

MCMs Warka Sp. z o.o.



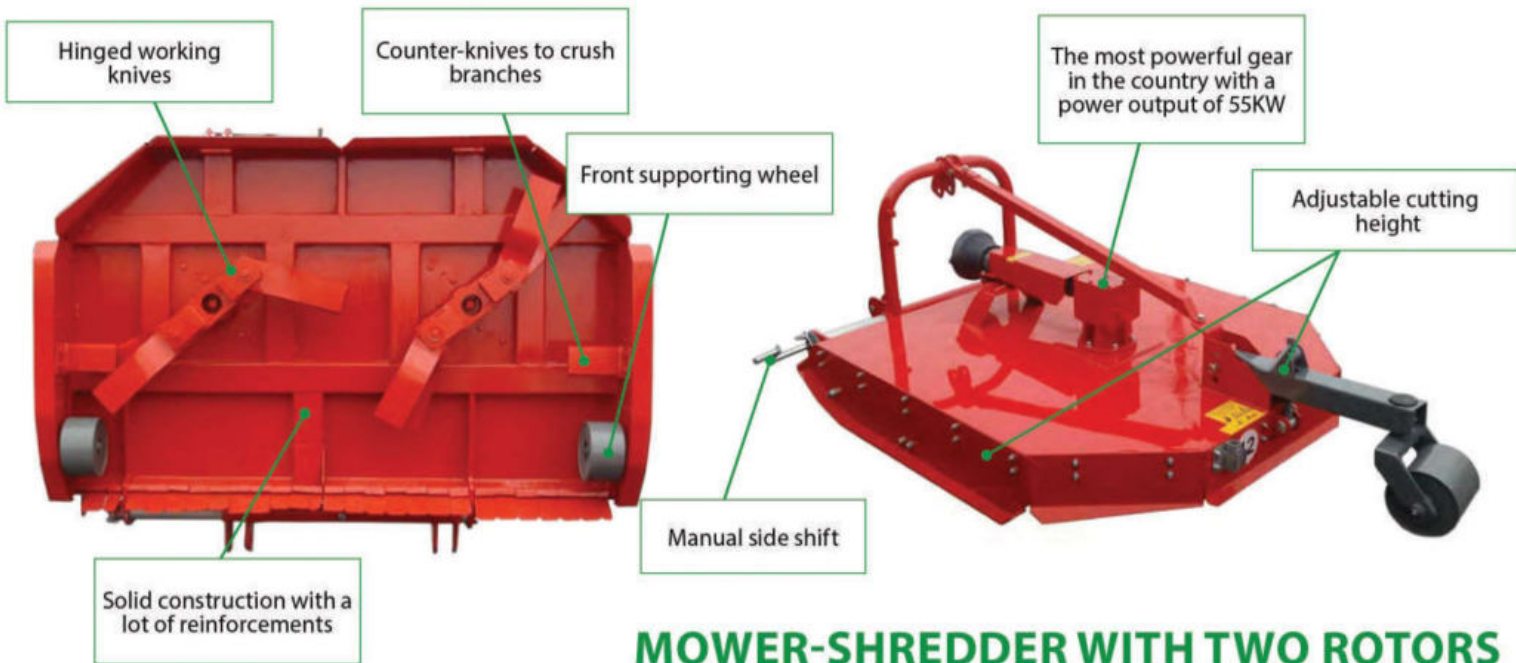
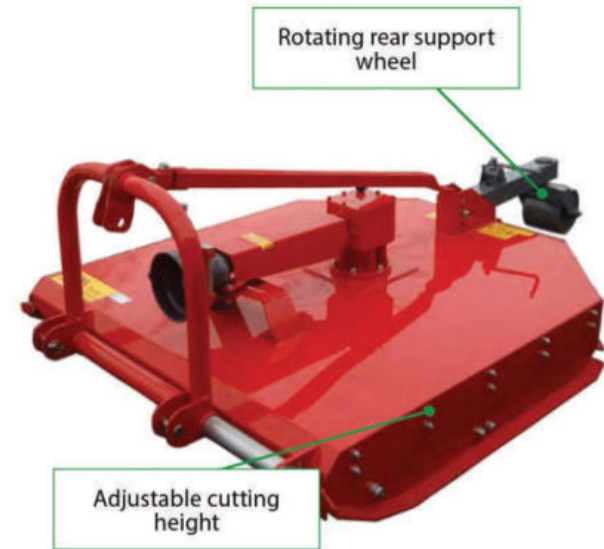
CATALOG
MACHINERY AND EQUIPMENT
FOR AGRICULTURAL AND HORTICULTURAL

ul. Gośniewska 160
05-660 Warka
tel. 48 667-43-58
tel./fax 48 667-21-66
e-mail: mcms@mcms.pl
www.mcms.pl

MOWER-SHREDDER WITH ONE ROTOR

RG-140 | RG-160 | RG-180 | RG-200

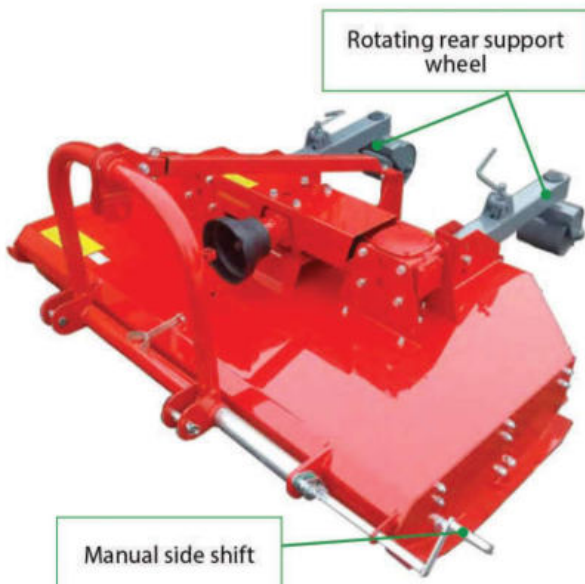
| Parameters | | RG-140 | RG-160 | RG-180 | RG-200 |
|------------------------------------|-------|--------------------------|--------|--------|--------|
| Type of machine | | connected to tractor PTO | | | |
| Side shift | cm | 32 | | | |
| Working width | cm | 140 | 160 | 180 | 200 |
| Number of working blades | pcs | 4 rotating, 2 permanent | | | |
| Cutting height | cm | from 3 to 15 | | | |
| Weight | kg | 390 | 460 | 500 | 540 |
| Power requirement | kW/KM | 18/24 | 20/27 | 22/30 | 24/33 |
| Max thickness of shredded branches | cm | 4 | | | |
| Overall dimensions | | | | | |
| length | cm | 195 | 225 | 255 | 285 |
| width | cm | 154 | 174 | 194 | 214 |
| height | cm | 105 | 105 | 105 | 105 |



MOWER-SHREDDER WITH TWO ROTORS

RG-180/2 | RG-200/2 | RG-220 | RG-240 | RG-270

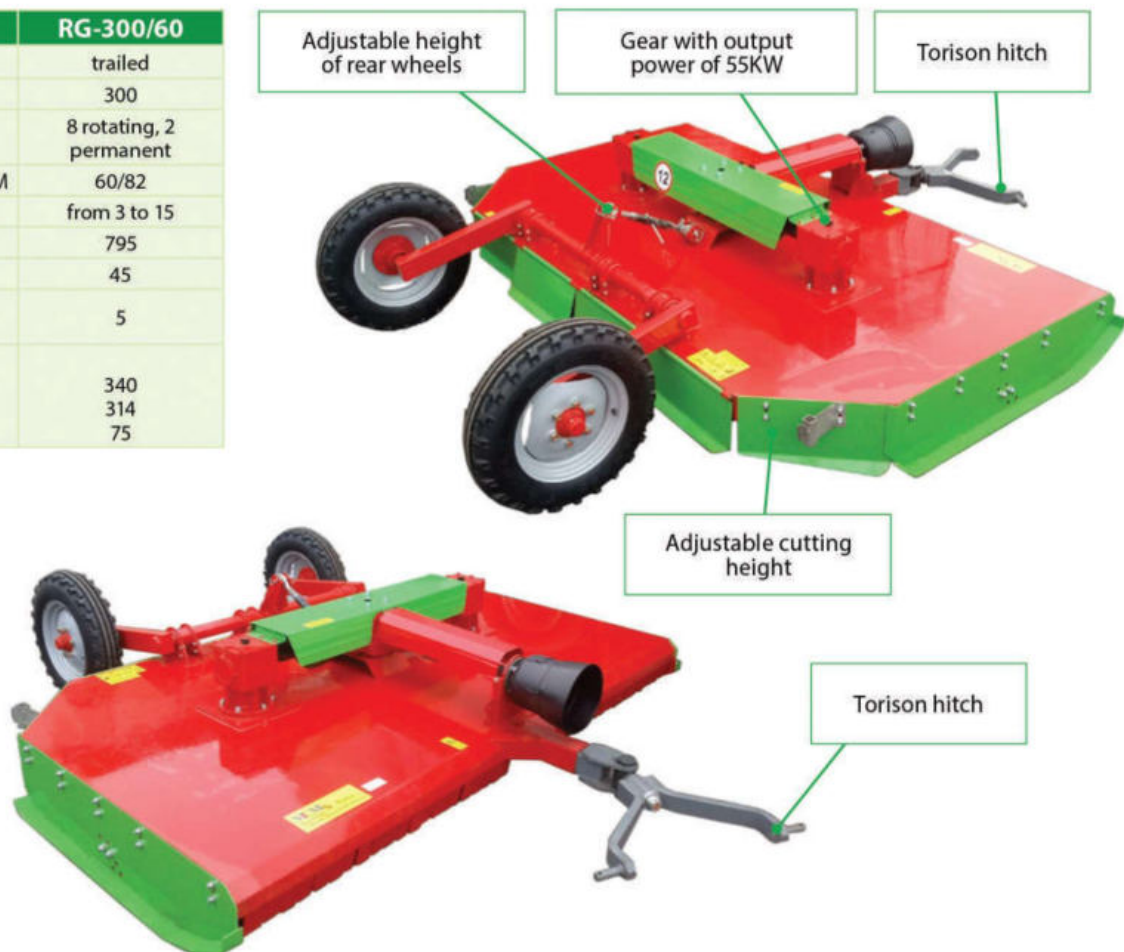
| Parameters | | RG-180/2 | RG-200/2 | RG-220 | RG-240 | RG-270 |
|------------------------------------|-------|--------------------------|----------|--------|--------|--------|
| Type of machine | | connected to tractor PTO | | | | |
| Side shift | cm | 32 | | | | |
| Working width | cm | 180 | 200 | 220 | 240 | 270 |
| Number of working blades | pcs | 8 rotating, 2 permanent | | | | |
| Cutting height | cm | from 3 to 15 | | | | |
| Weight | kg | 515 | 535 | 555 | 575 | 595 |
| Power requirement | kW/KM | 23/31 | 25/34 | 28/38 | 35/48 | 40/54 |
| Max thickness of shredded branches | cm | 3 | | | | |
| Overall dimensions | | | | | | |
| length | cm | 165 | 175 | 185 | 195 | 215 |
| width | cm | 194 | 214 | 234 | 254 | 284 |
| height | cm | 105 | 105 | 105 | 105 | 105 |



