About Us

A Word from the Director

FPM Agromehanika is one of the leading manufacturers of agricultural machinery in South-East Europe, with a tradition of over 60 years. Since it was founded in 1961, the company has strived to follow technology trends and continually enhance its production, becoming the successful company it is today, with over 250 highly skilled and qualified employees, cutting-edge machines and highly developed technology in all stages of production. We are developing our product range through our in-house department for research and development, tightly cooperating with faculties and institutes for agricultural science and mechanical engineering and renowned manufacturers of agricultural machinery from Italy, France and Germany. FPM Agromehanika has attained the ISO 9001:2015 quality certification as well as IATF 16949/2016, the most widely recognized quality management standard, while all its products are affixed with CE marking, guaranteeing safe use. In addition to the main product range, the company also manufactures a large variety of parts and assemblies for other agricultural machinery manufacturers, and for companies within different industry sectors.

60 years of tradition and experience, together with modern production, guarantee reliable high-quality products. That is why FPM Agromehanika is currently present in over 40 countries worldwide and continues to expand to other markets.

AGROMEHANIKA FPM BOLJEVAC

Generalni direktor

Rajic Branislav

Чуварку ћа Стварано у Србији

Best of 2019 Serbia

qualityaustria SYSTEM CERTIFIED
ISO 9001:2015 No.20230/0
IATF 16949:2016 No.07630/0

ДРУШТВЕНО ОДГОВОРНО ПОСЛОВАЊЕ
Добитник Националне награде 2020

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HAY MAKING
FLAIL MOWERS
SELF-PROPELLED MACHINES
SOIL CULTIVATION
ROAD MAINTENANCE


ENGINE


DIFFERENTIAL LOCK


MANUAL START


ELECTRIC START


GASOLINE

DIESEL


TYRE SIZE


No. OF BLADES / No. OF DOUBLE FINGERS


No. OF WHEELS / No. OF RAKES PER WHEEL


No. OF RAKES PER LINE / TOTAL No. OF RAKES


No. OF ARMS / No. OF RAKES PER ARM

HAY MAKING

DISC MOWERS
DK

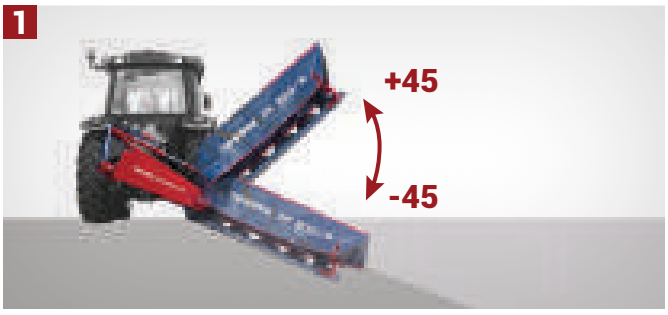
DK rotary disc mowers are rear-mounted tractor mowers designed for cutting all types of grass and forage plants, mowing areas alongside roads and for public utility works.

This type of mower has high work rates with low-energy consumption and it can be operated under difficult conditions such as: flattened and tangled grass, damp terrain, terrains with molehills, slopes, during moderate rainfall, etc. Designed to work on slopes from -45 up to +45 degrees. A set of V-belts transmits power to gearbox.

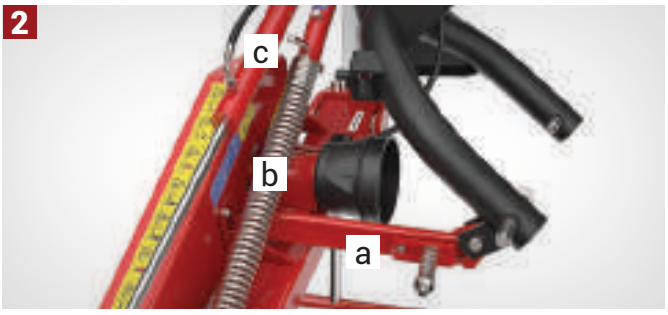
Advantages:

- No damage to plant stem or root
- Spreads and lays mowed mass (does not flatten the swath by pressure), shortening drying time and facilitating the operation of wheel rakes
- Low fuel consumption
- Low cost and easy maintenance

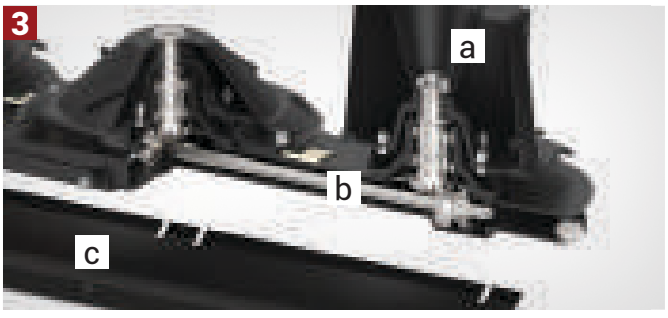
Key Features



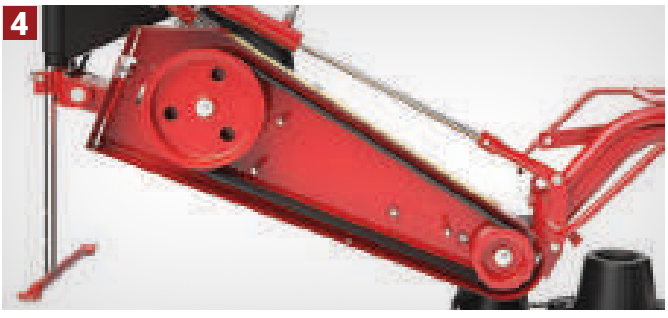
WORKING POSITION
Designed to work on slopes
from -45 up to +45 degrees.



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



CUTTER BAR:
a) Discs with cutting blades;
b) Discs driveline system using a hexagonal shaft and two angle gears in oil bath consumes less energy and enables use even with lower powered tractors;
c) Protective slider.



A SET OF V-BELTS
transmits power to gearbox.

	m			cat	min KW(HP)	RPM	RPM	km/h	ha/h	cm	hydraulic	Kg
DK 130/3 1N	1,3	3		1N	18(24)				2		✓	280
DK 130/3 M	1,3	3		I, II	19(26)				2			320
DK 130/3	1,3	3	2	I, II	19(26)	540	3000	16	2	3-9		314
DK 160/4	1,6	4		I, II	21(29)				2,5		✓	370
DK 200/5	2	5		I, II	25(34)				3,2			500

DISC MOWERS
DKF

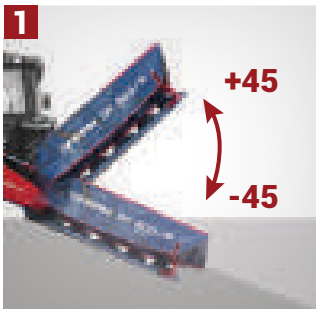
DKF rotary disc mowers are rear-mounted mowers designed for cutting all types of grass and forage plants, mowing areas alongside roads and for public utility works.

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.

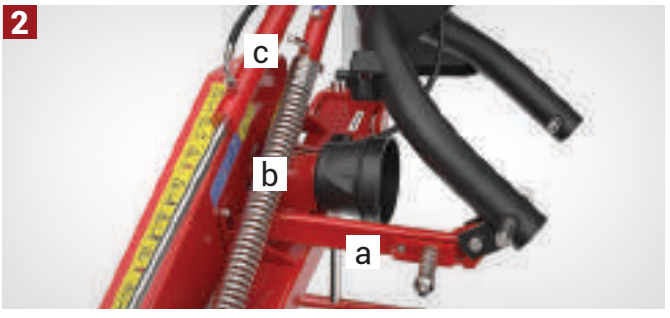
Advantages:

- 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

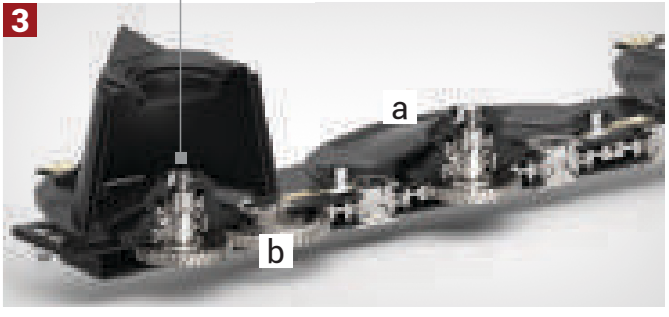
Key Features



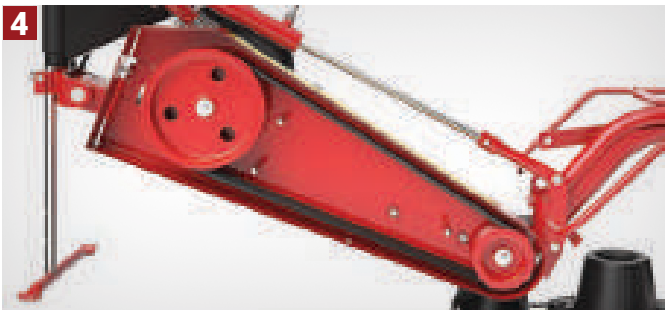
WORKING POSITION
Designed to work on slopes from -45 up to +45 degrees.



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.

	m			cat	min KW(HP)	RPM	RPM	km/h	ha/h	cm	hydraulic	Kg
DKF 160/4	1,6	4	2	I, II	21(29)	540	3030	16	2,5	3-9	✓	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

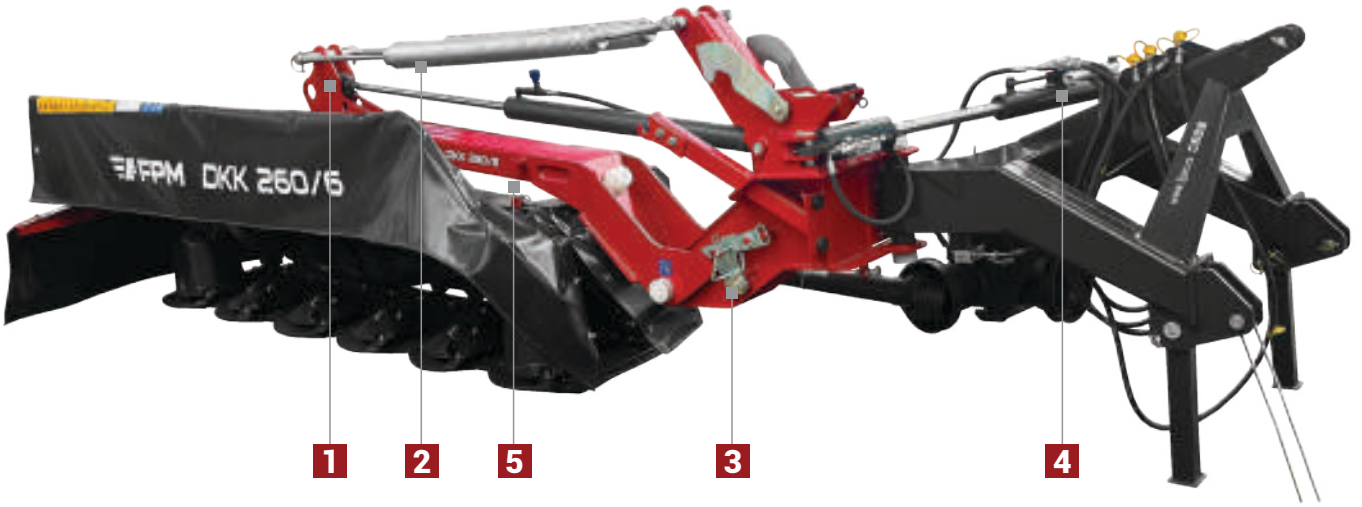
DKK rotary disc mowers are rear tractor mowers with a floating cutting bar intended for mowing all types of grass and fodder plants.

