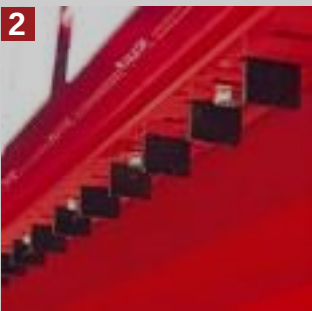
Advantages

- All-round application
- Robust and massive structure
- Using universal Y blades it shredding crop residue up to 50 mm in diameter; using hammer blades it shredding crop residue up to 80 mm in diameter
- Low cost and easy maintenance

Key Features



WORKING HEIGHT ADJUSTMENT:
a) Wheels (standard) or roller (optional; standard only for FPM 618.999);
b) Side sliders.



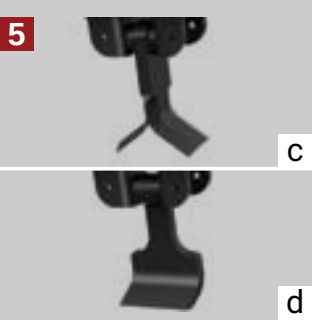
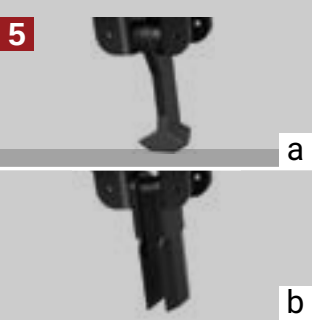
COUNTER BLADES
enable better shredding of cover residue. One set is standard + option for fitting one more set (for straw etc.).



LATERAL TRANSMISSION
through toothed V-belts.



ROTOR
electronically balanced



BLADE OPTIONS:
a) Hammer blade: for heavy-duty operation.
b) Straight blade: wheat, rye, barley, rice, etc.;
c) Universal Y blade (optional): for all types of crop residue, e.g. maize, sunflower, sugar beet, cotton, grass, weeds, etc.
d) Flail hammer blade.



													
RM 160	1,6	1,8	30(40)	II	540	2230	194	32	32	16	2-10	700	
RM 230	2,3	2,5	44(60)					48	48	24		858	
RM 280	2,8	3,0	51(70)					56	56	28		934	
RM 330	3,3	3,5	59(80)					68	68	34		1162	
RM 400	4	4,5	81(110)	II / III	540	2230	194	80	80	40	2-10	1980	
RM 560	5,6	6,1	110(150)					112	112	56		2680	

UNIVERSAL FLAIL MOWERS



Universal flail mowers are used for mulching plant residues in agriculture (corn, straw, sunflower, green plant residues), communal areas (along roads, railways, infrastructure, watercourses and ditches), fruit growing and viticulture (branches, vines and grass) and for pasture cleaning. UM are designed for crushing branches up to 10 cm thick.

Quiet operation is enabled by an electronically balanced rotor with hammer blades that allows extremely easy rotor operation. It also enables a smaller source of vibrations and minimal deformation, which prolongs the life of the flail mower. PRO version of the universal flail mower, in addition to universal use, is characterized by robustness and very

good technical solutions. These extraordinary features make it one of the professional flail mowers, useful in difficult working conditions in agriculture, communal areas and pastures. It is ideal for shredding tall grass and shrubs in neglected terrains. The construction of the flail mower is very robust and is intended for intensive use and crushing of branches.

Advantages:

- Suitable for the treatment of all types of surfaces (treated and untreated)
- Possibility of working in difficult conditions with a dense mass
- Low cost and easy maintenance
- Safe for work and the possibility of use along roads and in parks

Key Features



FLOATING SYSTEM



DOUBLE HOUSING with the interchangeable housing with counter blades for better protect of machine



LATERAL TRANSMISSION via a set of special V-belts; Automatic spanning



HYDRAULIC side movement



GEARBOX with two output shafts for front and rear attachment



ROTOR electronically balanced



NORMAL SERIES with rotor 168mm diameter, electronically balanced with heavy forged hammer blades



PRO SERIES with rotor 198mm diameter, electronically balanced with heavy forged hammer blades

												
	m	m	min KW(HP)	cat	RPM	mm				cm	hydraulic	Kg
ULM 230	2.3	2.5	40(55)	I, II	540/1000	168	4	24	48	3-12		788
UM 230+	2.3	2.5	40(55)	II	540/1000	168	4	24	48	3-12	✓	900
UM 250+	2.5	2.7	48(65)	II	540/1000	168	4	26	52	3-12	✓	955
UM 280+	2.8	3	55(75)	II	540/1000	168	5	30	60	3-12	✓	1005
UM 250 PRO+	2.5	2.7	65(90)	II, III	540/1000	194	5	22	44	3-12	✓	1005
UM 280 PRO+	2.8	3	80(108)	II, III	540/1000	194	5	24	48	3-12	✓	1094
UM 300 PRO+	3	3.2	100(136)	II, III	540/1000	194	5	26	52	3-12	✓	1194

OFFSE FLAIL MOWERS



Offset flail mowers, in addition to universal use in agriculture, are intended for mulching communal areas with a slope of $+90^\circ$ / -65° , especially watercourses, ditches, areas along roads and along lawns, orchards and pastures. Quiet operation is enabled by an electronically balanced rotor with hammer blades that allow extremely easy rotor operation, with low vibrations, minimal deformation and prolonged life of the flail mower.