MOWER-SHREDDER WITH TWO ROTORS

RG-300/60

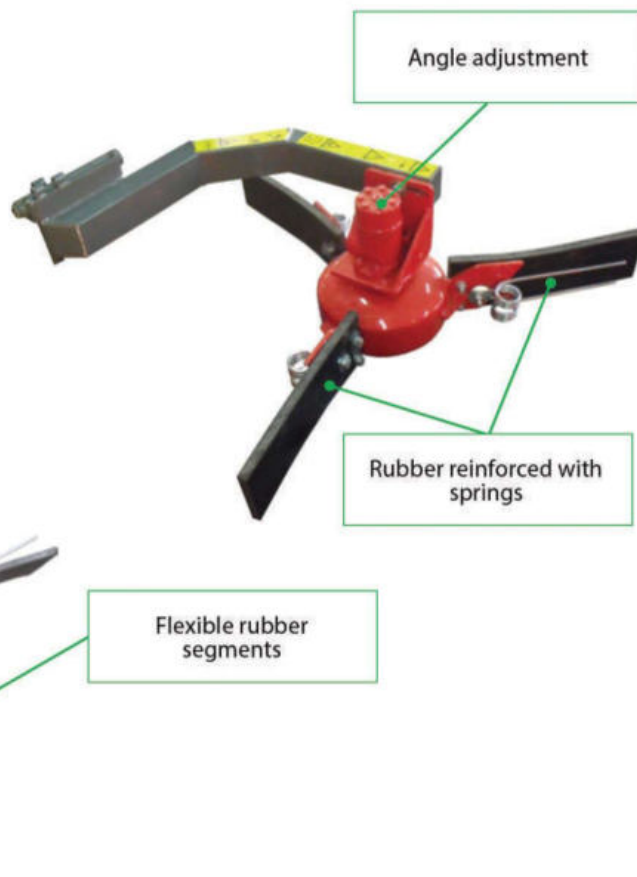
| Parameters | | RG-300/60 |
|------------------------------------|-------|-------------------------|
| Type of machine | | trailed |
| Working width | cm | 300 |
| Number of working blades | pcs | 8 rotating, 2 permanent |
| Power transmission unit | kW/KM | 60/82 |
| Cutting height | cm | from 3 to 15 |
| Weight | kg | 795 |
| Power requirement | kW | 45 |
| Max thickness of shredded branches | cm | 5 |
| Overall dimensions | | |
| length | cm | 340 |
| width | cm | 314 |
| height | cm | 75 |



HYDRAULIC ORCHARD SWEEPER

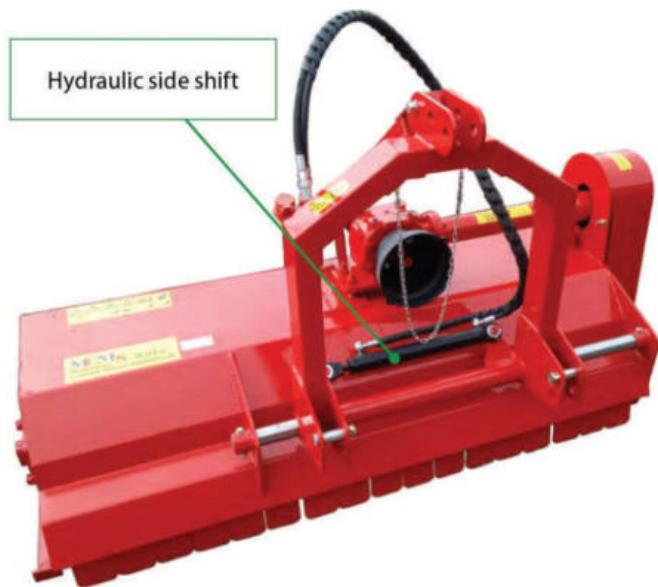
WGH

| Parameters | | WGH |
|-----------------|-------|--|
| Type of machine | | aggregates with a shredder or bracket mounted on the front axle of tractor |
| Source unit | | outside hydraulics of the tractor |
| Gear type | | low-speed hydraulic motor 12 kW |
| Working width | cm | 80 |
| Weight | kg | 50 |
| Oil demand | l/min | 30 |



BEATER SHREDDER

RB-150 | RB-180



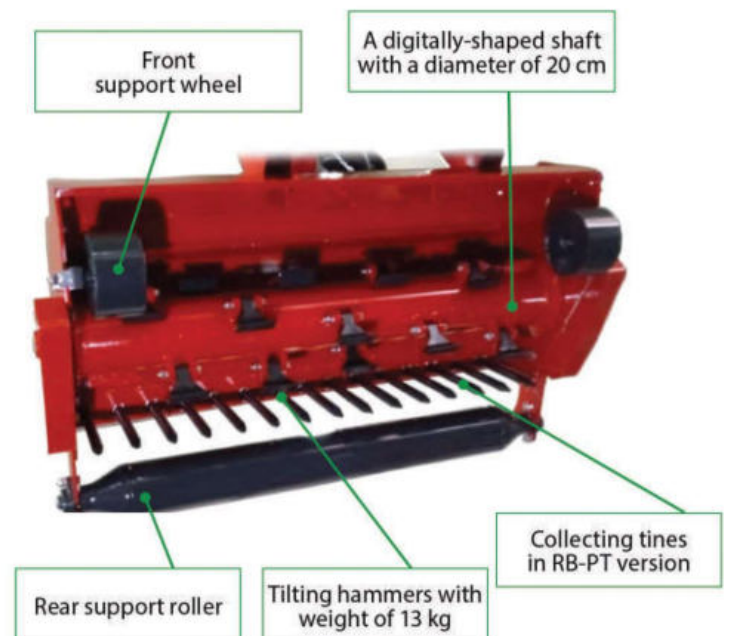
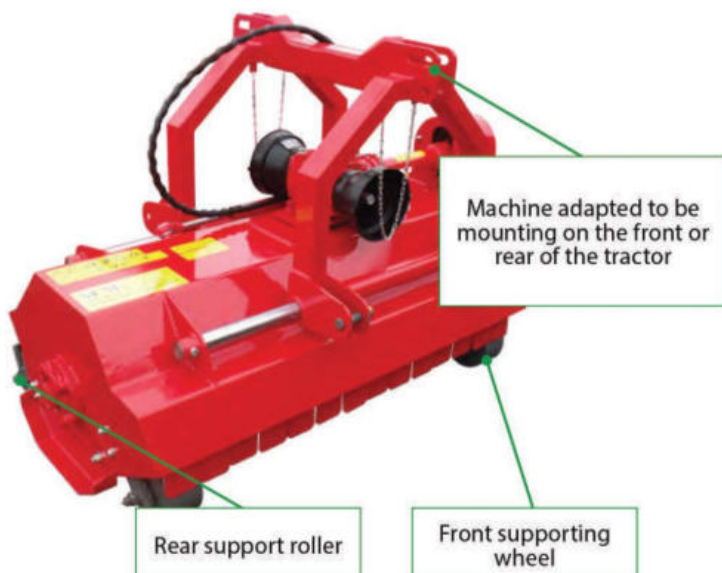
| Parameters | | RB-150 | RB-180 |
|------------------------------------|-------|--------------------------|--------|
| Type of machine | | connected to tractor PTO | |
| Hydraulic side shift | cm | 32 | |
| Working width | cm | 150 | 180 |
| Number of working blades | pcs | 15 | 18 |
| Weight | kg | 600 | 680 |
| Power requirement | kW/KM | 30/41 | 40/54 |
| Max thickness of shredded branches | cm | 7 | |
| Overall dimensions | | | |
| length | cm | 110 | 110 |
| width | cm | 176 | 206 |
| height | cm | 105 | 105 |

