



The future is here!

# DISCOVER VERSATILE, PRECISE AND ENVIRONMENTALLY FRIENDLY MACHINES

State-of-the-art solution to current and future challenges in the agricultural sector.



[www.mzuri-agro.eu](http://www.mzuri-agro.eu)



# PRO-TIL - WE CULTIVATE NARROW STRIPS

Mzuri Pro-Til strip-till technology provides an optimal environment for plant growth and yield. Mzuri Pro-Til technology involves only cultivating narrow strips of soil in which fertiliser and seeds are sown. The crop residues remain on the uncultivated interrows (Fig. 1). This allows water to be retained and organic matter to be protected in order to improve soil's structure, fertility and productivity. This is only possible with specially designed tillage tines and unique hoe coulters. These coulters operate exclusively in cultivated strips of soil where plant seeds are placed.



Fig. 1 Pro-Til technology plant rows and uncultivated interrows.

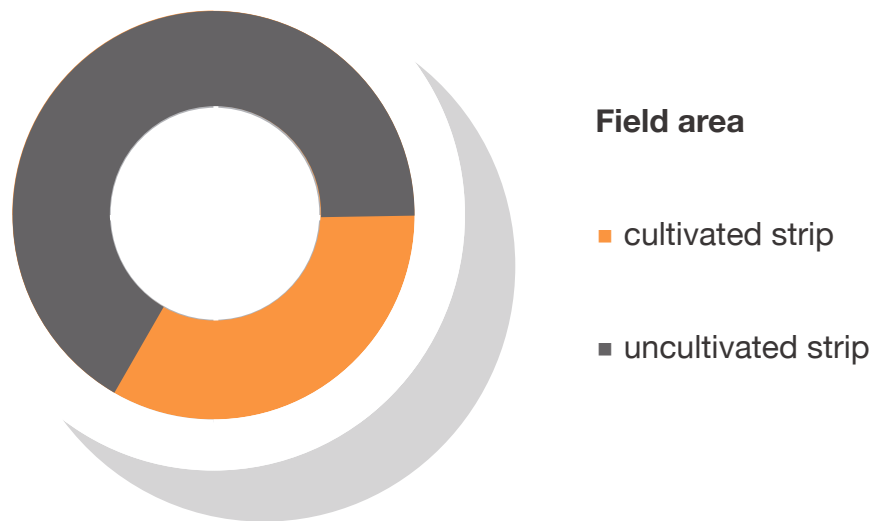
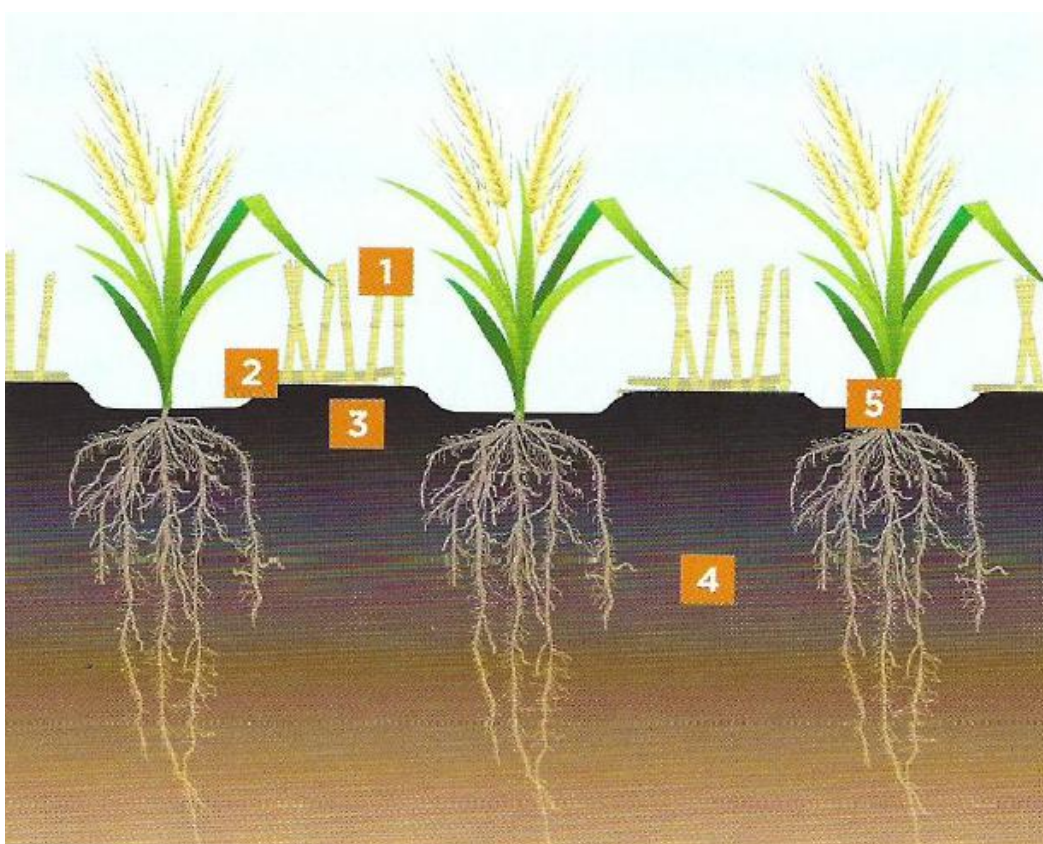


Fig. 2. Structure of the crop in the field area

With the Mzuri Pro-Til technology the soil located in interrows is not cultivated; this soil makes up about 2/3 of the field's surface area. The strips of cultivated soil occupy approximately 1/3 of the surface (Fig. 2). Therefore, Mzuri Pro-Til combines the advantages of deep tillage used for preparing soil for growth and activity of the root systems of plants with the advantages of direct sowing, resulting from mulch deposits in between rows (Fig. 3), etc.



