

DISC CULTIVATORS

BEDNAR

SWIFTERDISC XN, XO_F, XE, XE_PROFI

A fast and high quality stubble
tillage solution



JOY
OF FARMING

MAIN ADVANTAGES OF THE MACHINE

- Excellent machine stability without unwanted movement thanks to the well balanced centre of gravity.
- High working speed thanks to the cleverly located axle.
- The set tillage depth is constantly maintained. The weight is distributed consistently on the discs for all types of SWIFTERDISC machines.
- Profiled A-discs of 520 × 5 mm / 560 × 5 mm 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.
- A front hydraulic levelling bar – Crushbar for seedbed preparation (models XO_F, XE and XE_PROFI).

BEDNAR SWIFTERDISC is a short disc cultivator which was developed for uniform cultivation in order to maximise the mixing quality of soil and plant residue, creating a homogeneous material with the plant residue decomposing quickly and evenly. All of this at high operating speeds, which have a positive impact on the tilling quality.

The compact SWIFTERDISC cultivator is particularly suitable for shallow tillage with intensive soil mixing. By placing the discs on flexible rubber segments the uneven terrain is tracked and the Twin-Disc system guarantees an excellent material throughput. Superior tillage quality is ensured with the aggressive A-discs (520 × 5 mm / 560 × 5 mm) which function at high operating speeds.

The SWIFTERDISC provides swift and affordable soil cultivation. The time spent tilling fields is significantly shortened and the overall costs for cultivation and fuel are reduced.



AGRONOMIC ADVANTAGES OF THE MACHINE

- 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.



"In recent years, I've spent a lot of time in the field talking to short disc tool users and the most recurring topic that came up, was machine stability problems. It was the stability of the short disc cultivators which affected the overall performance. The set up couldn't achieve the performance it should have as the short disc was unstable. So we sat down with our designers and carefully tested different centres of gravity so that the operating speed would be limited not by the tool, but by the tractor. We succeeded by using our integrated axle for the SWIFTERDISC XO_F and by moving the axle on the SWIFTERDISC XE in front of the disc sections."

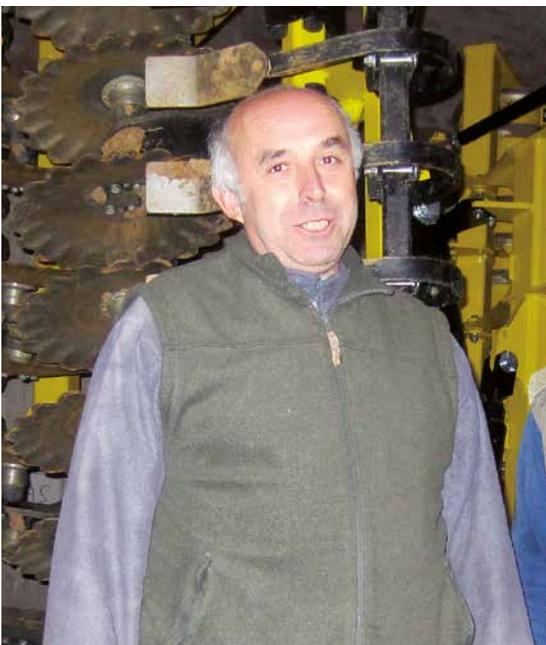
Jan Bednar

SWIFTERDISC Benefits



Cost savings benefits:

- **Quality tillage in one pass** – one pass instead of many, quality cutting, mixing and incorporation of plant residue due in particular to the profiled aggressive A-discs.
- **High operating speeds** – means cutting costs and the number of hours spent out on the field. The high speeds are reached thanks to the high stability of the machine.
- **Large area capacity** – SWIFTERDISC is a light disc cultivator which can be connected to tractors of lower output, while the operating width and operating speed guarantee unusually high performance.
- **Low maintenance costs** – the components have a longer lifespan.



An agricultural co-operative located in Suchdol
district Pribram (Czech Republic)



area: 1 295 ha
machine: SWIFTERDISC XO 6000 F

"The machine breaks up clods and levels the land perfectly. I must say that I am very pleased with this new machine, because its stability is excellent even at higher speeds of over 15 km/h."

Jaroslav Skala, chairman

SWIFTERDISC Utilisation



You can use the SWIFTERDISC for:

- **Shallow and fast stubble tillage** to stimulate volunteer plant and weed germination and prevent capillary action.
- **Maintain the moisture in the soil** by compacting the surface with a rear packer immediately after the harvest.
- **Seedbed preparation** which includes levelling the furrow.
- **The incorporation of plant material** such as intercrops.
- **Planting intercrops and grasses** using an ALFA DRILL.