BEATER SHREDDER

RB-150/PT | RB-180/PT



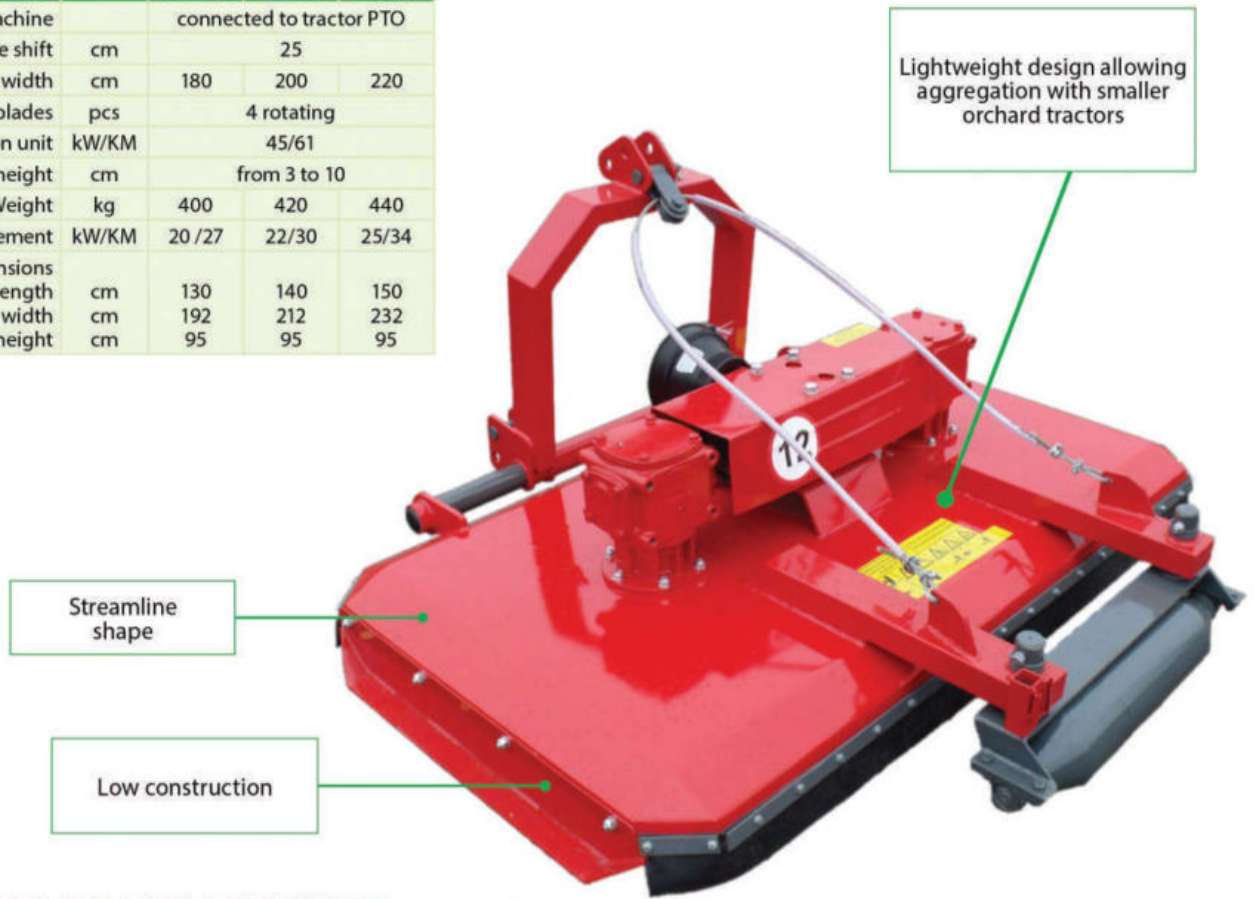
| Parameters | | RB-150/PT | RB-180/PT |
|------------------------------------|-------|--------------------------|-----------|
| Type of machine | | connected to tractor PTO | |
| Hydraulic side shift | cm | 32 | |
| Working width | cm | 150 | 180 |
| Number of working blades | pcs | 15 | 18 |
| Weight | kg | 645 | 725 |
| Power requirement | kW/KM | 30/41 | 40/54 |
| Max thickness of shredded branches | cm | 7 | |
| Overall dimensions | | | |
| length | cm | 97 | 97 |
| width | cm | 187 | 217 |
| height | cm | 105 | 105 |



ORCHARD MOWER

KS-180 | KS-200 | KS-220

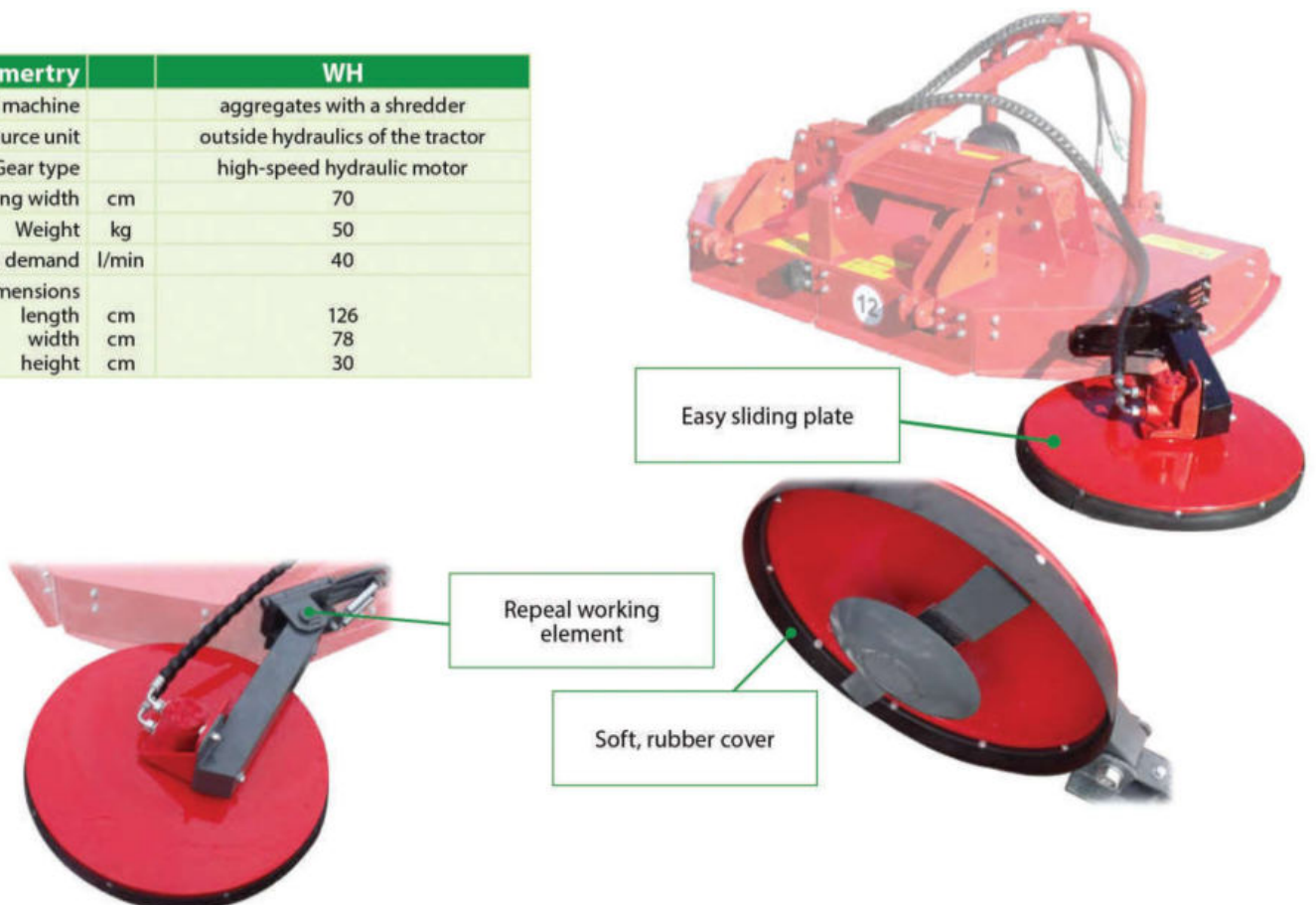
| Parameters | | KS-180 | KS-200 | KS-220 |
|--------------------------|-------|--------------------------|--------|--------|
| Type of machine | | connected to tractor PTO | | |
| Side shift | cm | 25 | | |
| Working width | cm | 180 | 200 | 220 |
| Number of working blades | pcs | 4 rotating | | |
| Power transmission unit | kW/KM | 45/61 | | |
| Cutting height | cm | from 3 to 10 | | |
| Weight | kg | 400 | 420 | 440 |
| Power requirement | kW/KM | 20 /27 | 22/30 | 25/34 |
| Overall dimensions | | | | |
| length | cm | 130 | 140 | 150 |
| width | cm | 192 | 212 | 232 |
| height | cm | 95 | 95 | 95 |



HYDRAULIC BRUSHCUTTER

WH

| Parameter | | WH |
|--------------------|-------|-----------------------------------|
| Type of machine | | aggregates with a shredder |
| Source unit | | outside hydraulics of the tractor |
| Gear type | | high-speed hydraulic motor |
| Working width | cm | 70 |
| Weight | kg | 50 |
| Oil demand | l/min | 40 |
| Overall dimensions | | |
| length | cm | 126 |
| width | cm | 78 |
| height | cm | 30 |



MULTIFUNCTIONAL SUBSOILER

GZ/M | GZ-2/M | GZ-3/M

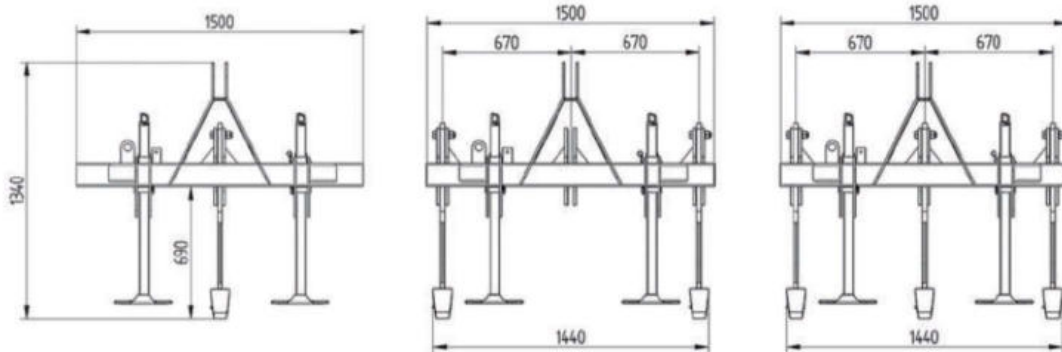


Durable support frame

In addition to the possibility of subsoiling, the machine is the basis for other equipment used in agriculture and fruit farming

| Parameters | | GZ/M | GZ-2/M | GZ-3/M |
|-----------------------|-------|--------------------------|--------|--------|
| Type of machine | | connected to tractor PTO | | |
| Power requirement | kW/KM | 45/61 | 65/88 | 90/122 |
| Number of claws | pcs | 1 | 2 | 3 |
| Working depth | cm | 70 | | |
| Spacing between claws | cm | - | 70 | 70 |
| Weight | kg | 210 | 300 | 390 |
| Overall dimensions | | | | |
| length | cm | 95 | 95 | 95 |
| width | cm | 130 | 150 | 150 |
| height | cm | 140 | 140 | 140 |