1. stubble, 2. previous crop residue, 3. soil with capillary water, before loosening, 4. uncultivated soil rich in nutrients, oxygen and water, 5. a strip of cultivated soil, place of seed germination and growth of roots

Fig. 3 Spatial diversity within the field

The Mzuri cultivators not only allow you to cultivate strips of farmland but also to supply mineral fertilisers, sow seeds of cultivated plants, as well as to apply microgranulates, some crop protection agents or catch crop seeds in a single pass. This method of field preparation and sowing can therefore be called “single pass technology”. The operation of working elements applied subsequently results in creating soil zones with different agricultural conditions (Fig. 4).

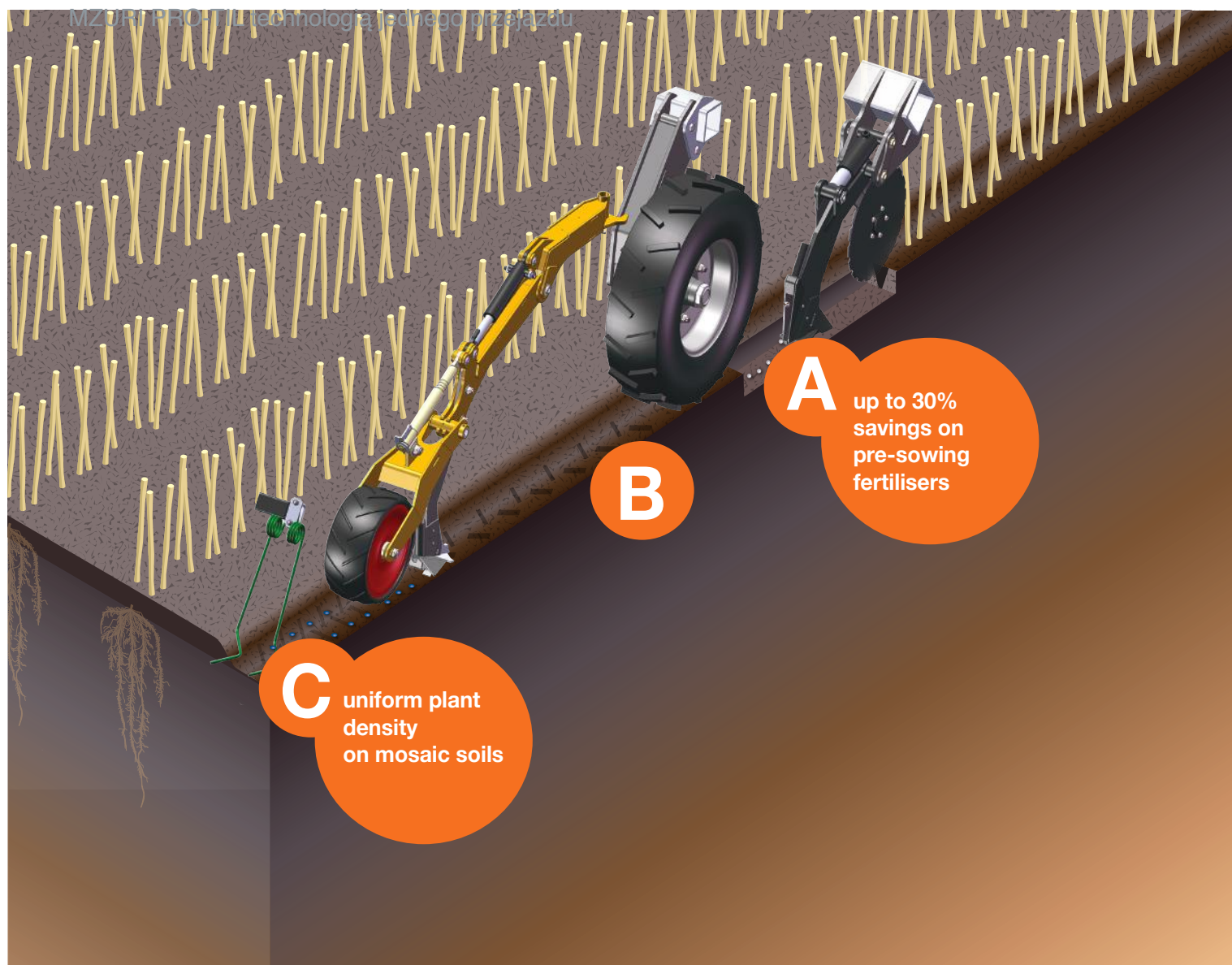


Fig. 4. Soil zones using single pass technology

### Zone A — Opening and fertilising

Toothed disc coulters cut straw and other crop residues on the soil surface. The deepening tine cultivates the soil belt, pushes away the crop residues on both sides of the cultivated belt, applies mineral fertilizer. The soil in this strip is well loosened, moist, with no plant residues on the surface. Precise placement of the fertiliser only in the cultivated soil space reduces its dose and ensures the availability of nutrients for the plants from the beginning of vegetation.

## Zone B – Compaction

A unique and important feature of the Mzuri cultivators is that the entire weight of the machine is evenly distributed over each of the cultivated strips. This ensures the re-compaction of the opened soil of the loosened soil and the elimination of air pockets, which enables precise adjustment of sowing depth and favourable conditions for the germination of seeds and development of the root system of plants.

## Zone C – Sowing

Furrow openers in each strip work completely independently of the soil loosening elements. This ensures easy adjustment of the furrow openers, excellent ground following and constant control of the sowing depth. Each furrow opener has a hydraulic system that properly presses the ground following and pressing roller to adjust the sowing depth. This ensures precise seed placement and excellent water and air conditions at the point of contact with the soil. The seeds germinate quickly and evenly.

## 2 > MZURI PRO-TIL, ALWAYS AND EVERYWHERE

### A UNIVERSAL TOOL

Mzuri cultivators are universal machines, which allow you to sow all crops, rape, legumes, corn, soya, sunflower, flax, poppy, hemp and others. The sowing of different plant species can be carried out with a single cultivator, which can be easily configured with appropriate sections for spot sowing.





