

**BEDNAR**



## WORKING TOOLS FOR TRACTORS WITH HORSEPOWER OVER 500

Professional technology for professionals

**JOY**  
OF FARMING



**BEDNAR** has been involved in the design and production of wide machines from the very beginning of its existence over 20 years ago. Our experience with these types of machines for the largest pulling vehicles in the world is one of the richest in the field of agricultural technology.

It all started when Ladislav Bednár brought the first high-efficiency tractor from the U.S. 23 years ago and we built the first 17-metre-wide SWIFTER prototype to be attached to it.

Over 20 years, **BEDNAR** has completed its portfolio of high-efficiency machines for soil cultivation and is the leading supplier of such technology for the most dynamic farms all over the world.

## Larger machines for better productivity

The interest in large and medium-size companies in highly efficient machines is increasing. The reasons for acquiring such efficient technology are obvious. You can maximise the use of tractors, optimise labour and achieve enormous daily outputs at the right agricultural time.

**BEDNAR** machines provide excellent work results.

The transport width of all machines is 3 metres, the transport height is up to 4 metres.



## Reasons for purchasing efficient technology

### Tractor utilisation

- Maximisation of the tractor pulling force potential
- Large tractors are designed for high daily soil cultivation outputs
- Optimisation of costs of fuel and machine acquisition

### Daily output

- Maximisation (speed, width)
- Minimisation of delays

### Operation and maintenance

- easy to set
- easy to maintain
- maintenance-free bearings
- fast replacement of the working parts
- load sensing
- electro-hydraulic machine control

### Service and spare parts

- immediate availability
- a wide range of spare parts in stock

### Agricultural deadlines

- short time for crop establishment
- erratic weather
- sustainability of farming

### Yields

- new technologies such as CTF (controlled traffic farming)
- suitable technological lines
- observance of proper agricultural deadlines
- quality, reliable and verified machines with quality results

# List of efficient technology for tractors with horsepower over 500

## **STRAW HARROWS**

STRIEGEL-PRO PE 12000

## **DISC CULTIVATORS**

SWIFTERDISC XE 12400  
SWIFTERDISC XE 12400 PROFI  
ATLAS AE 10000 PROFI  
ATLAS AE 12400 PROFI

## **DISC-CHISEL MACHINES**

TERRALAND DO 5000  
TERRALAND DO 6500

## **CHISEL PLOUGHS**

TERRALAND TO 5000  
TERRALAND TO 6000

## **SEEDBED CULTIVATORS**

SWIFTER SE 12000  
SWIFTER SM 14000  
SWIFTER SM 16000  
SWIFTER SM 18000





## BEDNAR Straw harrow STRIEGEL-PRO PE 12000

The STRIEGEL-PRO PE series is a 6-row straw harrow equipped with two independently hydraulically controlled working sections of tines.

The first section includes four rows of tines that disrupt the top soil layer at 2–4cm. The second section includes two rows of tines for final surface treatment.

In addition, the machine may be equipped with cutting coulters for summer management of crop residue in the stubble-field.

For the spring preparation, the machine may be equipped with a front hydraulically controlled leveller – Crushbar for top soil levelling. The paddles of the levelling bar can be mounted on the coulter tines and vice versa.

## Why STRIEGEL-PRO?

### TECHNICAL ADVANTAGES

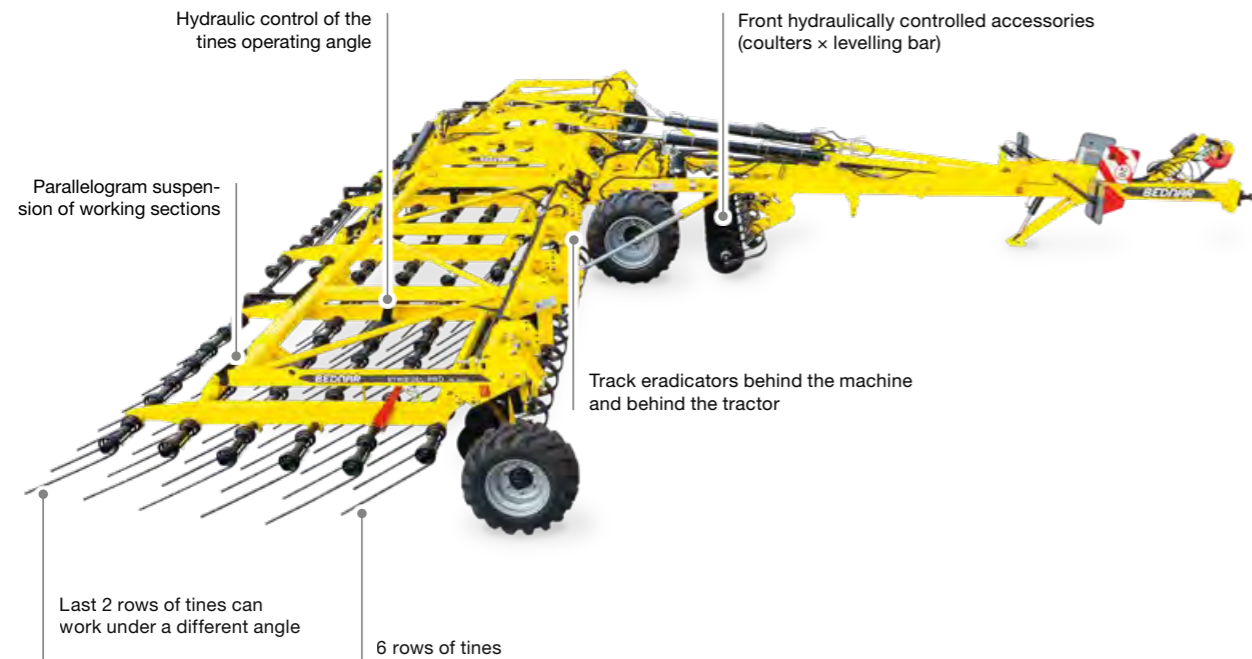
- Cutting coulters for disrupting stems and stubble residues, Trash Cutter rollers or hydraulic crush bar leveller for spring preparation.
- 6 rows of tines with large overlap guarantee a good distribution of material (Model PN has 5 rows of tines).
- Independent working angles of the first section (4 rows of tines) and the second section (2 rows of tines).
- Perfect surface contouring thanks to the independent seating of the individual sections on the parallelogram.
- Track eradicators for very early spring preparation.
- Compact transportation dimensions, even for the wide STRIEGEL-PRO models.

### AGRONOMIC ADVANTAGES

- Management of crop residues – uniform distribution of crop residues in the stubble field.
- Starting up controlled second growth.
- Effective fight against pests (slugs, mice etc.).
- Early spring preparation of heavy and moist soils. Fast and effective opening and warming up of soil surface.
- Application of fertilizers and simple establishment of stands (greening) thanks to the option of connecting to the FERTI-BOX.
- Mechanical weed control.

# Important Working Parts

## STRIEGEL-PRO PE



### SECTION ATTACHMENT PARALLELOGRAM



The working sections are attached to the parallelogram. This solution provides perfect tracing of any unevenness of the terrain.

### TRACK ERADICATORS



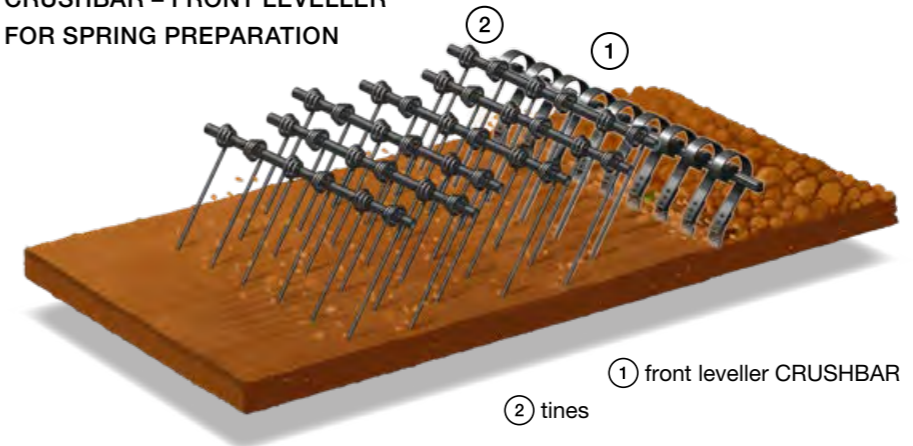
The massive track eradicators with spring protection are installed behind the wheels of the pulled STRIEGEL-PRO models. The field is even and without any tracks.

### FRONT LEVELLING BAR - CRUSHBAR



The front hydraulic levelling bar - CRUSHBAR levels out coarse unevenness in front of the tines. It is possible to install cutting coulters to the spring instead of the blades.

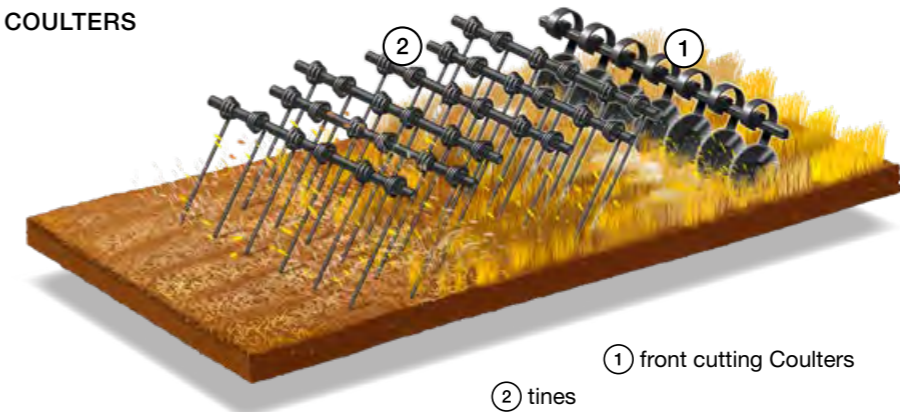
### CRUSHBAR - FRONT LEVELLER FOR SPRING PREPARATION



**CRUSHBAR** is a front levelling bar with individual spring loading of each blade using a leaf spring. The working angle of the Crushbar is adjusted hydraulically from the tractor cabin.

**Application:** Crushbar is ideal for levelling the surface in early spring. It can also be used for levelling a plot that has been cultivated already.

### FRONT CUTTING COULTERS



**COULTERS** are sharp front cutting discs that work on leaf springs. The profile of the coulters brings out soil that is subsequently mixed with crop residue.

**Application:** Coulters are ideal for shortening stalks, especially after cereals or oilseed plants.

### FRONT CUTTING COULTERS



The front cutting coulters are used for cutting crop residues. The coulters have a diameter of 406mm and they operate on a maintenance-free bearing attached to a spring. Blades for spring preparation can be installed to the spring instead of the coulters.

### HYDRAULIC CONTROL OF THE OPERATING ANGLE



The operating angle of the first 4 rows of tines can be controlled hydraulically from the tractor cabin.