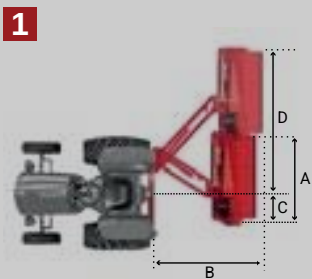
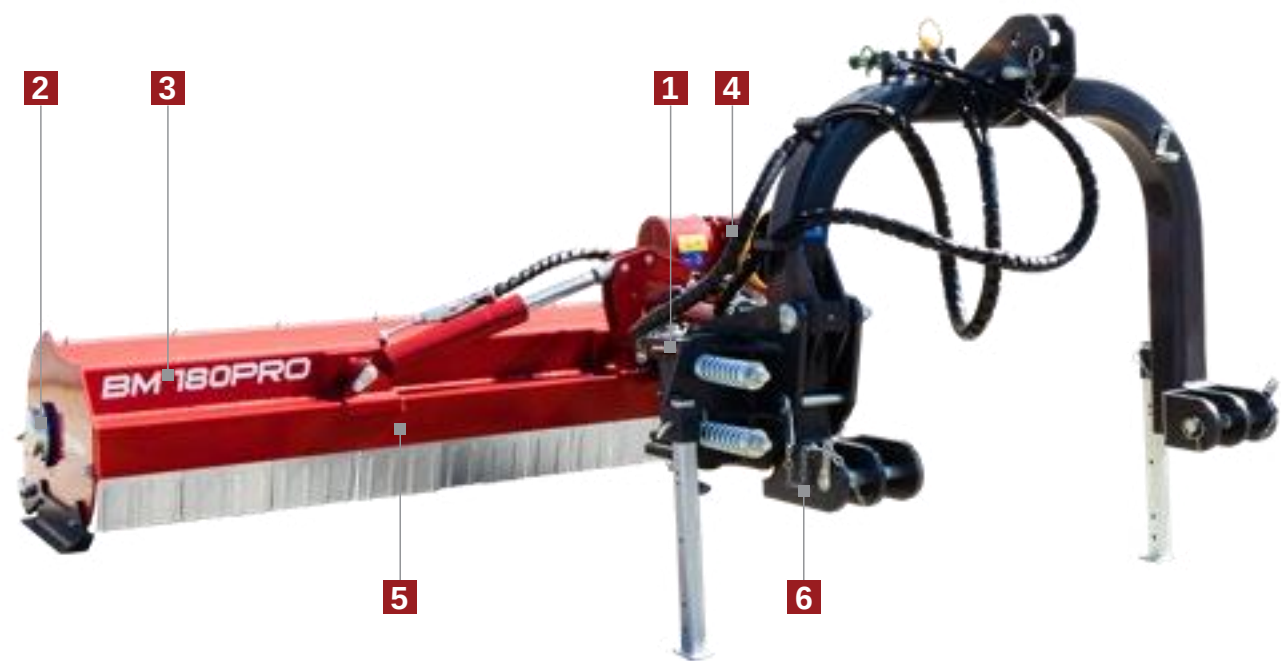
The lighter version of the side flail mower (BM 160/180/200) is intended for work with lighter tractors at lower working speeds for mulching agricultural and communal areas with an inclination of $+90^\circ$ / -65° . It is used for chopping grass and bushes on neglected terrains and branches up to 5 cm thickness. BM PRO series is designed for intensive works. The larger lateral displacement allows a built-in gearbox on the outside of the housing, which

is secured with robust protection. The spring-loaded safety mechanism allows it to move immediately in the event of an obstacle. This allows you to safely cross the obstacle. Both versions allow us to work behind the tractor and next to the tractor, cleaning embankments and canals. They have a solid construction made of high-hard and resistant sheet metal. The construction allows floating adaptation to uneven terrain.

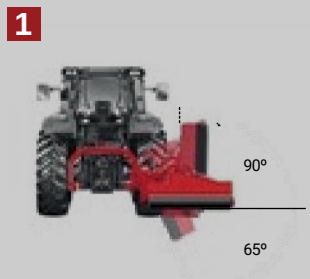
Advantages

- Possibility of using in an angle of -65° to $+90^\circ$
- Multiple use (in farming, fruit growing and in municipal works)
- Used for shredding crop residue up to 50 mm

Key Features



HORIZONTAL MOVEMENT
the range indicated in the table according to the model



VERTICAL MOVEMENT
from -65° to +90°



STRONG SIDE PROTECTION
of the rotor housing and bearings



DOUBLE HOUSING
with the interchangeable housing with counter blades for better protect of machine



GEARBOX
with the robust protection on the outside



ROTOR
electronically balanced with heavy forged hammer blades



PROTECTIVE MECHANISM
with springs, allows the current displacement of the side flail mower in a collision with an obstacle



												
	m	m	min KW(HP)	cat	RPM	mm	mm	mm	mm	mm	mm	mm
BLM 150	1.5	1.7	25(35)	II, III	540	114	3	20	60	2-7	✓	360
BM 160 PRO	1.6	2.1	33(45)	II, III	540	159	4	20	40	3-12	✓	710
BM 180 PRO	1.8	2.3	35(50)	II, III	540	159	4	22	44	3-12	✓	732
BM 200 PRO	2.0	2.5	53(70)	II, III	540	159	4	24	48	3-12	✓	788
BM 250 PRO	2.5	3.0	80(108)	II, III	540	159	5	30	60	3-12	✓	1080

1	A	B	C	D
BLM 150	150	175	31	220

1	A	B	C	D
BM 160 PRO	160	240	13	274
BM 180 PRO	180	240	13	294
BM 200 PRO	200	240	13	314
BM 250 PRO	250	240	13	346



**SOIL
CULTIVATION**

SIDE-SHIFT ROTARY TILLERS



Side-shift rotary tillers fall in the category of light-weight rotary tillers and are designed for primary and secondary tillage in crop farming, truck farming, fruit growing and viticulture.

