

EXTREM STANDARD

COMBINATION SEED-HARROW

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COMBINATION SEED-HARROW
**EXTREM
STANDARD**



Standard Equipment EXTREM, STANDARD

48 mm line spacing on harrow section
64 mm line spacing on section with mini seed-bed tines
5 rows per section
Transport width 2.50 m – 3.00 m
Pressure bars for weighing down sections
EXTREM with 2-row serrated crumblers Ø 320 mm and 280 mm (ball bearing with triple seal)
STANDARD without serrated crumbler or with 1-row serrated crumbler Ø 280 mm (with slide bearing)
Crumbler axles can be unscrewed
Rapid coupling bar EXTREM 3.60 m STANDARD 3.90 m
EXTREM starting at working width of 3.90 m, lower link and top link are provided with hardened wear-resistant bushings, as well as lower link bolts guided on both sides
STANDARD from 4.90 m, lower link bolts are guided on both sides
Locking end position of the side wings: EXTREM 3.60 m – 4.90 m automatically mechanical STANDARD 3.90 m – 4.90 m mechanical with bolts EXTREM over 5.40 m by dual-active cylinder and locking plate STANDARD 5.80 m dual-active cylinder and locking plate
2-component varnish
Parking support
Operating instructions

Optional Equipment EXTREM, STANDARD

Track loosener spring mounted
Safety track loosener with pressure spring and 70 mm duckfoot share (only for EXTREM)
Levelling plates
Normal straight tines with changeable share
Warning sign and lights
Wooden protector on the side for the transport on the road (mandatory only for STANDARD)

Due to the specially designed frame with high quality harrow sections or sections with mini seed-bed tines with a line space of 48 cm and 64 cm an excellent intense mixing of the seedbed is achieved. Rough crumbling above and light soil below in connection with a good reconsolidation through the serrated crumbler provides excellent germination conditions with an optimal seed deposit.

Depending on its use all machines are deliverable with harrow sections or sections with mini seed-bed tines (straight tines and S-shaped tines).

The harrow sections, which are suspended on chains, are designed for use in predominantly heavy soil conditions without stones and in autumn up to a working depth of 8 cm.

The mini seed-bed sections with S-tines, also suspended on chains are ideal for use up to a working depth of 8 cm in light, rocky and sandy soil conditions in springtime.

The mini seed-bed section with straight tines and changeable share (available only for EXTREM) which are firmly hung into the frame, are suitable for use up to a working depth of 10 cm in heavy, rocky and also light soil conditions. Through the firm attachment of the sections the working depth can be kept constant, making them universal sections.

EXTREM and STANDARD are not suitable for the seedbed preparation of wintergreen vegetation areas nor for mixing in liquid manure nor for eliminating Couch grass. For these kinds of tasks please refer to our VIBROSTAR, TAIFUN and TWISTER brochures!



EXTREM STANDARD

A PERFECT SEEDBED

AND AN INCREASED OUTPUT

The increasingly precarious cost and labour situation of farmers requires equipment that is highly efficient and flexible and still yields top results. In seedbed preparation, trailing or hitched appliances are of great importance next to the PTO-driven machinery in all areas of secondary soil cultivation for grain, rape, potatoes and other row-planted crops as well.

Neither the weather nor fertiliser or chemicals can undo damage caused by mistakes in seedbed preparation. Well-planned cultivation will get the soil into a state of mellowness which will best activate the mineral fertiliser. Neglecting field preparation can result in a massive increase in weeds leading to crop loss of 20% and more. Thus correct soil preparation is essential to create the best possible environment for the seeds to be planted and to supply enough nutrients and space for roots and organisms.

Cultivation equipment should therefore provide

- a levelling of the surface
- adequate penetration through the tools
- loosening and crumbling
- closing and reconsolidating the soil

We offer a number of appliances that do these jobs in an excellent way.

The seedbed combination EXTREM with a 2-row serrated crumbler is predominantly used for seedbed preparation in light or heavy soil depending on the tool equipment.

The seedbed combination STANDARD however, which is available without or with a 1-row serrated crumbler, is mostly used for towing.

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GETTING JOY OUT OF SOIL PREPARATION





SIMPLY STRONG

INNOVATIVE, RELIABLE TECHNOLOGY



EXTREM:

From working width of 3.90 m, lower link and top link are provided with hardened wear-resistant bushings, as well as lower link bolts guided on both sides.

STANDARD:

From working width of 4.90 m lower link bolts are guided on both sides.

The spring-suspended **track looseners** can be adjusted simply to the track width. In order not to bring too much soil moisture to the surface they shouldn't be set too deep.



Only a perfect seedbed results in high yields.

Therefore a precise setting of the machine is necessary.

Also the **levelling plate** must be adapted exactly to the soil conditions: It is height-adjustable with a bolt. The integrated adjustment settings ("drag" or "grip") will cause it to squash the clods, level the surface and even out the tractor tracks. The tools run very smoothly and the working depth remains exactly the same. The levelling plate is a useful tool especially for springtime seedbed preparation. A shear-off bolt protects it from overload.