2 > MZURI PRO-TIL, ALWAYS AND EVERYWHERE

## PROVEN IN ALL CONDITIONS

Every MZURI machine, before it gets onto farm fields, undergoes tests under different conditions, including different soil and climate conditions. Mzuri cultivators have been tested on almost all soil types and in **countries with different climates.**



### TOP QUALITY GUARANTEED BY ISO 9001

Our aim is to meet the needs of modern agriculture and to search for practical solutions. To meet these challenges and supply the highest quality machines to farms, our manufacturing process is based on the ISO 9001 quality management system.



### 3 > MZURI PRO-TIL IS A BENEFIT FOR YOU AND FOR THE ENVIRONMENT



#### SAVINGS AND PROFIT

**Time is money!** As little as 10-15 minutes is enough to cultivate, fertilise and sow 1 hectare of soil in one pass of Mzuri, without having to do anything after pre-harvesting the crop. Thanks to such a short working time, you can avoid the accumulation of agricultural tasks and reduce costs.

**SAVED WORKING TIME — 10 TIMES FASTER THAN TRADITIONAL METHODS!**



#### FUEL IS A VALUABLE ASSET!

This method involves cultivating narrow strips of soil (1/3 of the field width at the most) and the low resistance of soil strips during deep loosening, plus short working times result in low fuel consumption. If you want to grow, feed, sow, and use no more than 10-15 l/ha of fuel, use only Mzuri cultivators.

**FUEL CONSUMPTION UP TO 5 TIMES LOWER THAN PLOUGHING!**



#### MORE IS LESS!

The design of the loosening tines and furrow openers enables the use of basic mineral fertilisers and micro granular fertilisers in one pass. The pre-sowing fertiliser, usually an NPK, goes only into the loosened soil pockets where the roots of the plants will grow. The second fertiliser, a microgranulate, is administered around the sown seeds, so that the plants have access to macro- and microelements as early as the stage of germination. On rich soils, the dosage of fertilisers can be reduced by up to 30-50%.

**THE DOSE IS TWICE AS LOW AND THE EFFECT TWICE AS HIGH**



#### LESS IS MORE!

Mzuri Pro-Til technology: using this technology, you can meet sowing dates by applying precisely the right amount of seeds in a non-dried and well-aerated soil; and by applying the correct quantity of nutritional ingredients, it is possible to reduce the sowing density, ensuring good sprouting and full plant density.

Thin sowing does not necessarily mean low plant density, the secret lies in the favourable germination conditions of sprouting seeds and plants.

**SAVE SEEDS, DON'T WORRY ABOUT PLANT DENSITY!**



#### YIELDING A GOOD CROP AND GIVING A HIGH YIELD

Timely, full and even sprouting, a cornfield of well-fed plants and wider row spacing limits the development of pathogens. Also, it provides good plant lighting in the rows and helps soil to retain water — these are the advantages of Mzuri Pro-Til technology which guarantees high yields and the best quality crops. The stubble and small furrows left on the soil surface in which the plants grow are conducive to their better winter-hardiness.

**HIGH YIELDS, HIGH QUALITY!**



#### MZURI MEANS PROFIT!

MZURI Pro-Til means savings on: fuel, labour, fertiliser, machines and maintenance costs. With efficient use of fertilisers and soil resources, and, consequently, high yields of good quality, guarantee easy sales of agricultural products and high income. Low costs and high income must equal profit.

**SAVE, PRODUCE, PROFIT!**



### 3 > MZURI PRO-TIL IS A BENEFIT FOR YOU AND FOR THE ENVIRONMENT

## BENEFICIAL CHANGES IN THE ENVIRONMENT

If Mzuri Pro-Til technology is applied regularly, it launches a cycle of beneficial changes in soil properties.

**Organic matter:** The plant material is left on the soil surface or in the topsoil after harvesting. This activates microbiological transformations of the material which lead to an increase in the content of organic carbon and, consequently, an increase in quantity of humus. Presence of humus in soil is truly beneficial. It enables the formation of a permanent blocky structure, optimum water and air conditions, and it absorbs water like a “hydrogel”. Acting as a part of a sorption complex, it retains nutrients, increases their biological efficiency, reduces losses and reduces water and air pollution at the same time. Organic matter is a food for microorganisms and earthworms.



**Mzuri = organic matter  
Essence of soil fertility!**

**Earthworms:** Large amount of plant residues and the minimal impact on the soil, the loosening of narrow strips without inverting soil and intensive mixing encourage the presence of earthworms. They create vertical and horizontal corridors, make large non-capillary spaces to drain excess water and aerate the soil. Earthworms also introduce plant residues found on the surface into the soil, pass them through their organisms, release mucus, have a structure-forming effect, and form capillary pores to retain water. Preliminary decomposition of organic material by earthworms and their secretions stimulates the development and activity of soil microorganisms.



**Plant residues are food for earthworms.  
Earthworms develop soil!**

**Biodiversity:** Mzuri Pro-Til technology leads to simple but key relationships: a Mzuri aggregate - organic matter - permanent blocky structure - limiting water losses - sufficient air supply - variety of microorganisms (bacteria, fungi, protozoa) - earthworms - high activity of organisms - limited presence of pathogens - possibility to reduce the use of plant protection products



**More microorganisms,  
fewer “chemical ingredients”**



**Water:** No soil inversion, loosening limited to max. 1/3 of the field surface and mulching or very shallow loosening after pre-harvest of the crop reduce water evaporation. Mulch, humus, permanent blocky structure and the activity of large numbers of earthworms reduce surface runoff and erosion. They actually increase water retention, i.e. keep water and at the same time they are responsible for draining excess water deeper into the soil to allow air to enter in its place.



**The technology ensures favourable air-water conditions!**

**Blocky structure:** Blocky structure of soil is an indirect effect of the increase in organic matter content, including humus and earthworm activity. Permanent soil structure is a guarantee of the following: optimum water-air ratio, favourable conditions for the growth of plant roots, active microbiological life, balance of decomposition and synthesis transformations, nutrient circulation, lack of crust and over-compacted layers of soil, limited water and wind erosion.