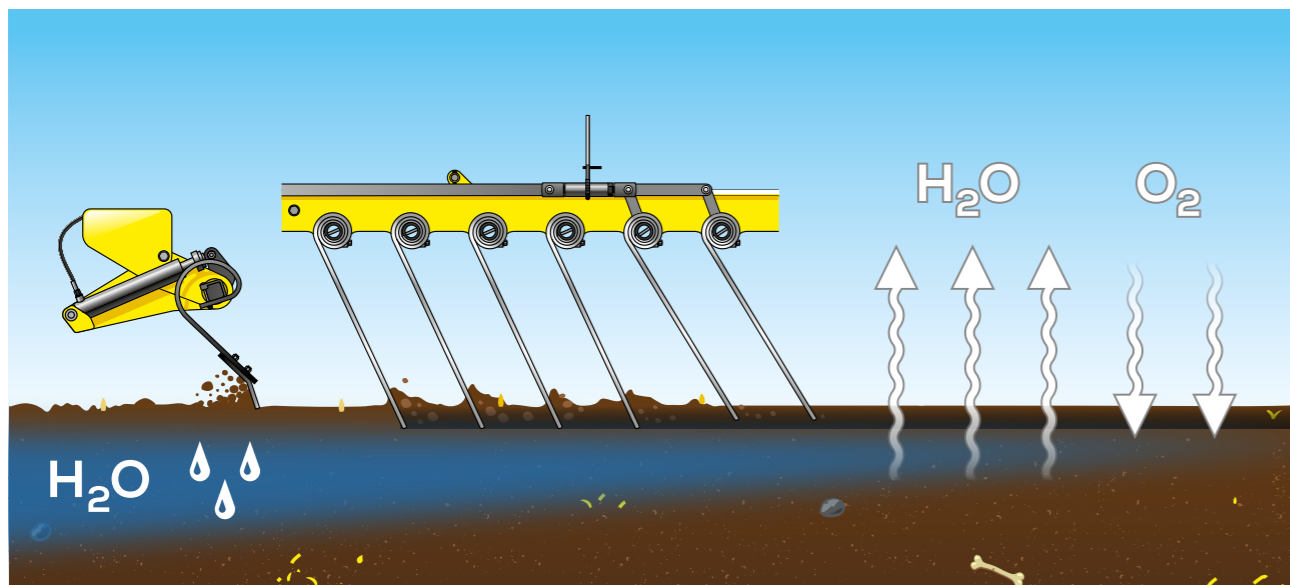
### MECHANICAL CONTROL OF THE OPERATING ANGLE



The operating angle of the last 2 rows of tines is controlled mechanically, simply by using a manual ratchet.



Fast and cheap intercrop establishment using STRIEGEL-PRO PE harrows and ALFA DRILL 800 seed drills.



“We use the STRIEGEL-PRO straw harrow in aggregation with the ALFA DRILL seeding unit. The harrow is not only used for post-harvest residue management, but also for seeding. The speed of 15km/h and the working width of 12m help me get done with intercrop seeding faster than my colleagues.”

Jiří Štěpánek, machine operator

Rostěnice a.s.  
 Rostěnice (district of Vyškov, CZ)  
 10,500 ha  
 STRIEGEL-PRO PE 12000  
 + ALFA DRILL 800



# STRIEGEL-PRO PE

Compact mounted harrows designed for tractors from 350 horses to 500 horses.

Operating width: 12m.

Forward folding towards the drawbar.

## COMPACT TRANSPORTATION DIMENSIONS



The compact transportation dimensions provide easy manipulation, even in narrow and difficult terrain. The transport length of a STRIEGEL-PRO PE 12000 is a mere 8.7 metres.

## ALFA DRILL



The STRIEGEL-PRO PE can also be equipped with the ALFA-DRILL seed hopper with a capacity of up to 800L, allowing for wide sowing of, for example, cover crops.

## TELESCOPIC RODS



The rods stabilize side frames during work at high speed. They are included in the basic equipment of the machine.

## STRIEGEL-PRO PE

		PE 12000
Working width	m	12
Transport width	m	3
Transport length	m	8.7
Working depth*	cm	0–4
Number of coulters	pcs	36
Number of tine rows	pcs	6
Tine spacing	cm	5
Number of tines / points	pcs	120/240
Total weight**	kg	6,000–7,450
Recommended output*	HP	350–500

\* depends on soil conditions \*\* depends on equipment







## BEDNAR disc cultivators SWIFTERDISC XE 12400 and XE 12400 PROFI

## Why SWIFTERDISC XE?

A SWIFTERDISC XE trailed wide disc cultivator in a compact design with individual suspension of the discs with rubber segments, which makes the machine ready for high quality, swift and inexpensive post-harvest stubble cultivation or seedbed preparation.

Thanks to the broad working width combined with high speeds, a massive daily output can be achieved. The unique folding system allows the machine to be compacted in a forward motion resulting in smaller dimensions for transportation. Each arm is fitted with a pair of discs (Twin-Disc system).

BEDNAR SWIFTERDISC XE 12400 and XE 12400 PROFI machines have a working width of 12.4 m. Machines are suitable for CTF (Controlled Traffic Farming).

### TECHNICAL ADVANTAGES

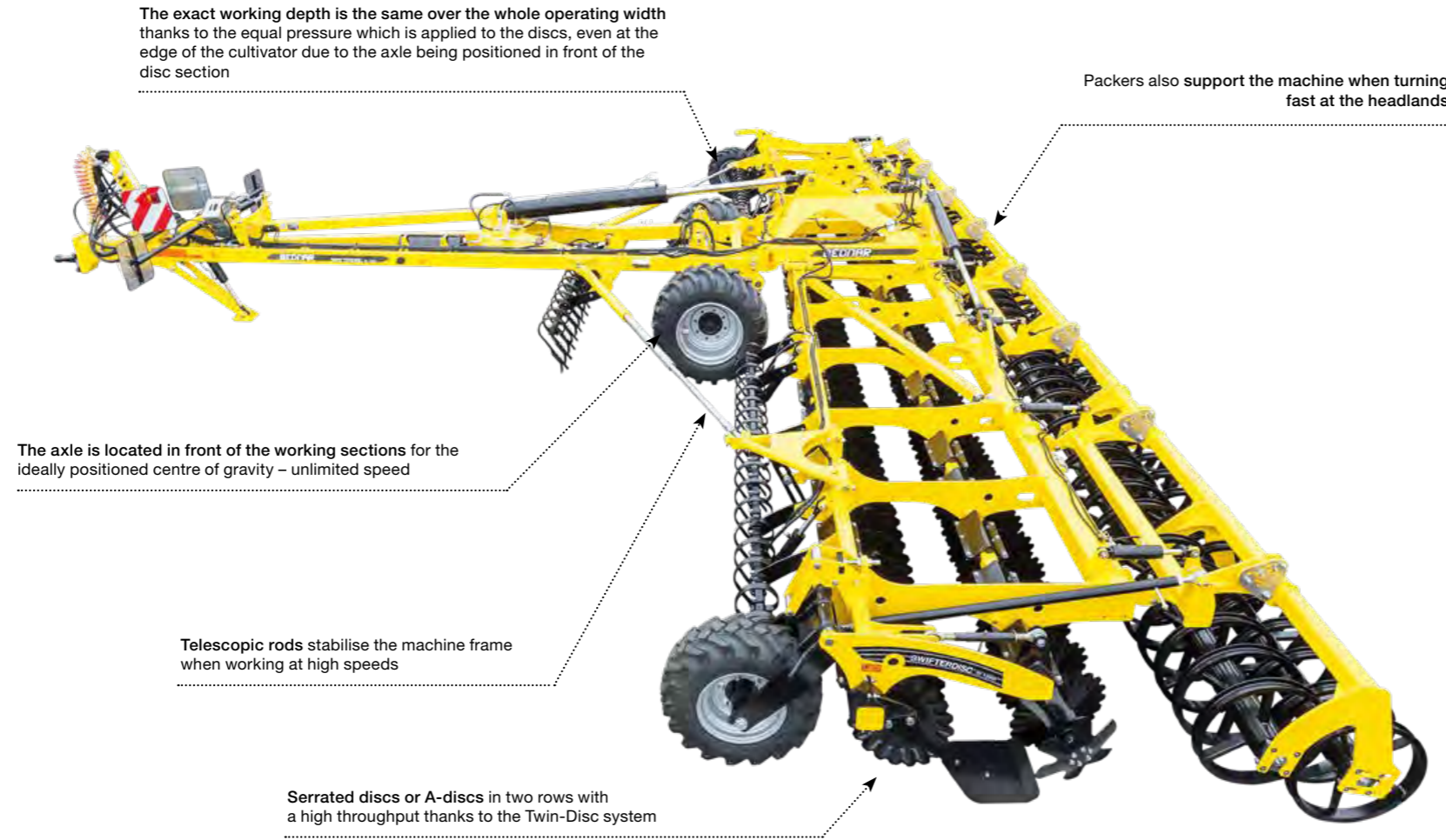
- Excellent machine stability without unwanted movement thanks to the well balanced centre of gravity.
- Operating speeds of 15km/h or more thanks to the cleverly located axle.
- The set tillage depth is constantly maintained. The weight is distributed consistently on the discs.
- Profiled A-discs of 520 x 5mm diameter guarantee intensive mixing and cutting of crop residue.
- The machine has a high material throughput thanks to its Twin-Disc system, one arm for every two discs.
- Maintenance-free bearings of discs are on standby for the toughest conditions.

### AGRONOMIC ADVANTAGES

- The stubble cultivated immediately after the harvest takes advantage of the higher soil moisture content.
- Fast stubble tillage forms the foundation for a managed germination process of second growth and weeds following the harvest.
- Shallow tillage means greater humus content in the upper soil layer creating a more permeable soil (no soil crust).
- Fine crumbling due to the high speed of the machine and the resulting high circumferential speed of the packers, which delivers a flatter field without clods.
- Compaction of the cultivated surface ensures the even germination of volunteer plants and weeds.
- Agrotechnical deadlines are met as a result of the machine's high performance and coverage.
- All-purpose tool for stubble tillage, soil preparation and intercropping with an ALFA DRILL.

# Important Working Parts

## SWIFTERDISC XE



The exact working depth is the same over the whole operating width thanks to the equal pressure which is applied to the discs, even at the edge of the cultivator due to the axle being positioned in front of the disc section

Packers also support the machine when turning fast at the headlands

The axle is located in front of the working sections for the ideally positioned centre of gravity – unlimited speed

Telescopic rods stabilise the machine frame when working at high speeds

Serrated discs or A-discs in two rows with a high throughput thanks to the Twin-Disc system



Load Sensing and electro-hydraulic machine control for SWIFTERDISC XE 12400 PROFI.

### A DISC DIAMETER OF 520x5MM



The standard model of SwifterDisc cultivators is fitted with serrated discs with a dimension of 520x5mm. For an additional fee, you can have the machine fitted with aggressively profiled A-discs.

### MAINTENANCE-FREE AXIAL BEARINGS



Axial ball bearings with oblique contact are encased with two static, one dynamic cassette and four rib seals in a solid metal body.  
1 – dynamic cassette sealing with four ribs, 2 – metal body, 3 – static sealing, 4 – four-point bearing, 5 – double sealing

### SECURING OF DISCS



Rubber segments prevent bumps created during soil tillage. The machine functions quickly without maintenance regardless of tough conditions. High quality, long-life rubber is used!

### SIDE SHIELDS



SWIFTERDISC machines can be equipped with side shields (discs) which prevent the formation of ridges around the edges of the machine. Individual passes cannot be seen.

### FRONT LEVELLING BAR – CRUSHBAR



The SWIFTERDISC XO\_F and XE models can be fitted with a front hydraulic paddle levelling bar – Crushbar (excellent for seedbed preparation). It levels out the land including the rough furrow in front of the discs.

### HYDRAULICALLY CONTROLLED WORKING DEPTH



The working depth can easily be set using the roller control, or the front supporting wheels. It can be set mechanically or hydraulically.

# Important Working Parts



## NO SIDE DRIFTING

Side drifting can be a disadvantage of short disc cultivators. Drifting can be technically eliminated when the cultivator has disc sections arranged in an X shape, such as SWIFTERDISC XE 12400 PROFIL.