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.

	m			cat	min KW(HP)	RPM	RPM	km/h	ha/h	cm	hydraulic	Kg
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

DOUBLE
CUTTER BAR MOWERS

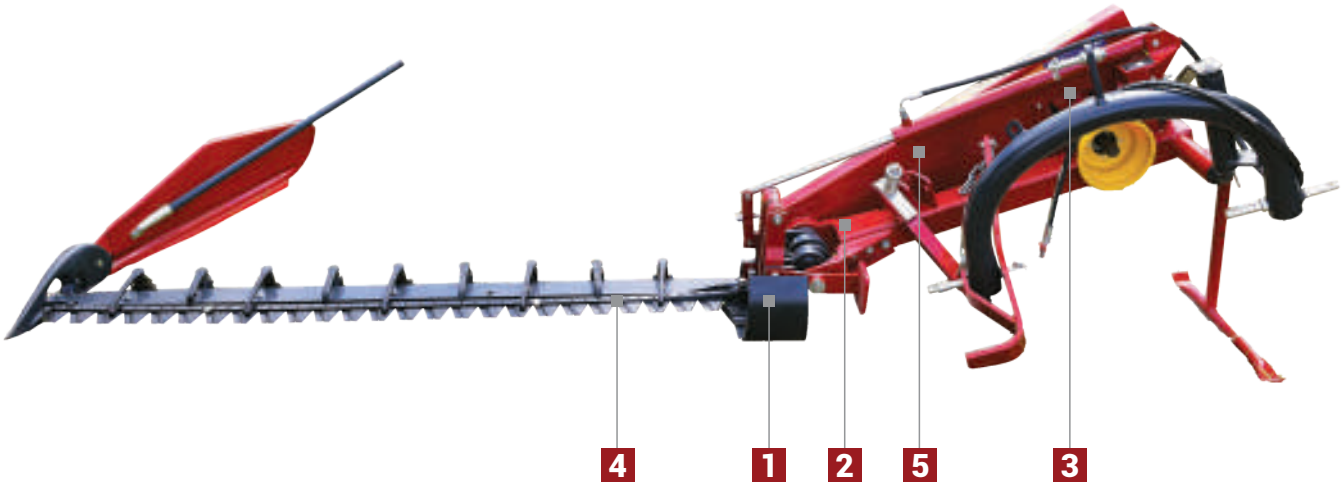
Rear-mounted tractor mowers with two moveable cutter bars designed for cutting all types of grass, forage plants and medicinal herbs, as well as for public utility works.

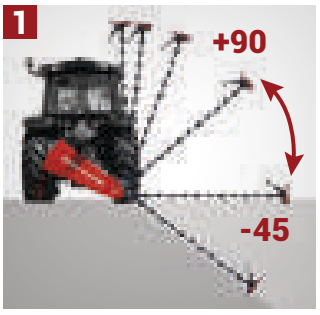
This type of mower is equipped with high-quality cutter bar made in Germany (ESM) and can be used for mowing even under difficult conditions, such as: flattened and tangled grass, damp terrain, terrains with molehills, slopes, during moderate rainfall, etc.

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

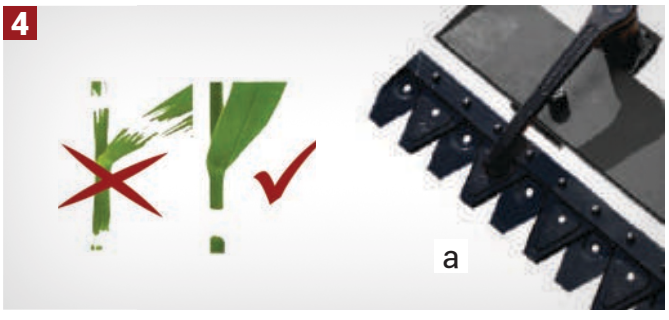


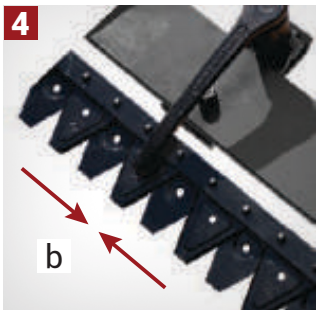


WORKING POSITION
Adaptation to slopes
up to +90 to -45 degrees.

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);



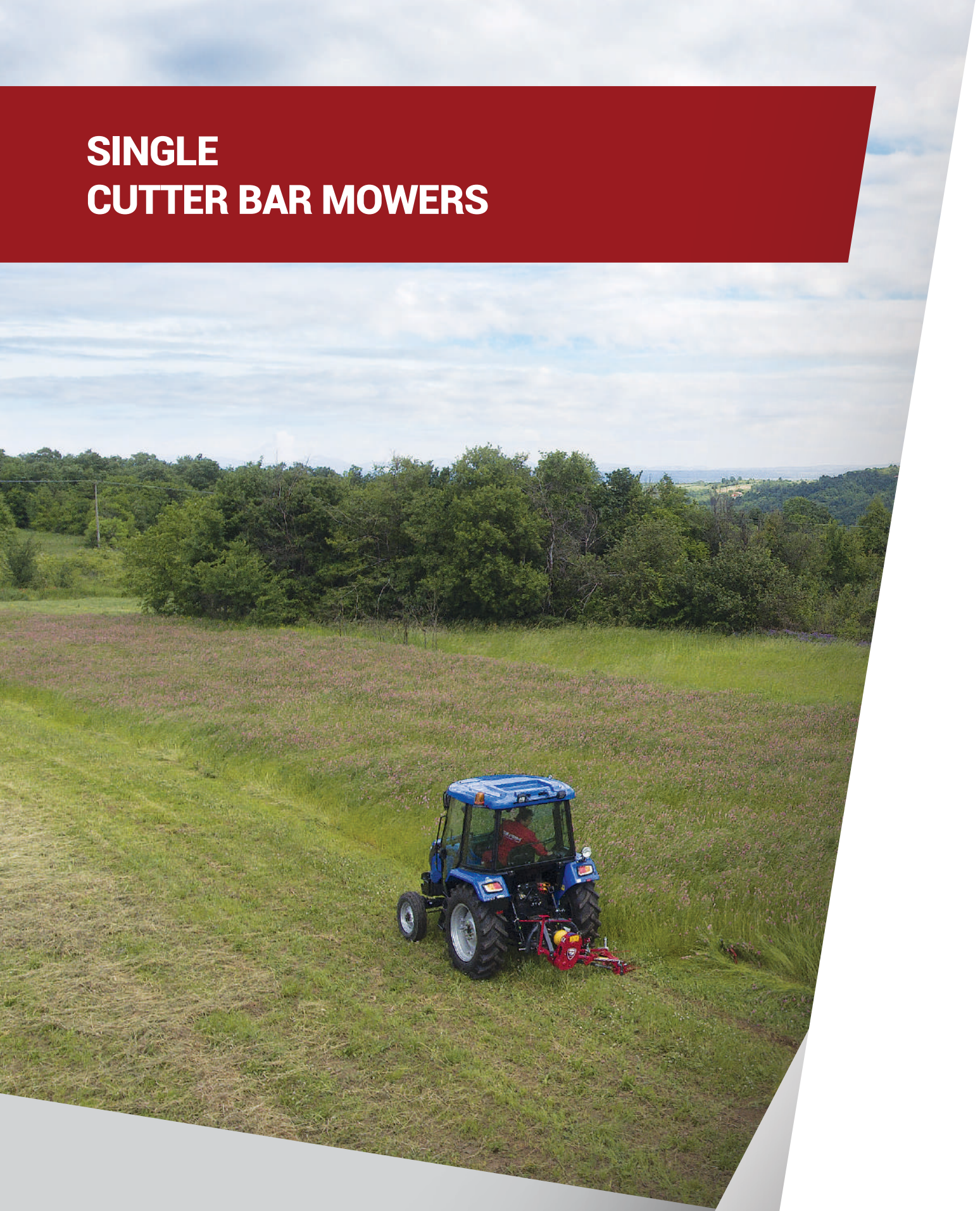


CUTTER BAR:
a) Serrated knives for difficult working conditions;
b) Reciprocating movement of cutter bars (Busatis system) provides precise, scissor-like cutting (without ripping) and contributes to faster plant regeneration and growth.
c) Main bar is made of special type of steel (spring steel), offering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

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

	m	▼	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		✓	255

SINGLE
CUTTER BAR MOWERS



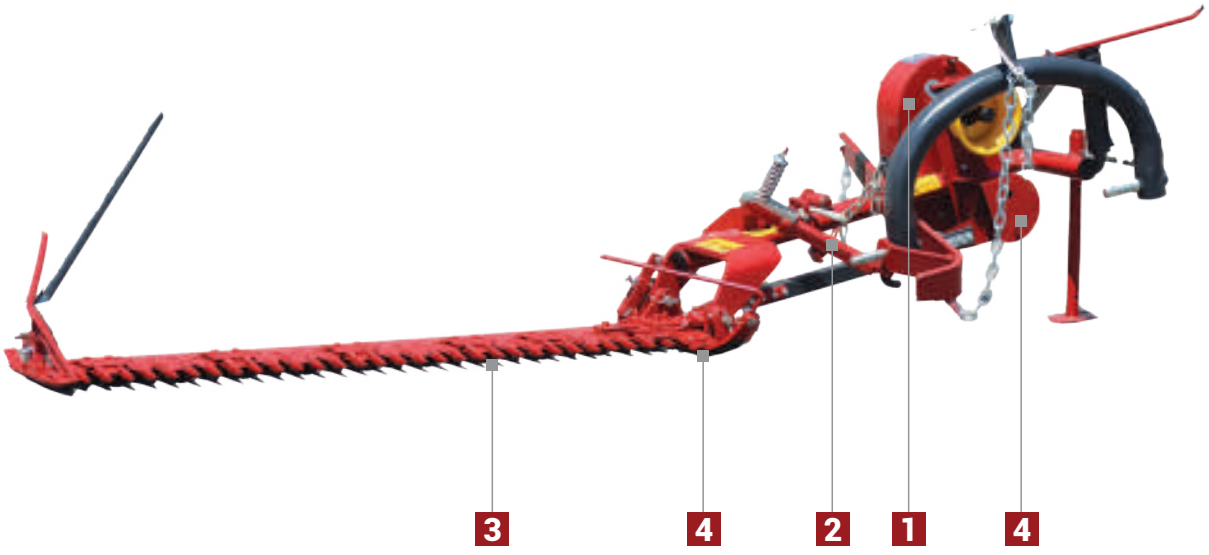
Rear-mounted mowers with single cutter bar and double fingers are designed for cutting all types of grass and forage plants.

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

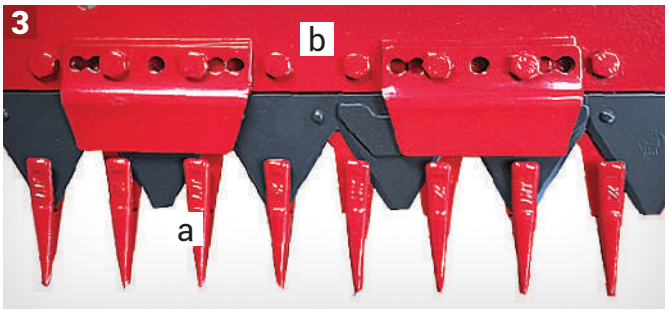
Key Features



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;

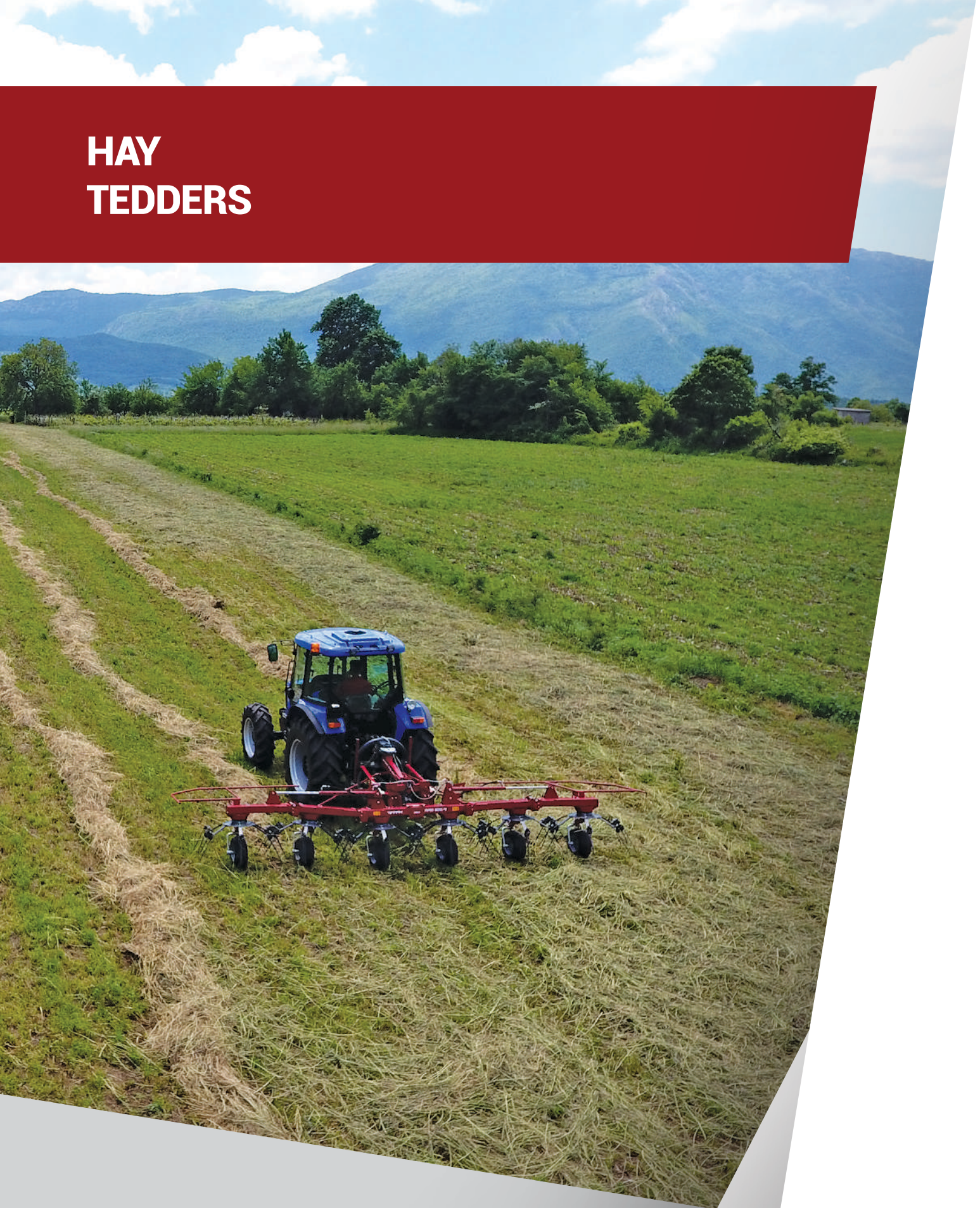


CUTTER BAR:
a) Double fingers (forgings);
b) Main bar is made of special type of of stainless steel (spring steel), offering high strength and appropriate flexibility.