THREE VARIANTS ARE AVAILABLE: WITH ONE, TWO AND THREE KNIVES



Side shift

The ability to mount a working plate



| Parameters | | Roots trimmer |
|----------------------------------|-------|---------------|
| Power requirement | kW/KM | 45/61 |
| Working depth | cm | 70 |
| Weight of the additional options | kg | 70 |

Equipment is inserted into the profile of the subsoiler

Trimmer-knife made of steel with increased resistance to abrasion



Equipment applied to the subsoiler's claw

Installing the irrigation hose without digging ditches

| Parameters | | Pipe paver |
|----------------------------------|----|------------|
| Pipe diameter | cm | Ø 16 |
| Working depth | cm | 46 |
| Weight of the additional options | kg | 54 |



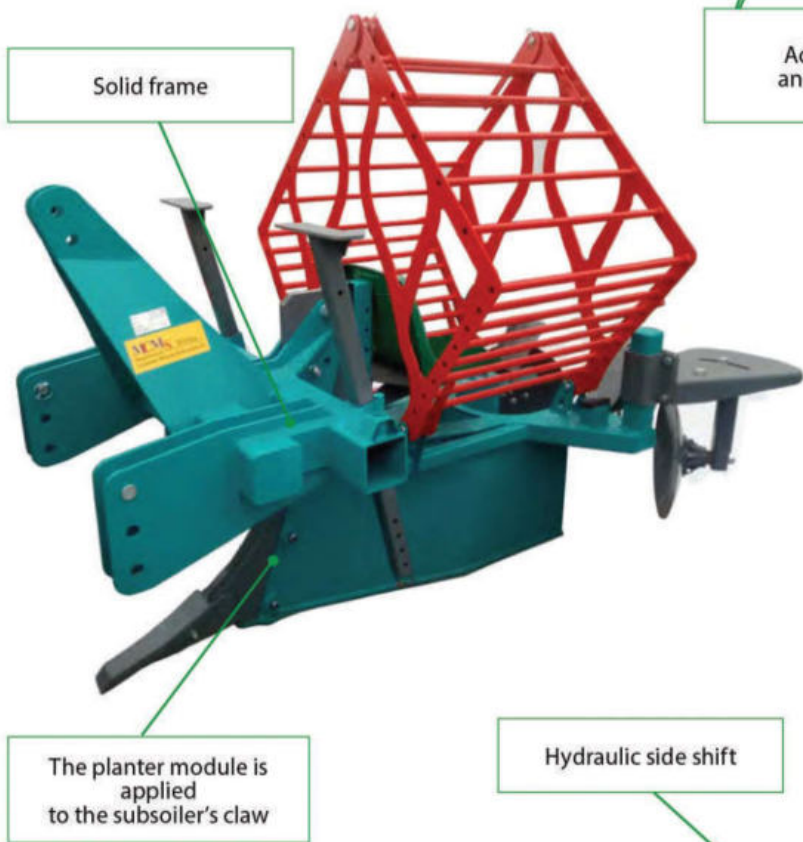
| Parameters | | Plantener |
|-------------------------|-------|-----------|
| Power requirement | kW/KM | 45/61 |
| Weight of the coulter | cm | 35 |
| Working depth | cm | 46 |
| Weight opcji additional | kg | 240 |



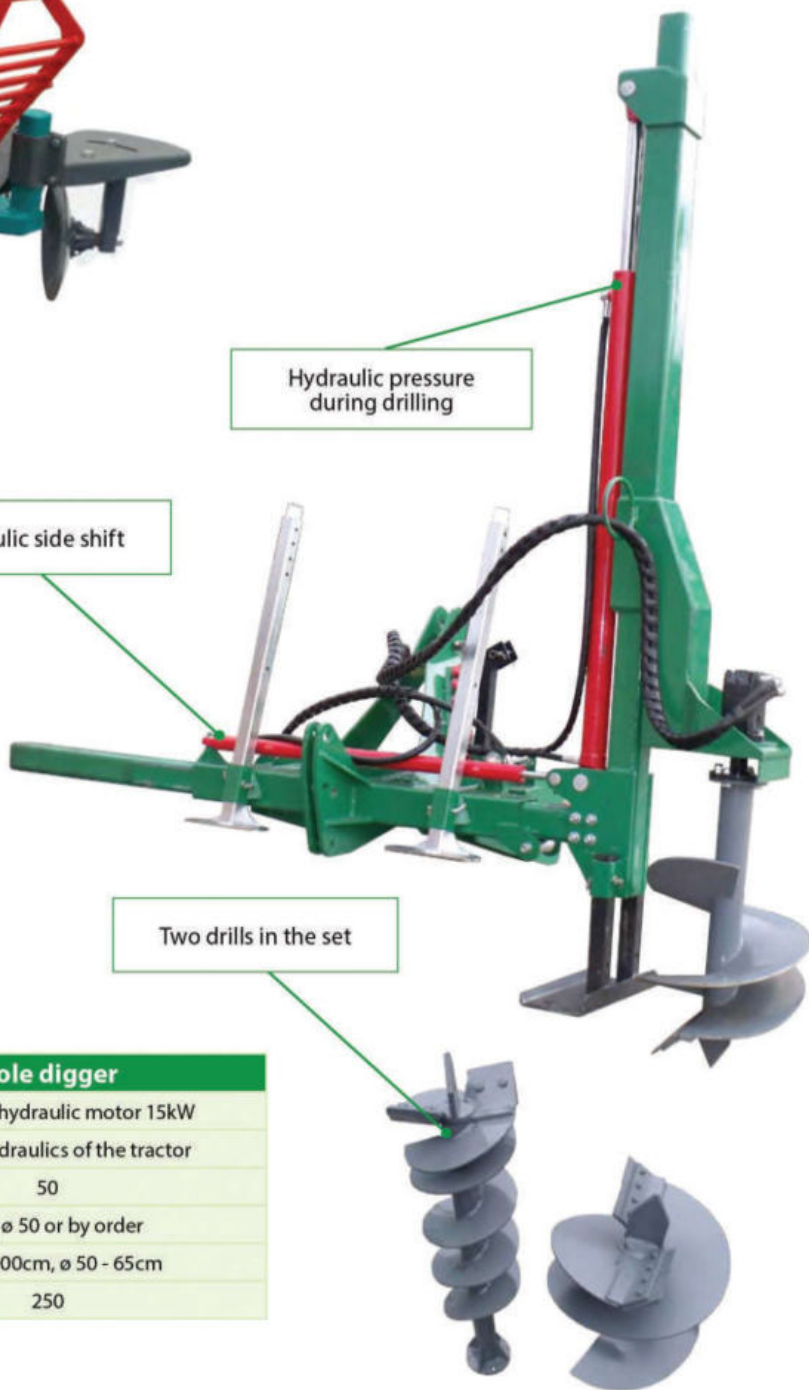
Adjustable height and angle of plates

Spilling plates

Another row marker



The planter module is applied to the subsoiler's claw



Hydraulic pressure during drilling

Hydraulic side shift

Two drills in the set

| Parameters | | Hole digger |
|----------------------------------|-------|-----------------------------------|
| Typ unit | | low speed hydraulic motor 15kW |
| Source unit | | outside hydraulics of the tractor |
| Oil demand | l/min | 50 |
| Working width drills | cm | Ø 25, ø 50 or by order |
| Max depth drilling | cm | Ø 25 - 100cm, ø 50 - 65cm |
| Weight of the additional options | kg | 250 |

ORCHARD MILLING-PLANTER

FSS-35

| Parameters | | FSS-35 |
|--------------------------|-------|--------------------------|
| Type of machine | | connected to tractor PTO |
| Max Working width | cm | 55 |
| Max Working depth | cm | 35 |
| Number of working blades | pcs | 6 |
| Power requirement | kW/KM | 35/48 |
| Max speed when milling | km/h | 5 |
| Max transport speed | km/h | 12 |
| Transport clearance | cm | 30 |
| Sideshift | cm | 80 |
| Weight | kg | 530 |
| Overall dimensions | | |
| length | cm | 100 |
| width | cm | 220 |
| height | cm | 150 |



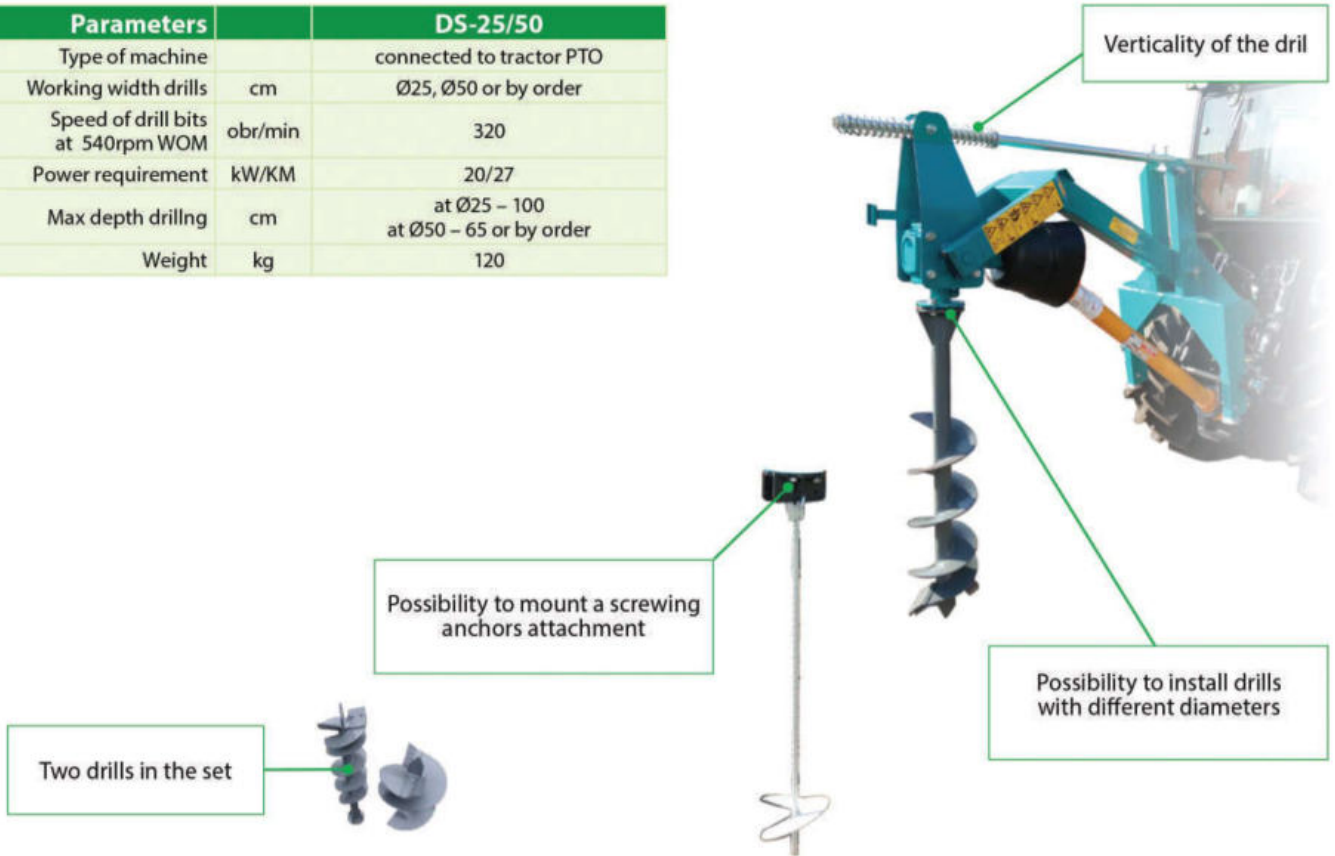
A machine for digging ditches for planting between poles