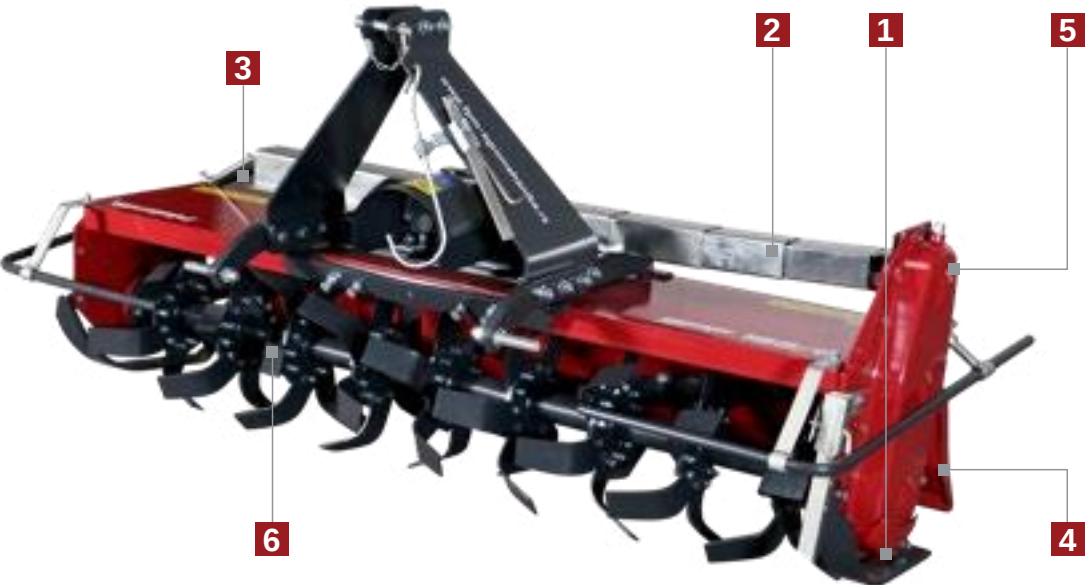
Due to the capacity for right-hand side shifting, this type of rotary tiller enables working the soil in close proximity to a plant, without any danger of tractor damaging the

branches, leafs or other parts of the plant. These machines are available in two classes: LPF (for easier operating conditions) and SPF (for medium-duty use).

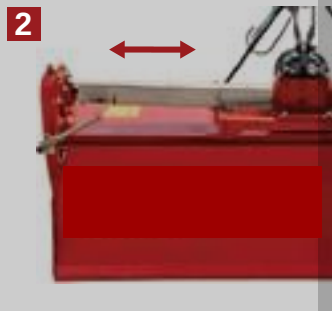
Advantages:

- Side movement
- Low fuel consumption and suitability for low powered tractors due to the optimal design
- High quality of the blades
- High reliability

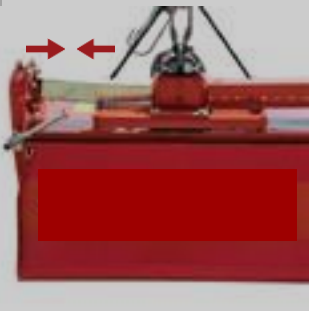
Key Features



WORKING DEPTH ADJUSTMENT
with help of side sliders



SIDE-SHIFTING
mechanism



HYDRAULIC S
(Optionally)



REAR HOOD
position setting adjusts the level of soil pulverization



TRANSMISSION
Chain drive transmission in oil bath



SPECIAL SHAPE OF THE ROTOR
With the helical arrangement of blades that enable efficient pulverization of soil with minimal energy consumption



SPF/LPF series



LF series (fixed version)

			 min KW(HP)	 cat	 RPM	 RPM	 mm							
LF 105	1,05	1,2	11(15)	1N	540	231	48	4 / 20	18				157	
LF 125	1,25	1,4	15(20)					4 / 24	18				172	
LF 145	1,45	1,6	18(25)					I, II	4 / 28	18				186
LF 165	1,65	1,8	22(30)						4 / 32	18				195
LPF 105	1,05	1,2	11(15)	1N	540	231	48	4 / 20	18	39 50		66 55	157	
LPF 125	1,25	1,4	15(20)					4 / 24	18	39 60		86 65	172	
LPF 145	1,45	1,6	18(25)	I, II				4 / 28	18	39 70		106 75	186	
LPF 165	1,65	1,8	22(30)					4 / 32	18	39 80		126 85	231	
LPF 165H	1,65	1,8	22(30)					4 / 32	18	39 80	 hydraulics 	126 85	270	
SPF 145	1,45	1,6	18(25)	I, II				540	280	63,5	4 / 28	20	39 70	
SPF 165	1,65	1,85	22(30)		4 / 32	20	39 80					125 85	310	
SPF 165H	1,65	1,85	22(30)		4 / 32	20	39 80				 hydraulics 	125 85	430	
SPF 185	1,85	2,05	26(35)	II	4 / 36	20	39 90					145 95	335	
SPF 185H	1,85	2,05	26(35)		4 / 36	20	39 90				 hydraulics 	145 95	450	
SPF 205	2,05	2,25	37(50)		4 / 40	20	39 105					155 95	380	
SPF 205H	2,05	2,25	37(50)		4 / 40	20	39 105				 hydraulics 	155 95	476	

HEAVY-DUTY ROTARY TILLERS ROTAS



ROTAS heavy-duty rotary tillers fall into the category of heavy-duty rotary tillers and are designed for primary and secondary tillage in all types of agricultural production.