CUTTER BAR DRIVE SYSTEM

	m		cat	min KW(HP)	RPM	km/h	ha/h	cm	Kg
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		25(34)			2,1		210

HAY
TEDDERS



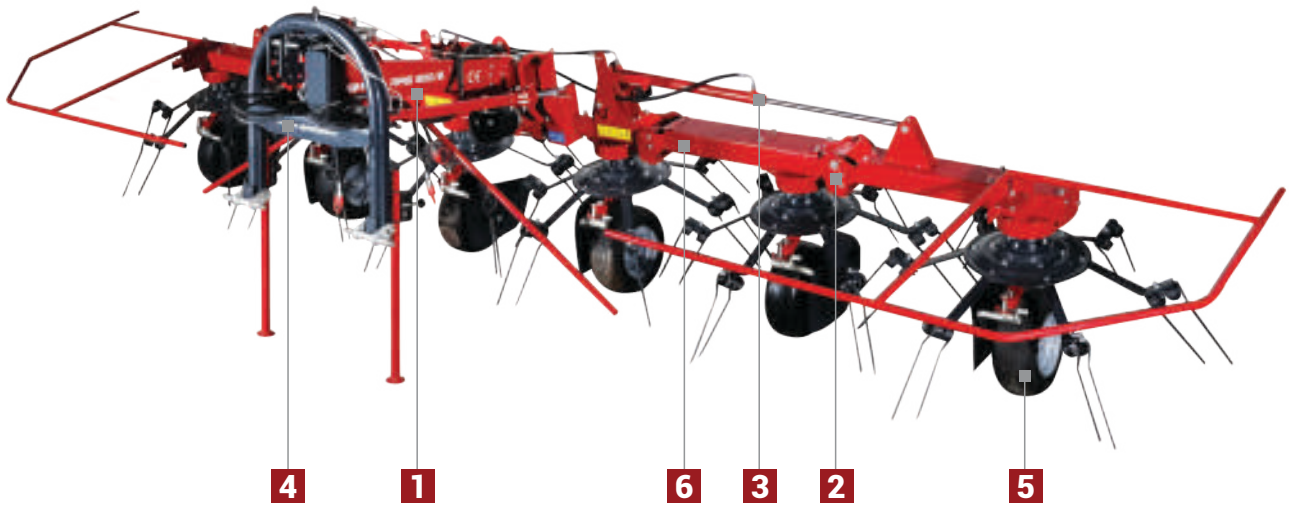
Hay tedders are primarily used for spreading and turning the mown grass mass. Evenly spread grass mass significantly accelerates drying. This reduces the losses caused by crushing, reduces the dependence on bad weather and improves the storage of nutrients in the mown grass.

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

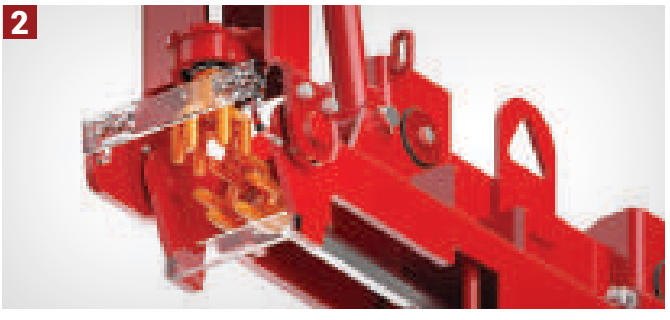
Key Features



1

ATTACHMENT FRAME
with terrain copying system and stabilizing shock absorbers

2



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

3

HYDRAULICS SYSTEM
to move the machine from working to transport position

4

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

5

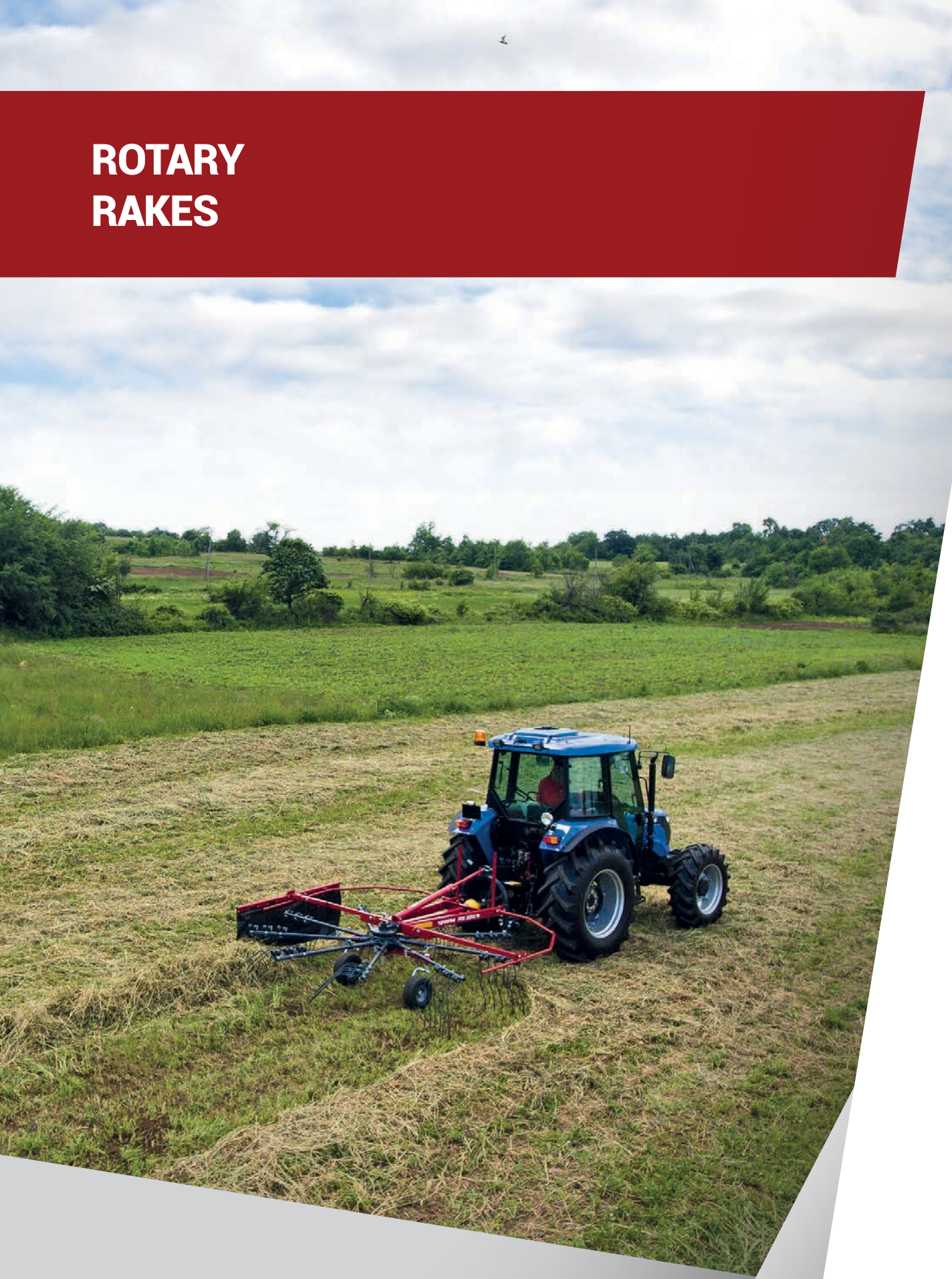
HEIGHT ADJUSTMENT
via wheels

6

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 16×6.50-8	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

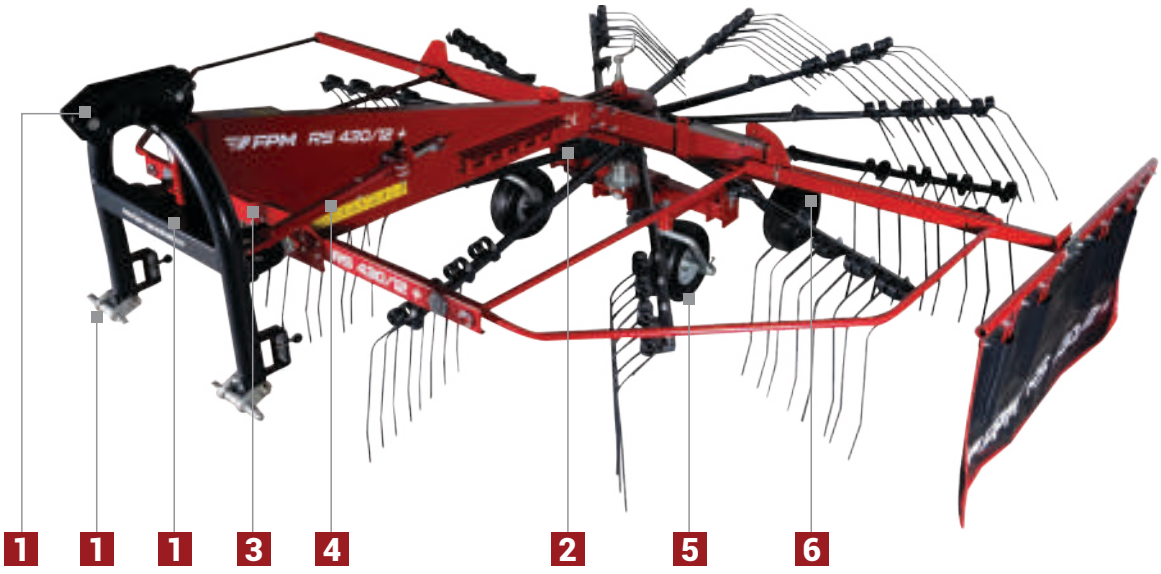
COLLECTING ELEMENTS
made of high-quality
spring wire

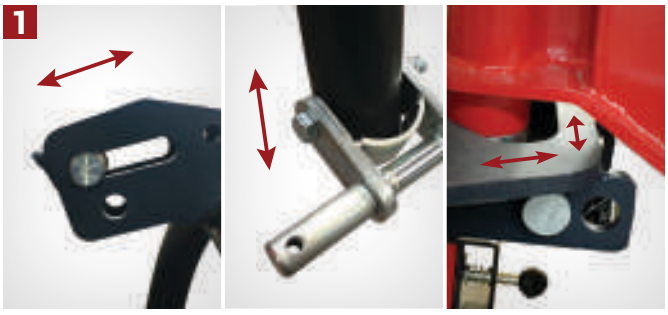
4 WHEELS OPTION: VERTICAL WHEEL MOVEMENT
by +/- 10° improves ground contour adaptation. Turning the first pair of wheels allows the tractor to change direction without lifting the machine.

WORKING HEIGHT ADJUSTMENT:
a) by adjusting gearbox height;
b) by adjusting wheel height.

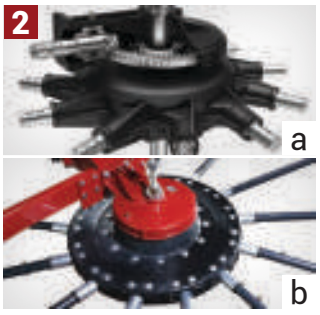
	m		mm	cat	min KW(HP)	km/h	ha/h		Kg
RS 300/8	3,0	8 / 3	9	I, II	15(20)	15	4,8	2/15x6.00-6	332
RS 320/9	3,2	9 / 3					5		346

Key Features





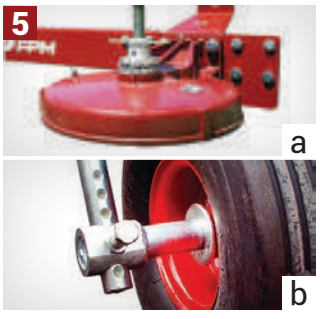
THE FLOATING FRAME
enables ground contour adaptation in three planes - axes (upwards-downwards, left-right, forwards-backwards).



