

Einböck

**When tillage
is joy!**

TILLAGE

**SEEDBED COMBINATION
EXTREM**

**SEEDBED CULTIVATOR
VIBROSTAR**

**BLADE CULTIVATOR
TAIFUN (XXL)**

**UNIVERSAL CULTIVATOR
HURRICANE**

**FRONT ROLLER
FRONT-STAR & FRONT-SPIKE**



CONTENTS

SEEDBED COMBINATION EXTREM

PAGE 4-15

CONSTRUCTION

arable harrow, mini seedbed or double arable harrow tine section

LINE SPACING

4.8 | 6.4 | 10.5 cm (1.89 | 2.52 | 4,13") line spacing

WORKING RANGE*

fine seedbed preparation
dragging & levelling
aerating soil and let it dry out
(e.g. for moist, clay soils)
slurry incorporation

WORKING EFFECT*

loosening, mixing, crumbling & levelling

SOIL TYPE*

light, medium, heavy, sandy

WORKING DEPTH*

up to 8 cm (3.15")

PRACTICAL EXAMPLE

seedbed preparation
working depth 8 cm (3.15")
mini seedbed tine
exchangeable share



PRACTICAL EXAMPLE

seedbed preparation
working depth 6 cm (2.36")
arable harrow tine section
square tine



SEEDBED CULTIVATOR VIBROSTAR

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CONSTRUCTION

4 or 5 beams

LINE SPACING

10 cm (3.94") line spacing

WORKING RANGE*

seedbed preparation
slurry incorporation
dragging & levelling
light cultivation on cover crops
cutting the full surface
seeding cover crops with seeder P-BOX-STI

WORKING EFFECT*

loosening, (cutting,) mixing, crumbling & levelling

SOIL TYPE*

light, medium, heavy, sandy, stony

WORKING DEPTH*

up to 12 cm (4.72")

PRACTICAL EXAMPLE

light tillage on cover crops
working depth 6 cm (2.36")
heavy S-tine
duckfoot sweep



PRACTICAL EXAMPLE

slurry incorporation
working depth 9 cm (3.54")
heavy S-tine
standard sweep



* Varies depending on crumbler, tine type, soil type, preparation

BLADE CULTIVATOR TAIFUN

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CONSTRUCTION

4 beams

LINE SPACING

15 cm (5.91") line spacing

WORKING RANGE*

shallow tillage
 stubble cultivation
 cutting the whole surface
 shallow tillage of cover crops
 seeding cover crops with seeder P-BOX-STI
 rough seedbed preparation

WORKING EFFECT*

cutting, mixing, loosening & crumbling

SOIL TYPE*

light, medium, heavy, sandy, stony

WORKING DEPTH*

up to 15 cm (5.91")

PRACTICAL EXAMPLE

stubble cultivation
 working depth 5 cm (1.97")
 Hercules tine
 duckfoot sweep

PRACTICAL EXAMPLE

cultivation on cover crops
 working depth 12 cm (4.72")
 Hercules tine, standard sweep
 made from carbide metal

**UNIVERSAL CULTIVATOR HURRICANE**

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CONSTRUCTION

4 beams

LINE SPACING

20 cm (7.87") line spacing

WORKING RANGE*

stubble cultivation
 cultivation of cover crops
 cultivation of clover grass
 cutting the whole surface
 seeding cover crops with seeder P-BOX-STI
 deep tillage

WORKING EFFECT*

cutting, mixing, loosening & crumbling

SOIL TYPE*

light, medium, heavy, sandy

WORKING DEPTH*

up to 25 cm (9.84")

PRACTICAL EXAMPLE

stubble cultivation
 working depth 7 cm (2.76")
 standard tine
 duckfoot sweep

PRACTICAL EXAMPLE

primary tillage
 working depth 22 cm (8.66")
 standard tine
 narrow share







SEEDBED COMBINATION EXTREM



SEEDBED COMBINATION EXTREM

The seedbed combination EXTREM was designed for seedbed preparation on various soil types, especially on ploughed land. The perfect combination of fine and coarse soil particles creates a structure that does not tend to sludge.