The **safety track looseners**

(only available for EXTREM) are protected against overload with a pressure spring and feature a 70 mm duckfoot share as standard equipment. Recommended for rocky soil!

Standard **rapid coupling bar** for EXTREM 360 and also for STANDARD 390.



PRECISE ADJUSTMENT IT PAYS

Adjustment of the working depth of seedbed combination **EXTREM** with a spindle and a connecting frame between the 2-row serrated crumbler and the working section.

Working depth adjustment of seedbed combination **STANDARD** with 1-row serrated crumbler by hole grid.



Technical Data EXTREM

Type/Working-width cm	Hydraulic-connection*	sections	HP/kW	Weight approx. kg	Distribution of sections measurements in m
EXTREM 360	EW	3	70/51	850	1.20/1.20/1.20
EXTREM 390	EW	4	80/59	970	0.96/0.96/0.96/0.96
EXTREM 440	EW	4	90/66	1.010	0.96/1.20/1.20/0.96
EXTREM 490	EW	4	100/74	1.100	1.20/1.20/1.20/1.20
EXTREM 540	DW	4	120/88	1.320	1.20/1.44/1.44/1.20
EXTREM 580	DW	4	130/95	1.500	1.44/1.44/1.44/1.44
EXTREM 690	DW	6	140/103	1.760	0.96/0.96/1.44/1.44/0.96/0.96
EXTREM 830	DW	6	160/118	2.640	1.20/1.44/1.44/1.44/1.44/1.20

* EW = single acting; DW = double acting

Technical Data STANDARD

Type/Working-width cm	Hydraulic-connection*	sections	HP/kW	Weight approx. kg**	Distribution of sections measurements in m
STANDARD 390	EW	4	75/55	800	0.96/0.96/0.96/0.96
STANDARD 490	EW	4	95/70	905	1.20/1.20/1.20/1.20
STANDARD 580	DW	6	115/85	1.210	0.96/0.96/0.96/0.96/0.96/0.96

* EW = single acting; DW = double acting

** with 1-row serrated crumbler

Technical data and specifications are approximate and without obligation. Construction and design are subject to change.



MODERN SEEDBED PREPARATION

KNOW-HOW RESULTS IN SUCCESS

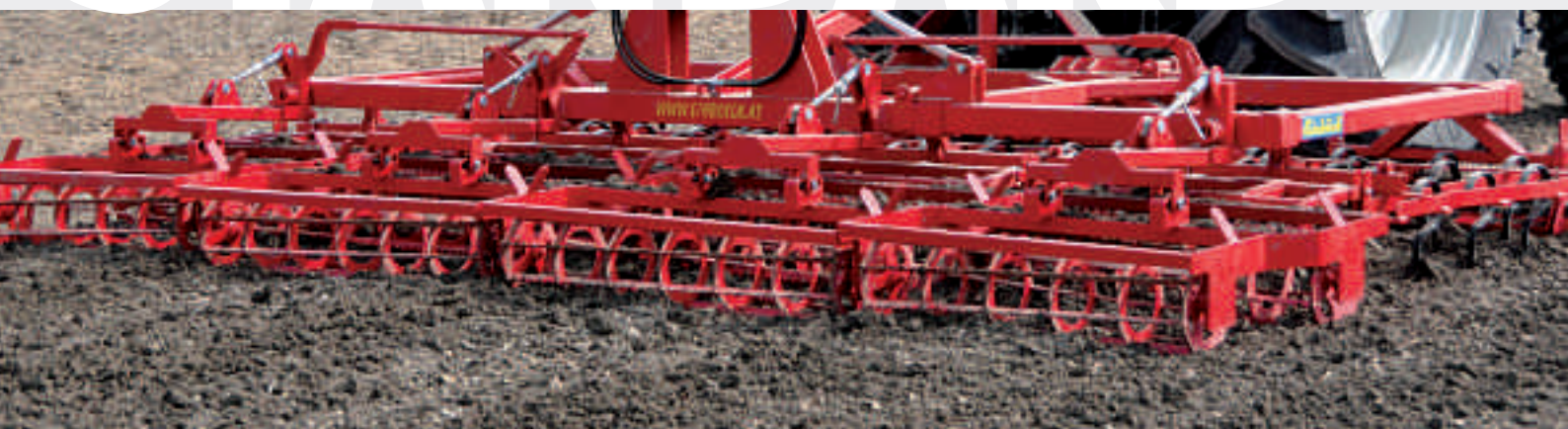
- ▶ Robust, closed profile frame with favourable centre of gravity, for a long product lifetime
- ▶ Low traction point for good penetration of the working tools as well as constant tool guidance
- ▶ Perfect traction force and lifting capacity transmission due to support of attachment bracket towards the back
- ▶ Optimal penetration even in heavy soil and exact control of working depth by pressure bars (serial equipment)
- ▶ On EXTREM bearings are lubricable and strongly stressed parts equipped with wear-resistant bushings
- ▶ EXTREM features the hydraulic European retraction system, so no lateral swing will develop during transport; transport width always under 3.00 m
- ▶ Best crumbling with serrated crumbler
- ▶ The right working tool for every soil type and soil consistence



On the **STANDARD** seedbed combination the harrow section is turnable, as the STANDARD will be used predominantly for towing.