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 ±25°, allowing the tractor to turn without lifting the machine and without stoping raking. They also have an important function in ground contour adaptation.

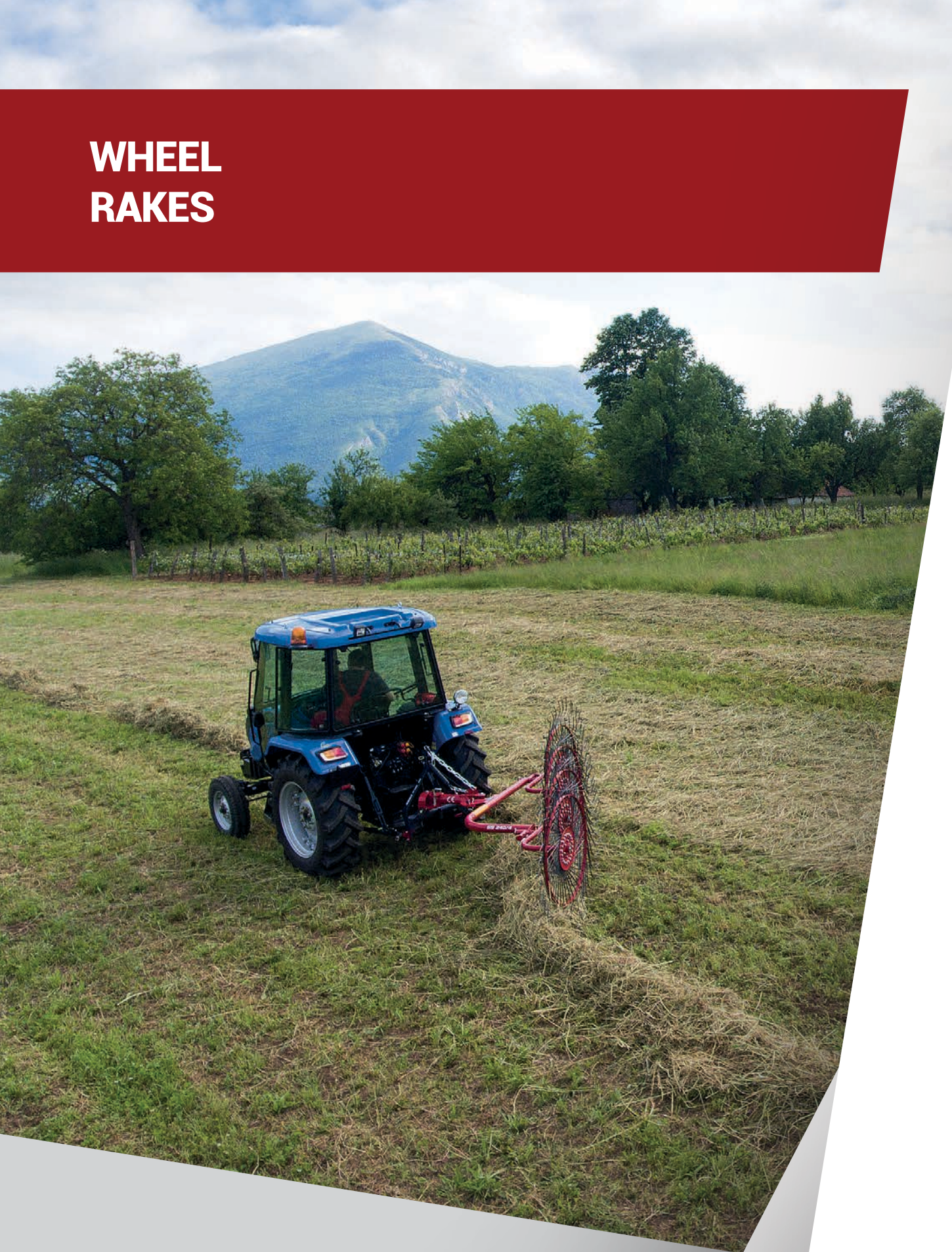


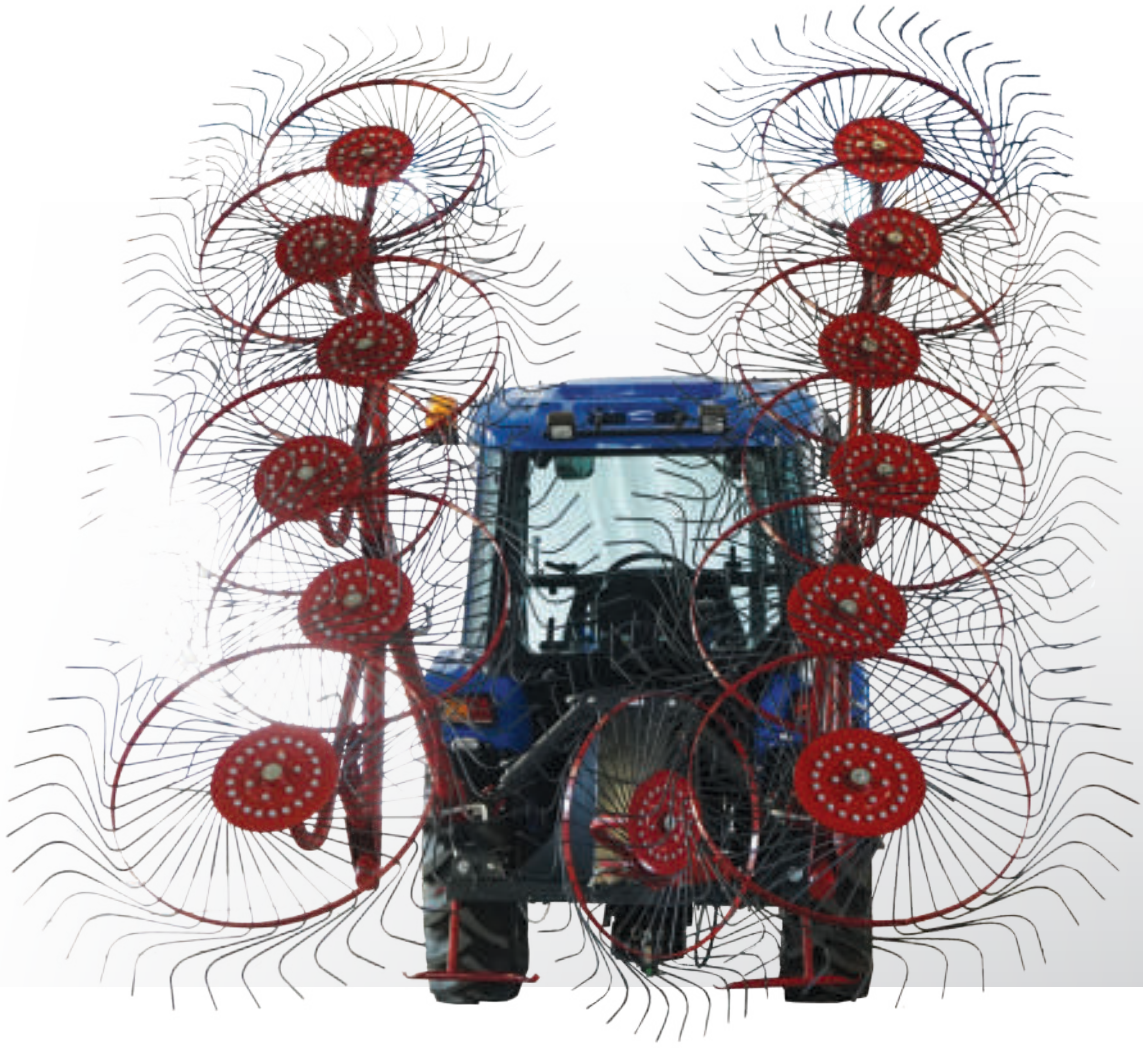
WORKING HEIGHT ADJUSTMENT:
a) by adjusting wheel height;
b) by adjusting gearbox height.

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

	m		mm	cat	min KW(HP)	km/h	ha/h		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

WHEEL RAKES





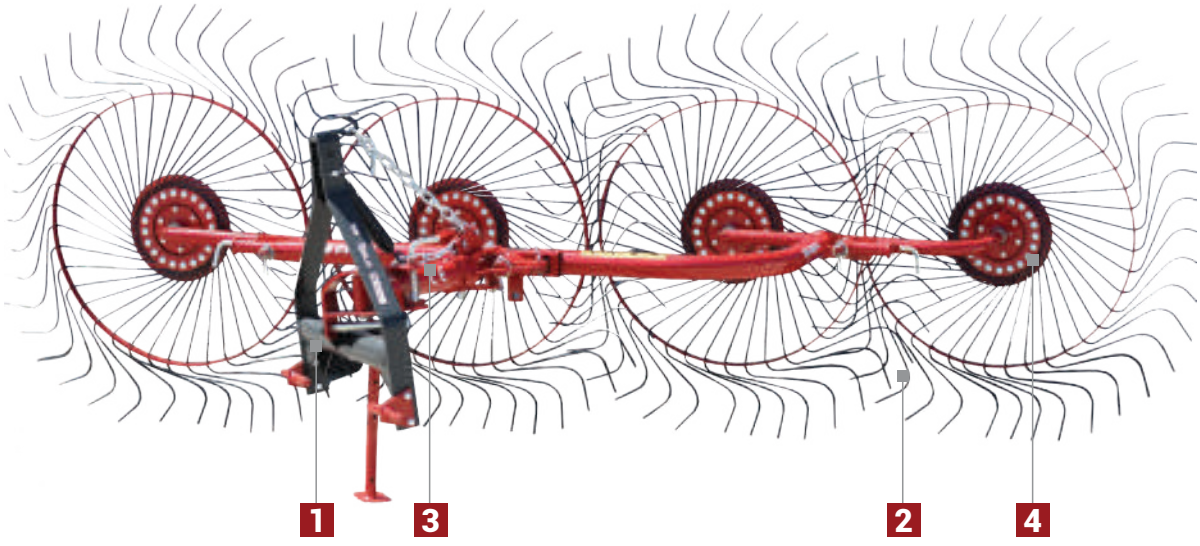
Wheel hay rakes are designed for raking, spreading and turning mowed mass, which shortens drying time.

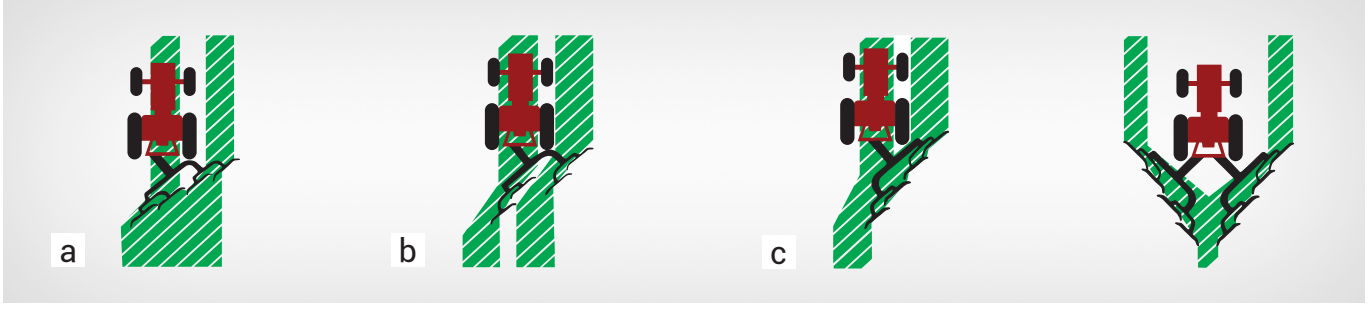
Due to good ground contour adaptation, this type of wheel rake is suitable for every type of terrain, and is very reliable and easy to use due to simple and sturdy construction.

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.