DEMONSTRATION ON GRAIN STUBBLE FIELD

- machine: SWIFTERDISC XE 10000
- cultivation depth: **7 cm**
- number of passes: **1**
- working speed: **15 km/h**
- fuel consumption: **6,5 l/ha**



A DEMONSTRATION ON THE ROUGH FURROW

- machine: SWIFTERDISC XO 6000 F
- cultivation depth: **12 cm**
- number of passes: **1**
- working speed: **10 km/h**
- fuel consumption: **9 l/ha**



SWIFTERDISC
**Operating
 components**

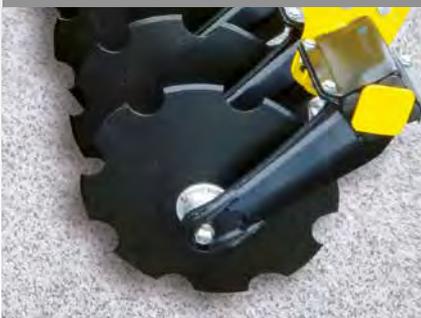


Why should the cultivation be done immediately after the harvest

The foundations for successful crop growth are laid when harvesting the previous crop. By tilling the stubble immediately after harvest, you can use the moistness of the soil, which was protected from the sun by the stems. Fast tilling ensures the reliable and even germination of volunteer plants and weeds. The basis for success here is a short interval between the harvest and sowing. Whether the farming is done by using a minimum-tillage system or a conventional method it is irrelevant.

**A DISC DIAMETER
 OF 520 × 5 mm / 560 × 5 mm**

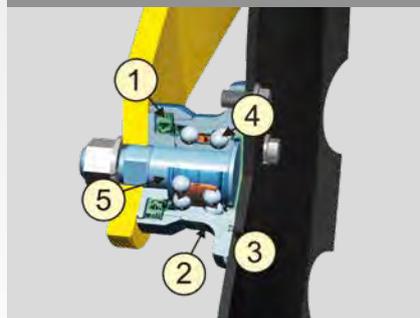
The standard model of SWIFTERDISC cultivators is fitted with serrated discs with a dimension of 520 × 5 mm. For an additional fee, you can have the machine fitted with serrated discs with a dimension of 560 × 5 mm or aggressively profiled A-discs.



**MAINTENANCE-FREE
 AXIAL BEARINGS**

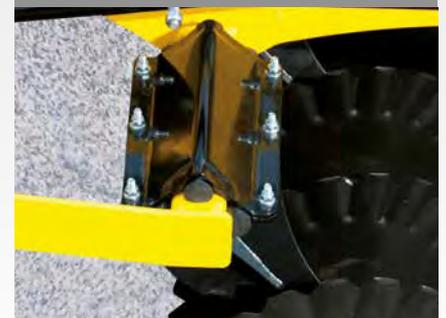
Axial ball bearings with oblique contact are encased with two static, one dynamic cassette and four rib seals in a solid metal body.

- 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!



SWIFTERDISC

Precise stubble cultivation



Stable tillage, flat land

For tillage, a level surface must be maintained both horizontally to the direction of work and along the direction of work. To achieve flat land without mounds, the machine must operate smoothly and in a stable manner. Any unwanted movement of the machine through, e.g. rocking, creates an uneven field. Till with the stable SWIFTERDISC with its cleverly positioned centre of gravity.



SIDE SHIELDS

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



FRONT HYDRAULIC PADDLE LEVELLING BARBAR – CRUSHBAR

The SWIFTERDISC XO_F, XE and XE_PROFI 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 be adjusted using the rear roller and the front supporting wheels.



Packers and rollers



TUBE PACKER

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

weight: 121 kg/m
diameter: 635 mm



STEEL RING PACKER

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

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



V-RING PACKER

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

weight: 169 kg/m (including the scraper system)
diameter: 630 mm



U-RING PACKER

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

weight: 122 kg/m (including the scraper system)
diameter: 500 mm



DOUBLE U-RING PACKER

A dual-row steel packer with self-cleaning effect, excellent crumbling and low tack thanks to the "U" rim profile.

weight: 230 kg/m
diameter: 600 mm



DOUBLE ROLLER

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

weight: 132 kg/m
diameter: 470+370 mm

SWIFTERDISC

Better quality work



A-DISCS: A new dimension to work quality

Specially shaped discs of 520 mm/560 mm in diameter and a wall thickness of 5 mm 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 TWIN-DISC ENSURES A BETTER THROUGHPUT