Dimension of tines:
Square 20x20 mm with
M16 coil
Pass 220 mm

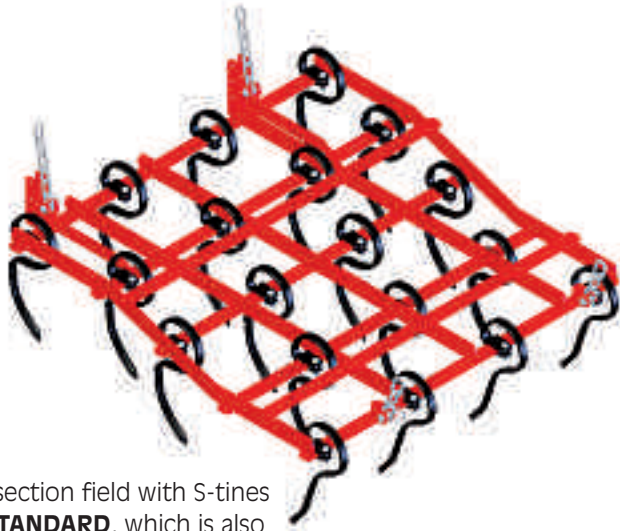
EXTREM STANDARD



The Seedbed combination **EXTREM** with 2-row serrated crumbler and mini-seedbed section field with straight tines is firmly attached. Because of the closed frame construction more weight will be put on the serrated crumblers, therefore a better crumbling (rough crumbling above and light soil down) is achieved. More weight in the rear also effects a better reconsolidation.



Seedbed combination **STANDARD** with 1-row serrated crumbler and turned sections with mini seed-bed tines (for towing) hung in rugged frame construction.

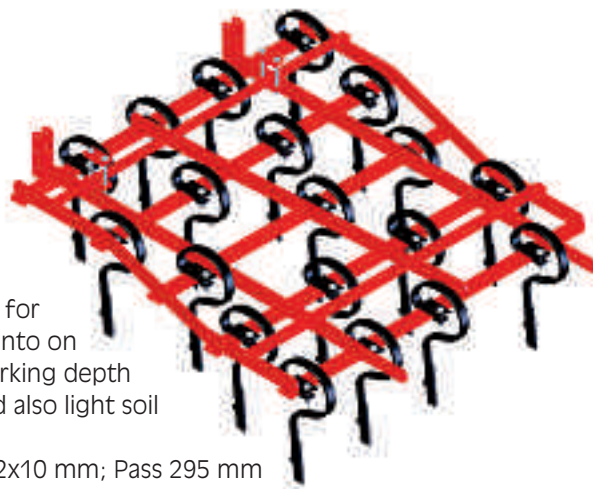


This mini seedbed section field with S-tines for **EXTREM** and **STANDARD**, which is also hung up on chains, will be used for a working depth of up to 8 cm on light, rocky and sandy soil conditions. Flat stock 27x10 mm Pass 275 mm

THE RIGHT CHOICE YIELDS **RECORD** **RESULTS**



The harrow sections of **EXTREM**, which are suspended on chains, will be used for heavy soil conditions and in the autumn till a working depth of 8 cm. Dimension of tines: Square 20x20 mm with M16 coil; Pass 220 mm

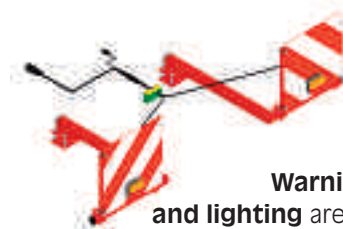


The mini seed-bed section fields with straight tines and changeable share (available only for **EXTREM**) which are firmly hung into on the frame, will be used for a working depth up to 10 cm on heavy, rocky and also light soil conditions. Dimension of tines: Flat stock 32x10 mm; Pass 295 mm





LOCKING MECHANISM IN WORKING POSITION



**Warning signs
and lighting** are available
for an additional charge.

On the STANDARD seedbed combination with a working width of 3.90 m to 4.90 m the side wings will be **locked mechanically with a bolt**.

On EXTREM seedbed combination with a working width of 3.60 m till 4.90 m the side wing will be **mechanically locked automatically**.

From working widths STANDARD 5.80 m and EXTREM 5.40 m the working position will be locked through dual-active cylinder and **locking block**.



EXTREM STANDARD

ON A CLEAR PATH TOGETHER AND DETERMINED TO SUCCESS

The STANDARD seedbed combination without a crumbler can be refitted with a 1-row serrated crumbler anytime.

Transport position
EXTREM



STANDARD



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