## A-DISCS: A NEW DIMENSION TO WORK QUALITY

Specially shaped discs of 520mm in diameter and a wall thickness of 5mm with significantly high cutting and mixing abilities compared to other classic cutting discs. A-discs have a large number of blades around their circumference for the easy incorporation of large amounts of crop residue. These sharp blades cut up the crop residue efficiently. The profiled shape also allows a larger amount of soil to be lifted up than with standard serrated discs. Each profiled disk takes soil and takes it to the plant mulch where it is mixed. This concept delivers excellent results.



## THE HIGHEST LEVEL OF QUALITY OF OIL SEED RAPE AND SUNFLOWER STUBBLE CULTIVATION THANKS TO TRASH CUTTER

If you grow a significant amount of oil seed rape or sunflower etc., it is recommended to equip your machine with the front TRASH CUTTER. (Only available for SWIFTERDISC XE 12400 Profi).

The TRASH CUTTER is equipped with long knives that are mounted in a screw line.

The combination of sharp edges and large circumferential velocity of the TRASH CUTTER leads to perfect cutting of hard stalks and other plant residue left in the field after harvest.



## THE TWIN-DISC ENSURES A BETTER THROUGHPUT

The discs work in pairs on one arm. This solution means the distance between each arm is larger (50cm). This results in more space for the material to pass through the machine. The machine can work smoothly even when the combine has left clumps of straw on the field. SWIFTERDISC cuts it up, spreads it out, mixes it with soil and covers it.



## SWIFTERDISC XE

Efficient disc cultivator with a short design for tractors with horsepower from 320 to 620.

Working width 12.4 m.

Forward folding towards the drawbar.



“Agrar e.G Guthmannshausen is about 20 km north of Weimar in Germany and manages 4,500 hectares of arable land. The farm focuses on growing winter wheat, spring barley, winter oil seed rape, sunflower and sugar beet. We have had a very good experience with BEDNAR, we were one of the first ones to start using a TERRALAND TO6000 and when we needed a disc cultivator, we approached this Czech manufacturer again. We have been using a SWIFTERDISC XE12000 for three years, mostly for fast stubble cultivation after harvest, incorporation of intercrop and irregular seedbed preparation. I appreciate the simplicity of the setting and aggressive discs that did a very good job in this year’s dry and hot summer.”

Mr. Steffen Müller, Managing Director

Agrar e.G. Guthmannshausen  
Guthmannshausen (Germany)  
4,500 ha  
SWIFTERDISC XE 12000

### SWIFTERDISC XE

		XE 12400	XE 12400 PROF1
Working width	m	12.4	12.4
Transport width	m	3	3
Transport length	m	8–9	8–9
Working depth*	cm	2–12	2–14
Number of discs	pcs	100	100
Total weight**	kg	8,900–11,600	10,500–13,000
Recommended output*	HP	320–620	400–620

\*depends on soil conditions \*\*depends on the machine accessories



## BEDNAR disc cultivators ATLAS AE 10000 PROFI and AE 12400 PROFI

## Why ATLAS AE?

BEDNAR ATLAS AE is an efficient, heavy disc cultivator with a short design. The overall hardness of the machine, the size of the discs (620x6mm) working with the non-stop spring protection of the Flexi-Box patented system, predetermines the machines for working in the most difficult conditions with a large quantity of post-harvest residues, incorporation of intercrop, or manure.

The main advantages of an ATLAS AE is the X arrangement of the discs, which prevents drifting of the machine, and the location of the transport axle in front of the working discs. This design eliminates rocking of the machine during work.

The ATLAS AE stands out with its fast and easy turning at headlands thanks to the front rotating wheels and the rear compacting rollers. The machine design also allows for easy and safe transport on roads.

The overall hardness of the machine and the aggressive position of the discs against soil enables cultivation of up to 16 cm of working depth (up to 20cm in lighter conditions) with a larger amount of crop residue.

The BEDNAR ATLAS AE 12400 disc cultivator has a working width of 12.4m, the machine is suitable for the CTF system (Controlled Traffic Farming).

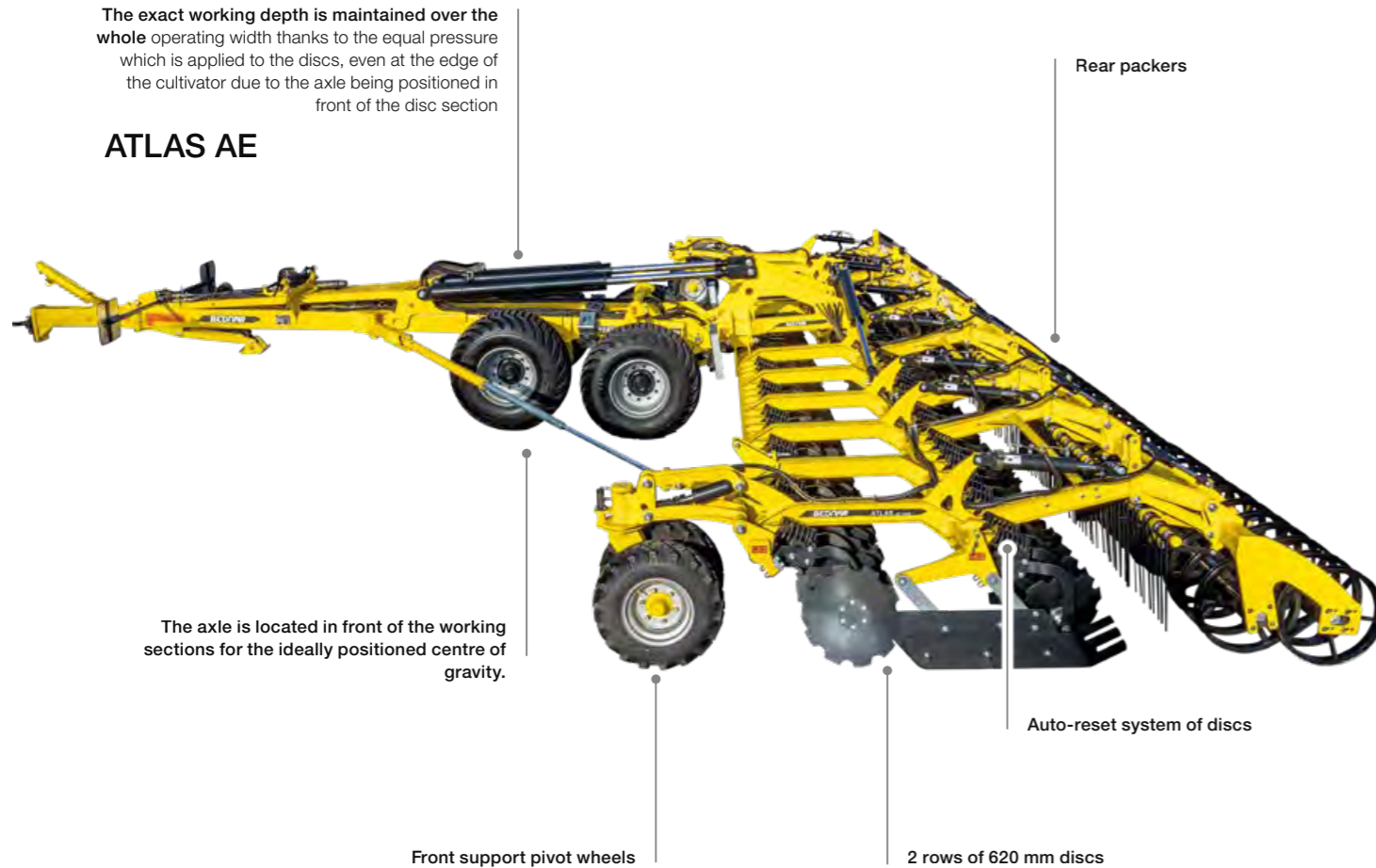
### TECHNICAL ADVANTAGES

- Disc size of 620x6mm for deeper work.
- Maintenance-free mounting of tines using the Flexi-Box patented system.
- Spring loading of each disc using non-stop protection. A solution for the most demanding conditions.
- X arrangement of the discs. Precise tractor tracking, no drifting.
- Axle located in front of the working discs. No rocking.
- Front rotating, pivoting wheels, supporting wheels.
- Machine control using electrohydraulic system.
- Load sensing (for the Profi model).
- Transport width of the machine 3 metres, transport height of the machine 4 metres.

### AGRONOMIC ADVANTAGES

- The disc cultivator is designed for various types of stubble cultivation and aeration up to the depth of 16cm.
- Work without clogging, even with a large quantity of post-harvest residue, including corn.
- Universal application in soil preparation, incorporation manure into soil.
- Possibility to work in very dry conditions thanks to the aggressive position of the discs against the soil. The disc spacing of 25cm allows working in very wet conditions as well.
- High crumbling effect created by the high speed of the machine and high circumferential velocity of the compacting rollers. The field is without clods and levelled.
- Use of the machine in conventional farming systems (after tillage) as well as in minimisation systems.

# Important Working Parts



## SPACING BETWEEN THE DISCS 25 CM



The 25cm spacing between the discs ensures smooth work without clogging including in humid conditions with a large amount of surface material.

## 2 ROWS OF DISCS AT A PLOUGHING ANGLE



Each of the discs operates under the so-called ploughing angle (an aggressive positioning against the soil). This positioning of the discs facilitates the penetration of the soil and increases the incorporation of cultivated material.

## AXIAL MAINTENANCE-FREE BEARINGS



The discs are located in an axial roller maintenance-free bearing with a long service life. The tightness of the bearing is guaranteed by a cassette simmering.

## FLEXI-BOX



A maintenance-free solution of the attachment of tines to the frame. Each pin is fixed in a case with special segments. This solution is maintenance-free (does not require greasing) and it also absorbs micro vibrations transferred from the discs to the frames.

## HORIZONTAL AUTO-RESET SYSTEM OF TINES



Auto-reset system is formed by a horizontal pre-stressed spring for 200kg. Pre-stressed springs apply the ideal amount of pressure to the soil. Deviated tines together with the auto-reset system ensure the accurate guidance of each disc.

## COMFORTABLE TRANSPORT



The ATLAS AE is forward folded towards the drawbar. The machine has a transport width of up to 3m and a transport height of up to 4m.



### NO SIDE DRIFTING

Side drifting can be a disadvantage of short disc cultivators. Drifting can be technically eliminated when the cultivator has disc sections arranged in an X shape, such as ATLAS AE 10000 PROFI and AE 12400 PROFI.



### CTF (CONTROLLED TRAFFIC FARMING)

BEDNAR designs the width of the machine with consideration of the possibility to work in the modern CTF system, which means a lower number of passes over the field and thus less soil compaction.



“We decided to purchase the AE 12400 disc cultivator with a width of 12 m based on our prior experience with SWIFTERDISC XE 12000. The large width of the machine gives us higher labour efficiency and that is desired these days. We are able to work up to 110 hectares daily with the machine according to the soil conditions and size of the field. ATLAS AE perfectly cuts soil and then mixes the post-harvest residue, all in a single pass, providing stubble cultivation of the field along its entire width. Also, the complete automatic machine control via the ISOBUS terminal is a great advantage. It's great. The operator does not have to leave the tractor cabin. He can even adjust the settings and change the working depth from the cabin whenever needed.”

Ing. Jiří Novák, Technical Service Manager

ZAS Bečváry a.s.; Bečváry (district of Kolín, CZ)  
4,300 ha; ATLAS AE 12400

## LOAD SENSING

The ATLAS AE disc cultivators, version Profi, are equipped with the Load Sensing system. Load Sensing is a hydraulic system that saves energy – the tractor pump does not have to run at full speed all the time like in the systems without Load Sensing. The advantage is that only three hydraulic hoses are required to be connected to the tractor.