Due to the four-stage reduction gear and their robust and massive structure, this type of rotary tiller can be used

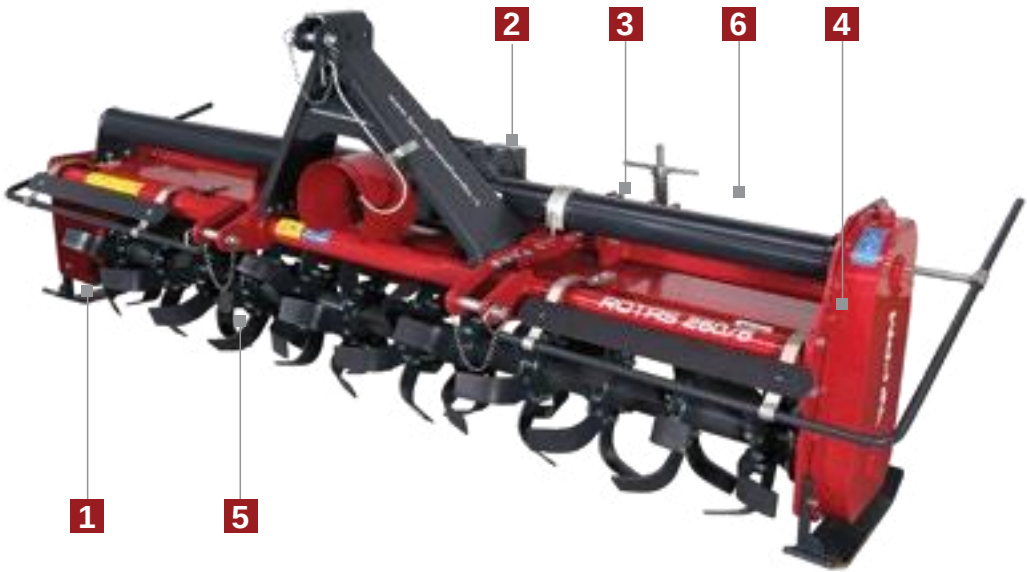
even under the most difficult operating conditions and on all types of soil.

Advantages:

- Robust and massive structure
- Four speed gearbox (four rotor rotation speeds)
- Two types of rotors with the option of four or six blades per flange
- High quality blades

Key Features

2			540
	A/B	min ⁻¹ (rpm)	
	I - 24/19		198
	II - 19/17		224
	III - 17/19		279
	IV - 19/24		316



WORKING DEPTH ADJUSTMENT
through side sliders (up to 20cm)



GEARBOX
Four speed gearbox with two pairs of gear wheels



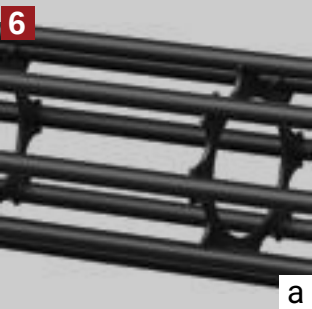
REAR HOOD
position setting adjusts the level of soil pulverization



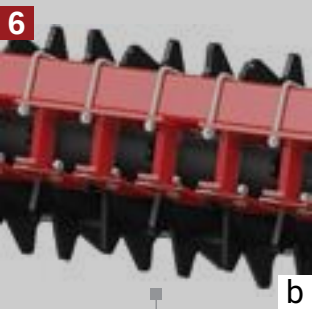
TRANSMISSION
Gear drive transmission in oil bath



ROTOR
Special shape of the rotor blades and their helical positioning save energy and reduce the load of the tractor. Quick and easy rotor replacement allows both primary and secondary tillage.



OPTIONS:
Roller options:
a) Cage roller
b) Packer roller



													
	min KW(HP)	cat	RPM	RPM	mm								Kg
ROTAS	1,4	1,7	30(40)	I, II	540	198-316	88,9	4 / 24	20	46		94	356
ROTAS	1,6	1,9	33(45)					4 / 28		65		95	364
ROTAS	1,8	2,1	37(50)					4 / 32		85		95	430
ROTAS	2,1	2,4	44(60)					4 / 40		108		102	470
ROTAS	2,6	2,9	55(75)	II	540	198-316	88,9	4 / 48	20	114		146	556
ROTAS	2,8	3,1	67(90)					4 / 52		140		140	710
280													

POWER HARROWS



Power harrows are modern machines intended for cultivating various types of land.

Power harrows finely cultivate the soil, clean it and distribute evenly over the entire working width to create the perfect seedbed: they are usually used for secondary tillage

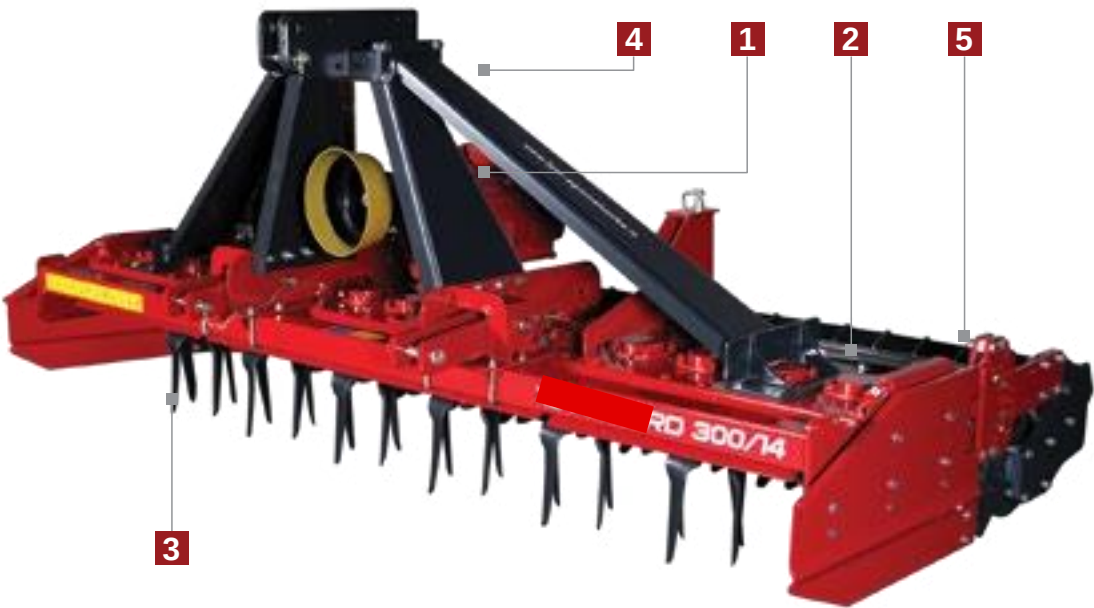
after plowing and can break even the most compacted furrows in one pass. The maximum processing depth of these models is up to 28 cm.