HOLE DIGGER

DS-25/50

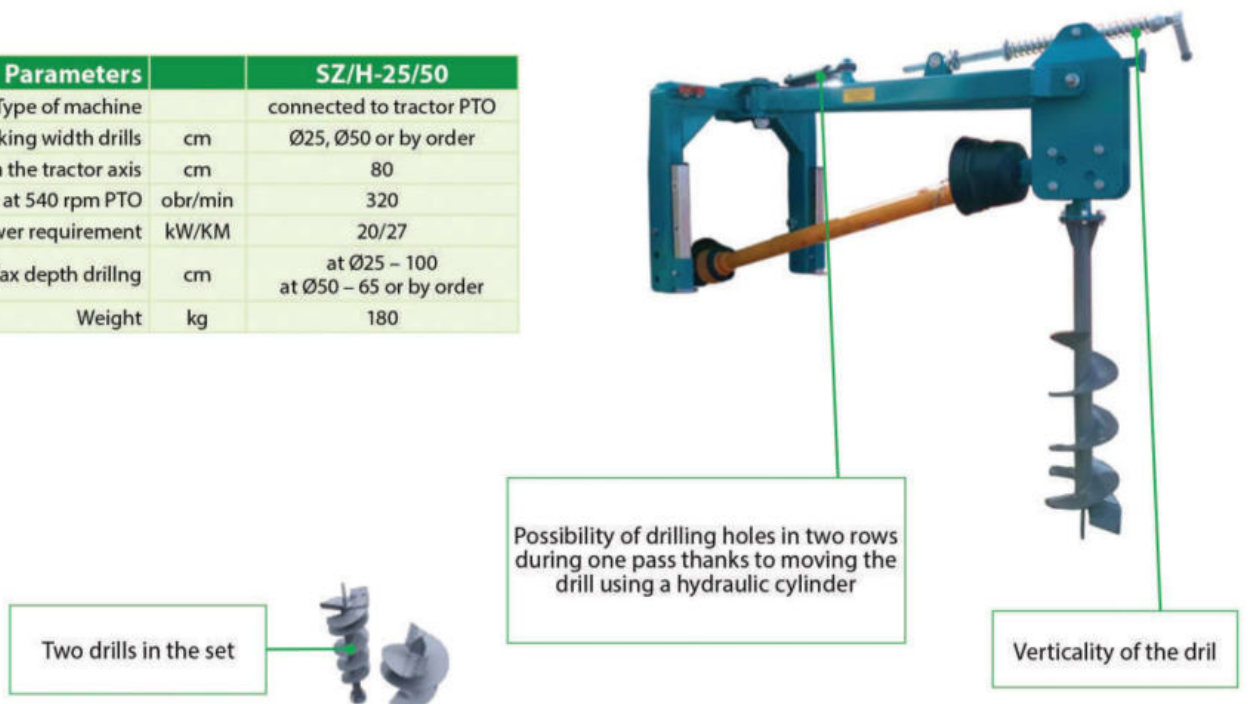
| Parameters | | DS-25/50 |
|-----------------------------------|---------|---|
| Type of machine | | connected to tractor PTO |
| Working width drills | cm | Ø25, Ø50 or by order |
| Speed of drill bits at 540rpm WOM | obr/min | 320 |
| Power requirement | kW/KM | 20/27 |
| Max depth drilling | cm | at Ø25 – 100 at Ø50 – 65 or by order |
| Weight | kg | 120 |



HOLE DIGGER

SZ/H-25/50

| Parameters | | SZ/H-25/50 |
|---------------------------------------|---------|---|
| Type of machine | | connected to tractor PTO |
| Working width drills | cm | Ø25, Ø50 or by order |
| Max swing from the tractor axis | cm | 80 |
| Rotation of drill bits at 540 rpm PTO | obr/min | 320 |
| Power requirement | kW/KM | 20/27 |
| Max depth drilling | cm | at Ø25 – 100 at Ø50 – 65 or by order |
| Weight | kg | 180 |



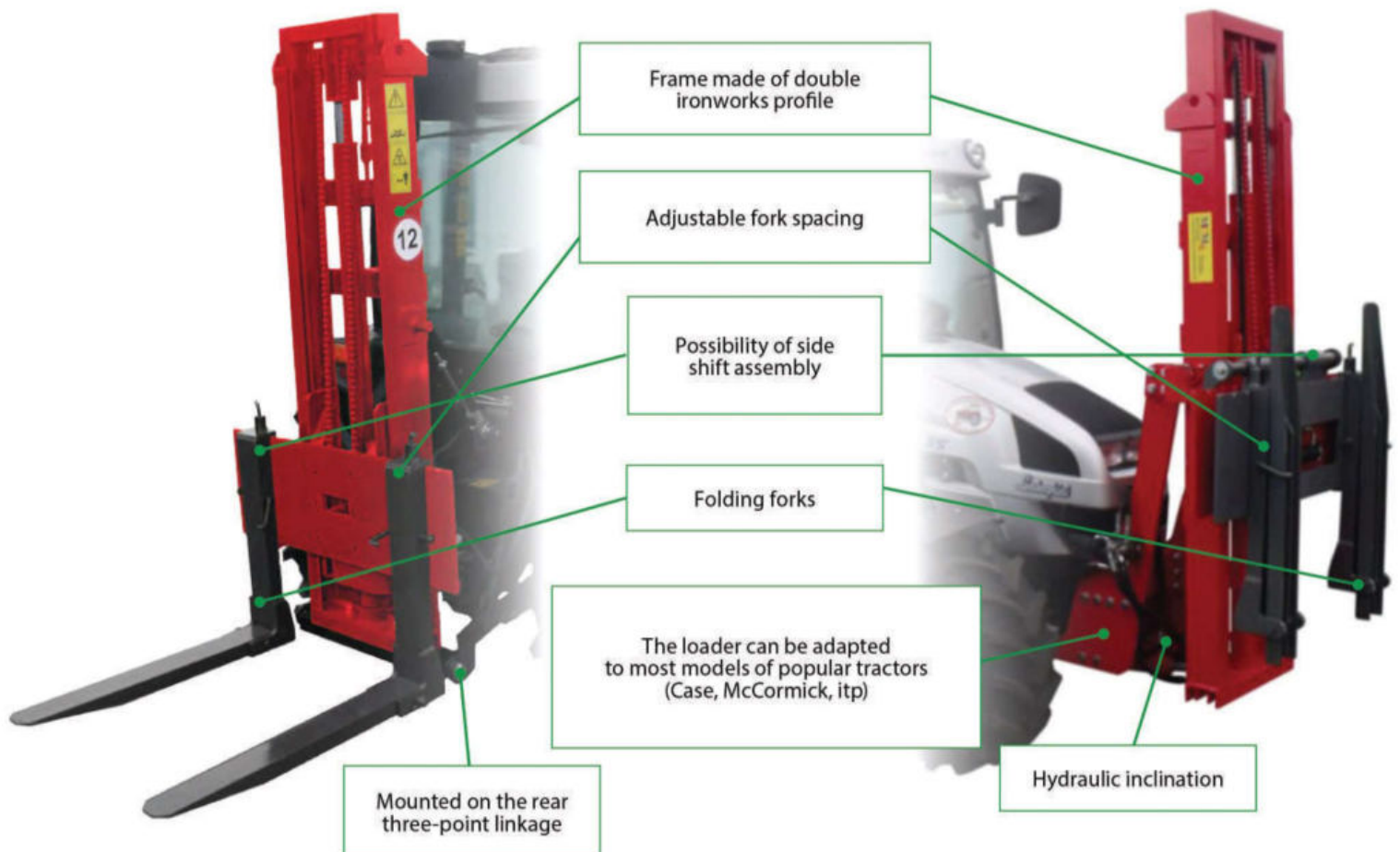
FORKLIFT HYDRAULIC LOADER

PHW-240/T

PHW [on the front of the tractor]

| Parameters | | PHW-240/T |
|--------------------|----|--------------------------|
| Type of machine | | connected to tractor PTO |
| Weight | kg | 310 |
| Lift capacity | kg | 700 |
| Lifting height | cm | 240 |
| Fork width | cm | 26 - 90 regulated |
| Overall dimensions | | |
| length | cm | 45 |
| width | cm | 96 |
| height | cm | 176 |

| Parameters | | PHW |
|--------------------|----|---|
| Type of machine | | suspended on the tractor front axle bracket |
| Weight wlasna | kg | 290 + bracket |
| Lift capacity | kg | 700 |
| Lifting height | cm | 240 |
| Fork width | cm | 26 - 90 regulated |
| Overall dimensions | | |
| length | cm | dependent on the type of tractor |
| width | cm | 96 |
| height | cm | 176 |