1

MECHANISM FOR GROUND CONTOUR ADAPTATION

2

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

3

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

4

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

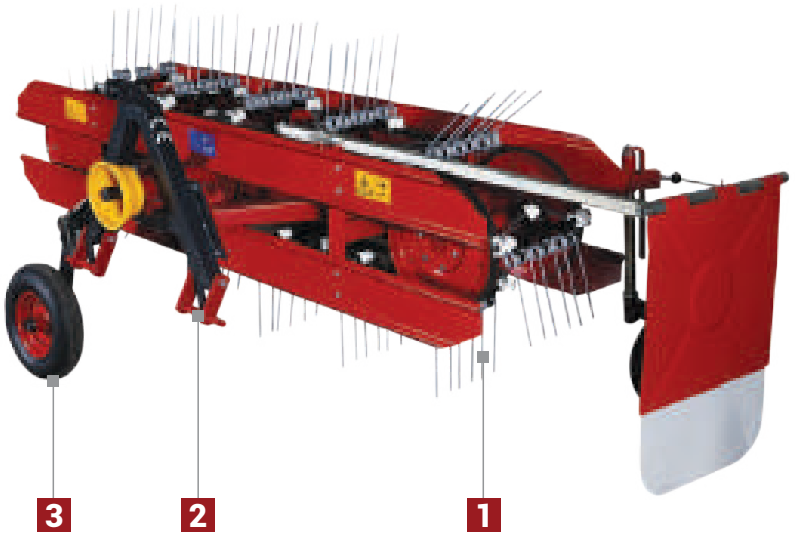
BELT RAKES

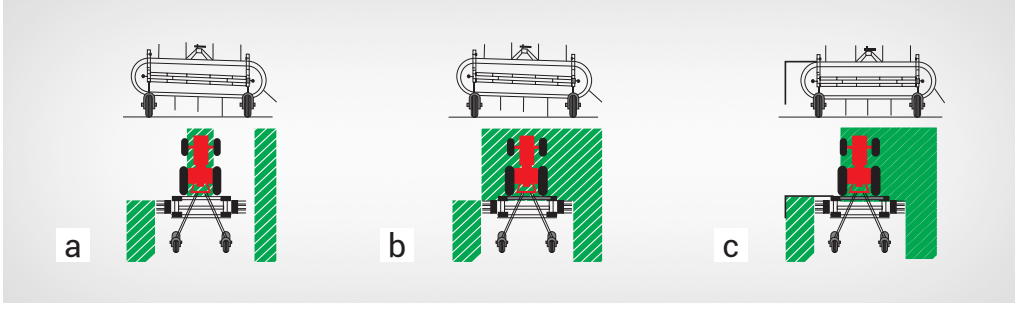
Belt rakes are designed for raking, spreading and turning mowed mass which shortens drying time. This type of rake is very easy to use and is suitable for low powered tractors.

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


FPM

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:

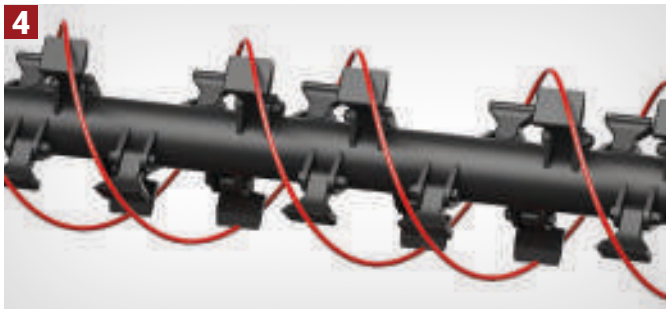
- Suitable for small farms and cottages
- High quality treated surface
- Low costs and easy maintenance
- Safe for work and the possibility of use along roads and in parks

Key Features

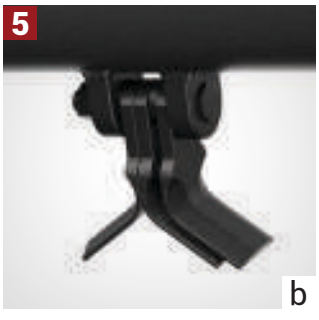
CONNECTING FRAME
possibility of lateral movement in two positions

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

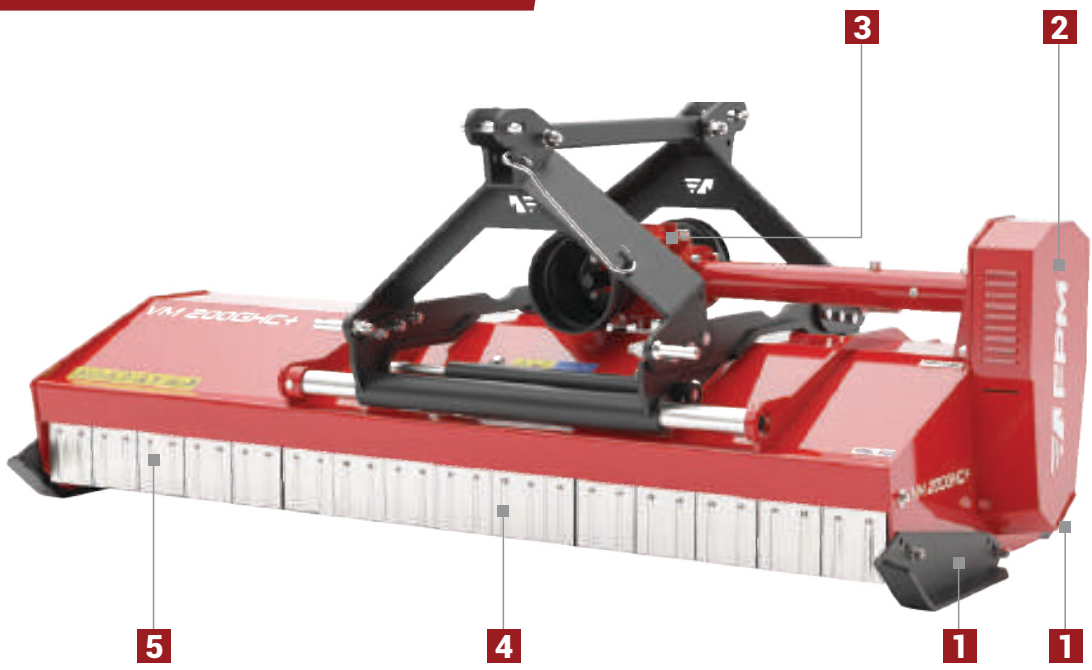
Flail mowers for orchards and vineyards are a type of agricultural flail mower primarily designed for shredding of plant residue after pruning and for weed and grass in orchards and vineyards.

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:

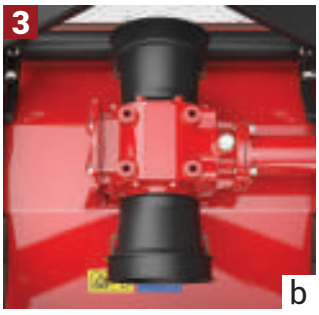
- Shredding prunes up to 50 mm in diameter
- Low fuel consumption and low powered tractor requirements due to double spiral rotor and optimal positioning of rotor blades
- Lateral movement
- Low cost and easy maintenance

Key Features



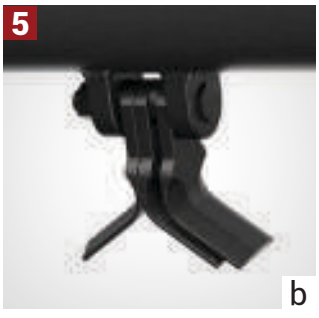
HEIGHT ADJUSTMENT
using side slider
and/or roller

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

COUNTER BLADES
(standard)

G/C series

SIDE MOVEMENT
through cylinder (C series)

H/C series

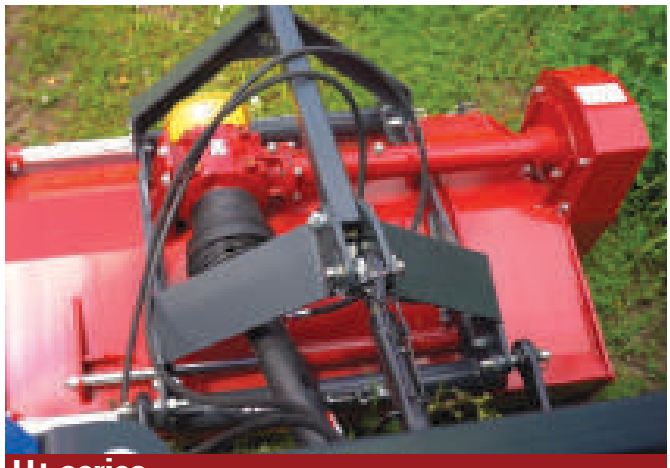
HYDRAULIC MOVEMENT
(H series)

VM 155/180/200

SIDE MOVEMENT
through profiles (standard)

C series (standard)

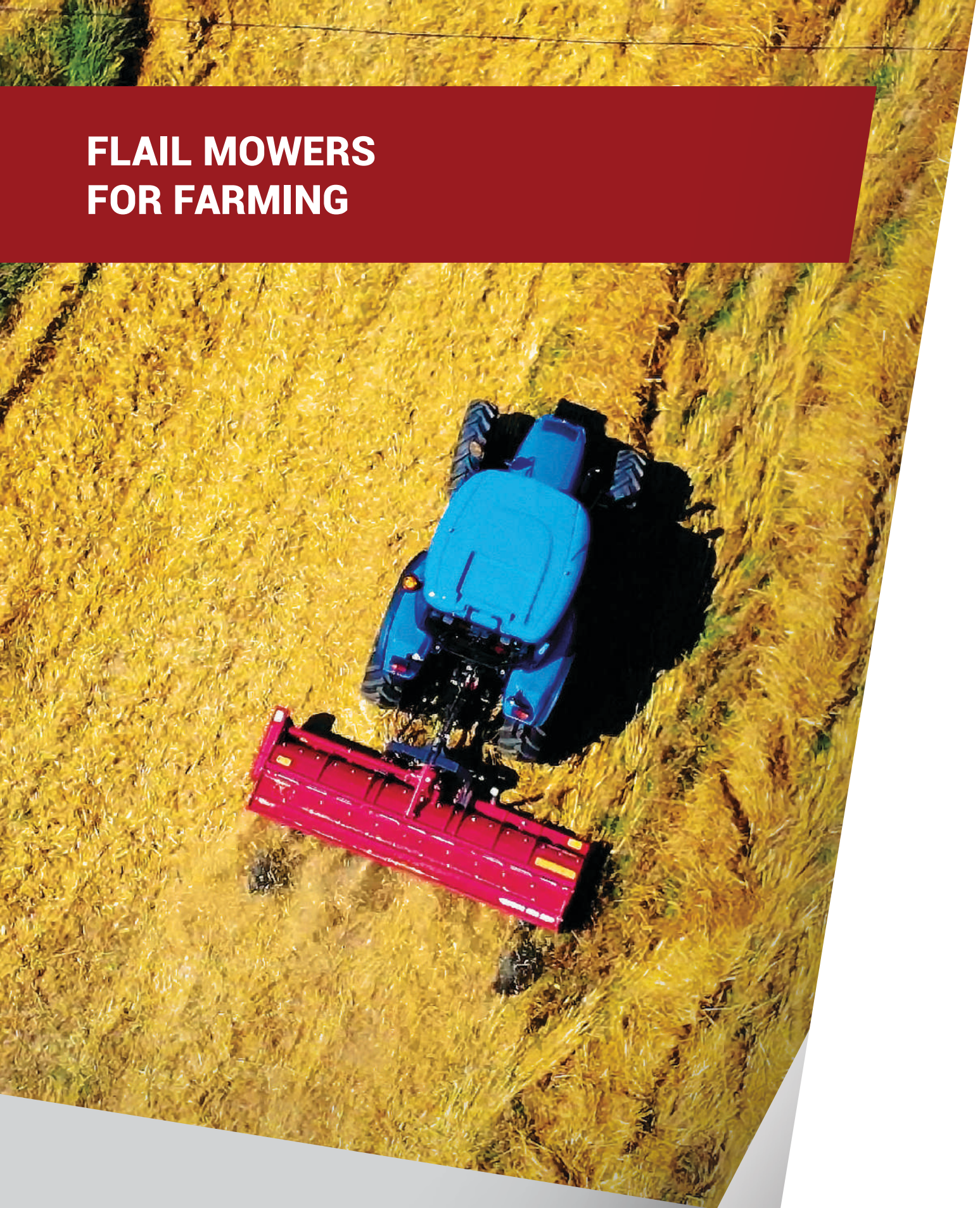
G series (protective rubber)



H+ series

	m	m	min KW(HP)	cat	RPM	RPM	mm			cm	cm	hydraulic	Kg
VM 155	1,55	1,7	18(25)	I, II	540	2230	108	16	48	2-7	61 92		450
VM 155H											91 62	✓	460
VM 180	1,80	2,00	22(30)					20	60		75 105		470
VM 180H											105 75	✓	480
VM 200	2,00	2,2	26(35)					24	72		85 115		490
VM 200H											115 85	✓	500