Advantages:

- Vertical working bodies enable better tillage in relation to working bodies on a horizontal rotor because they do not create a compacted layer at the bottom of tillage;
- Robust gear transmission on hoe rotors;
- High quality hoes;
- Hydraulic linkage system for independent seed drill for processing in one pass (optional)



Key Features



GEARBOX
with two output shafts for
installment of a seed drill
for ground processing in
one pass



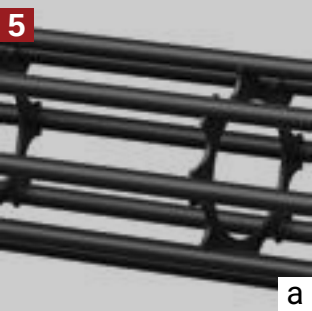
**LEVELING
BAR**



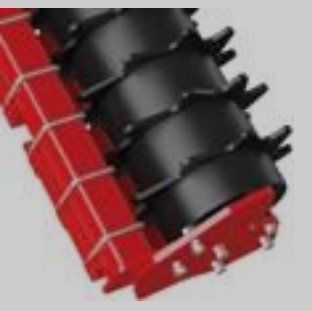
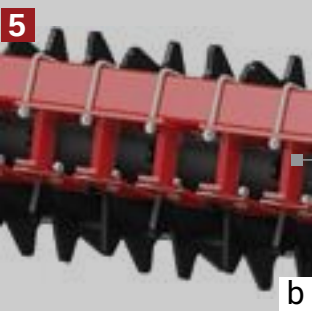
ROTORS
Robust gear transmission on hoe rotors;
High quality hoes



**HYDROLIFT
SYSTEM**
Option for a model
RD 300/14



ROLLER:
a) Cage roller
b) Packer roller



**HEIGHT
ADJUSTMENT**
through the roller



									
	m	min KW(HP)	cat	RPM	RPM			cm	Kg
RD 140/7	1,4	23(31)	I/II	540	320	7	14	26	380
RD 160/8	1,6	30(41)	I/II	540	320	8	16	26	410
RD 180/9	1,8	38(52)	I/II	540	320	9	18	26	440
RD 200/10	2	44(60)	II	540	320	10	20	26	890
RD 250/12	2,5	51(70)	II	540	320	12	24	26	1080
RD 300/14	3	59(80)	II	540	320	14	28	26	1250

IN- ROWER HARROWS



NEW



BRD in-line power harrows are intended for work in orchards, primarily for cultivation between trees with a minimum distance of 50 cm.

It can work in difficult conditions and hilly terrain thanks to the tilting of the working head. BRD removes grass from the ground and does not form a hard layer under the treated surface. The working part of the

machine is a rotary harrow with 4 rotors, while there are two hoes on each of them. The working width of the BRD is 70 cm, and the displacement to the side is about 50 cm. The maximum depth of tillage is up to 15 cm.

Advantages:

- Lateral movement with adjustable sensor rod and hydraulic system
- High quality hoes
- The four foot points ensure the stability of the stored machine
- Pull-out wheel set for additional stability of the machine in operation
- Reinforced gearbox

Key Features



HYDRAULICS SYSTEM
consisting of tank with filter,
pump, distributor and cylinder



**VERTICAL WORKING
BODIES**
enable better tillage



**THE WORKING
DEPTH**
is adjustable with a
2-wheel frame



**REINFORCED
TRANSMISSIO
N**
The gearbox is protected
against collisions with
obstacles



SIDE MOVEMENT
is realized with the sensor spring



										
	min KW(HP)	cat	RPM	RPM						
BRD 70/4	0,65	22(30)	I	540	350	4	8	15	0,5	410



**ROAD
MAINTENANCE**

SNOWPLOUGHS



Tractor snowplough is designed for removing snow from local and rural roads, farms, and other public and

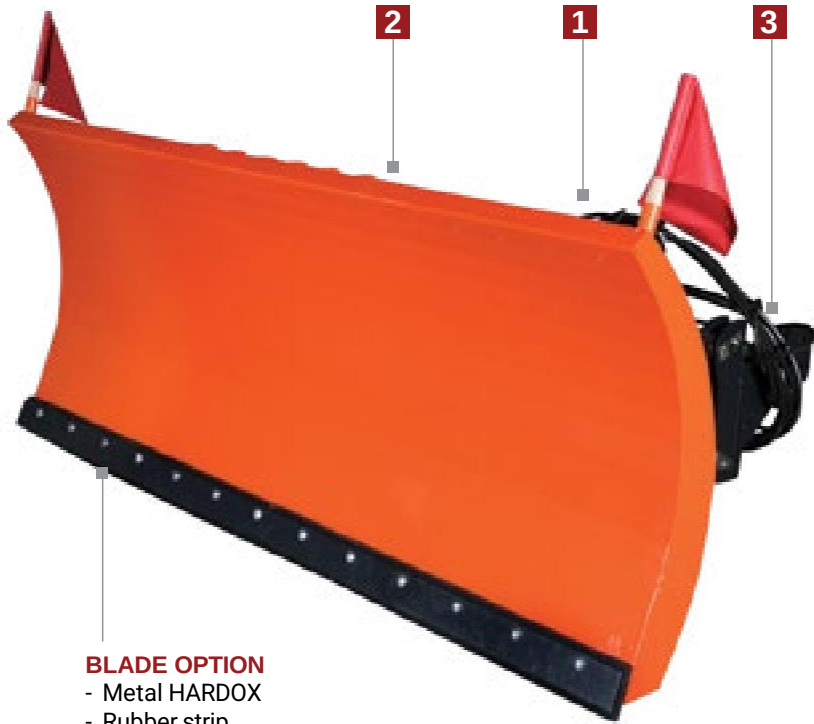
private areas. There are two models in our range: front PDS model and rear ZDS model.