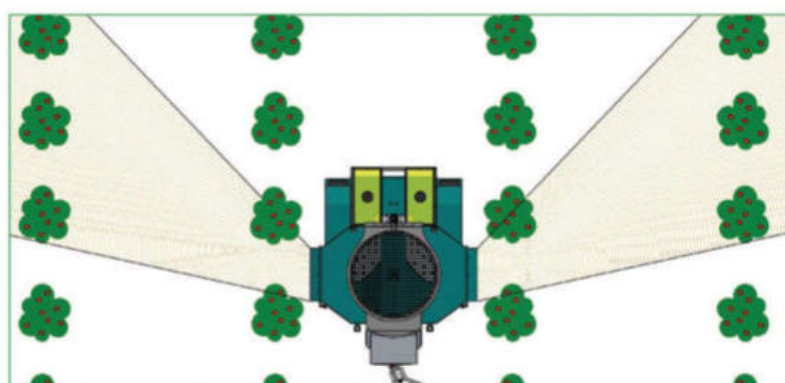
HOT AIR GENERATOR

UZP-350/4

| Parameters | | UZP-350/4 | |
|--------------------------------|-------------------|---------------------------------------|-----|
| Fan efficiency | m ³ /h | 36000 | |
| The height of air aspiration | m | 4 | |
| The range of the exhaust air | m | 20 - 24 | |
| Heating power | kW | 350 | |
| Fuel type | | Diesel / fuel oil with refining agent | |
| Tractor power requirement | kW/KM | 30/41 | |
| Electricity demand | V | 12 | |
| | A | 16 | |
| Average fuel consumption | l/h | 22 - 26 | |
| Max temperature at the outlet | °C | 80 | |
| Power inverter current 12/230V | W | 1000 | |
| Fuel tank capacity | l | 160 | |
| Weight (empty tank) | kg | 870 | |
| Overall dimensions: | length | cm | 210 |
| | width | cm | 240 |
| | height | cm | 400 |



Hot air generator is a machine that prevents the negative effects of frosts. It's operation is based on collecting warmer air from a height of 4m, heating it with the help of oil burners and then dispersed at the height of plantings.





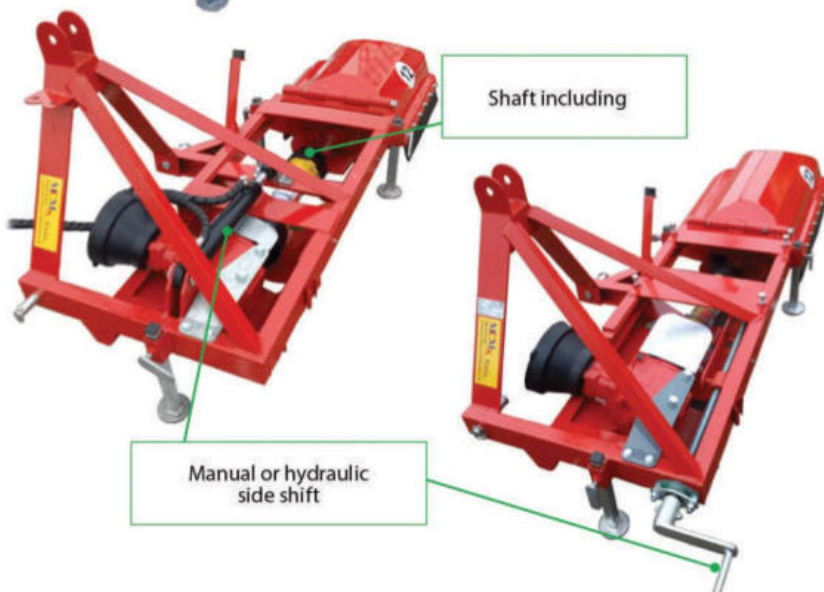
| Parameters | | PA-1 |
|--|-------|--------------------------------------|
| Type of machine | | mounted on the front or rear linkage |
| Max depth of weeding | cm | 15 |
| Oil demand | l/min | 50 |
| Source unit | | outside hydraulics of the tractor |
| Efficiency | ha/h | 0,2 - 0,7 |
| Max working speed | km/h | 5 |
| Hydraulic extension of the working element | cm | 40 |
| Width of working element | cm | 35 |
| Weight | kg | 160 |
| Overall dimensions | | |
| length | cm | 160 |
| width | cm | 95 |
| height | cm | 95 |

ORCHARD ROTOTILLER

GS-60/R | GS-80/R | GS-100/R



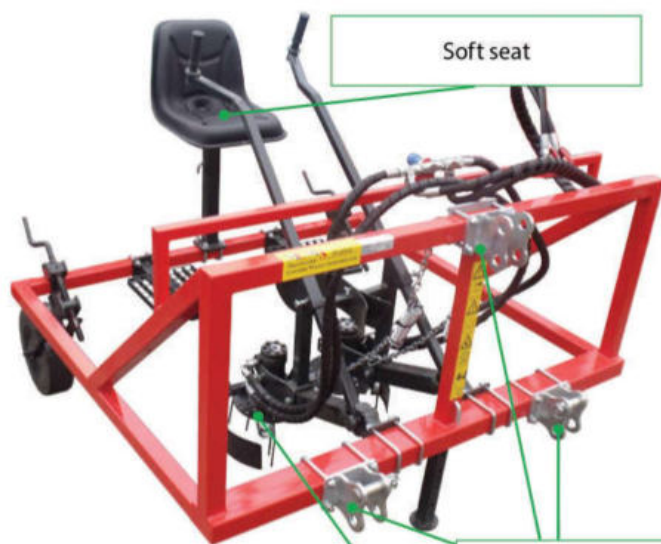
| Parameters | | GS-60/R | GS-80/R | GS-100/R |
|--------------------------|-------|--------------------------|---------|----------|
| Type of machine | | connected to tractor PTO | | |
| Max working depth | cm | 5 | | |
| Working width | cm | 60 | 80 | 100 |
| Side shift | cm | 25 | | |
| Power requirement | kW/KM | 15/20 | 20/27 | 25/35 |
| Number of working blades | pcs | 12 | 16 | 20 |
| Weight | kg | 210 | 230 | 250 |
| Overall dimensions | | | | |
| length | cm | 80 | 80 | 80 |
| width | cm | 225 | 245 | 265 |
| height | cm | 95 | 95 | 95 |



HYDRAULIC HOE

PH-1 | PH-2

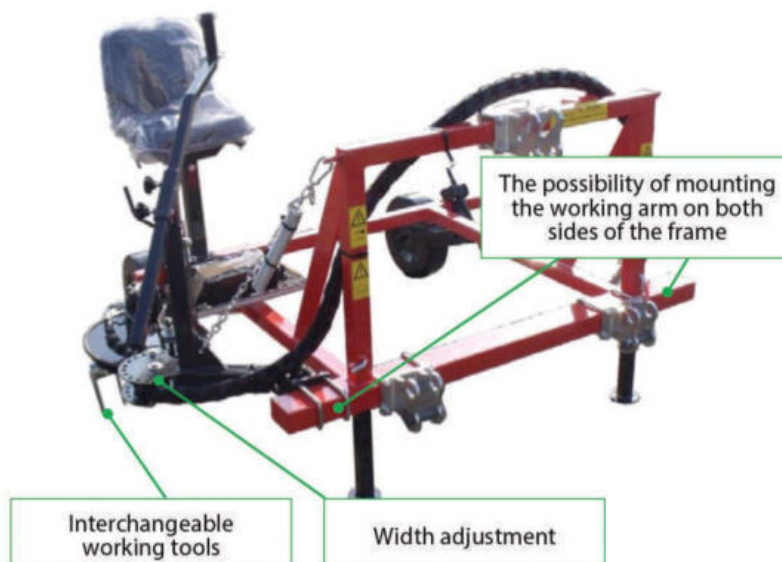
| Parameters | | PH-1 | PH-2 |
|----------------------|-------|-----------------------------------|---------|
| Type of machine | | connected to tractor PTO | |
| Max depth of weeding | cm | 15 | |
| Oil demand | l/min | 40 | |
| Source unit | | outside hydraulics of the tractor | |
| Max working speed | km/h | 5 | |
| Efficiency | ha/h | 0,1 - 1 | 0,2 - 2 |
| Weight | kg | 120 | 240 |
| Overall dimensions: | | | |
| length | cm | 200 | 200 |
| width | cm | 150 | 200 |
| height | cm | 130 | 130 |



LATERAL HYDRAULIC HOE

PH-35/B

| Parameters | | PH-35/B |
|----------------------|-------|-----------------------------------|
| Type of machine | | connected to tractor PTO |
| Max depth of weeding | cm | 15 |
| Oil demand | l/min | 20 |
| Source unit | | outside hydraulics of the tractor |
| Max working speed | km/h | 5 |
| Efficiency | ha/h | 0,2 - 0,7 |
| Weight | kg | 150 |
| Overall dimensions: | | |
| length | cm | 165 |
| width | cm | 140 |
| height | cm | 130 |



DISCHARGE TRAILER

PW-370/H | PW-490/H

| Parameters | | PW-370/H | PW-490/H |
|------------------------------|--------|----------|----------|
| Loading capacity | kg | 2500 | 2500 |
| Min loading height | cm | 25 | |
| Weight | kg | 720 | 850 |
| The usable area of the width | cm | 102 | 102 |
| | length | 370 | 490 |



Road lighting

Hydraulically adjustable trailer height

Torison hitch

Rolls for easy moving of the pallet

STRAW BLOWER

RS-01 | RS-16/B

| Parameters | | RS-01 | RS - 16/B |
|---------------------------|-------|----------------------------|-----------|
| Type of machine | | connected to tractor PTO | |
| Working width | cm | 80-140 | |
| Power requirement | kW/KM | 23/31 | 40/52 |
| Source unit | | PTO shaft from the tractor | |
| Oil demand | l/min | - | 20 |
| Diameter of the container | cm | Ø60 | Ø180 |
| Efficiency | ha/h | 0,3 - 1 | |
| Weight | kg | 280 | 790 |
| Overall dimensions | | | |
| length | cm | 230 | 220 |
| width | cm | 240 | 220 |
| height | cm | 140 | 160 |