**MZURI means a blocky structure of soil**

**Greenhouse gases:** A single pass of a machine using Mzuri Pro-Til technology reduces fuel consumption by over 50 l/ha and emits about 2.5 kg CO<sub>2</sub> per litre of diesel fuel used. If only 10% of the sown area in Poland was covered by this technology, the annual emissions of carbon dioxide into the atmosphere would be reduced by over 100 thousand tons.



**When you're using Mzuri, you're protecting the environment!**

**Soil productivity:** The favourable physical, chemical and biological properties of the soil resulting from the use of proper Mzuri tools and Pro-Til technology ensure that the plants growing in rows with wide spacing are healthy and strong. Even in a densely spaced fields, the sun's rays reach the large leaf blades. The deep, well-developed root system draws nutrients from the rich and moist soil. Under these conditions, assimilation is active and the yield is likely to be high.



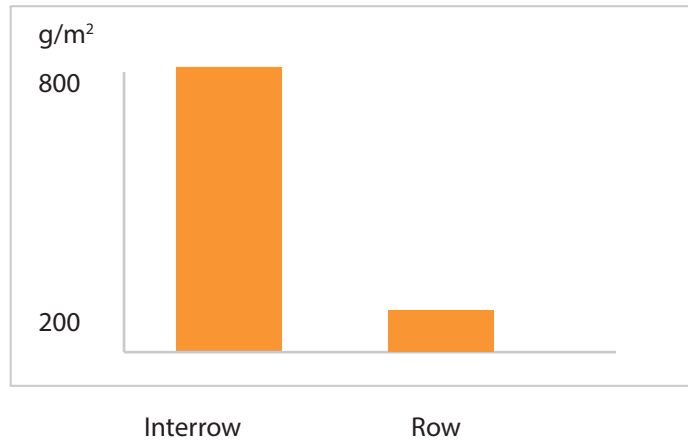
**Mzuri Pro-Til technology is a chance to be on the cutting edge!**

# THE RESULTS OF RESEARCH ALSO SPEAK FOR THEMSELVES

Mzuri Pro-Til is a strip cultivation technology. After a cultivator passes through the field, it leaves loose soil strips and leaves interrows without loosening them. Both zones have their own favourable properties for plant growth and yield.

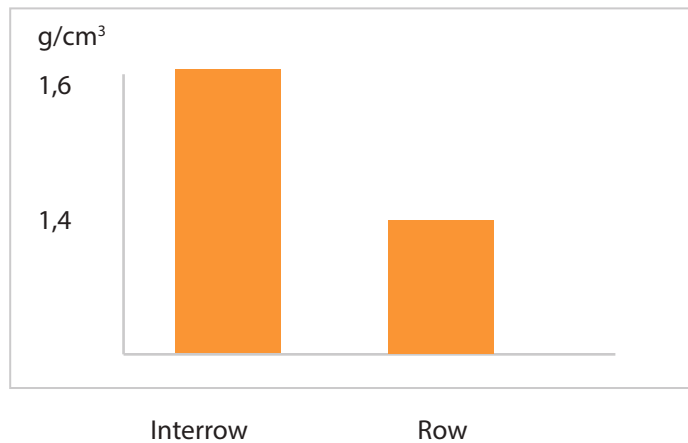
- The soil in rows is...
  - ... free of plant residues, which facilitates precise sowing and plant growth.

Fig. 1. Quantity of plant residues in the row and in interrows



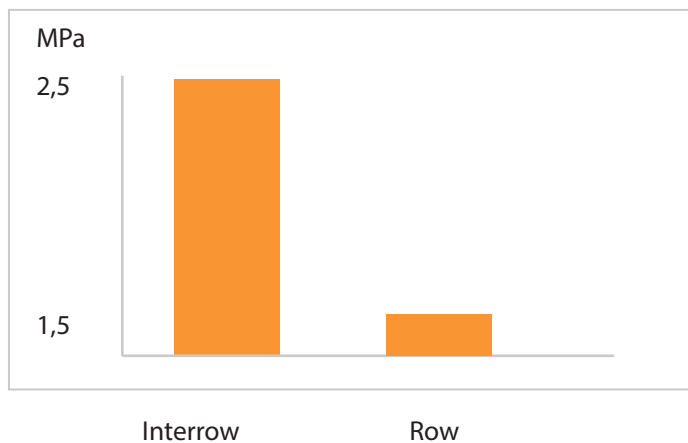
- ...has a low density

Fig. 2. Volumetric soil density in a row and in an interrow



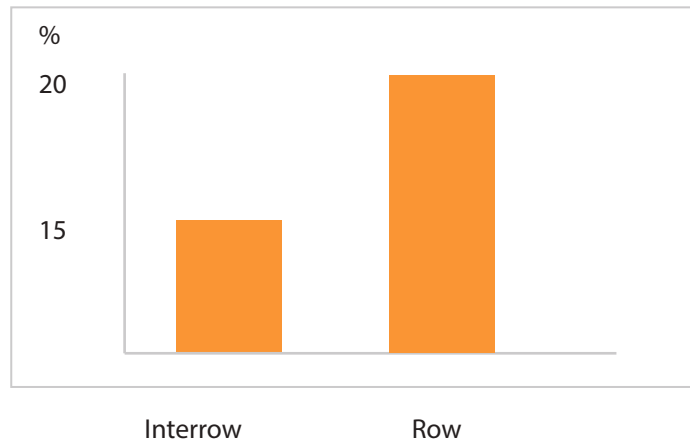
- ...and has little resistance to the growth of plant roots

Fig. 3. Soil penetration resistance in a row and in an interrow



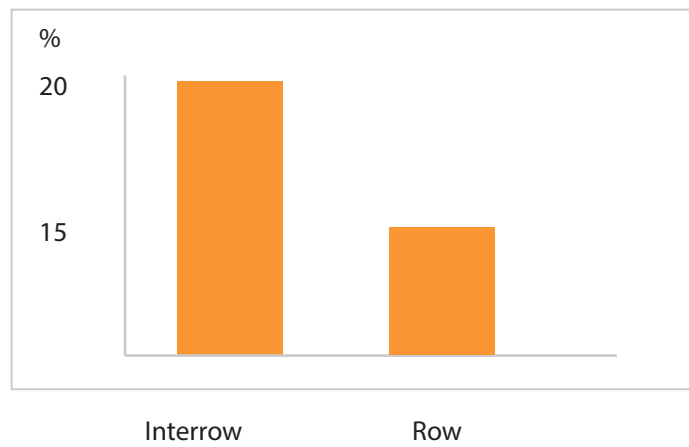
...quickly absorbs water after rainfall

Fig. 4. Soil moisture content in a row and in an interrow immediately following heavy rainfall