Advantages

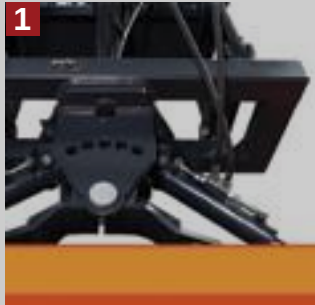
- Multiple adjustment options
- Can be used both for moving forward and in reverse
- Robust structure
- Low maintenance

					
ZDS 220	2,5	28(37)	I, II	2	330
ZDS 295	2,95	33(45)			386

				
PDS 150	1,5	19(26)	10	370
PDS 250	2,50	35(47)		676
PDS 250H	2,50	35(47)		722



BLADE OPTION
- Metal HARDOX
- Rubber strip



HYDRAULIC SYSTEM
with up to $\pm 30^\circ$ turn



SHOCK AMORTIZ. SYSTEM
when encountering an obstacle



SNOWPLOUGH MOUNTING BRACKET:
Horizontal angular adjustment of snowplough, and possibility of 360 degree rotation



PDS



ZDS



**SELF-PROPELLED
MACHINES**

AgAR - AUTONOMOUS AGRICULTURAL ROBOT



AgAR - Agricultural Autonomous Robot is 100% electric multipurpose robotic platform designed to accommodate conventional tractor implements, as well as extensive variety of payloads. AgAR is equipped with Robot Operating System (ROS) based

software that enables remote control and moving along predefined paths. Due to its rugged design and high torque drive train, AgAR can cover rough terrain with high gradient slopes even with large payloads.

Advantages:

- Compatibility with conventional tractor implements
- Change of ground clearance
- Rugged design and high torque drive train

- Up to 12 hours autonomy and battery swap system
- User friendly software
- No fuel costs

AgAR	
Wheels	4E x 12 rims, 5-12 tire (outer diameter 567 mm, width 145 mm)
Dimensions	2,2 x 1,3 x 0,9m with min. clearance 1,7 x 1,3 x 1,3m with max. clearance
Running width	1,2m
Mass / Payload	800kg / 600kg
Clarance adjustment	220 - 810mm
Power	6kW / 12kW (30 sec) max.
Torque	950Nm / 1900Nm (30 sec) max.
Speed / Slope	1.75m/s max. / 40° max.
Autonomy	Typically 8h, up to 12h
Platform adjustment	±22° lateral & longitudinal direction
Traction force	3.35kN / 6.7kN (30 sec) max.

AgAR	
Battery	LiFePO4, 48V, 230 Ah
Max. battery discharge	500A / 1000A (30 sec)
Max. charging current	100A max / 600W / 3000 cycles
User power output	48V - 100A, 24V - 20A
Working conditions	-10°C to +50°C, <95% hum., IPX4
Surveillance	4K FPV camera
Safety	LiDAR, RADAR, stereo camera, 2 x safety bumper, 8 x safety ultrasonic sensor, LED RGB lights
Control	Android app and radio remote control with up to 4 km range
Communication	4G LTE and Wi-Fi
Drivers	Robot Operating System (ROS)



ADAPTABILITY TO TERRAIN
Clearance change of 220-810mm and platform slope change in the lateral and longitudinal direction



230Ah BATTERY
The replaceable LiFePo battery enables autonomy of up to 12h of operation



SUPPORT
for standard machines - three-point fixing system



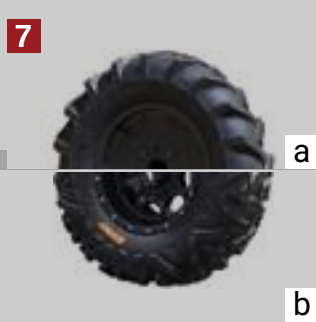
AUTONOMOUS DRIVING
along pre-defined paths and GPS/RTK coordinates



SAFETY
LiDAR system, radar, stereo camera, ultrasonic sensors, stop buttons and physical stop bumper



SIGNALING
RGB light provides diagnostics and information on the current status of the vehicle



WHEEL OPTIONS
a) Agricultural tires
b) ATV tires

MOTOR MOWERS 407



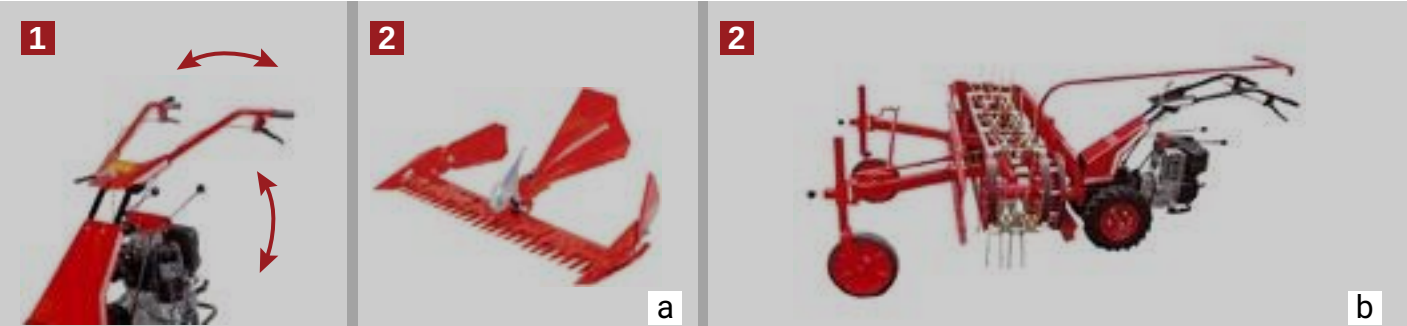
FPM 407 motor mowers are designed for mowing of all types of grass, forage plants, medicinal herbs and grains, and are particularly suitable for use in mountainous terrain, inaccessible for tractor machinery.