## ATLAS AE

Efficient heavy disc cultivator with a short design for tractors with horsepower from 500.

Working width 12.4 m.

Forward folding towards the drawbar.



## ELECTRO-HYDRAULIC MACHINE CONTROL

It is a method of precise machine control when it is possible to execute all the machine settings (depth, lifting front discs, recessing the discs on the edge of the machine, or the drawbar angle) from the driver's cabin without having to get out. It is possible to change the depth of cultivation while driving, and above all, any machine, no matter how complicated, can be simply folded and unfolded by pressing a single button, which simplifies work for the operator. Moreover, the machine has indicators of speed, output and current depth, as well as detailed statistics of worked daily and total hectares /hours/ of output. The easy operation and settings are one of the major advantages. This system is installed in the BEDNAR ATLAS AE machines.

## ATLAS AE

		AE 10000 PROFI	AE 12400 PROFI
Working width	m	10	12.4
Transport width	m	3	3
Transport length	m	7.0–8.2	8.2–9.0
Working depth*	cm	6–16	6–16
Number of discs	pcs	80	100
Total weight**	kg	13,500–15,000	15,500–17,000
Recommended output*	HP	500–600	550–620

\*depends on soil conditions \*\*depends on the machine accessories





## BEDNAR combined chisel plough TERRALAND DO 5000 and DO 6500

TERRALAND DO is a robust combined (disc-chisel) machine that is able to cut and process a large quantity of crop residue in a single pass. It mixes the residue with soil and loosens (undercuts) soil up to a depth of 45cm.

The front of the machine is equipped with large, independently mounted discs (660x6mm) that are under pressure from non-stop spring protection. The shares are mounted in four rows with spacing of 37.5cm. This technical solution allows for perfect permeability of the machine thanks to the four-row layout of shares and for the possibility to create ridges for the Ridge-Till method.

The machine can be equipped with a Ferti-Box (37.5x75 cm) for storage fertilisation or an ALFA DRILL for low-cost crop establishment.

Thanks to the well-tested construction of the TERRALAND DO under the hardest conditions of a large quantity of post-harvest residue and heavy soils, the TERRALAND DO combined machine is a machine that will cut crop residue, mix them with soil, incorporate residue evenly into soil profiles, aerate soil and start the water regime required for the following crop. All in a single pass.

## Why TERRALAND DO?

### TECHNICAL ADVANTAGES

- Independently mounted large discs, 660x6mm in two rows.
- Non-stop spring protection of each disc creates a large pressure (270kg) on crop residue.
- 4 rows of working shares with hydraulic protection allowing work to 45cm. Option to disengage the shares.
- Shares with active mixing (Active-Mix) or passive undercut of the soil profile by shares (Zero-Mix).
- Integrated axle facilitating work without rear packers.
- Ridge-Till kit – possibility of ridging for work with moisture for winter and protection against erosion.

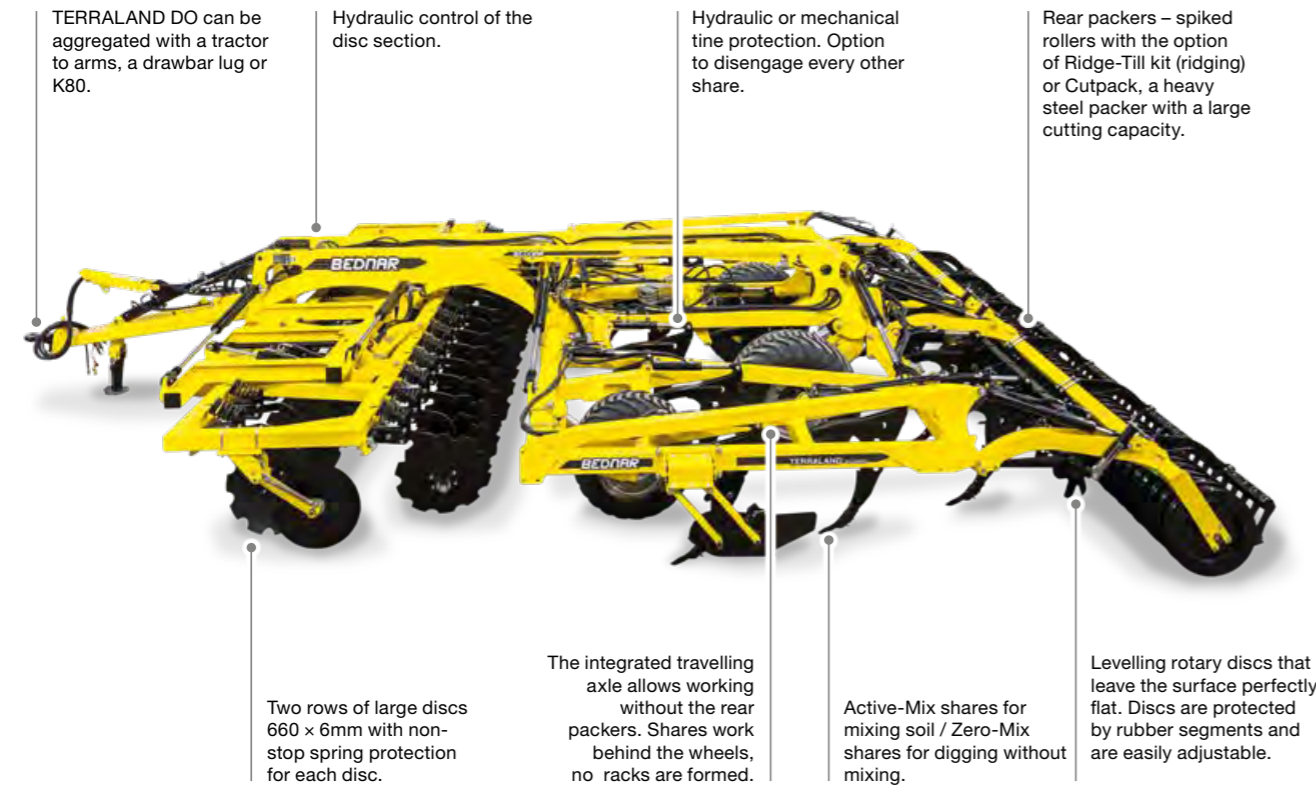
### AGRONOMIC ADVANTAGES

- Excellent incorporation of a large quantity of crop residue after harvest.
- Deeper cultivation than is provided by standard cultivators designed for max. depth of 35cm.
- More air in soil necessary to create a better soil climate.
- Functional water regime = increased ability of soil to absorb a large amount of rain water. Better access of underground moisture to roots.
- Bottom layers of soil are not carried out to higher soil profiles, mixing takes place in the top part of the soil layer.
- Application of fertilisers and easy crop establishment (Greening) thanks to the option to connect with FERTI-BOX and ALFA DRILL.

# Important Working Parts

# Share section

## TERRALAND DO



**ACTIVE-MIX SHARES**



**ZERO-MIX SHARES**

### DEEP CULTIVATION

You will use the ACTIVE-MIX shares:

- Deep cultivation with active mixing of soil and crop residue up to 45cm.
- Undercutting the soil profile thanks to the side wings of tines. 100% overlap of the shares.
- Fitting Active-Mix shares with 80mm chisels or 40mm chisels for deep work.
- Active-Mix shares can be replaced with Zero-Mix shares.

### UNDERCUTTING

You will use the ZERO-MIX shares:

- Undercutting the soil profile without mixing. Shares have a negative angle.
- Disruption of compacted layers.
- Mounting flat wings and tips on Zero-Mix shares.
- Zero-Mix shares can be replaced with Active-Mix shares.

### HORIZONTAL AUTO-RESET SYSTEM OF EACH DISC



Each disc is individually protected with a single-spring protection with the force of 270kg/disc.

### MAINTENANCE-FREE DISC BEARING



Each disc works on a robust maintenance-free bearing with lifelong filling.

### HYDRAULICALLY CONTROLLED MACHINE



The working depth can be set hydraulically using hydraulic cylinders that control the rear packers.





ACTIVE-MIX



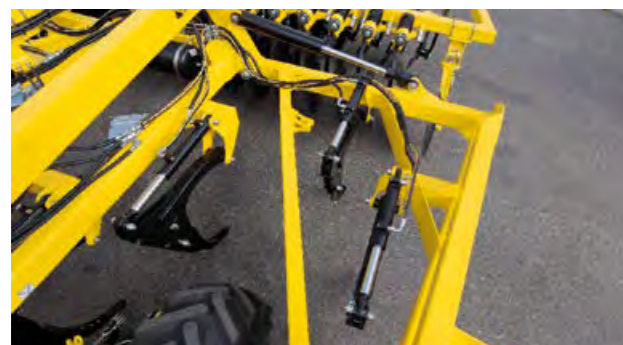
## SMART SHARES

The shares are spaced at 37.5cm. Every second share on TERRALAND DO can be hydraulically disengaged.

This technical design allows the creation of ridges at 75cm using the Ridge-Till kit (ridging discs) and prepare land with ridges that are protected against erosion and is a suitable agronomical solution to maintain moisture from snowfall in

winter. The ridge tips quickly dry out in spring and so it is possible to accelerate spring crop seeding.

This technical design allows working with the machine even in the **most extreme conditions**. Half of the shares are disengaged and the machine can thus work at the maximum working depth (45cm), even in complicated soils.



## ROBUST HYDRAULIC SHARE PROTECTION

The TERRALAND DO shares are protected against overload hydraulically. The robust hydraulic protection preloaded to 800kg allows continuous operation.

The TERRALAND DO shares can also be protected mechanically by a shearing pin. This solution is recommended for lighter soils without stones.



ZERO-MIX

“I drive at a speed of 12 km/h when on an oil seed rape field and I can work about 50 ha per day. When working, I use navigation that makes work easier. At the same time, I save passes, fuel, and wear and tear of the machine, caused by additional passes.”

Jaromír Havlík; one of the 7 partners of the company

AGROTEAM Černochoch s.r.o., Černochoch (district of Louny; CZ)  
1,450 ha  
TERRALAND DO 6500

## TERRALAND DO

		DO 5000	DO 6500
Working width	m	4.9	6.4
Transport width	m	3	3
Transport length	m	10.2	10.2
Working depth share section*	cm	10–45	10–45
Working depth disc section*	cm	6–18	6–18
Number of discs	pcs	32	34
Number of shares	pcs	13	16
Share spacing	cm	37.5	37.5
Total weight**	kg	8,400–9,600	9,700–11,100
Recommended output*	HP	480–530	530–620

\* depends on soil conditions \*\* depends on equipment



## BEDNAR chisel ploughs TERRALAND TO 5000 and TO 6000

## Why TERRALAND TO?

TERRALAND TO is a trailed chisel plough for intensive tillage depths of up to 55cm.

The perfect tillage even in hard soils is done by 2 rows of tines and rear tandem spiky roller.

The central frame is formed by 4-girders and the frames of working sections are made of 150x150mm profile for higher resistance.

The transport axle is placed between the active organs which enables to work without the roller (e.g. in wet conditions).

Having a rear drawbar means the CUTTERPACK or PRESSPACK trailed packers can be connected to the machine to finish off the job in hand.