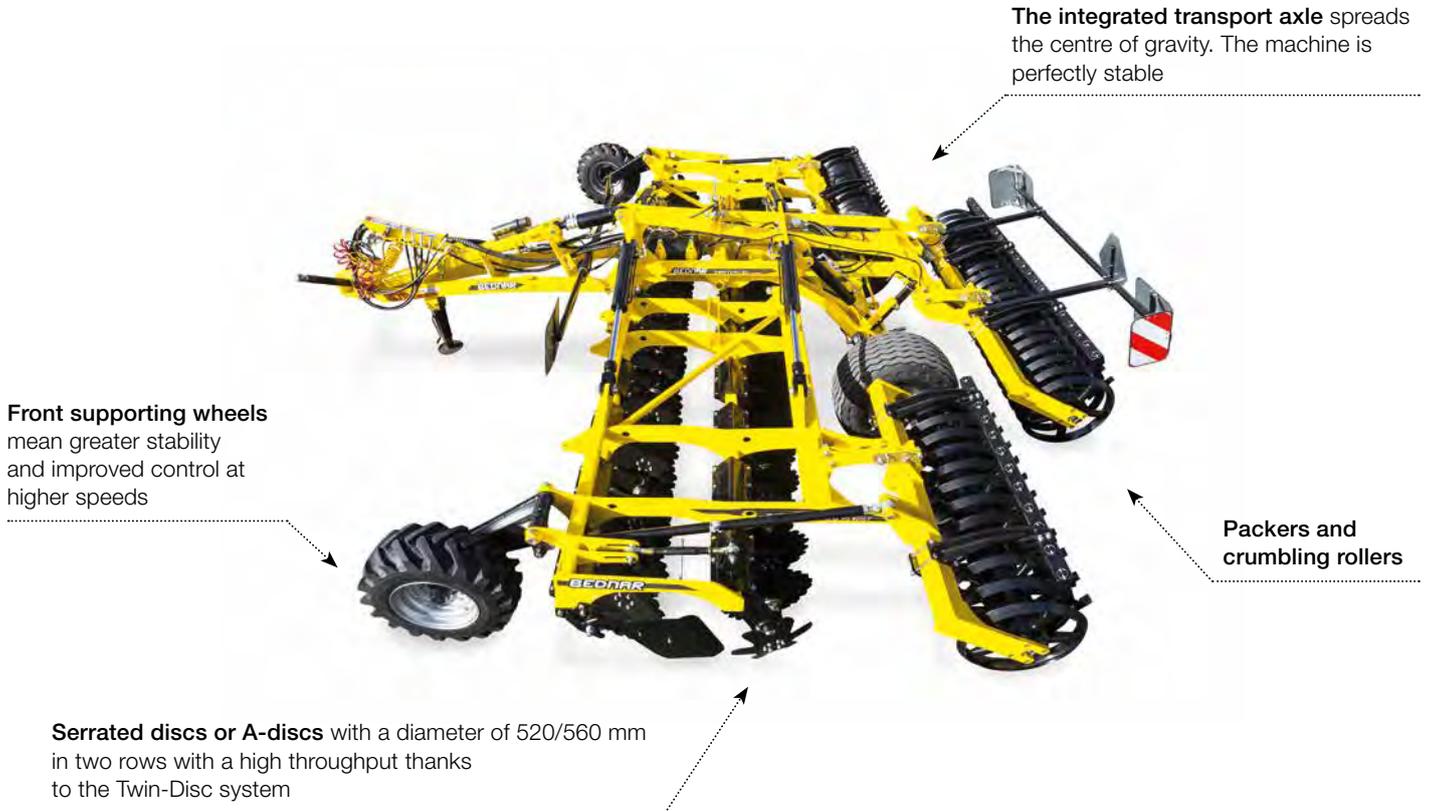
The discs work in pairs on one arm. This solution means the distance between each arm is larger (50 cm). This results in more space for the material to pass through the machine. The machine can work smoothly even when the combine has left clumps of straw on the field. SWIFTERDISC cuts it up, spreads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