They are equipped with a gearbox that has one speed for moving forward and one for reverse. In addition to mowing, they can also be used for hay raking, irrigation and snow removal.

Advantages:

- Professional and durable machines designed for intensive use
- Can operate on slopes of up to 20°
- A number of implements can be attached
- Steel gearbox housing

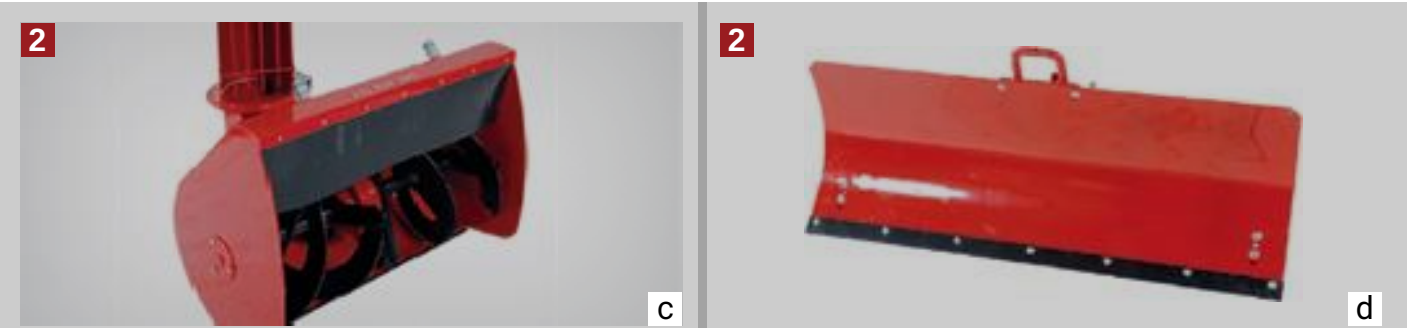
				KW(HP)/RPM			km/h		
FPM 407	CH 270 - Kohler	✓		5,2(7) / 4000	✓	1,05 1,3	5	3,50-8	148
	CH 395 - Kohler			7,1(9,7) / 3600					158
	6 LD 360 - Anadolu			5,5(7,5) / 3000					175
	15 LD 315 - Lombardini	✓		5(6,8) / 3600					166
	KM 178 F - Campes			3,68(5) / 3000 4(5,5) / 3600					172



HANDLEBAR
Height and side adjustable handlebars

MOWER RAKE

BELT



SNOW BLOWER

H

SNOWPLOUGH

TWO WHEEL TRACTORS 408/410/414



FPM 408/410/414 two-wheel tractors are universal machines with 6 HP, 8 HP, 10 HP or 12,5 HP designed both for use in agriculture (market gardening, greenhouses, fruit growing and viticulture), and public utility works. They are equipped with a 7 speed gearbox (5 + 2) with optional differential lock, and with two output shafts (implements and trailer).

Advantages:

- All-round application due to a multitude of mounting options for various implements
- Proven and reliable German technology, steel gearbox housing
- Professional and durable machines designed for intensive operation
- Possibility of attaching a PTO-driven trailer and night-time operation (FPM 410/414)

 KW(HP)/RPM km/h km/h									
FPM 408	6 LD 360-Anadolu	✓	5,5(7,5) / 3000	✓	I-1.18 II-2.43 III-3.06 IV-6.40 V-16.02	I-1.46 II-3.74	✓ (optional)	5.00-10	170
	KM 186 F-Campes		5,7(7,75) / 3000 6,3(8,57) / 3600					5.00-10	170
	KM 178 F-Campes		3,68(5) / 3000 4(5,5) / 3600					4.00-10	155
FPM 410	KM 188 F-Campes	✓	6,6(9) / 3000 7,35(10) / 3600	✓			✓	5.00-10	177
FPM 414	3 LD 510-ANADOLU		9(12,2) / 3000					5.00-12	186



HANDLEBAR
Height adjustable in six positions;
and side of 180°



ENGINE-STOP
safety system



MECHANICAL BRAKES
for both wheels or separately
for each of the wheels. Option
of differential lock for all
models



**TWO OUTPUT
SHAFTS**
optional for models
FPM 410/414



ELECTRO START
optional for models
FPM 410/414



HEADLIGHTS
optional for models
FPM 410/414



TWO WHEEL TRACTORS 406



The two-wheel tractor FPM 406 is a universal machine designed both for use in agriculture (particularly in market gardening, greenhouses, fruit growing, and viticulture), and for a variety of public utility works. Thanks to modern manufacturing technology and optimal structure, this

machines is incredibly easy to use and manage and has a low energy consumption. This two-wheel tractor is equipped with an extremely precise and reliable gearbox with eight speeds (4 + 4) with the option of differential lock. A large variety of implements can be mounted on it.