The machine is used for crushing straw bales

Possibility of blowing using 2 out of 3 outlet pipes



Adjustable support wheels

Adjustable outlet pipes

An innovative system for the regulation of the degree of straw fragmentation covered by patent protection



Adjustable support wheels

Possibility of blowing using 2 out of 3 outlet pipes

Adjustable outlet pipes

UNIVERSAL SCRATCHER

ZU-200/PT | ZU-250/PT | ZU-300/PT

| Parameters | | ZU-200/PT | ZU-250/PT | ZU-300/PT |
|-----------------------------|-------|--------------------------|-----------|-----------|
| Type of machine | | connected to tractor PTO | | |
| Working width | cm | 200 | 250 | 300 |
| Power requirement | kW/KM | 25/34 | 35/48 | 45/61 |
| Max steering angle | ° | | 35 | |
| Number of working positions | | | 3 | |
| Adjusting of the work angle | | | manual | |
| Weight | kg | 280 | 330 | 380 |



Possibility of turning the scraper board and the earth equation with a metal blade

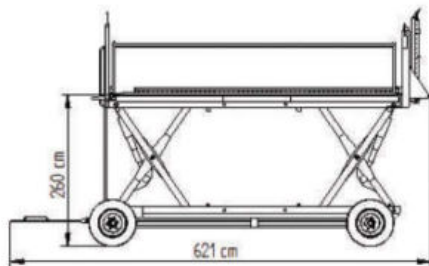
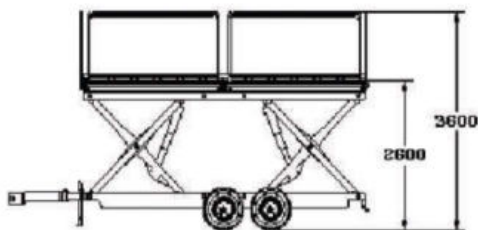
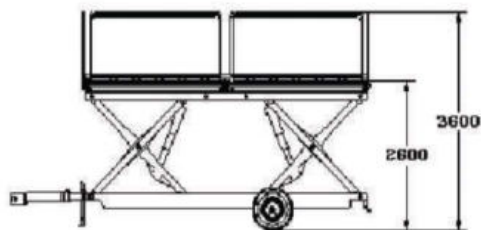
Optional hydraulic adjustment of the working angle



ORCHARD PLATFORM

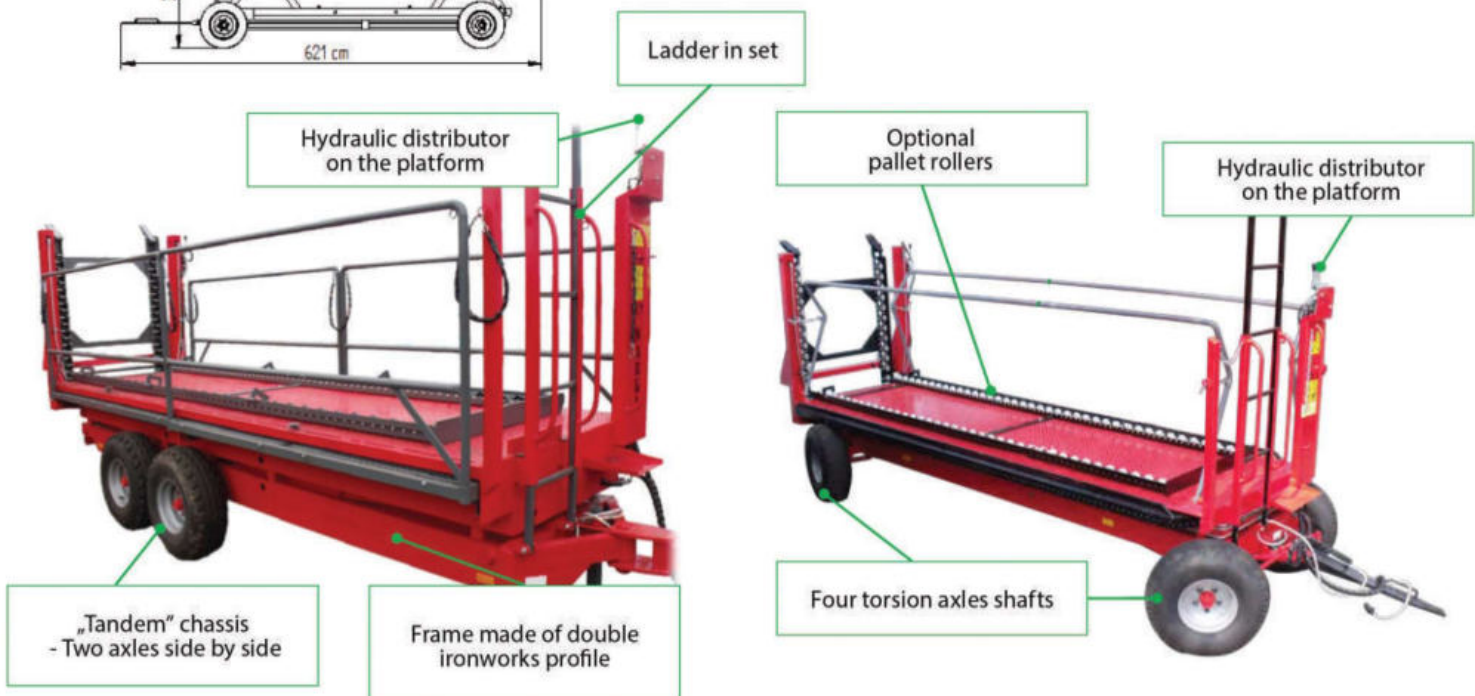
PSN-260-1 | PSN-260/2 | PSN-260/4

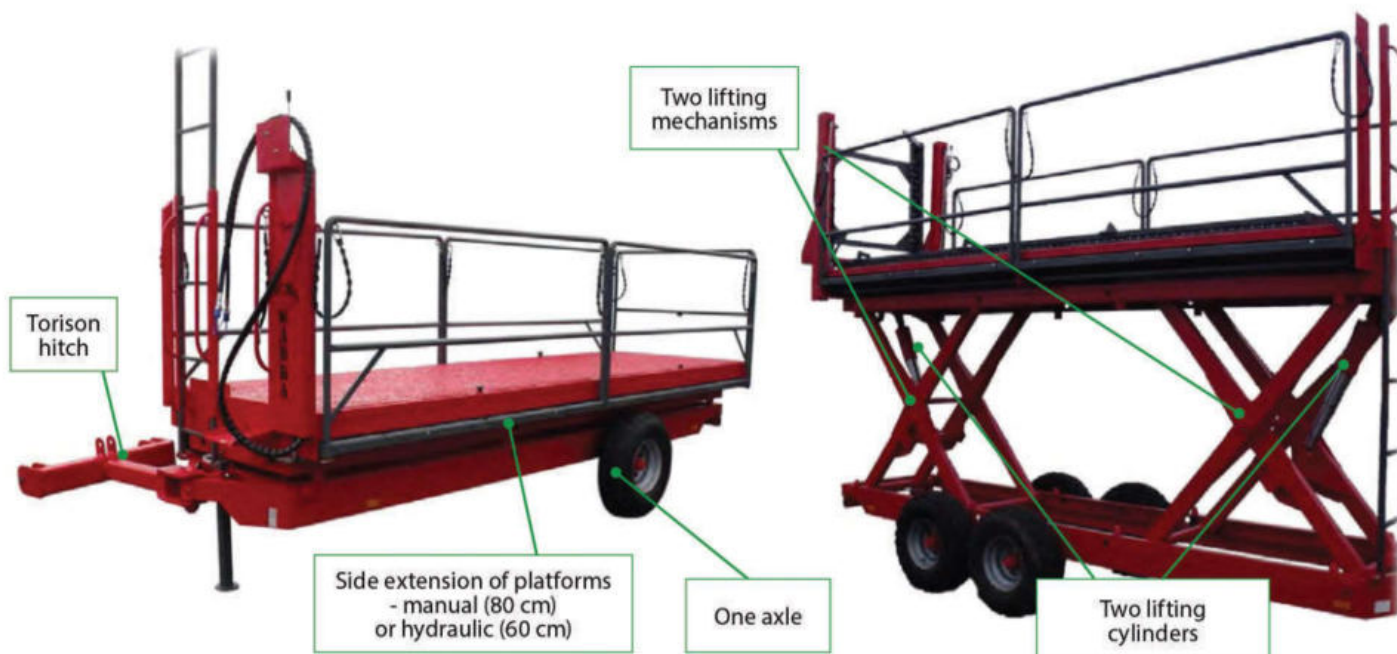
| Parameters | | PSN-260/1 | PSN-260/2 | PSN-260/4 |
|--------------------------------------|-----|----------------------------------|-----------|-----------------------|
| Type of machine | | | trailed | |
| Power source | | | tractor | |
| Method of lift the platform | | hydraulic (hydraulic of tractor) | | |
| Type of hitch | | self copy | | |
| Lift capacity | kg | 2000 | | |
| Max number of people on the platform | pcs | 6 | | |
| Number of axles | pcs | 1 | 2 | 4 torsion axle shafts |
| Weight | kg | 1650 | 1850 | 1900 |
| Overall dimensions | | | | |
| length | cm | 533 | | |
| width | cm | 140 - 270 (adjustable) | | |
| height | cm | 85 - 260 (adjustable) | | |



OPTIONAL PNEUMATIC FOR PLATFORMS

| |
|--|
| Pneumatic installation on the platform |
| Compressor Lisam Ecoline 510 |
| Compressor Lisam Ecoline 600 |
| Compressor Lisam Ecoline 980 |
| Pneumatic shears Lisam Sly |
| Pneumatic shears mounted on the extension Lisam Sly Asta |
| Pneumatic shears mounted on the extension Lisam SuperSly Asta |
| Pneumatic saw Lisam Sky-man |
| Pneumatic saw with the extension Lisam Sky |
| Pneumatic extension with handle Lisam 0,5 m |
| Pneumatic extension with handle Lisam 1,0 m |
| Pneumatic extension with telescopic handle Lisam 1,0 m - 1,5 m |
| Handle for pneumatic extension |