...but quickly drains away the excess

Fig. 5. Soil moisture content 4 days after rainfall



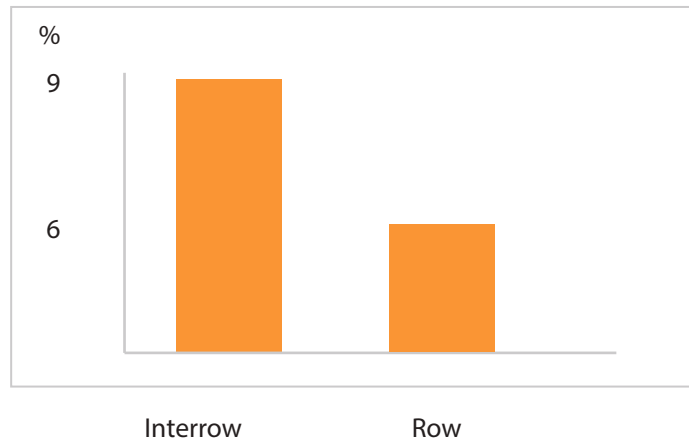
**In an interrow, the soil...**  
... is protected by plant residues



Fig. 6: Plant residues (mulch) in interrows

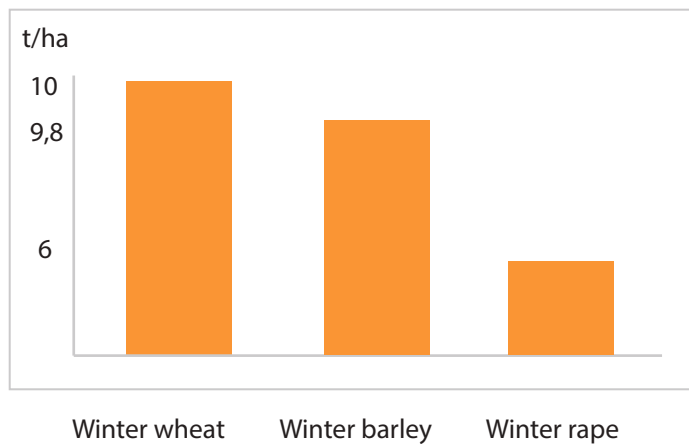
...retains water in rain-free periods.

Fig. 7. Soil moisture after a long rain-free period



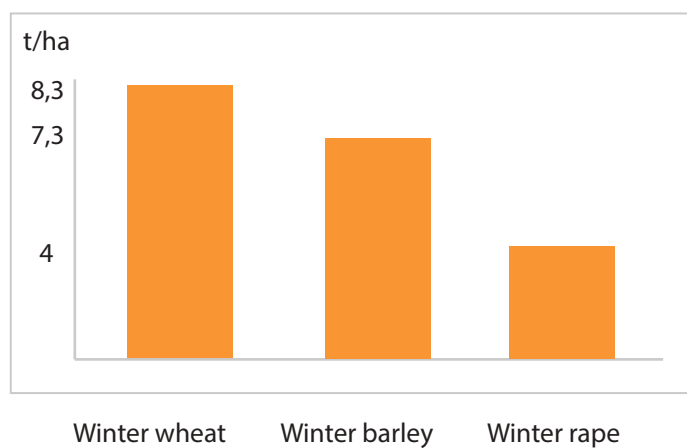
Thus, Mzuri Pro-Till technology is a guarantee of..  
...the yield of the crop

Fig. 8. Winter plant yields in favourable agricultural and habitat conditions



...crop fidelity in unfavourable habitat conditions

Fig. 9. Average long-term yields of winter plants in unfavourable habitat conditions (varied soil, dry periods, frost)



# MZURI PRO-TIL A MACHINE FOR SPECIAL TASKS

**Mzuri Pro-Til** is designed as a cultivator that allows for cultivation of narrow strips of soil, application of fertilisers over the entire surface of the cultivated strip and sowing seeds to the controlled depth in one pass of the machine. The tines and compaction discs are arranged alternately in two rows, providing a lot of space for residues to “flow” between them. The tines and seed coulters are integrated into independent hydraulic systems which ensure the application of even pressure at each section. This enables a precise working depth.

**A seeding unit** consists of electric motors with adjustable speed seed sowing rollers. The selection of seed rollers enables sowing of different types of seeds. Calibration of the unit is simple and accurate, just press the electric button, then weigh the seeds collected in the container and enter the quantity on the control panel.

An RDS Artemis computer unit provides seed rate control during operation as well as all control and monitoring functions for fertilisation and sowing.

## **Double frame**

MZURI-PRO TIL cultivators’ design are distinguished by their double frame.

The first frame keeps sections cultivating the soil with the possibility of spreading fertiliser, i.e. tines with fertiliser are secured hydraulically with the possibility of adjusting the pressure of force. The second frame has a plant seeding section. The arms with sowing coulters feature free swivelling to the sides. This enables seeding precisely in the strips of soil being cultivated. An additional advantage of this solution is the protection of the arms against impact damage. Similar to the cultivating section, each seeding arm is hydraulically secured and enables pressure adjustment.

Thanks to the double frame design, both sections work at independently adjustable depths.