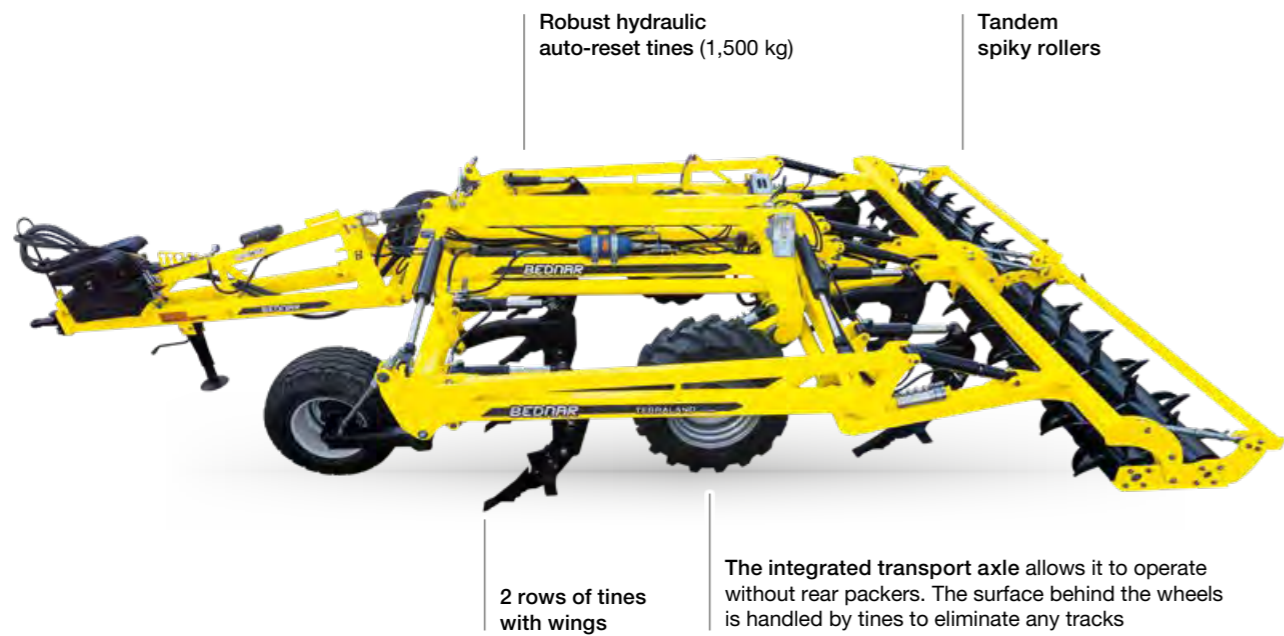
### TECHNICAL ADVANTAGES

- The 4-girder central frame, frames of sections are made of 150x150mm profile.
- The triple ringed angle of the working tines ensures easy soil penetration and the ideal throughput of the machine.
- The integrated axle, placed between the working tines, will even allow you to work without rear tandem rollers.
- The rear tandem spiky rollers can be set hydraulically and crush the final persistent clumps.
- Hydraulic auto-reset system of tines for extremely heavy or stony soils.
- The CUTTERPACK or PRESSPACK trailed packers can be connected.
- The machine can be equipped with a FERTI-BOX for storage fertilisation.

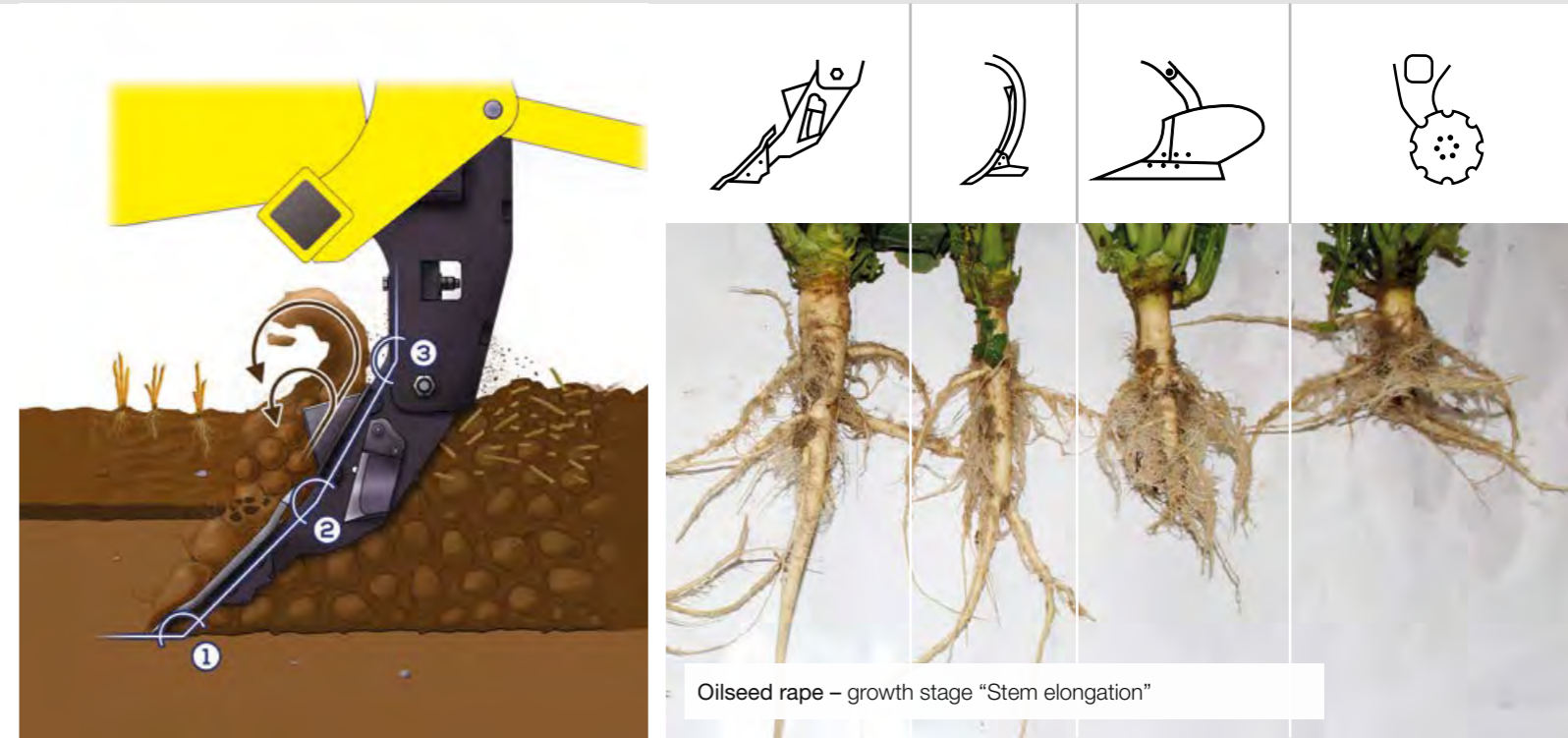
### AGRONOMIC ADVANTAGES

- Loosens deeper than standard cultivators with a max. depth of up to 55 cm, which results in the roots having access to more moisture.
- There is more air in the soil which is needed to create a better soil climate.
- Disruption of compressed layers during single passing.
- Lower soil layers are not brought up to the higher soil profiles; mixing takes place in the upper section of the soil layers.
- Recompacts the soil to preserve moisture in the summer by using the detachable PRESSPACK, or final crushing work for seedbed preparation by using the CUTTERPACK.
- Increased rainwater absorption that in turn eliminates puddles and long-term wet patches.

# Important Working Parts



# 3 angles for easy work



## WHY ITS WORK IS INTENSIVE AND EFFECTIVE

The machine breaks up the plough pan and the chisel tips reach right under this compacted layer. The soil in the upper soil profile is mixed intensively with the plant residue and is covered. These superior results are achieved thanks to the tines which are bent at 3 different angles:

- The first angle is positioned in such a way as not to carry the lower soil layers (poor in nutrients) up to depths where the seeds are sown. The first angle cuts aggressively through the plough pan.
- The second angle generates an intensive mixing effect, mixing plant residue with the soil. This creates a homogeneous organic material.
- The third angle forces tilling and mixes the organic matter for its final incorporation.

## HYDRAULIC AUTO-RESET SYSTEM OF TINES



Hydraulic auto-reset system for tough stone conditions and extremely compacted soils. The securing power for each tine starts at 1,000 kg and ends at 1,500 kg.

## LONG LIFE CHISELS

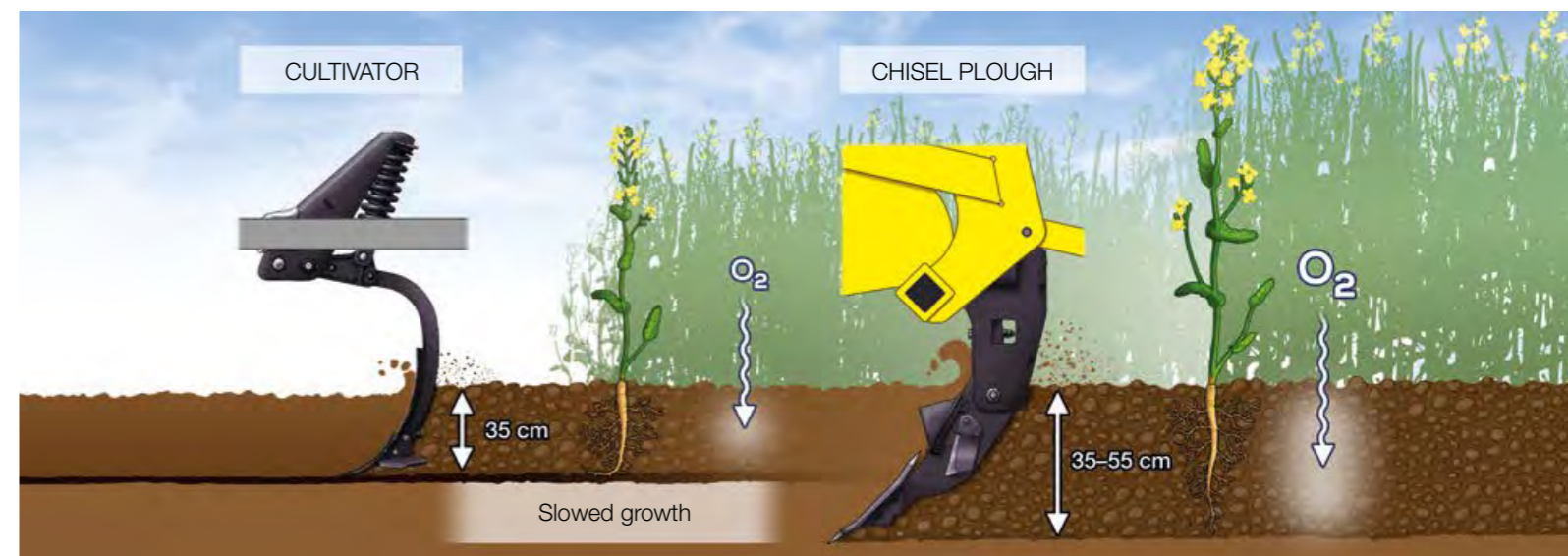


The tines can be fitted with special Long Life chisels of 40mm or 70mm for extreme conditions.

## TRAILED PACKERS CAN BE ATTACHED



The TERRALAND TO is equipped with a drawbar that has hydraulic and electric connectors suitable for pulling other tools to complete the deep tillage. The CUTTERPACK or PRESSPACK trailed packers can be attached to the machine.



# Trailed packers CUTTERPACK and PRESSPACK



## CUTTERPACK



CUTTERPACK CT is a trailed packer, consisting of 2 rows of self-cleaning cutting discs, which can be used on its own or in combination with other BEDNAR machines.

## PRESSPACK



PRESSPACK PT is a trailed packer, consisting of 2 rows of self-cleaning steel rings, which can be used on its own or in combination with other BEDNAR machines.