FLAIL MOWERS FOR FARMING



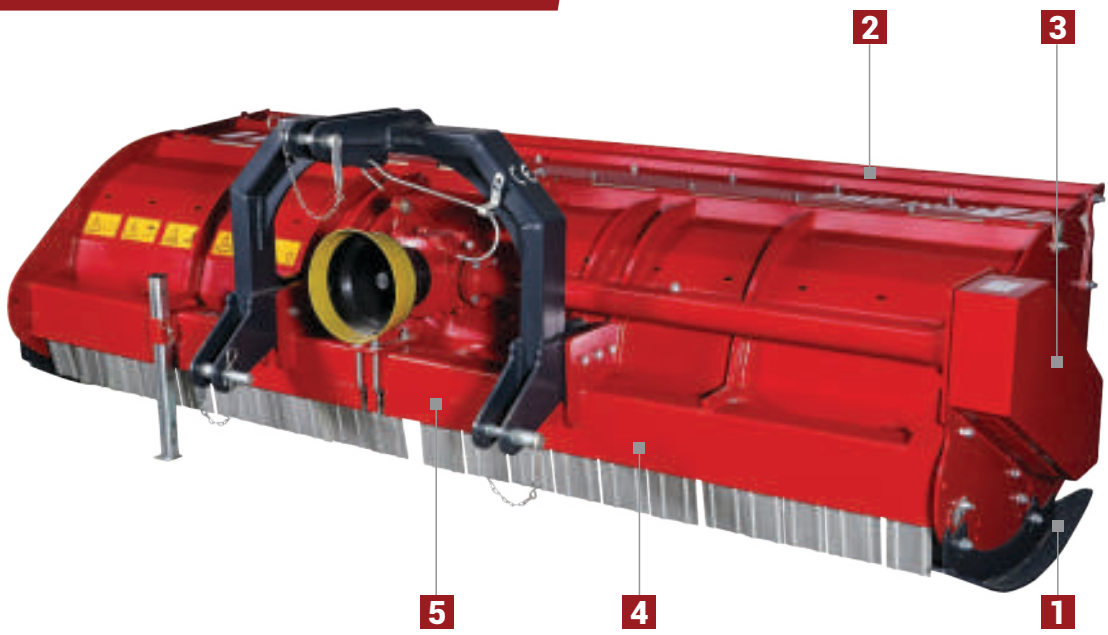
Flail mowers for farming are a type of agricultural flail mowers and are primarily designed for shredding of plant residue upon harvesting of field crops such as: maize, sunflowers, straw, sugar beet, rapeseed, rice, etc.

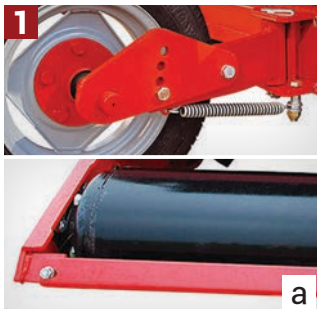
Beside their basic purpose, flail mowers can also be used for shredding of crop residue, for maintenance of all other agricultural, public, neglected or uncultivated areas. Due to electronically balanced rotor of high speed, blades precisely and efficiently shred plant residue transforming it into light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

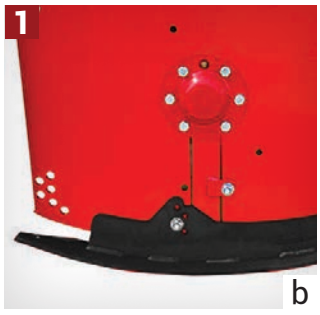
Advantages:

- 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





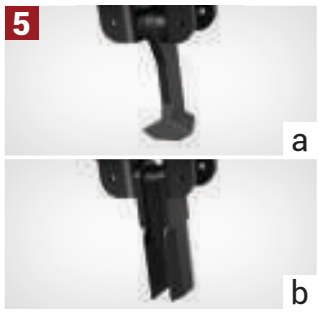


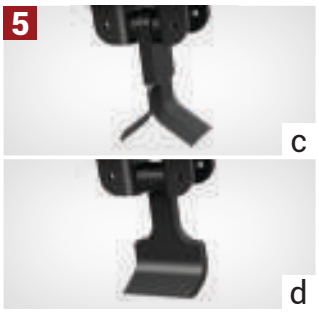
WORKING HEIGHT ADJUSTMENT:
a) Wheels (standard) or roller (optional; standard only for FPM 618.999);
b) Side sliders.

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.

	m	m	min KW(HP)	cat	RPM	RPM	mm				cm	Kg
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

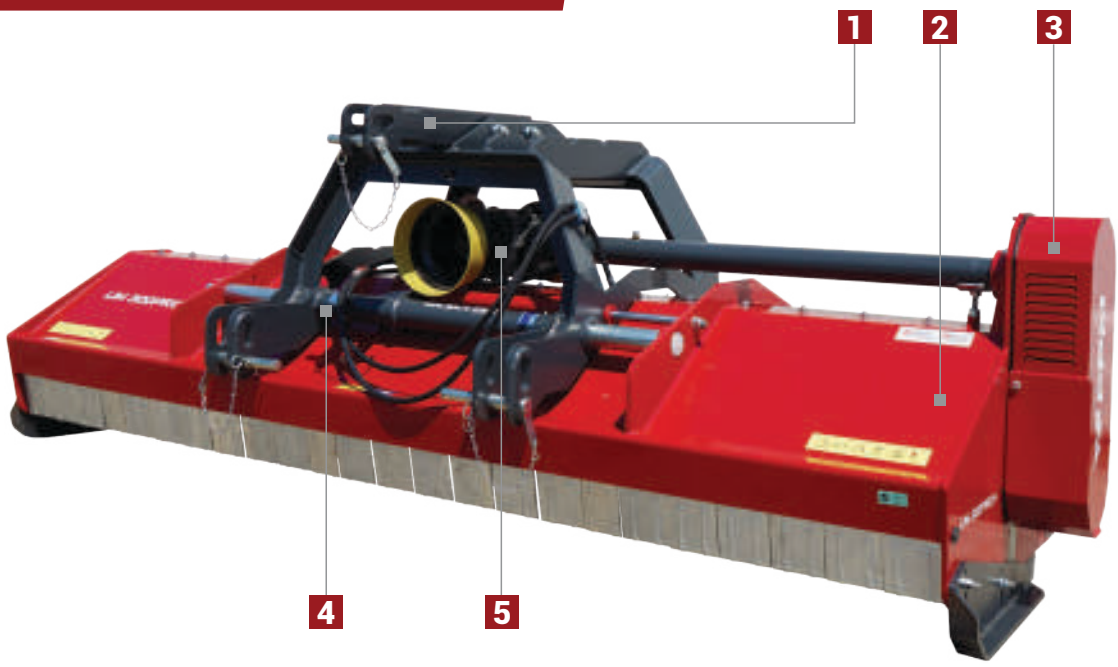
Universal flail mowers are used for mulching plant residues in agriculture (corn, straw, sunflower, green plant residues), communal areas (along roads, railways, infrastructure, watercourses and ditches), fruit growing and viticulture (branches, vines and grass) and for pasture cleaning. UM are designed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



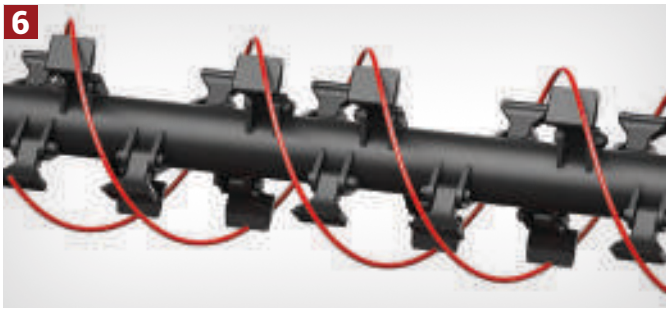
FLOATING SYSTEM

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
UM 230+	2.3	2.5	40(55)	II	540/1000	168	4	24	48	3-12	✓	720
UM 250+	2.5	2.7	48(65)	II	540/1000	168	4	26	52	3-12	✓	810
UM 280+	2.8	3	55(75)	II	540/1000	168	5	30	60	3-12	✓	900
UM 250 PRO+	2.5	2.7	65(90)	II, III	540/1000	194	5	22	44	3-12	✓	946
UM 280 PRO+	2.8	3	80(108)	II, III	540/1000	194	5	24	48	3-12	✓	1010
UM 300 PRO+	3	3.2	100(136)	II, III	540/1000	194	5	26	52	3-12	✓	1100

OFFSET
FLAIL MOWERS

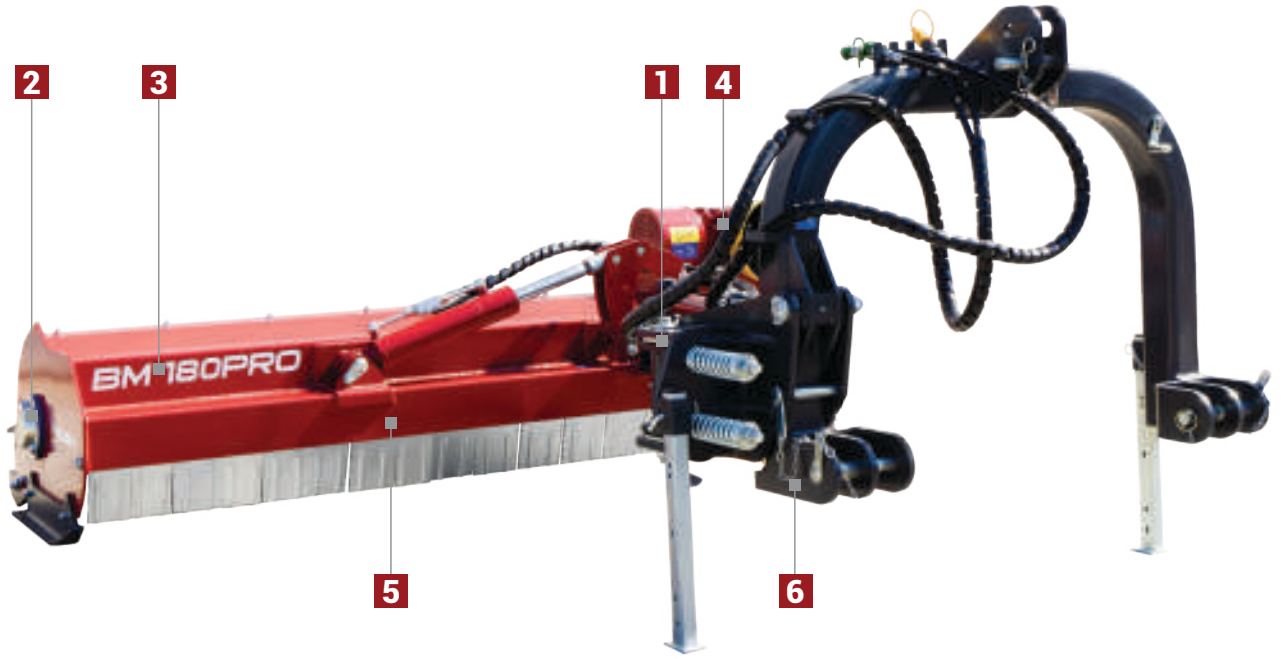
Offset flail mowers, in addition to universal use in agriculture, are intended for mulching communal areas with a slope of +90° / -65°, especially watercourses, ditches, areas along roads and along lawns, orchards and pastures. Quiet operation is enabled by an electronically balanced rotor with hammer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

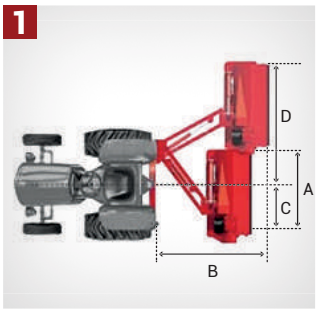
The lighter version of the side flail mower (BM 160/180/200) is intended for work with lighter tractors at lower working speeds for mulching agricultural and communal areas with an inclination of +90° / -65°. It is used for chopping grass and bushes on neglected terrains and branches up to 5 cm thickness. 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 - 65º to + 90º
- Multiple use (in farming, fruit growing and in municipal works)
- Used for shredding crop residue up to 50 mm

Key Features





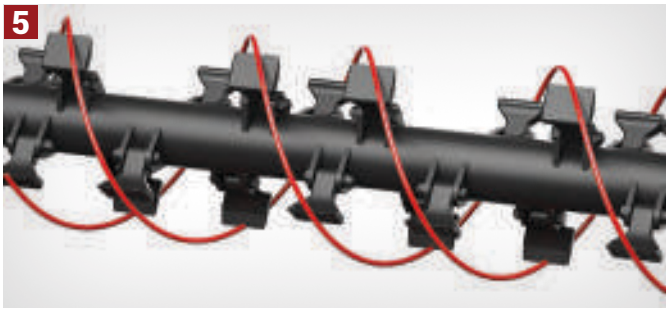
HORIZONTAL MOVEMENT
the range indicated in the table according to the model

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				cm	hydraulic	Kg
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