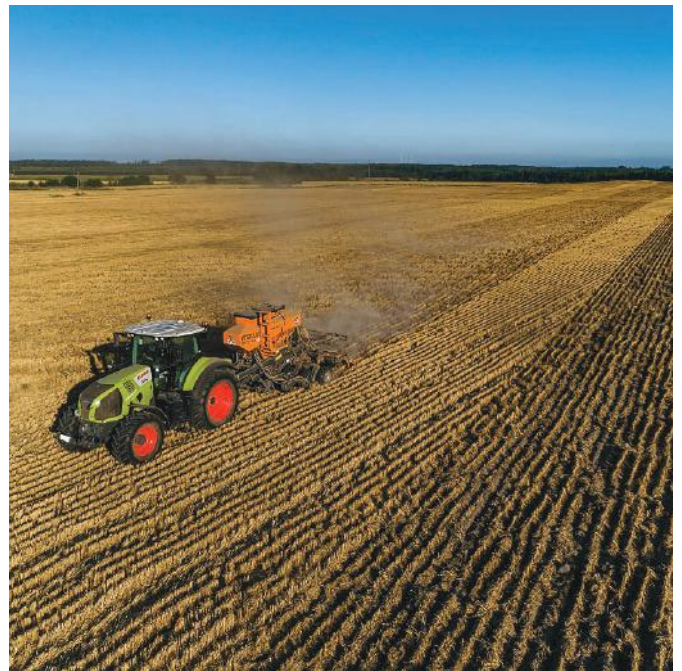
## **The most important features of MZURI Pro-Til:**

- hydraulically protected tines
- variable sowing rate
- single- and double-row seeding coulters
- hydraulically driven fan
- seed flow sensor
- hydraulic drive marker
- hydraulically controlled following harrow
- semi-pneumatic dispenser
- RDS Artemis management computer
- independent swivelling arms with sowing coulters, with hydraulic protection, in combination with adjustable pressure disc.



- 1** Optional front discs for cutting through residues left on the surface.
- 2** Hydraulically secured tines loosen a narrow strip of soil and clean the seedbed from crop residues and ensure good root development.
- 3** Placing the fertiliser in a loosened strip in the immediate vicinity of the sown seeds reduces the required starting dose and provides immediate access to nutrients.
- 4** Consolidating wheels arranged in 2 rows, reconsolidate the soil in the cultivated strip and prepare the seedbed.
- 5** The hydraulic pressure of each individual seeding section guarantees the safe and accurate following of the ground contours.
- 6** Individual depth adjustment and pressure for each sowing coulter's wheel.
- 7** Skimming harrow.

SPECIFICATION	PRO-TiL3	PRO-TiL3T	PRO-TiL4T	PRO-TiL5T
Working width (m)	3 m	3 m	4 m	6 m
Transport width (m)	2,95 m	2,95 m	2,8 m	2,95 m
Tank volume (l)	1500 l	3600 l	3600 l	4500 l
Split tank (60% seeds : 40% fertiliser)	---	40/60	40/60	40/60
Row spacing (cm)	33,3 cm	33,3 cm	36,3 cm	35 cm
Number of rows	9	9	11	17
Power requirement, min. (HP)	150 KM	150 KM	200 KM	300 KM
Working speed (km/h)	6 to 15	6 to 15	6 to 15	6 to 15
Suspension type	Suspended	Trailed	Trailed	Trailed





## EVERY MZURI PRO-TIL SEEDER CAN BE EQUIPPED WITH THE FOLLOWING ADDITIONAL OPTIONS:



### Discs with hydraulically adjustable working depth.

Each of the MZURI PRO TIL cultivators can be retrofitted with a set of cutting discs for crop residues of the pre-crop harvest. This enables machine operation without the risk of blockage on cultivating tines and sowing coulters with seeding tines. The depth of the working level can be adjusted directly from the tractor's cab. Each disc comes as standard with spring protection and adjustable pressure force. These elements are equipped with a torsional system protecting the discs from damage along curves.



### Reinforced wheels

A drive wheel set for Mzuri Pro-Til cultivators may include reinforced tyres and rims with an additional welded rim for increased impact resistance, e.g. to stones. Choosing to purchase reinforced wheels will dramatically increase the service life and eliminate potential downtime.





## Additional fertiliser and seed tank

MZURI cultivators can also be equipped with a single 300l or double spreader 2 x 300 for fertiliser and seed, e.g. for the sowing of intercrops. The double spreader used in the machines enables the simultaneous sowing of two different products in different doses. The setting of the spreader dispensers allows to introduce the sown material both into the soil, in the vicinity of the seeds and on its surface

## Central lubrication system

The central lubrication system has been introduced into MZURI machines in order to extend their service life and to shorten the time used in preparing the machine for operation as much as possible. MZURI machines have been adapted to work in the most harsh soil conditions with loads on working elements, which exposes them to wear.

To ensure efficient machine operation, the machines must be lubricated regularly

**The central lubrication system helps with that; the system includes the following elements:**

- electric, programmable piston pump with grease reservoir,
- a set of distributors, precisely providing the grease for each bolt individually,
- a set of flexible supply hoses,
- a tube to fill the tank with grease.





## ONE MACHINE FOR EVERYTHING

**SELECT series machines** are prepared both for seeding cereals, rape and also for seeding crops grown in widely spaced rows, e.g. maize, sunflower, etc. MZURI Pro-Til SELECT, like Pro-Til, it allows you to cultivate narrow strips of soil, apply fertiliser and seeds all in a single pass.

The Mzuri Pro-Til SELECT model has an option for quick changes of row spacing and interrow width by means of a single button. This allows the user to enable or disable every second section. The SELECT option allows seeding in narrowly spaced rows (33.3; 36.3; 35 cm) and wide spaced rows (66.6; 72.6; 70 cm), e.g. maize, rape or sunflower. The wide row spacing allows the plants very good access of sunlight, reduces competition between them in adjacent rows, makes fields more airy and eliminates the problem of the accumulation of plant debris between the working parts of the cultivator. Including all sections, the row spacing is prepared for sowing cereals, legumes, and others.

**The SELECT** option allows you to control all the functions and settings of the machine from a terminal using an intuitive and easy-to-use RDS ARTEMIS computer.

The ability to quickly change the row spacing and the option to reset a section for precise seeding of plants grown in widely spaced rows makes it both easy to use and universal. MZURI Pro-Til SELECT machines are good for all types of crops and soils.