## CUTTERPACK CT

		CT 5000	CT 6000
Working width	m	5.3	6.3
Transport width	m	2.5	2.5
Transport length	m	3.8	3.8
Number of discs / rings	pcs	46	54
Total weight*	kg	1,870–2,070	1,950–2,150
Recommended output**	HP	45	55

\*depends on the machine accessories \*\*depends on soil conditions

## PRESSPACK PT

		PT 5000	PT 6000
Working width	m	5.3	6.3
Transport width	m	2.5	2.5
Transport length	m	4	4
Number of discs / rings	pcs	54	64
Total weight*	kg	3,300–3,900	3,600–4,500
Recommended output**	HP	50	60

\*depends on the machine accessories \*\*depends on soil conditions

“We purchased TERRALAND for two reasons. The first one was an issue with long-lasting compaction of the fields, the second was waterlogged soil. We use Terraland to cultivate soil up to 40 cm to eliminate soil compaction and to create the best possible conditions for the following crop. The compaction is gone after a single pass and moreover, the fields stay level thanks to the quality work of the rear spiked rollers,” says Andreas Hansen, Managing Director.

Josef Schlüter (on the left) and Maik Schröter, tractor operator (on the right)

Agricultural cooperative Elbniederung Eutzsch e. G. (Germany)  
2,300 ha  
Terraland TO 6000

## TERRALAND TO

		TO 5000	TO 6000
Working width	m	5	6
Transport width	m	3	3
Transport length	m	8.6	8.6
Working depth*	cm	15–55	15–55
Number of tines	pcs	11	13
Spacing of tines	cm	43	43
Total weight**	kg	6,950–7,380	7,670–7,810
Recommended output*	HP	400–500	500–600

\*depends on soil conditions \*\*depends on the machine accessories



## BEDNAR seedbed cultivators SWIFTER SE 12000, SM 14000, SM 16000 and SM 18000

## Why SWIFTER SE a SM?

BEDNAR SWIFTER SE and SM are powerful seedbed cultivators, with which you will achieve enormous daily outputs. The combination of up to 8 various working components guarantees the perfect cultivation of the upper layer, consolidation and the levelling of the surface. In just a single pass, you will prepare the optimum seedbed, even in the furrow made by the plough.

The main benefits of wide-range SWIFTER compactors are their enormous daily outputs, first class work, comfort and smoothness when handled, speed and last but not least it's easy to use when deployed in the field and during transportation. All this makes the SWIFTER an efficient tool for keeping the agrotechnical deadlines.

If you compare the working widths of 6m and 10m working at the same average speed of 12km/h, a 6m machine prepares 5.4ha/h for sowing while the 10m machine prepares 9.6ha/h. It means that during an 8-hour shift you will increase the performance of the seedbed preparation from 43.2ha to 76.8ha, a difference of 33.6ha per working shift. In percentage terms you will have gained 77%.

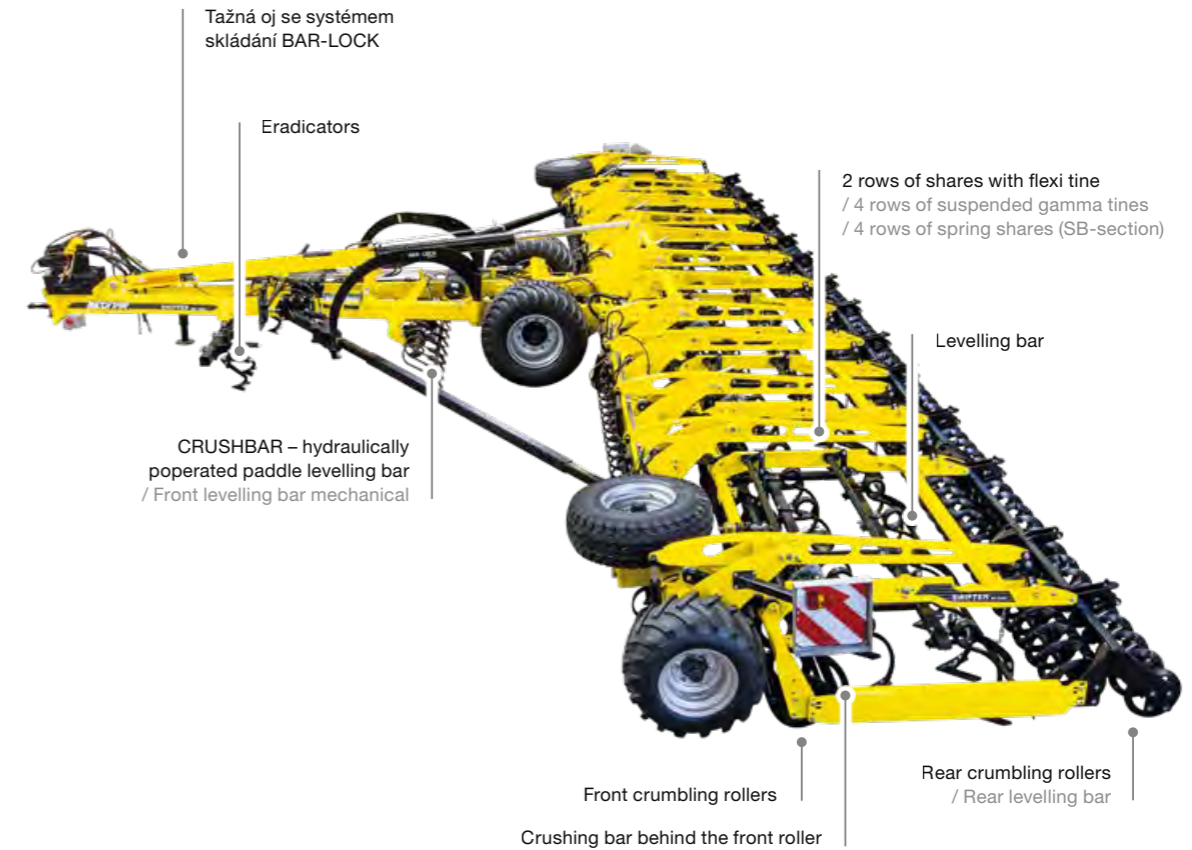
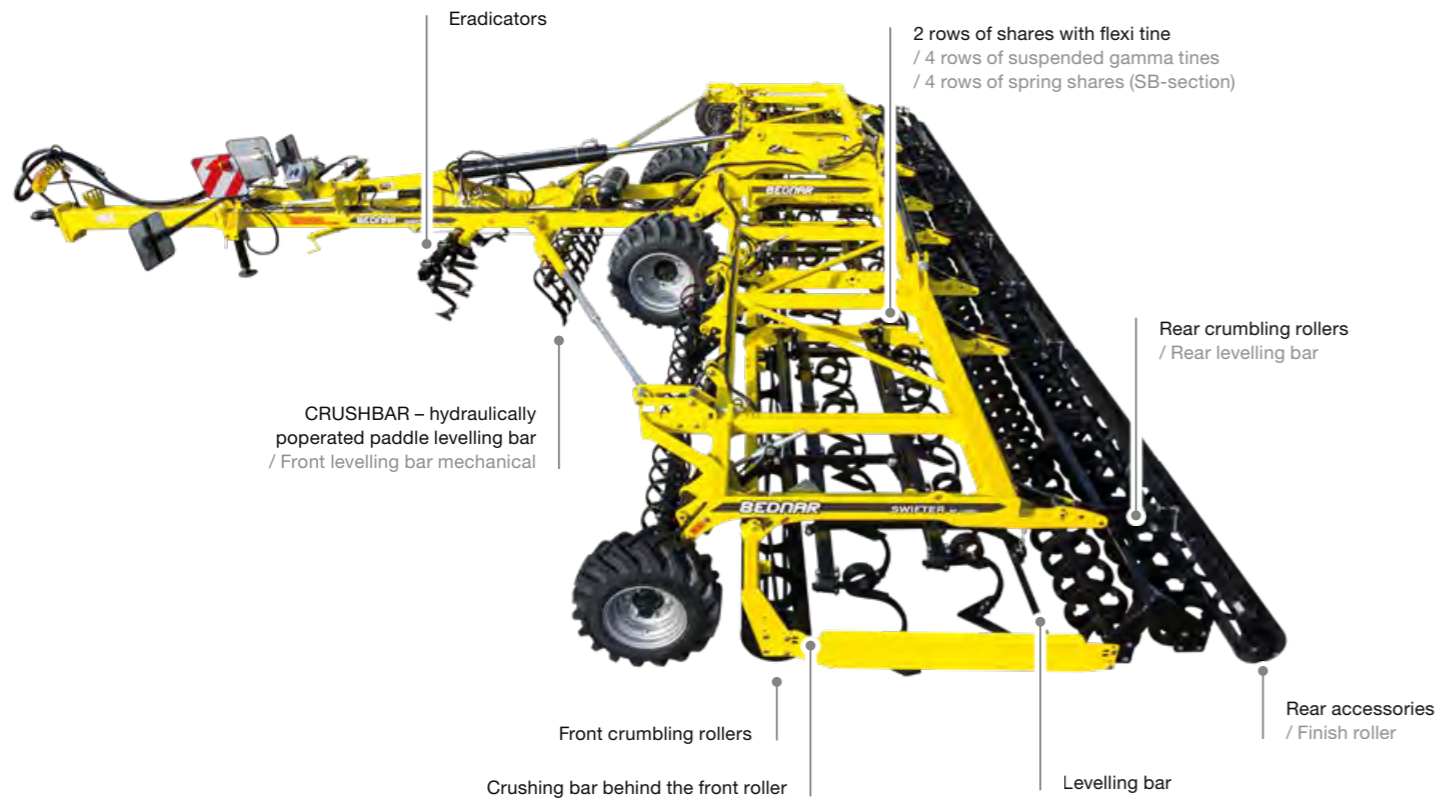
### TECHNICAL ADVANTAGES

- Perfect preparation for seeding in just one pass.
- Up to 8 working operations in one pass.
- Enormous daily output due to the working width and speed.
- High operating speeds of up to 15km/h.
- Interchangeable shares and gamma-tines.
- Perfect contouring of the surface due to the independent location of the Wave-Flex sections.
- Self-cleaning Tandem crosskill rollers deliver the perfect crumbling and to finish off consolidation of the soil.
- "Top quality" bearings ready for high circumferential speeds which fuels the crumbling effect.
- Hydraulically setting the working depth guarantees a precise and constant depth across the entire width of the machine.

### AGRONOMIC ADVANTAGES

- By combining several working operations into one, you will make significant savings on the preparation of the soil.
- The 3 levelling bars deliver a perfectly flat field overcoming all obstacles.
- Create an accurate and identical seedbed for all crops (maintaining the working depth over the entire width of the machine).
- Due to the technical solution of the tandem and finish rollers you will crumble even the smallest clods. The aggressiveness of the crumbling is enhanced by increased circumferential speed rollers.
- You can deploy the machine in conventional farming systems (after ploughing), and in minimisation systems as well.
- The machines technical solutions enable you to work at faster speeds and easily keep within the required agrotechnical deadlines.