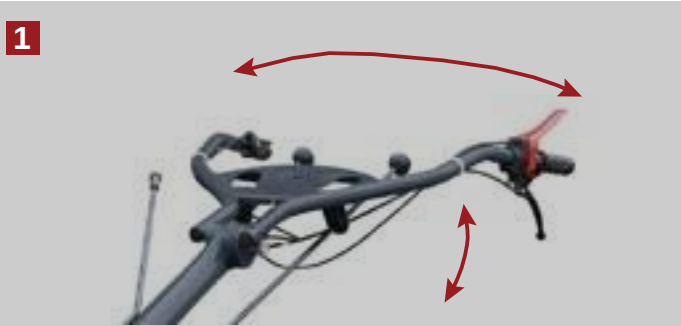
Advantages:

- All-around application due to a multitude of mounting options for various implements
- Proven, reliable German technology, low weight with an optimally positioned centre of mass
- Low energy consumption, steel gearbox housing

			KW(HP)/RPM			km/h		km/h			Kg
FPM 406	6 LD 360-Anadolu	✓	5,5(7,5) / 3000	✓		I-1.00	I-1.00	(optional)		4.00-10 (optional 5.00-10)	117
	KM 186 F-Campes		5,7(7,75) / 3000 6,3(8,57) / 3600			II-1.90	II-1.90				117
	KM 178 F-Campes		3,68(5) / 3000 4(5,5) / 3600			III-3.25 IV-7.10	III-3.25 IV-7.10				102



1



HANDLEBAR
Height adjustable in six positions;
and side of 180°

2



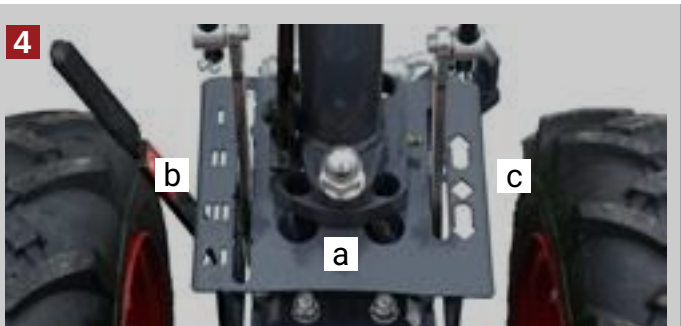
ENGINE-STOP
safety system

3



THROTTLE
CONTROL

4



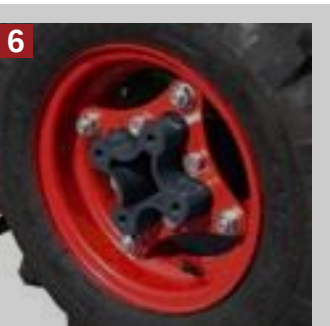
a) mechanism for adjusting handlebar
b) gearbox control indicators
c) reverser - simple and quick change of direction
without shifting gears

5



OUTPUT SHAFT
for PTO-driven implements,
independent, up to 825 r/min

6



ADDITIONAL WHEEL
PAIR
can be mounted

TWO WHEEL TRACTOR IMPLEMENTS



BELT RAKE

			
FPM 802.238	1,6	2/18	150
FPM 804.260	1,9	2/24	165



MOWER

			
FPM 804.129	1,3	17/12	56
FPM 804.130	1,6	21/15	65



ROTARY TILLER

			
FPM 802.245	0,5-0,8	15	41



SNOWPLOUGH

		
FPM 805.229	1,25	48



Side Grips &



Linkage for Trailer



Universal Linkage



Wheel Expanders



RIDGE

		
FPM 803.246	15	12



REVERS.

		
FPM 803.250	18	35



PLOUGH

		
FPM 803.249	18	24



SNOW BLOWER

		
FPM 805.160	0,89	5



POTATO DIGGER

		
FPM 804.147	15	10

MOTOR HOES 512



FMP 512 motor hoes are professional machines designed for soil cultivation in market gardening, greenhouses, fruit growing, viticulture, gardening and for maintenance of grassy areas and parks.

Due to robust design, drive wheel and powerful motor, this type of machine enables precise and easy operation even in the most demanding conditions.

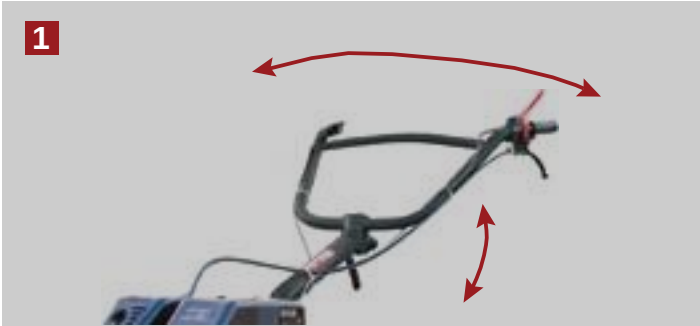
Advantages:

- Professional and durable machines designed for intensive operation
- Proven and reliable German technology
- Drive wheel enables easy operation
- High operation precision

  KW(HP)/RPM  km/h  RPM   cm  Kg										
FPM 512	SH 265-Kohler	✓	4(5,5) / 3600	✓	I-2,7 II-4,8	I-196 II-350	3.00-4	32-50 50-65	15	51



1



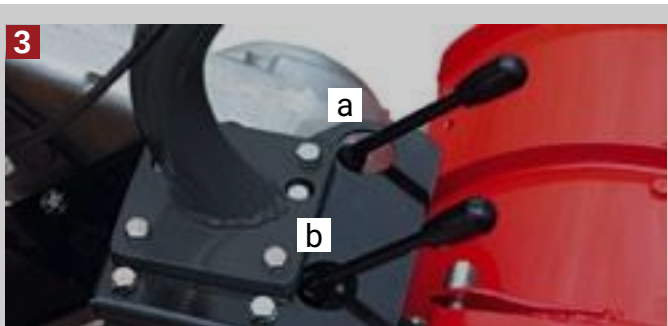
HANDLEBAR
Height and side adjustable handlebars

2



WORKING WIDTH ADJUSTMENT

3



GEARBOX
a) Two speed gearbox for moving and rotor RPM;
b) Turning the operating units (blades) on and off;

4



ENGINE-STOP
safety system

5



RIDGER
Built-in option