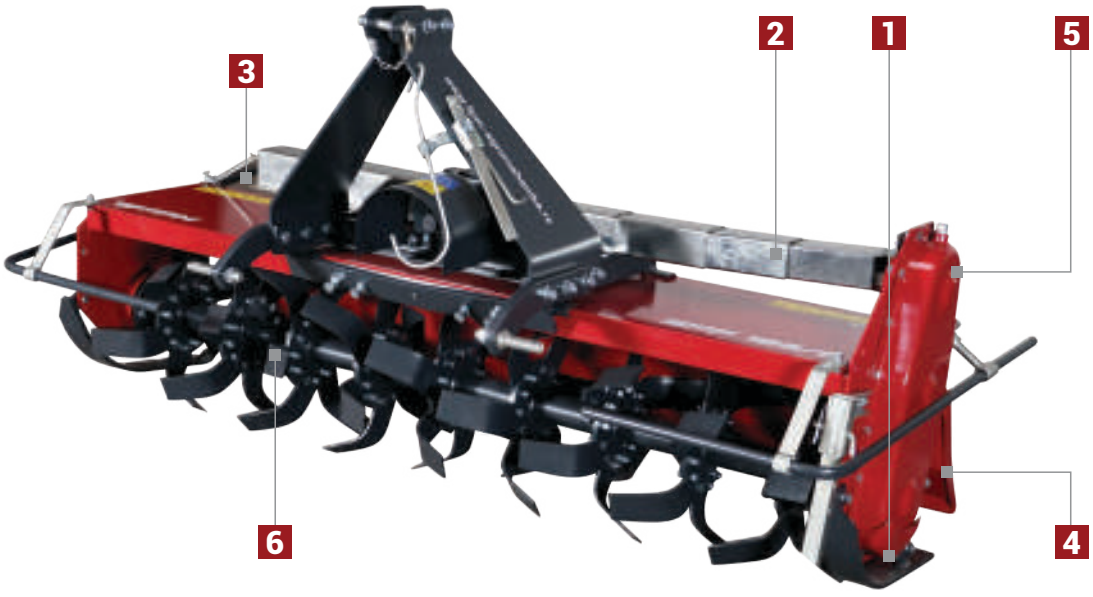
Side-shift rotary tillers fall in the category of light-weight rotary tillers and are designed for primary and secondary tillage in crop farming, truck farming, fruit growing and viticulture.

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).

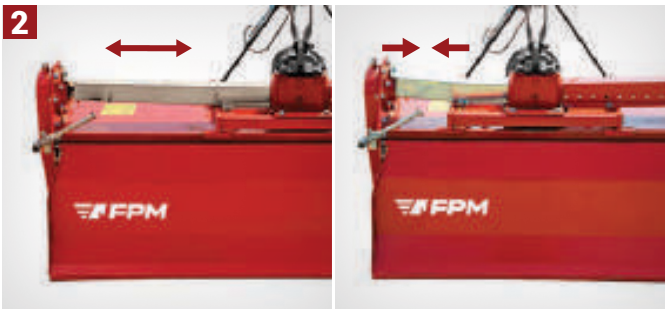
Advantages:

- 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

HYDRAULICS
(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)

	←m→	←m→	min KW(HP)	cat	RPM	RPM	mm		cm	cm	Kg
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 hydraulics 80 hydraulics 126 85	270
SPF 145	1,45	1,6	18(25)	I, II	540	280	63,5	4 / 28	20	39 70 106 75	280
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 hydraulics 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 hydraulics 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 hydraulics 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.

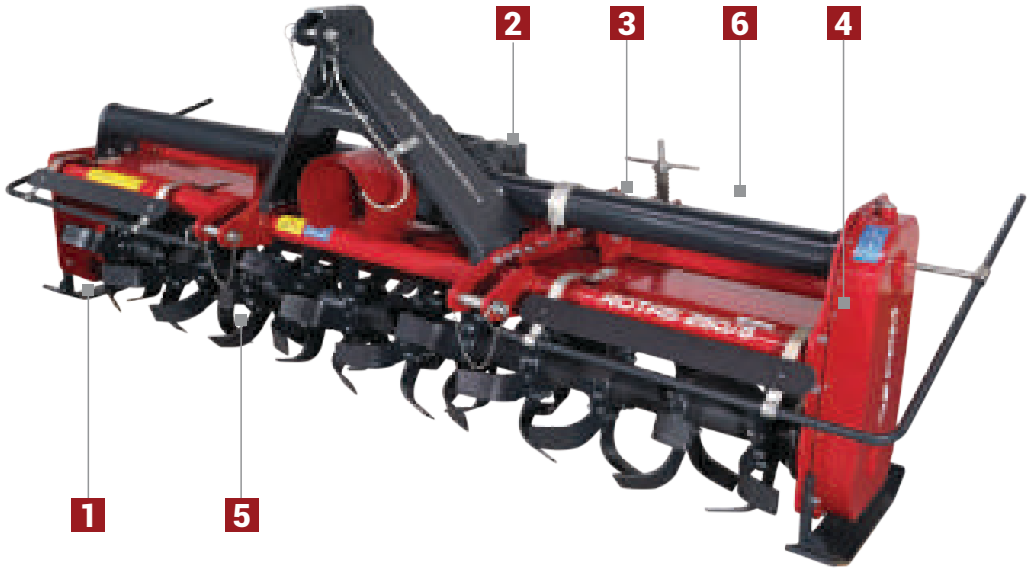
Advantages:

- 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

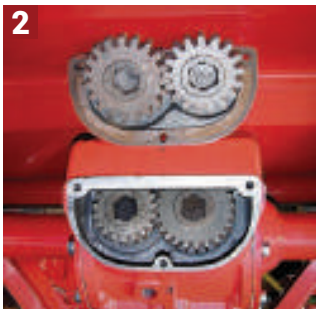
Key Features

2

A/B	540 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)

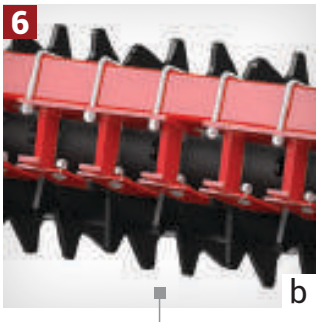


GEARBOX
Four speed gearbox with two pairs of gear wheels

REAR HOOD
position setting adjusts the level of soil pulverization

TRANSMISSION
Gear drive transmission in oil bath

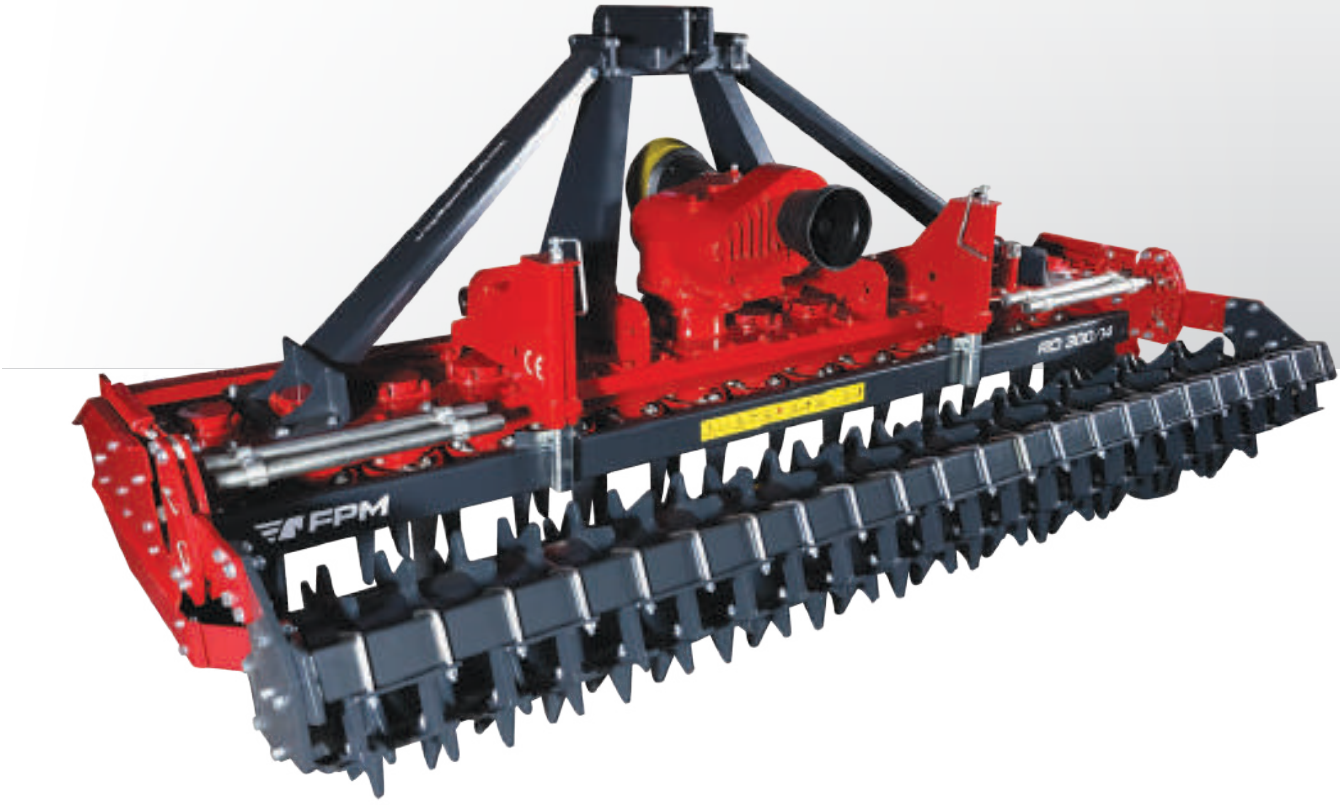
ROTOR
Special shape of the rotor blades and their helical positioning save energy and reduce the load of the tractor. Quick and easy rotor replacement allows both primary and secondary tillage.



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

	m	m	min KW(HP)	cat	RPM	RPM	mm		cm	cm	Kg
ROTAS 140	1,4	1,7	30(40)	I, II	540	198-316	88,9	4 / 24	20	46 94	356
ROTAS 160	1,6	1,9	33(45)					4 / 28		65 95	364
ROTAS 180	1,8	2,1	37(50)					4 / 32		85 95	430
ROTAS 210	2,1	2,4	44(60)	II				4 / 40		108 102	470
ROTAS 260	2,6	2,9	55(75)					4 / 48		114 146	556
ROTAS 280	2,8	3,1	67(90)					4 / 52		140 140	710

POWER HARROWS



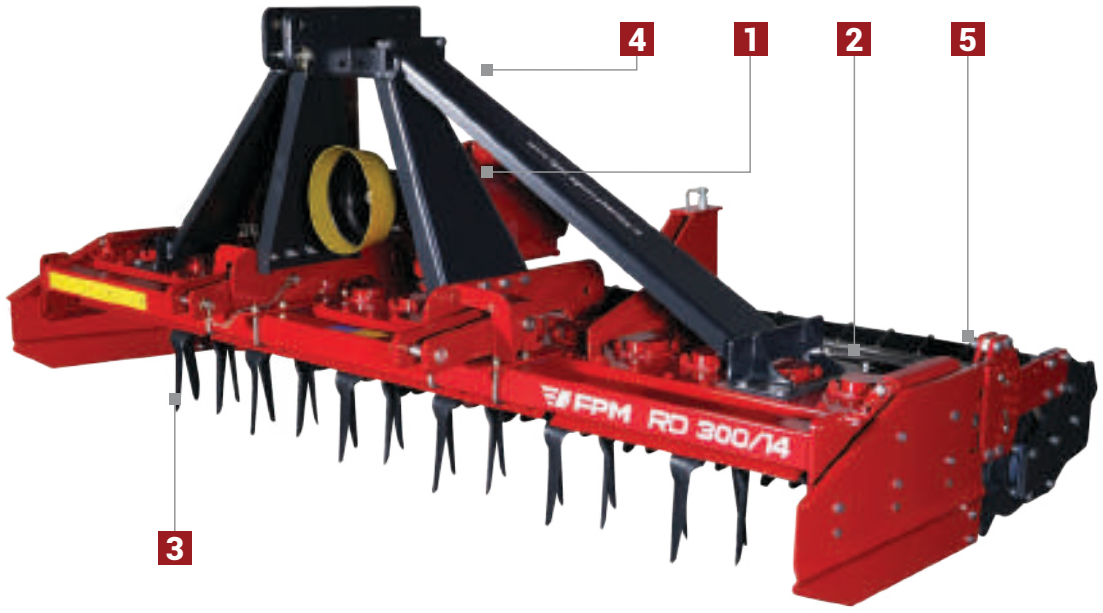
Power harrows are modern machines intended for cultivating various types of land.