Additional platform options:

- hydraulic extensions of platforms + 625 €
- lift and roll + 1050 €
- rolls of box pallet gantry + 350 €



ORCHARD TRAILER

P-125/380 | P-125/420 | P-125/510

| Parameters | | P-125/380 | P-125/420 | | P-125/510 |
|------------------------------|----|-----------|-----------|------|-----------|
| Loading capacity | kg | 1500 | 1500 | 2500 | 2500 |
| Min height of loading | cm | 52 | | | |
| Weight | kg | 400 | 500 | 550 | 590 |
| The usable area of the width | cm | 125 | 125 | | 125 |
| | cm | 380 | 420 | | 510 |



Height adjustment of the hitch

Road lighting

ORCHARD BALCONY

BS-130

| Parameters | | BS-130 |
|------------------------|--------|-----------------------------|
| Type of machine | | mounted on the front loader |
| Weight | kg | 370 |
| Spacing of fixing fork | cm | 80 |
| Overall dimensions | length | 134 |
| | width | 138-282 |
| | height | 118 |

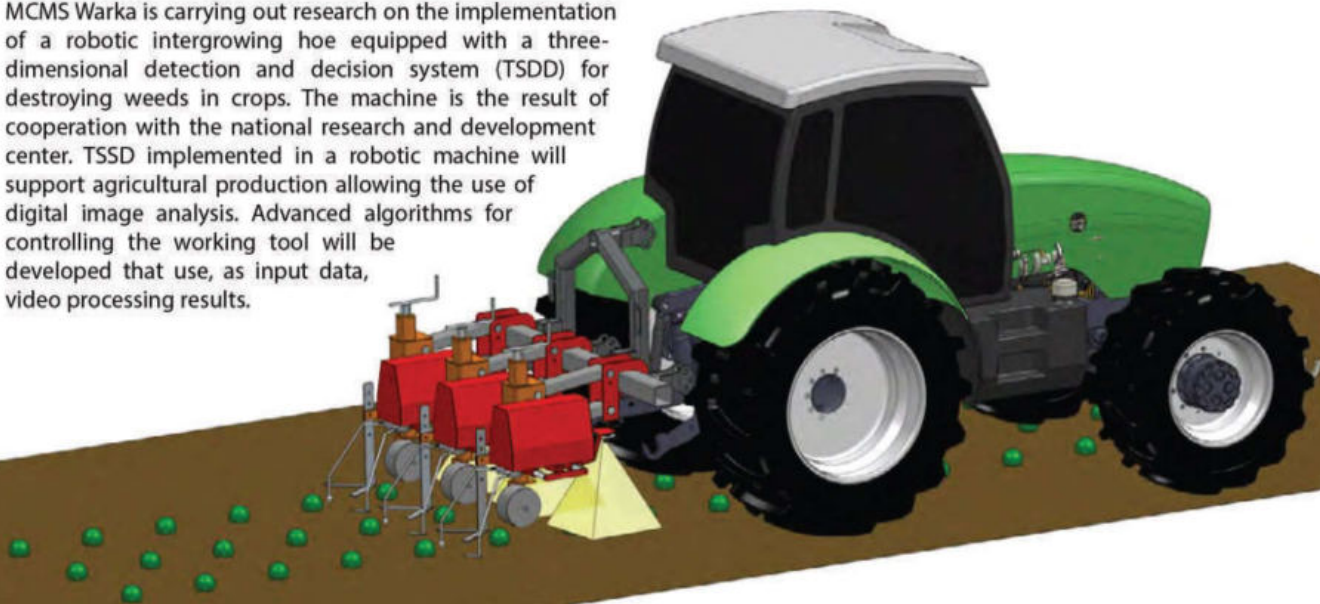


Bridging grille

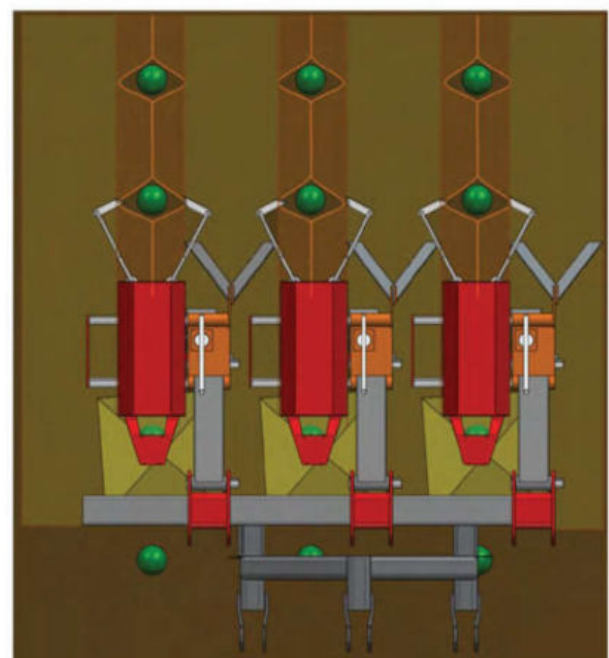
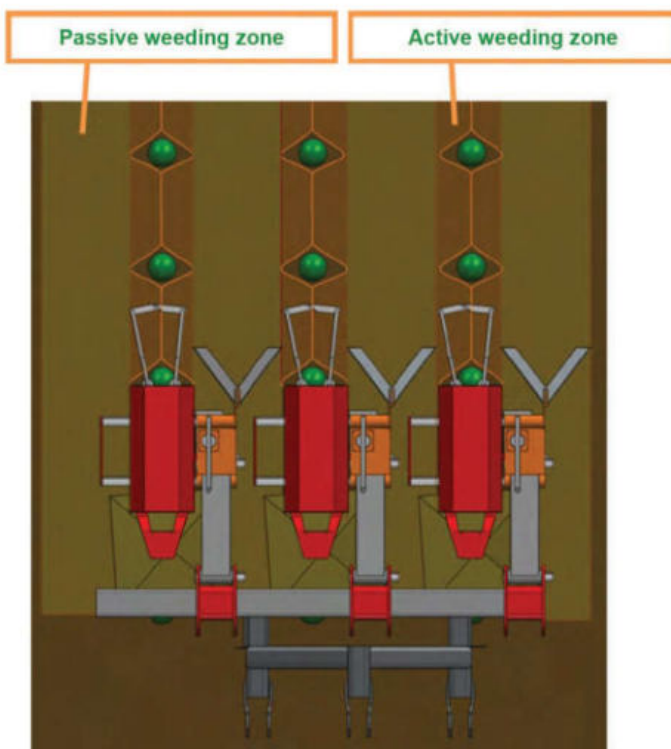
Installation of the forklift

Sliding work platforms (80cm)

MCMS Warka is carrying out research on the implementation of a robotic intercropping hoe equipped with a three-dimensional detection and decision system (TSSD) for destroying weeds in crops. The machine is the result of cooperation with the national research and development center. TSSD implemented in a robotic machine will support agricultural production allowing the use of digital image analysis. Advanced algorithms for controlling the working tool will be developed that use, as input data, video processing results.



The robotic hoe will consist of working sections in the quantity ordered by the customer. An active working element will be the cleaning claws that move into the row of plants and then back to avoid crops. The passive element will be the coulters destroying weeds in the zone in which there is no risk of damage to crop plants. The machine will be fully adjustable. A program will be set up to distinguish weeds in crops such as strawberry, cauliflower, cabbage, sugar beet, and many more. The use of sliding sections will allow the machine to work at any row spacing.



WE OFFER ALSO TRAILERS FOR HORTICULTURE AND AGRICULTURE



PT3653N
TANDEM AXLES TRAILERS



PT4103N
TANDEM AXLES TRAILERS



PT4123N
TANDEM AXLES TRAILERS



PT5123N
TANDEM AXLES TRAILERS



PJ3353S
ONE AXLE TRAILERS



PT3653N
ONE AXLE TRAILERS



PJ4453N
ONE AXLE TRAILERS



PJ4553S
ONE AXLE TRAILERS



PT7120P
TANDEM AXLES TRAILERS



PT5650S
TANDEM AXLES TRAILERS

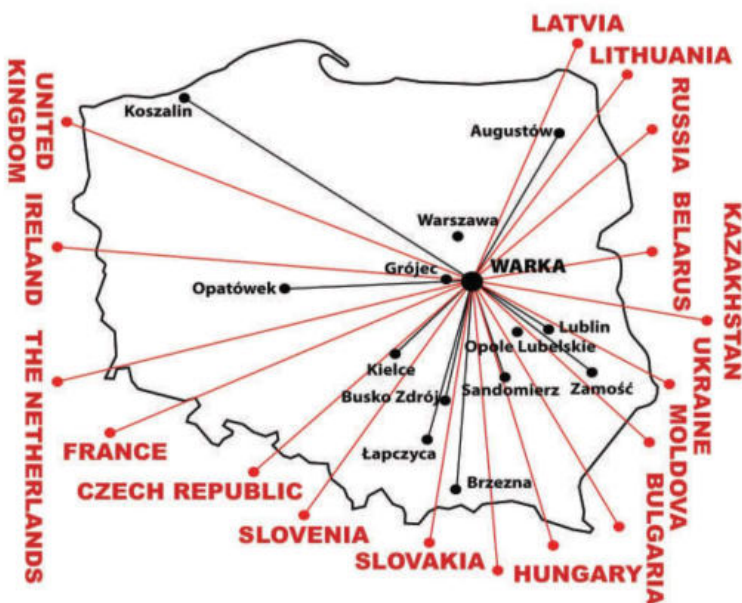


PD4753S
TWO AXLES TRAILERS



PD5722S
TWO AXLES TRAILERS

OUR DEALERS:



www.mcms.pl

ul. Gośniewska 160
05-660 Warka
tel. 48 667-43-58
tel./fax 48 667-21-66
e-mail: mcms@mcms.pl