### The most important features of Mzuri Pro-Til SELECT:

- quick and easy changing of row spacing
- tines and seed coulters are hydraulically protected
- variable seeding rate
- single- and double-row seeding coulters
- touch control computer with new RDS Artemis software
- hydraulically driven fan
- control of seed flow
- hydraulic drive marker
- hydraulically controlled following harrow
- semi-pneumatic seed dispenser
- independent swing arms on seeding coulters with adjustable pressure wheel (narrow and wide)

Specification	PRO-TiL3 SELECT	PRO-TiL3T SELECT	PRO-TiL4T SELECT	PRO-TiL6T SELECT
Working width (m)	3 m	3 m	4 m	6 m
Transport width (m)	2,95 m	2,95 m	2,8 m	2,95 m
Tank volume (l)	1500 l	3600 l	3600 l	4500 l
Split tank (60% seeds : 40% fertiliser)	---	40/60	40/60	40/60
Row spacing (cm)	33,3/66,6 cm	33,3/66,6 cm	36,3/72,6 cm	35/70 cm
Number of rows	9/5	9/5	11/6	17/9
Power requirement, min. (HP)	150 KM	150 KM	220 KM	300 KM
Working speed (km/h)	6 to 15	6 to 15	6 to 15	6 to 15
Suspension type	suspended	trailed	trailed	trailed
Fan drive	hydraulic	hydraulic	hydraulic	hydraulic
Seed flow control	+	+	+	+



# PRO-TIL XZACT



**MZURI PRO-TIL XZACT** this is an innovative cultivating and seeding machine for precise spot sowing of corn, soya, rape and sunflower. The XZACT system is equipped with an electronic seeding unit which enables precise seeding of single seeds. The system has a mechanism of seed dosing with vacuum adjustment, which allows their precise distribution, regardless of size.

Each seeding section is equipped with a dosing disc and a separating device to prevent the omission or duplication of seeds. An independent electric motor drive allows the operator to maintain identical seed spacing even when working at variable speeds. In contrast to conventional tanks in precision seeders, the mini tanks on the coulter arms of the Pro-Til XZACT mini machines are automatically filled with seed by means of a hopper mechanism installed in each metering section. The seeds are supplied from the main tank of the MZURI cultivator which increases the time of continuous operation and reduces downtime.

The arm of the seeding unit hoe coulter moves in two planes: vertical and horizontal, which enable working in the upper layer of the soil strip and the precise placement of the seeds in the cultivated strip. The Pro-Til XZACT cultivator is also equipped with special wheels for compaction and reconsolidation of compact soils. This eliminates the formation of strongly aerated zones in the soil, which ensures uniform seed emergence and reduces drying of soil.

Depending on the type of plant being sown, exchangeable spreading discs are available.



Specification	PRO-TIL 3T Xzact	PRO-TIL 4T Xzact	PRO-TIL 6T Xzact
Working width (m)	3 m	4 m	6 m
Transport width (m)	2,95 m	2,8 m	2,95 m
Tank volume (l)	3600 l	3600 l	4500 l
Row spacing (cm)	33,3 cm / 66,6 cm	36,3 cm / 72,6 cm	35 cm / 70 cm
Number of rows	9 or 5	11 or 6	17 or 8
Point dosing units XZACT	5	6	8
Power requirement, min. (HP)	150 KM	200 KM	300 KM
Working speed (km/h)	6-15 km/h	6-15 km/h	6-15 km/h
Fan drive	hydraulic	hydraulic	hydraulic
Seed flow control	standard	standard	standard
Type	trailed	trailed	trailed



# REZULT – IS A RELIABLE SOIL MAINTENANCE MACHINE.

The **REZULT** is a soil maintenance machine which facilitates straw and post-harvest debris management by distributing it evenly on the field and also improves decomposition. This facilitates the preparation of the seed bed. It is also an ideal tool for managing weeds and slug activity.

## RELIABLE FRONT DISCS

The REZULT features a five-row, spring-loaded tine harrow, with the option to fit a set of front discs. The discs chop straw and post-harvest debris and mix it with the surface tilth, which allows the tines to spread the mix over the entire surface, preparing it for sowing. The front discs not only cut and chop up crop residues, but also perfectly mix fertilisers and crop protection agents with the soil.

## UNBREAKABLE HEAVY-DUTY TINES

The REZULT tines are 70 cm (28 inches) long, virtually indestructible tines. They are stiffer than regular harrow tines and offer high frequency vibrations to enhance the shatter and fragmentation action affecting crop residues on top of the soil.

### REZULT'S key features:

- independent, spring installed front discs;
- hydraulically adjustable rake angle,
- hydraulic folding action with automatic locking for safe transport,
- spring tines — virtually indestructible,
- five rows of tines for high working efficiency.

### REZULT needs only 2 litres of fuel per hectare; it enables you to:

- stop the evaporation of water from the soil after harvesting;
- level the field surface,
- stimulate weed seeds and self-sowing seeds to germinate,
- eradicate weeds and self-sowing plants,
- limit the activity of snails, voles, mice and other pests,
- accelerate the decomposition of crop residues,
- mix mineral, calcium and organic fertilisers (solid and liquid) with the soil,
- spread crop residues evenly on the field, especially the poorly shredded residues and straw scattered during harvest,
- perfectly prepare the fields for sowing,
- sow intercrop plants.

# REZULT



## Rezult Smart

This small machine will impress you with its multifunctionality. It is an ideal tool for soil care. It facilitates the handling of straw and crop residues, perfectly mixes organic fertilisers or plant protection products with soil, reduces weed infestation and snail and slug activity, and prepares the seedbed and the field for sowing. The machine has low power requirements and a single-circuit hydraulic system. Therefore, it can be aggregated with low-power and older generation tractors. Due to its compact dimensions, this machine is ideal for smaller and irregularly shaped fields. The Rezult Smart has five rows of spring tines and a set of front discs that cut straw and crop residues perfectly, shredding them and distributing them evenly over the entire field surface. These tines are made of wear-resistant steel, which makes them practically indestructible.