# Important Working Parts



## BEDNAR SWIFTER SE

is a seedbed cultivator designed for tractors ranging over 380 HP

- working widths 12 m
- folding in the front direction to the drawbar
- interchangeable section (shares × gamma tine)
- easy to transport on narrow roads thanks to the transport width of 3 m and height of 4 m

## SWIFTER SE

		SE 12000
Working width	m	12.2
Transport width	m	3
Transport length	m	8.6
Working depth*	cm	2–12
Number of shares	pcs	48
Number of shares (SB-section)	pcs	88
Number of gamma tines	pcs	116
Total weight**	kg	8,100–9,900
Recommended output*	HP	330–380

\*depends on soil conditions \*\*depends on the machine accessories

## BEDNAR SWIFTER SM

is a seedbed cultivator designed for tractors ranging over 400 HP

- working widths 14, 16, 18 m
- folding in the back direction behind the drawbar
- interchangeable sections (shares × gamma tine)
- easy to transport on narrow roads thanks to the transport width of 3 m and height of 4 m

## SWIFTER SM

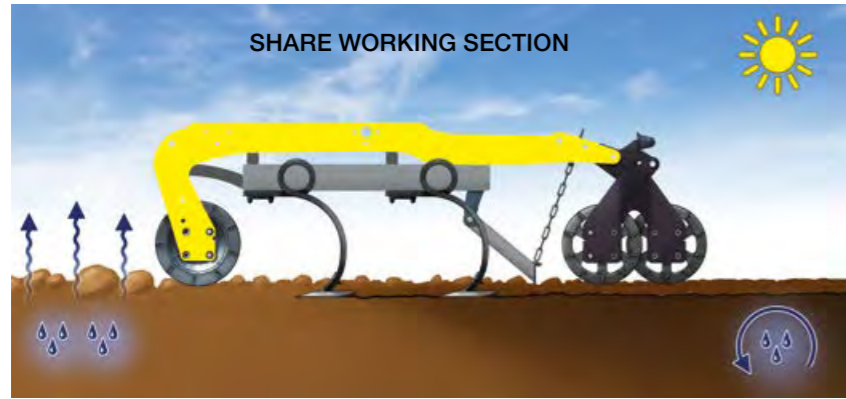
		SM 14000	SM 16000	SM 18000
Working width	m	14.2	16.2	18.2
Transport width	m	3	3	3
Transport length	m	13.6	14.6	15.6
Working depth*	cm	2–12	2–12	2–12
Number of shares	pcs	56	64	72
Number of shares (SB-section)	pcs	104	118	132
Number of gamma tines	pcs	136	152	168
Total weight**	kg	11,600–14,200	12,400–15,400	13,200–16,600
Recommended output*	HP	400–435	450–500	500–550

\*depends on soil conditions \*\*depends on the machine accessories



# Choose the suitable working section

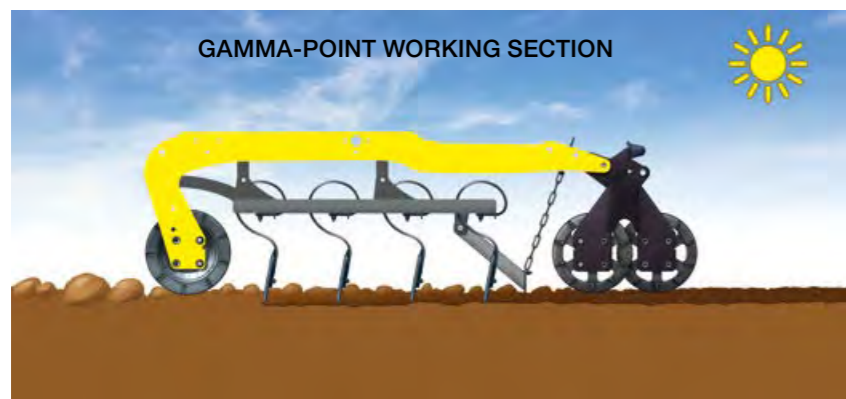
# Uniform crop germination



Use it for – summer and autumn preparation when the soil needs loosening and mixing after the previous harvest.

270mm sweeps in two rows with overlapping guarantee undercut of the soil profile along the entire width of the machine which creates a firm bottom. At the same time, soil is aggressively processed thanks to the working angle of the sweeps, which creates a loosened top layer.

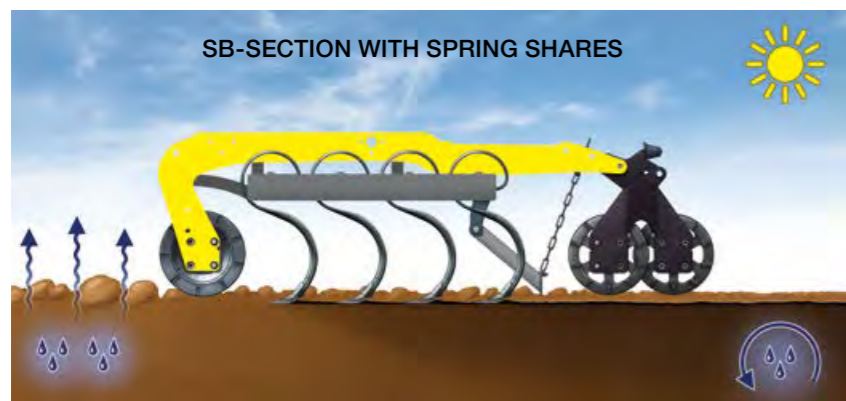
Each sweep is attached to a flexible tine which allows for the “3D effect” (horizontal and vertical movement) that protects the sweep from damage.



Use for – spring seedbed preparation, with maintaining winter moisture in soil.

Four rows of gamma-points at negative angle safely loosen, aerate and warm up soil without bringing wet particles to the surface, which keeps the winter moisture in soil, important for a fast start of the growth of spring crop.

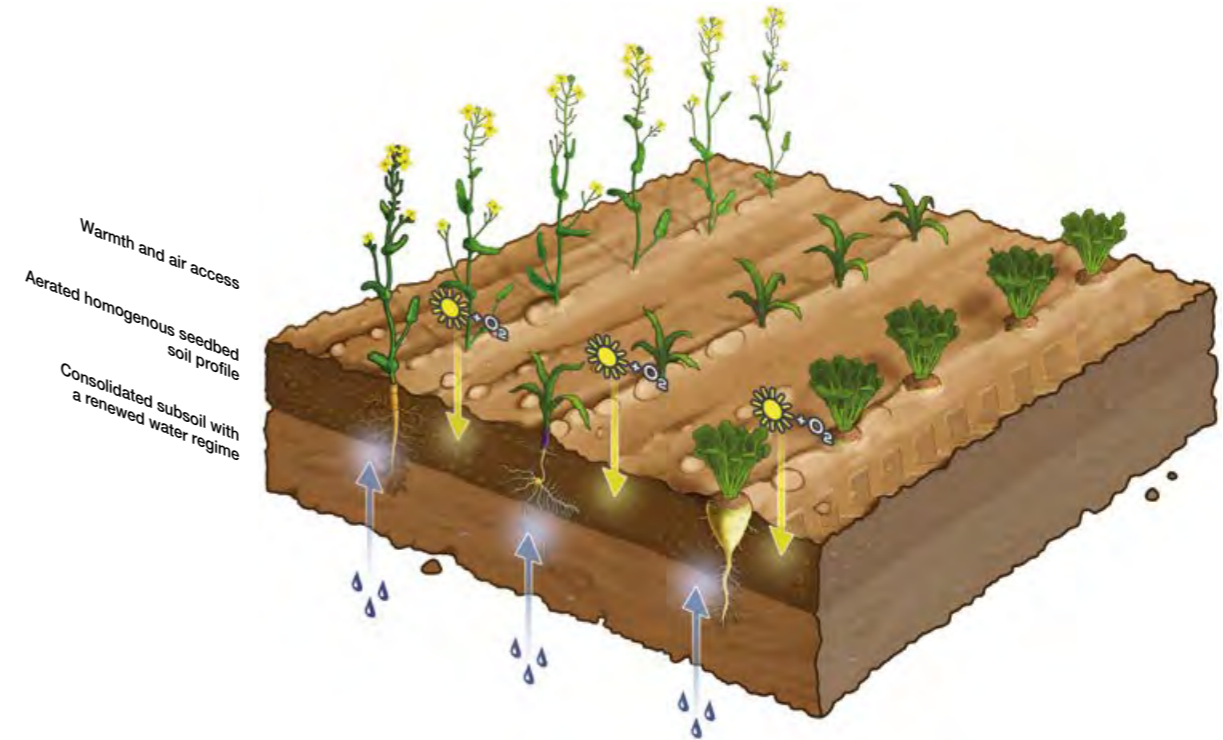
Spring loading of each tine allows working at high speeds of up to 15km/h. That means time saving and time is what you need in spring.



Use it for – spring seedbed preparation with maintaining moisture. Suitable mainly for sugar beet.

The spring shares located in four rows on S-tines provide quality soil processing in spring. The share angle does not cause vertical mixing of soil, which preserves its spring moisture, important for the quality and speed of plant germination. Moreover, the requirement for the pulling vehicle is reduced.

S-tines can be used with overlapping shares 150x4mm or shares Duck foot 70x6mm.



## CREATING THE IDEAL SEEDBED STRUCTURE

- Thorough soil relief levelling of the prepared land so that it is perfectly level after the previous working operations, is an essential and a key part of seedbed preparation.
- A warm and aerated soil profile is the foremost requirement for fast, uniform germination of all crops planted.
- Creating a precise level throughout the whole of the prepared area secures a precisely set depth for the seedbed cultivator on the basis of the agro requirements of the future crop.
- The ideal structure and proportion of soil particles helps crop germination. Suitably sized soil particles throughout the land are an integral part of thorough seedbed preparation.
- Consolidated subsoil under the prepared surface layer renews the soil water regime, which is absolutely essential to start seed growth.

The BEDNAR Swifter is a seedbed cultivator which creates a seedbed in just the way intensive farming systems require with the focus on maximising yield potential.

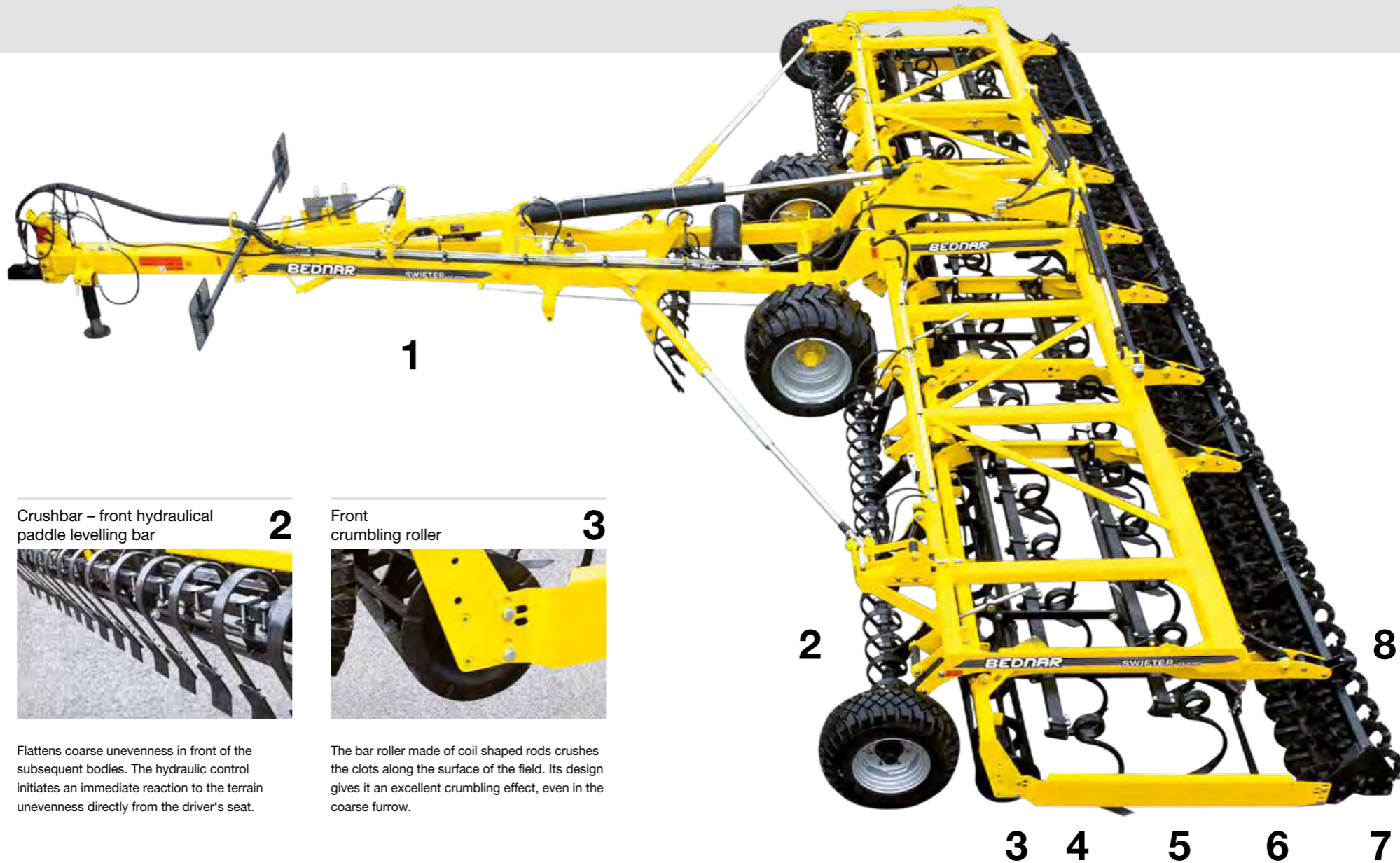


# Working parts

Eradicators **1**



Massive eradicators with spring securing which are used for cultivating pressed soil after the narrow tyres of tractors.