SWIFTERDISC XO_F, XN
Major benefits

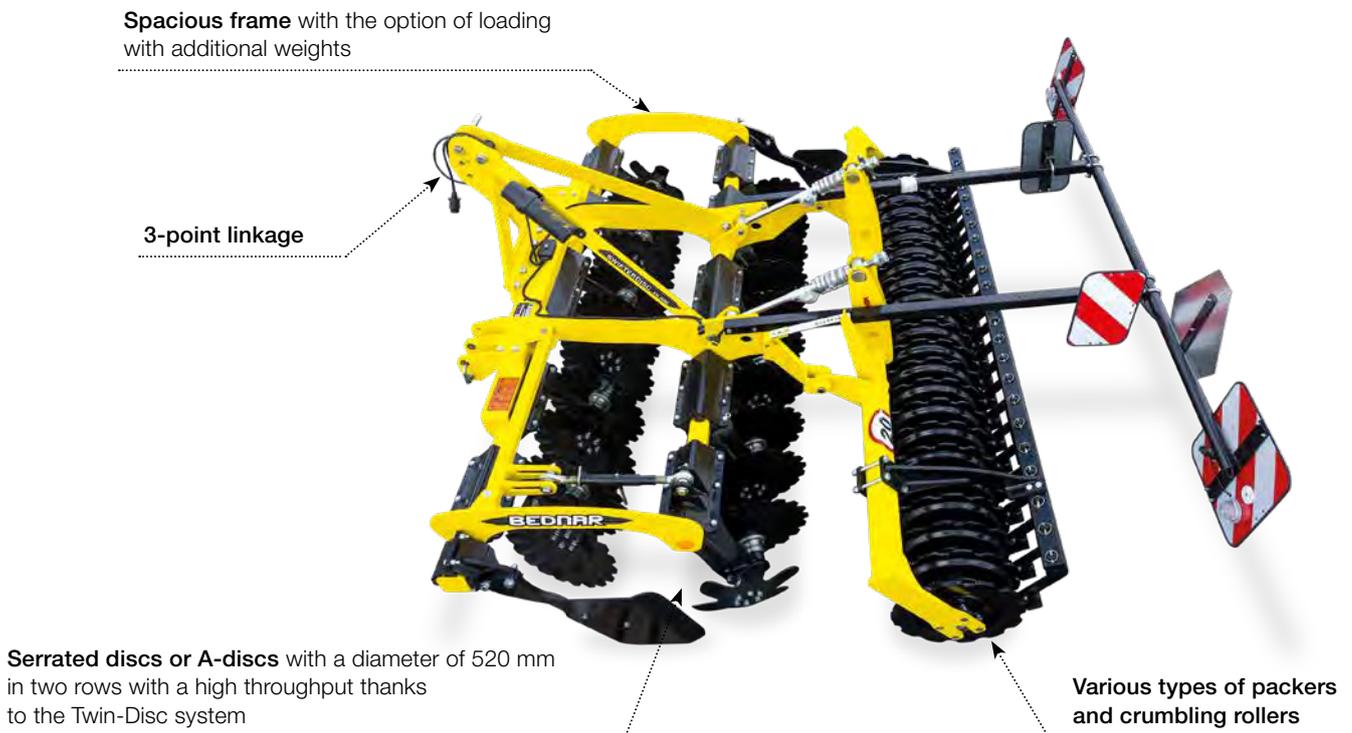
SWIFTERDISC XO_F

The tractor, not the tool, controls the operating speed...
 ...with increasing speeds, the quality of work increases too!



SWIFTERDISC XN

A compact cultivator for smaller fields and hilly terrain...
 ...short, adept and fast = a good cultivator!



SWIFTERDISC XE
Major benefits

SWIFTERDISC XE

An exact working depth over the cultivator entire operating width... speed unlimited!