Specification	REZULT	REZULT SMART
Working width (m)	7,5	3
Transport width (m)	2,8	3
Transport lock	+	-
Road lighting	+	+
Hydraulic system	dual circuit	single circuit
Tine spacing (mm)	60	86
Disc spacing (mm)	310	400
Working speed (km/h)	10-20	10-20
Power requirement, min. (HP)	120-200	from 48





## REHAB – a modern subsoiler characterised by little intervention into the soil surface

**Rehab** is a specially designed subsoiler with minimal interference in the topsoil. It increases the amount of available oxygen and nutrients in the deeper layers, stimulates root development and improves the condition of plants. Narrow working tines with wings in the lower part of the tines ensure the loosening of the soil, especially in the lower layers of soil. In combination with the operation front drives, this ensures minimum surface layer interference. The remaining plant residues protect the water and reduce erosion. And deep soil loosening results in: quick water penetration, good rooting and strength of plants, oxygenation and increased activity of microorganisms. The well aerated soil heats up quickly in spring, allowing early sowing and reducing later water losses.

**The REHAB** subsoiler is available with an optional seed unit — ideal for sowing rape and deep-rooting crops, as well as cover crops and catch crops. The coulters provide precise sowing depth in a loose but moist seed bed. This creates ideal soil conditions for seed germination, emergence and plant growth.

Deep loosening of the soil promotes the rooting of plants. Row spacing of 600 mm and wide interrows promote access to light, ventilation, and ventilate the crop. The plants are healthy and grow quickly. The seeder can be easily mounted and removed in just a few minutes by removing the 3 pins.



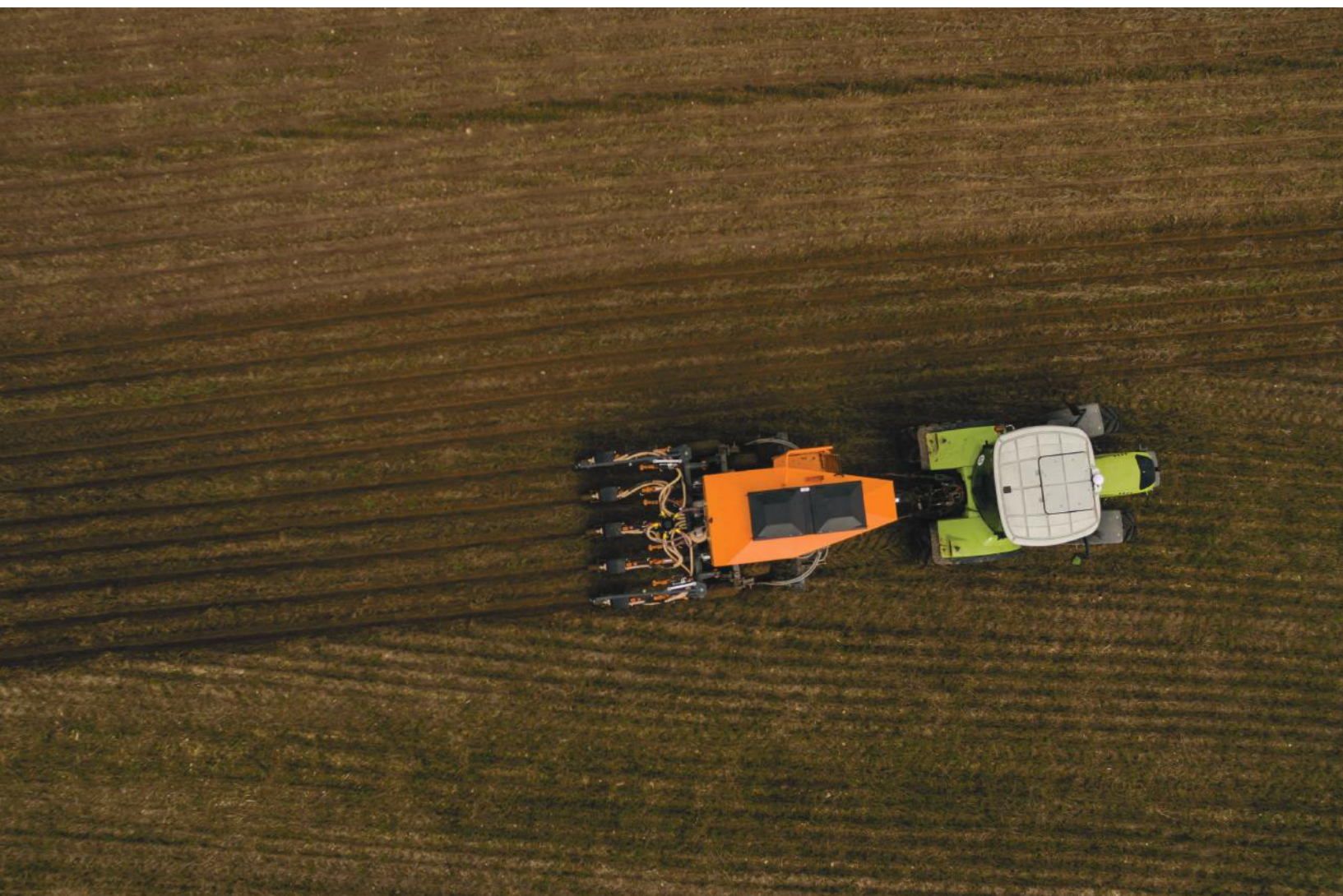
SPECIFICATION	REHAB
Working width (m)	3 m
Number of rows	5
Distance between rows (mm)	600 mm
Working depth (mm)	200 - 400 mm
Working speed (km/h)	6-10 km/h
Power requirement, min. (HP)	150-300 KM



**1. Front cutting discs** installed on arms, with controlled pressure allow you to cut the residue left on the soil surface. Each disc arm has a hydraulic safety device that allows for good following of the terrain.

**2. The subsoiler** sections feature hydraulic protection and have 2-part working elements: chisel-tines and replaceable wing (different wing options are available).

The consolidating and thickening section with hydraulic adjustment consists of tyre wheels. It closes the gap behind the deepening section and leaves the compacted soil without risk of drying out.





# mzuri

The future is here!



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