Front levelling bar mechanical **2**



Mechanically adjustable front slide bar levels coarse unevenness, through which it enhances the work effectiveness of the subsequent parts.

Crushbar – front hydraulical paddle levelling bar **2**



Flattens coarse unevenness in front of the subsequent bodies. The hydraulic control initiates an immediate reaction to the terrain unevenness directly from the driver's seat.

Front crumbling roller **3**



The bar roller made of coil shaped rods crushes the clots along the surface of the field. Its design gives it an excellent crumbling effect, even in the coarse furrow.

Crumbling bar behind the front roller **4**



Holds the clots next to the rollers, through which better crushing is achieved. This solution is perfect for very dry soils with a number of hard parts.

2 rows of shares with flexi tine **5**



Overlapping 270mm width shares ensure the perfect undercut and loosening along the entire width of the machine. They work on a flexible tine, with 3-sided mobility ("3D effect").

4 rows of suspended gamma-tines **5**



Ensure the perfect loosening and warming of soil without the loss of moisture. The gamma-tines are positioned at a negative angle, so there is no humidity released to the soil's surface.

4 rows of spring shares (SB-section) **5**



Spring shares are designed to undercut the profile without vertical mixing of the soil, thus ensuring the destruction of weeds and preventing the loss of moisture.

Levelling bar **6**



Evens the surface making life easier for the rear rollers. Working height is easily set by positioning the chain in shape eye with a latch.

Rear levelling bar **8**



Creates the perfectly flat field which is 100% ready for seeding for even the smallest seeds such as spring barley, poppy seed, rape etc.

Finish roller of 270mm diameter **8**



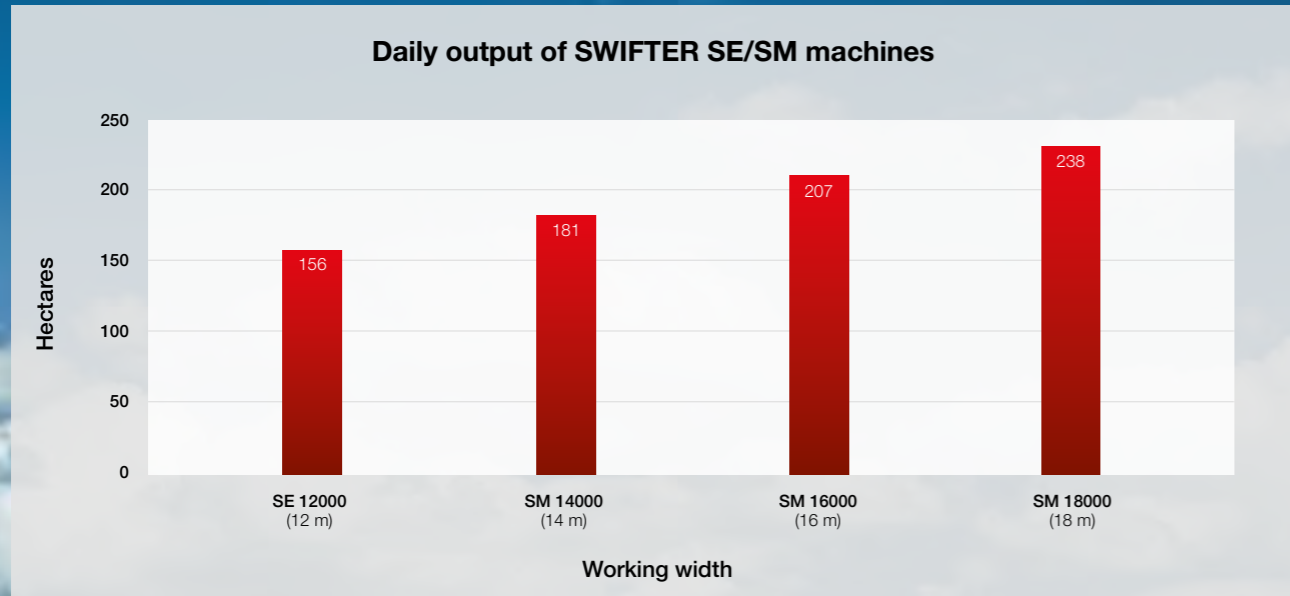
Thanks to the high circumferential speeds intensive crumbling is guaranteed ("soil cutter effect"). In combination with the crosskill rollers you will reach optimum soil crumbling.

Rear crumbling rollers **7**



Ensure the clots are crumbled to fine grain, which remains on the surface after the work of the previous working components. Simultaneously its pressure finely tightens the surface.

# Table of daily output



“At our farm, we had a lot of problems with meeting the agronomic deadlines, therefore we decided to invest in a large tractor with a horsepower of 620, which should help us keep the dates. After testing some machines, we voted for BEDNAR, mainly thanks to the experience of the brand with such powerful tractors. We closed the first deal directly with Jan Bednár and purchased the TERRALAND TO 6000 chisel plough. We were absolutely satisfied with the machine and thus we ordered the SWIFTER SM 16000 seedbed cultivator for the following spring. The machine lifted the quality of our seedbed preparation to a completely new level. Swifter could do three operations in a single pass and the output?! 200 hectares per day is not a problem! We also own the wide BEDNAR SWIFTERDISC XE disc cultivator.”

Ing.Gabriel Toman, Agronomist

T-agro, Slovakia, Čeladice (district of Nitra)  
 2,000ha  
 SWIFTER SM 16000, TERRALAND TO 6000, SWIFTERISC XE 12400

# Packers and Rollers

Typ		SWIFTERDISC		ATLAS	TERRALAND		SWIFTER	
		XE	XE_Profi	AE	TO	DO	SE	SM
Tube Packer	1	•	•	•				
Steel Ring Packer	2	•	•					
Road Packer	3	•	•	•				
V-ring Packer	4	•	•	•				
U-ring Packer	5							
Double U-ring Packer	6	•	•	•				
Single-row Slatted Roller	7							
Dual-row Slatted Roller	8						•	•
Single-row Crosskill Roller	9						•	•
Dual-row Crosskill Roller	10						•	•
Crosskill Roller for Rocks	11						•	•
Double V-Ring Packer	12		•	•				
Tandem Spiky Roller	13				•	•		
Double Roller	14							
Cutpack Packer	15	•	•	•		•		

\* weight 130 kg/m (including the scraper system), diameter 500 mm



Tube Packer **1**



A traditional packer with massive steel rods that provide standard crumbling effect.

Weight: 121 kg/m  
Diameter: 635 mm

Steel Ring Packer **2**



A packer with massive steel parts for superb compaction suitable for all soil types.

Weight: 202 kg/m  
(including the scraper system)  
Diameter: 525 mm

Road Packer **3**



A packer from hard natural rubber suitable for all soil conditions with very low tack.

Weight: 217 kg/m  
(including the scraper system)  
Diameter: 590 mm

V-ring Packer **4**



A heavy steel packer for all soil types for intensive crumbling and firming of the soil.

Weight: 160/169 kg/m  
(including the scraper system)  
Diameter: 530/630 mm

Single-row Crosskill Roller **9**



An ideal solution for dry to overdry soils with excellent clod crumbling.

Weight: 123 kg/m  
Diameter: 350 mm

Dual-row Crosskill Roller **10**



Dual-row crosskill rollers with auto-cleaning effect. Ideal for all soil types for superb crumbling and compaction.

Weight: 162/180/167 kg/m  
Diameter: 350/370/440 mm

Crosskill Roller for Rocks **11**



An ideal solution for crumbling clods in dry or overdry soils with a high density of rocks.

Weight: 160 kg/m  
Diameter: 350 mm

Double V-Ring Packer **12**



A double-row heavy steel packer for all types of soil providing intense crumbling and reverse soil compaction.

Weight: 162 kg/m  
Diameter: 630 mm

U-ring Packer **5**



A steel packer for all soil types with quality crumbling and low stickiness thanks to the "U" rim profile.

Weight: 76/155 kg/m  
(including the scraper system)  
Diameter: 500/600 mm

Double U-ring Packer **6**



A Dual-row steel packer with auto-cleaning effect, excellent crumbling and low stickiness thanks to the "U" rim profile.

Weight: 126/164 kg/m  
Diameter: 500/600 mm

Single-row Slatted Roller **7**



A simple and low-cost solution for processing light in spring.

Weight: 58 kg/m  
Diameter: 370 mm

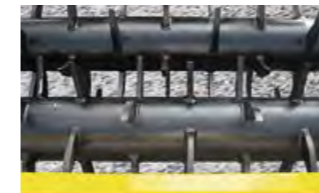
Dual-row Slatted Roller **8**



Suitable for intensive year-round treatment of light soils.

Weight: 60/115 kg/m  
Diameter: 270/370 mm

Tandem Spiky Roller **13**



For effective soil cultivation with a large ratio of crop residue after deep cultivation with a chisel plough.

Weight: 157 kg/m

Double Roller **14**



An ideal roller for quality two-step processing of medium and light soils in drier conditions.

Weight: 132 kg/m  
Diameter: 370/470 mm

Cutpack Packer **15**



A heavy steel packer with a high cutting capability suitable for heavy soils.

Weight: 222 kg/m  
(including the scraper system)  
Diameter: 630 mm

# I did maximum for more yield this year

## soil cultivation



**STRIEGEL-PRO**  
Harrows



**SWIFTERDISC**  
Disc Cultivators



**ATLAS**  
Disc Cultivators



**SWIFTER**  
Seedbed Cultivators



**FENIX**  
Versatile Cultivators



**TERRALAND**  
Chisel Ploughs



**CUTTERPACK**  
Trailed Packers



**PRESSPACK**  
Trailed Packers



**TERRALAND DO**  
Combined Chisel Plough

## seeding and fertilizing



**OMEGA**  
Seed Drills



**FERTI-BOX**  
Hopper for Fertilizer



**ALFA DRILL**  
Seed Hopper

## inter-row cultivation mulching



**ROW-MASTER**  
Inter-row Cultivator



**MULCHER**  
Rotary Cutters

**BEDNAR FMT, s. r. o.**  
Lohenicka 607  
190 17 Praha-Vinoř  
Czech Republic



Your Authorized Dealer

info@bednarfmt.com  
www.bednar-machinery.com



\* M A O O 2 6 0 \*