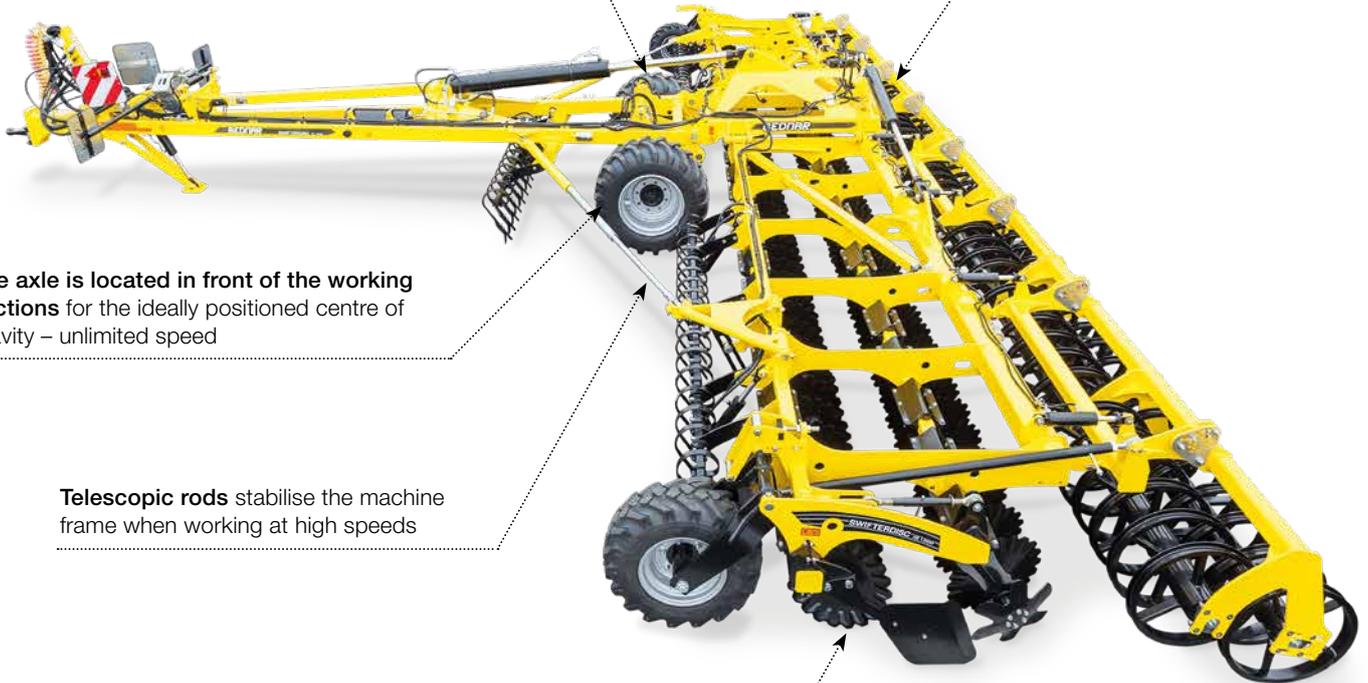
The exact working depth is the same over the whole operating width thanks to the equal pressure which is applied to the discs, even at the edge of the cultivator due to the axle being positioned in front of the disc section

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 with a diameter of 520/560 mm in two rows with a high throughput thanks to the Twin-Disc system



Lupofyt s.r.o. Chrastany
district Rakovník (Czech Republic)



area: 1 940 ha
machine: SWIFTERDISC XE 10000

"What stands out for me as a great benefit of the machine compared to its competitors is its stability and sturdiness, even at higher speeds; the machine doesn't jump, working depth is always the same evenly over the whole profile and thanks to its high working speed it covers the plant residue perfectly, never mind its daily output."

Milan Hlavacek, machine operator

SWIFTERDISC XN series



BEDNAR SWIFTERDISC XN is a disc cultivator suitable for tractors ranging from 85 to 180 HP

- mounted machine
- operating widths of 3, 3.5, 4, 5 m
- rigid or folds upwards, having two side frames

SWIFTERDISC		XN 3000	XN 3500	XN 4000	XN 4000R	XN 5000
Working width	m	3	3.5	4	4	5
Transport width	m	3	3.5	3	4	3
Transport length	m	3	3	3	3	3.3
Working depth*	cm	2-12	2-12	2-12	2-12	2-12
Number of discs	pcs	22/24**	28	32	30	40
Diameter of discs	mm	520	520	520	520	520
Total weight**	kg	1,650-2,050	1,800-2,200	2,390-3,240	2,035-2,430	3,000-3,900
Recommended output*	HP	85-115	110-130	130-150	130-150	150-180

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

3-POINT LINKAGE

Connect it to the tractor quickly and effortlessly by using a 3-point linkage.



EASILY ADJUSTABLE WORKING DEPTH

It is easy to set the working depth by using hydro-clips. A constantly maintained working depth guarantees high quality tillage.



COMFORTABLE TRANSPORT

Transport on public roads and through the fields is comfortable and safe.



SWIFTERDISC XO_F series



BEDNAR SWIFTERDISC XO_F is a disc cultivator suitable for tractors ranging from 120 to 340 HP

- semi-mounted machine
- operating widths of 4, 4.5, 5, 6, 7.5 m
- folds upwards having two side frames

SWIFTERDISC		XO 4000 F	XO 4500 F	XO 5000 F	XO 6000 F	XO 8000 F
Working width	m	4	4.5	5	6	7.5
Transport width	m	3	3	3	3	3
Transport length	m	6.9	6.9	6.9	6.9	7.4
Working depth*	cm	2-12/4-14	2-12/4-14	2-12/4-14	2-12/4-14	2-12
Number of discs	pcs	32	36	40	48	60
Diameter of discs	mm	520/560	520/560	520/560	520/560	520
Total weight**	kg	3,680-5,860	3,890-6,350	4,110-6,860	4,490-7,570	5,720-9,000
Recommended output*	HP	120-160	140-170	170-220	200-260	290-340

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

FRONT SUPPORTING WHEELS

The supporting wheels help maintain a constant working depth even at high operating speeds. It also helps prevent the machine from rocking.