The specification of the tine sections and rear rollers, which is designed to meet the customer's soil conditions, ensures ideal depth control. This creates the perfect seed horizon, which forms the basis for optimum seed emergence. Also in heavy soil conditions, a level surface and a fine seedbed are ensured.

The robust and closed frame guarantees smooth operation, stability and user-friendly adjustment.

Type	Working width cm/ft.	Sections	Tine spacing mm/inch / no. of tines	from HP/kW	Weight approx. kg / lbs
EXTREM 400 E ¹⁾	380/12.50	4	48/1.89 / 80	90/66	1770-1820 kg 3903-4013 lbs
EXTREM 400 G ¹⁾	380/12.50	4	64/2.52 / 60	90/66	1760-1820 kg 3881-4013 lbs
EXTREM 400 2E	380/12.50	8	48/1.89 / 160	90/66	1550 kg 3418 lbs
EXTREM 400 KS-2FZ	380/12.50	4	105/4.13 / 36	90/66	1750 kg 3859 lbs
EXTREM 500 E ¹⁾	480/15.70	4	48/1.89 / 98	110/81	1950-2020 kg 4299-4454 lbs
EXTREM 500 G ¹⁾	480/15.70	4	64/2.52 / 76	110/81	1940-2020 kg 4277-4454 lbs
EXTREM 500 2E	480/15.70	8	48/1.89 / 196	110/81	1780 kg 3924 lbs
EXTREM 500 KS-2FZ	480/15.70	4	105/4.13 / 46	110/81	1930 kg 4255 lbs
EXTREM 600 E ¹⁾	580/19.00	4	48/1.89 / 120	140/103	2090-2180 kg 4608-4807 lbs
EXTREM 600 G ¹⁾	580/19.00	4	64/2.52 / 92	140/103	2100-2200 kg 4630-4851 lbs
EXTREM 600 2E	580/19.00	8	48/1.89 / 240	140/103	1980 kg 4366 lbs
EXTREM 600 KS-2FZ	580/19.00	4	105/4.13 / 56	140/103	2080 kg 4586 lbs
EXTREM 700 E ¹⁾	680/22.30	6	48/1.89 / 136	170/125	2680-2830 kg 5909-6240 lbs
EXTREM 700 G ¹⁾	680/22.30	6	64/2.52 / 106	170/125	2700-2810 kg 5953-6195 lbs
EXTREM 700 2E	680/22.30	12	48/1.89 / 272	170/125	2430 kg 5358 lbs
EXTREM 700 KS-2FZ	680/22.30	6	105/4.13 / 64	170/125	2690 kg 5931 lbs
EXTREM 800 E ¹⁾ G ¹⁾ 2E KS-2FZ	780/25.60	6 / 12	48/1.89 / 158 64/2.52 / 122 48/1.89 / 316 105/4.13 / 74	200/147	2710-3070 kg 5975-6769 lbs

E = Harrow sections instead of crumbler
G = Mini seedbed tine section
2E = 2x arable harrow tine section
KS = Straight tine section

1) Optionally with 2ZW = Double serrated crumbler Ø 320 mm and 280 mm
or 2FZ = Flat rod crumbler Ø 380 mm and serrated crumbler Ø 320 mm