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

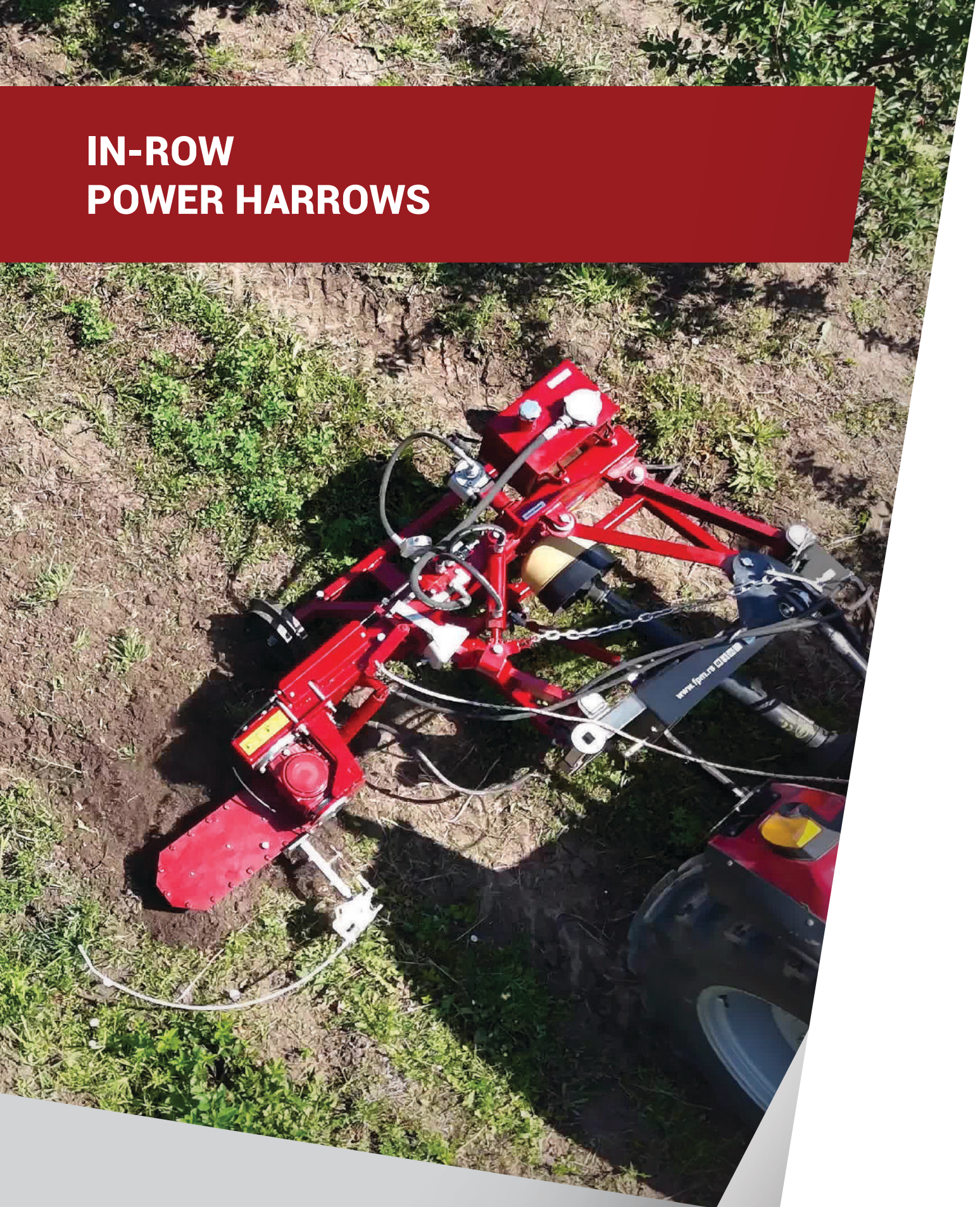
HYDROLIFT SYSTEM
Option for a model RD 300/14

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-ROW
POWER HARROWS



NEW!

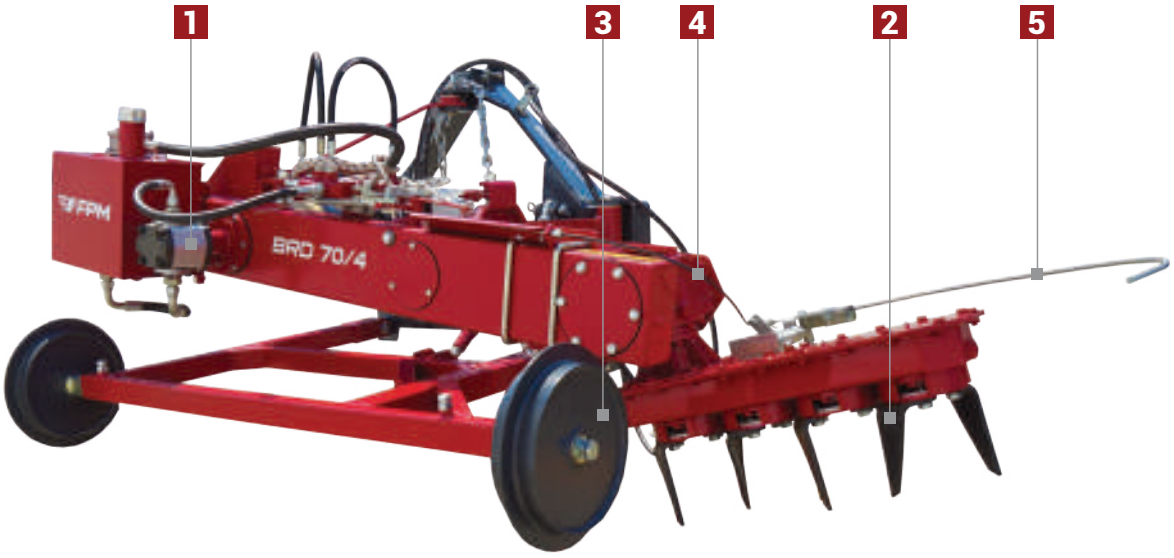
BRD in-line power harrows are intended for work in orchards, primarily for cultivation between trees with a minimum distance of 50 cm.

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 TRANSMISSION
The gearbox is protected against collisions with obstacles

SIDE MOVEMENT
is realized with the sensor spring

	m	min KW(HP)	cat	RPM	RPM			cm	cm	Kg
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

	m	min KW(HP)	cat	max km/h	Kg
ZDS 220	2,5	28(37)	I, II	2	330
ZDS 295	2,95	33(45)			386

	m	min KW(HP)	max km/h	Kg
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 ± 30° 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 Autonomus 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
FPM 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		m	km/h		Kg
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

2 **DEVICE OPTIONS**
a) Mower
b) Belt rake
c) Snow blower
d) Snowplough

1

1

HANDLEBAR
Height and side adjustable handlebars

2

a

MOWER

2

b

BELT RAKE

2

c

SNOW BLOWER

2

d

SNOWPLOUGH

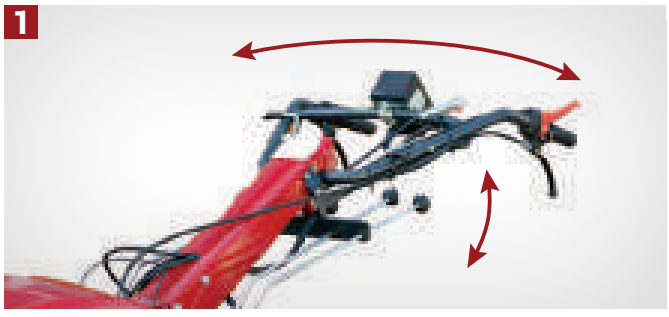
TWO WHEEL TRACTORS FPM 408/410/414

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

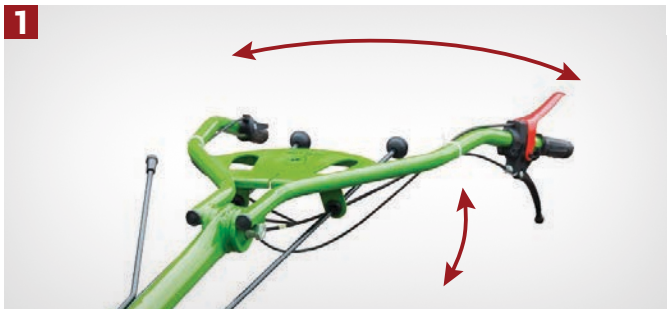
TWO WHEEL TRACTORS FPM 406

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

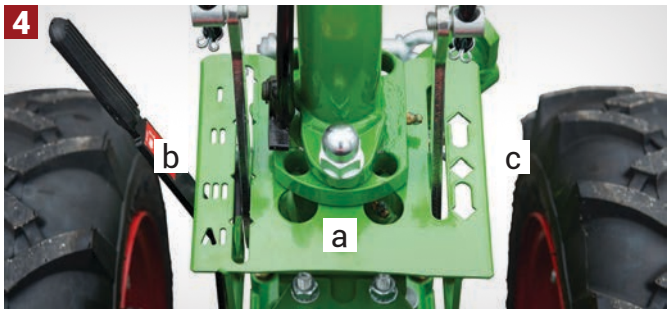
			KW(HP)/RPM			km/h	km/h			Kg
FPM 406	6 LD 360-Anadolu	✓	5,5(7,5) / 3000	✓		I-1.00 II-1.90 III-3.25 IV-7.10	I-1.00 II-1.90 III-3.25 IV-7.10	✓ (optional)	4.00-10 (optional 5.00-10)	117
	KM 186 F-Campes		5,7(7,75) / 3000 6,3(8,57) / 3600							117
	KM 178 F-Campes		3,68(5) / 3000 4(5,5) / 3600							102



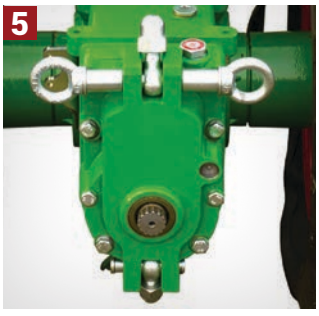
HANDLEBAR
Height adjustable in six positions;
and side of 180°

ENGINE-STOP
safety system

THROTTLE CONTROL



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



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

ADDITIONAL WHEEL PAIR
can be mounted

TWO WHEEL TRACTOR IMPLEMENTS

BELT RAKE

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

MOWER

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

ROTARY TILLER

	m	cm	Kg
FPM 802.245	0,5-0,8	15	41

SNOWPLOUGH

	m	Kg
FPM 805.229	1,25	48

Side Grips & Weights

Linkage for Trailer

Universal Linkage

Wheel Expanders

RIDGER

	cm	Kg
FPM 803.246	15	12

REVERS. PLOUGH

	cm	Kg
FPM 803.250	18	35

PLOUGH

	cm	Kg
FPM 803.249	18	24

SNOW BLOWER

	m	Kg
FPM 805.160	0,89	5

POTATO DIGGER

	cm	Kg
FPM 804.147	15	10

MOTOR HOES
FPM 512

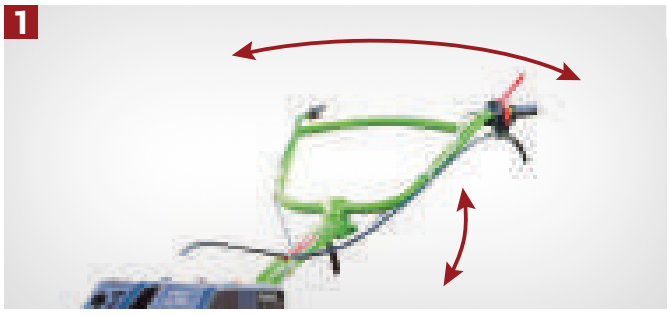
FMP 512 motor hoes are professional machines designed for soil cultivation in market gardening, greenhouses, fruit growing, viticulture, gardening and for maintenance of grassy areas and parks.

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:

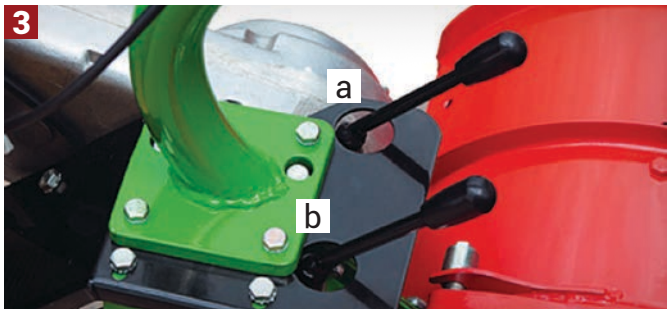
- Professional and durable machines designed for intensive operation
- Proven and reliable German technology
- Drive wheel enables easy operation
- High operation precision

			KW(HP)/RPM		km/h	RPM		cm	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



HANDLEBAR
Height and side adjustable handlebars

WORKING WIDTH ADJUSTMENT



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

ENGINE-STOP
safety system

RIDGER
Built-in option

Notes