THE INTEGRATED AXLE

The axle located in front of the packers balances the centre of gravity and reduces the turn radius at the headlands.



FOLDING THE MACHINE

The SWIFTERDISC XO_F can be folded upwards along the central frame, having two side frames. It has a transport width up to 3 m.



SWIFTERDISC XE series



BEDNAR SWIFTERDISC XE

is a disc cultivator suitable for tractors ranging from 300 to 450 HP

- a trailed machine
- operating widths of 10 and 12.4 m
- folds forwards along the drawbar

SWIFTERDISC		XE 10000	XE 12400
Working width	m	10	12.4
Transport width	m	3	3
Transport length	m	7.5-8.7	8.1-9.2
Working depth*	cm	2-12	2-12
Number of discs	pcs	80	96
Diameter of discs	mm	520	520
Total weight**	kg	7,700-9,300	8,600-10,800
Recommended output*	HP	300-350	400-450

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

HEADLAND TURNS

At the headlands, the machine can turn by raising the working sections using the main hydraulic cylinder. Fast, easy, effective.



FOLDS FORWARD

The operating section can easily be folded forwards along the drawbar, giving the machine very small transport dimensions. It's fast, secure and user-friendly. The compact dimensions of the folded machine help to manipulate it.

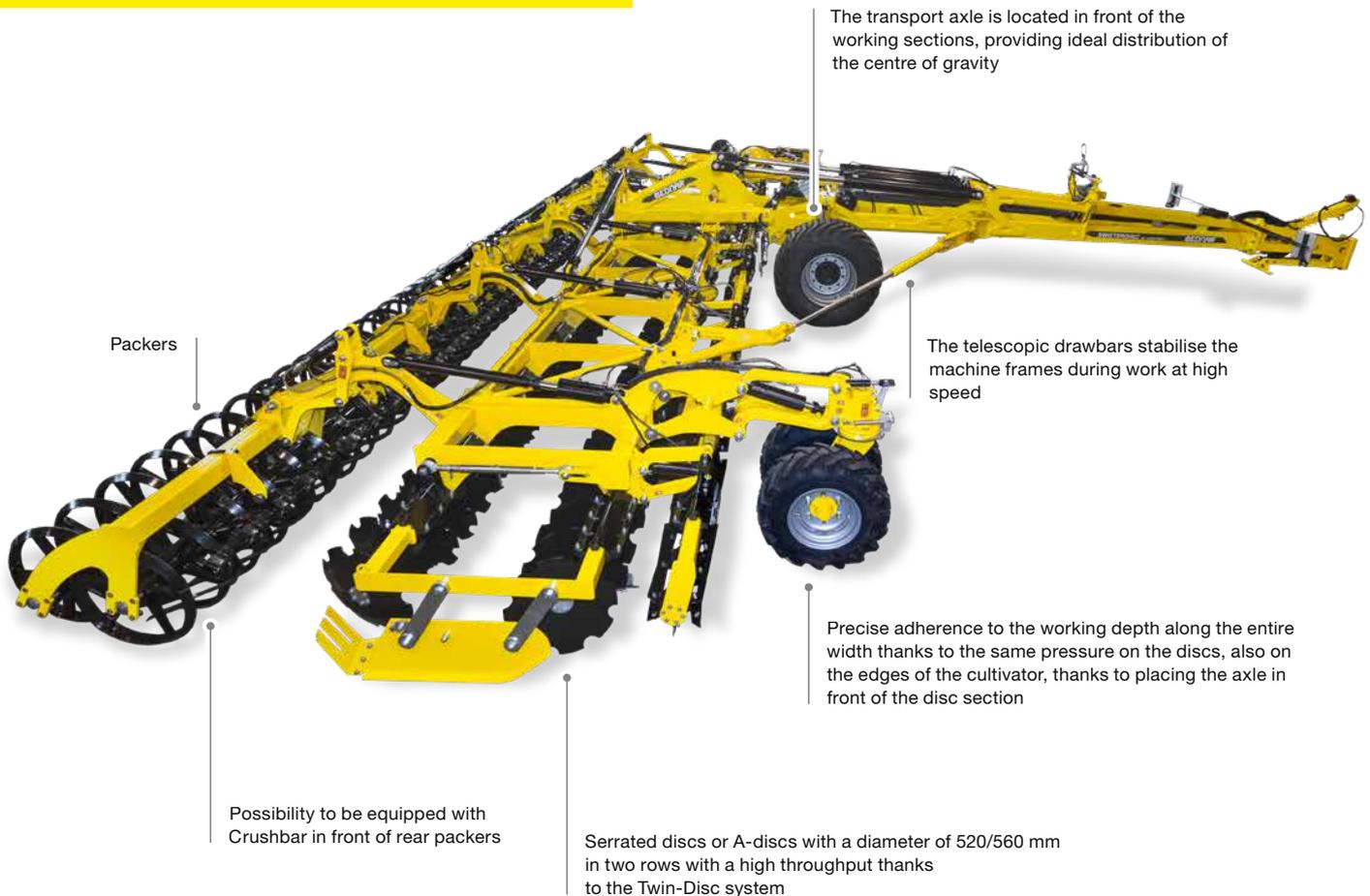


A COMPACT TRANSPORT SIZE

Its compact transport size assures you of simple transport along public roads – the machine transport length is 8.6 m, width of 3 m and height 4 m.



SWIFTERDISC XE PROFI



BEDNAR SWIFTERDISC XE_PROFI

is a disc cultivator suitable for tractors ranging from 350 to 500 HP

- a trailed machine
- operating widths of 10 and 12.4 m
- folds forwards along the drawbar

SWIFTERDISC		XE 10000 PROFI	XE 12400 PROFI
Working width	m	10	12.4
Transport width	m	3	3
Transport length	m	7-8	8-9
Working depth*	cm	2-12/4-14	2-12/4-14
Number of discs	pcs	80	99
Diameter of discs	mm	520/560	520/560
Total weight**	kg	9,500-12,000	10,500-13,000
Recommended output*	HP	350-450	400-620

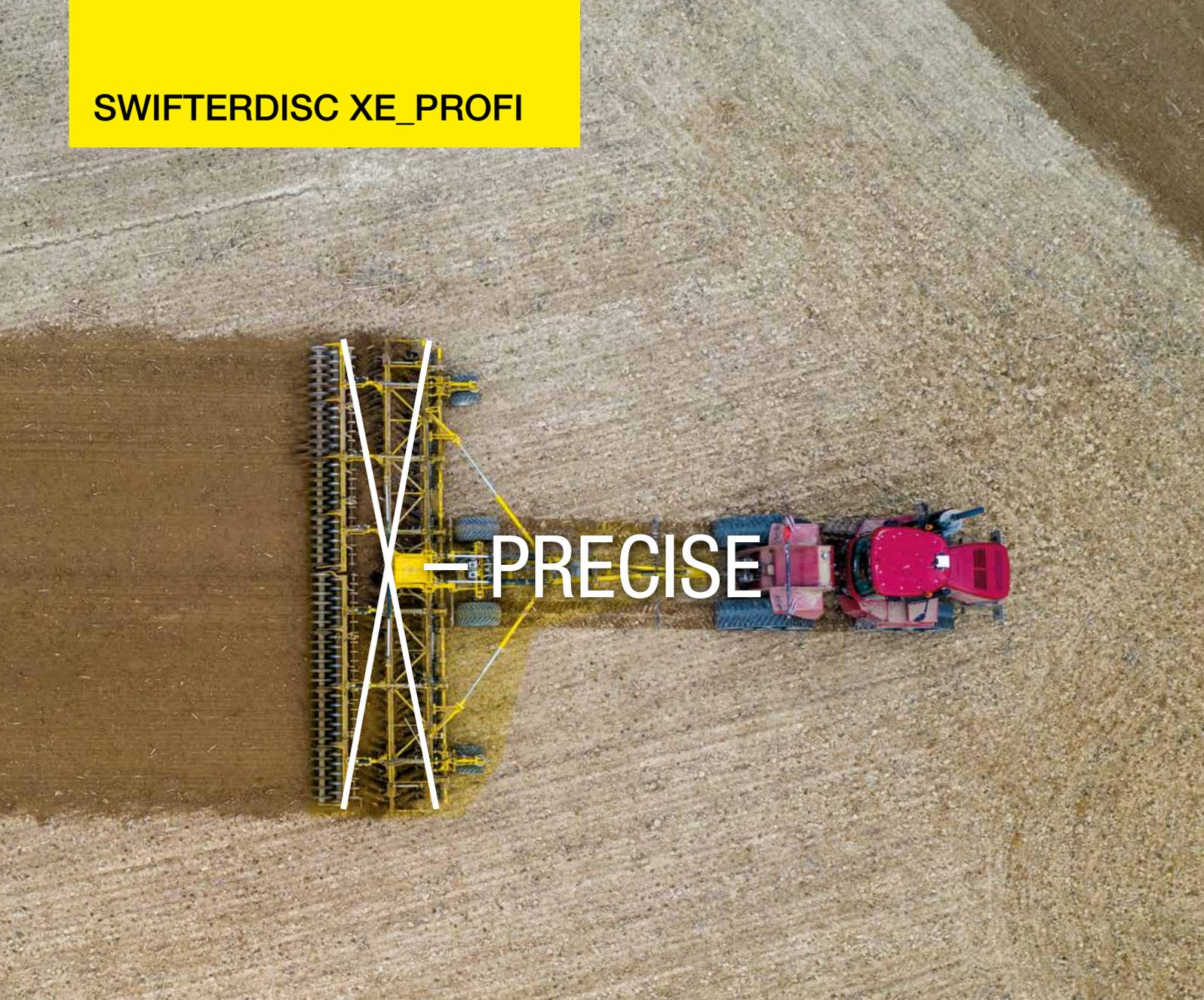
* depends on soil conditions ** depends on the machine accessories