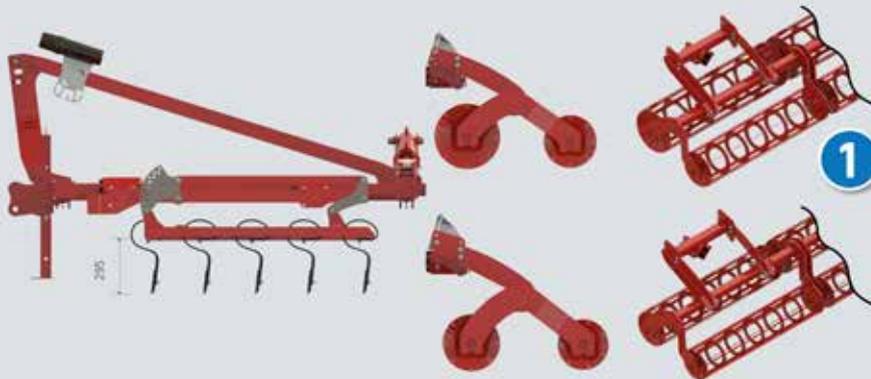
STANDARD EQUIPMENT

- ✓ Frame and crumblers are protected against vibration via rubber buffers
- ✓ Working depth parallel adjustable via a breadboard
- ✓ Closed, compact steel-tube frame
- ✓ Lower links guided on both sides
- ✓ Lower and upper links are equipped with hardened bushings
- ✓ Double acting hydraulic cylinders for folding - transport lock for fixing transport & working position
- ✓ Side wings adjustable - rigid or floating
- ✓ Mounting category CAT. II + III
- ✓ Screwed crumbler axles
- ✓ Ball bearing mounted crumblers
- ✓ Parking support
- ✓ Transport width 3 m / 9.80 ft.
- ✓ Holder for track loosener and levelling plate

OPTIONS

- Spring mounted track loosener
- Safety track loosener
- Side-plate on both sides
- 1-row trailed weeder tines Ø 8 mm / 0,31"
- Levelling plate
- Warning signs with holder and LED-light

CONCEPT EXTREM



Section with mini seedbed tines with flat rod- & serrated crumbler



Section with straight tines with flat rod- & serrated crumbler



Section with arable harrow tines with flat rod- & serrated crumbler



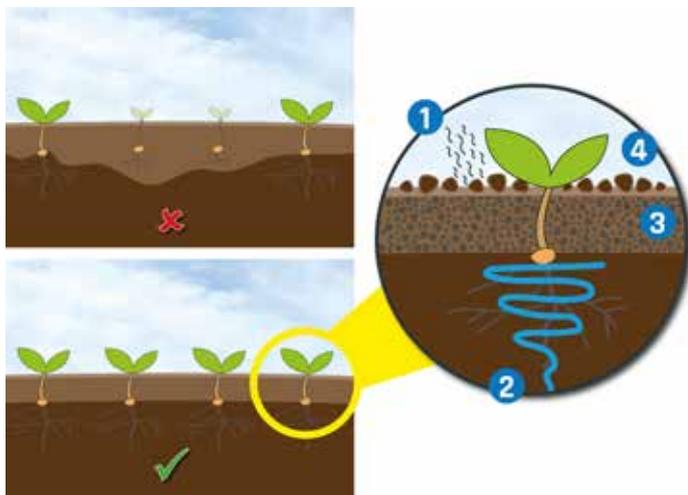
Double section with arable harrow tines (without roller)

ADVANTAGES EXTREM

TECHNIQUE FOR A PERFECT SEEDBED

In order to ensure precise seed placement, growing conditions and emergence the seedbed combination EXTREM offers the following advantages:

- » Precise levelling of the soil surface
- » Exact depth guidance of the working tools
- » Uniform breaking up and crushing of the soil
- » Perfect mixing of fine soil and coarse crumbs
- » Optimal soil reconsolidation as well as compact seedbed



PREPARING THE IDEAL SEEDBED

Perfect seedbed preparation requests ideal technology. The seedbed combination EXTREM mixes fine soil with coarse crumbs, which prevents sludging and water evaporation. Particularly important in this respect is the correct crumbler, but also the front levelling plates. To ensure that the seed can be placed between the crumbled (top) and consolidated (lower) layer of soil a compact, smooth-running machine which precisely keeps the working depth is needed.

1. Air and heat
2. Water
3. Fine soil
4. Coarse soil crumbs

MANY DIFFERENT COMBINATION POSSIBILITIES

In order to specify the best possible seedbed combination for the different soil types and conditions there is the possibility to combine many different working sections. In this way, the best machine for every field of application, as well as for every objective in soil tillage and seedbed preparation can be offered.



ADVANTAGES EXTREM

SIMPLE, PARALLELOGRAM-GUIDED AND FAST ADJUSTMENT OF THE WORKING DEPTH

The working depth of the sections is adjusted parallel to the ground via the breadboard. This ensures fast and simple, but still precise adjustment of the working tools. In addition, this ensures there is no need to readjust the 3-point-linkage of the tractor when the working depth is changed.