ADVANTAGES OF ELECTROHYDRAULIC MACHINE CONTROL

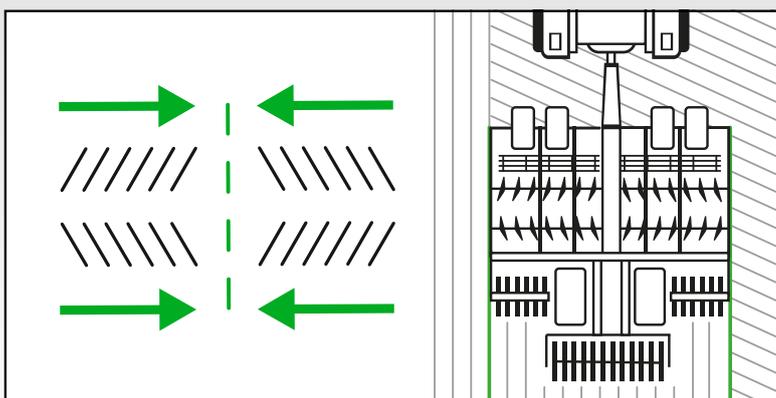
- **ISOBUS** Compatible.
- **Fully automatic** fold/unfold sequence with one button.
- **All operating parameters** are set only by entering the terminal values. The hydraulic cylinders are automatically adjusted to the correct position.
- **Immediate adjustment of the machine** for different soil properties.
- **Possibility to adjust working depth** and other machine settings when driving from the tractor cab.
- **Relief function** - used when the tractor does not have enough power, for example uphill.
- **SECTION CONTROL** - automatic lifting and countersinking at headland.
- **Loadsensing** - ensures that the hydraulic pump in the tractor always runs optimally.

SWIFTERDISC XE_PROFI



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 PROFÍ.



X-PRECISE system provide precise guidance of the machine in the tractor tracks

DRILL MACHINE ALFA DRILL

CORE BENEFITS

- Sows cover crops and grasses, combines the workflows.
- Limits soil erosion.
- Increases the nitrogen in the soil due to the cover crops.
- Improves the soil structure by intercropping.
- Increases biological activity.



ALFA DRILL is a seed drill unit for sowing cover crops or grasses and can be mounted on various types of BEDNAR machines. The hopper which has a capacity of 400 l or 800 l is easily accessible via a comfortable stairway, allowing for an easy refill. In the area under the metering system we can find the metering shaft, which can, depending on type of seeds or on quantity of seeding volume, be equipped with standard metering rollers or rollers for fine seeds.

ALFA DRILL		ALFA 400	ALFA 800		
Capacity	l	400	800		
Dimension of feed opening	mm	380	770 x 530		
Filling height	cm	117	144		
Hydraulic oil quantity	l/min	24	24		
Total weight*	kg	150	230		

*acc. to the equipment



**SIMPLE AND SAFE ACCESS
TO THE HOPPER**



DISTRIBUTION TERMINAL



HOPPER 400 L / 800 L



SWIFTERDISC

Table of daily output



Daily output of SWIFTERDISC XE, XE_PROFI machines



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

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