2-ROW CRUMBLERS FOR A CRUMBLY AND RECONSOLIDATED SURFACE

Double crumblers with different diameters follow the tine sections to ensure a perfect seedbed. As they rotate at different speeds, the crumbling effect is perfect. Serrated crumblers improve this effect in comparison to flat steel crumblers. A single row of trailed weeder tines is available as an option on all crumblers.

BRACING TO THE REAR FOR ENOUGH SOIL PRESSURE

In order to be able to increase pressure to the trailed implements (crumblers), the bracing of the three-point linkage is designed directly to the coupling points of the crumblers.



RETRACTION, CENTRE OF GRAVITY AND TRACTION POINT

The low traction point ensures good retraction of the working tools in the soil and smooth guidance of the machine. This guarantees optimum immersion and exact maintaining to the working depth even in heavy soil conditions.



BEARINGS AND MOUNTING OF THE FOLLOWING CRUMBLERS

The large-dimensioned, low-maintenance and completely sealed and protected ball bearings guarantee a long service life of the crumblers. The rubber buffers, which connect the crumblers to the mainframe ensure obstacles (e.g. stones) do not lift the working sections - this again ensures a quiet operation and increases service life.

UNIQUE COMBINATION OF "HARROW-HARROW"

In heavy, wet, sticky soil conditions without stones the combination harrow-harrow is most recommended. Two harrow sections are mounted one behind the other, each of them in the front is fixed to the frame with chains.



DETAILS EXTREM

RUBBER SUSPENSIONS FOR DURABILITY

The frame, as well as the crumblers, are very well protected against vibrations via rubber suspensions. The machine works more dynamically and there is less force on the frame. The quiet mode of operation extends the service life considerably.



HYDRAULIC FOLDING FOR TRANSPORT WIDTH LOWER THAN 3 METRES

All EXTREM machines have been designed to achieve a transport width of less than 3 m / 9.80 ft. In addition, the design ensures that the machine does not sway or swing during road transport, which in turn increases durability.

SIDE WINGS ADJUSTABLE VIA HANDLES

The side wings can be easily adjusted from completely rigid to floating via handles. If the handles are removed, the wings can float downwards.



SAFETY HYDRAULIC LOCK BLOCK

The safety hydraulic lock block fixes the hydraulic folding mechanism in working- or transport position. This guarantees a rigid frame over the entire working width during operation in the field or safe road travel at all times.

OPTIONS EXTREM

SPRING MOUNTED LEVELLING PLATE FOR PERFECT SOIL LEVELLING

The spring mounted levelling plate of the seedbed combination (on variant 2E only the rigid variant is possible) is height-adjustable and can therefore be precisely adjusted to the field conditions. The possibility to adjust the position ("trailed" or "forward") will crush the clods, level the surface and even out the tractor tracks. The tools are running very smoothly and the working depth remains exactly the same. The levelling plate is a useful tool especially for springtime seedbed preparation.



SIDE-PLATE ON BOTH SIDES

In order to prevent soil being pushed sideways on the already worked area optionally side plates are available for both sides (for 2ZW/2FZ).

SPRING MOUNTED TRACK LOOSENER (1)

The spring mounted track loosener 32x12 mm / 1.26x0.47" (1) can be easily adjusted to the track width.

Safety track loosener 50x15 mm / 1.97x0.59" with duckfoot sweep 70 mm / 2.76" (2)

For stony soil conditions optional safety track loosener, which are secured against overload by a pressure spring, are available. They are equipped with 70 mm / 2.76" duckfoot sweeps. Both track loosener can be adjusted in height depending on the desired intensity.



1-ROW TRAILED WEEDER TINES

An optionally available single-row of trailed weeder tines ensure a good distribution of organic matter on the surface. It also increases as final tool the exactitude and precision of the machine.

THE RIGHT COMBINATION EXTREM

E-2ZW: Arable harrow tine section + serrated crumbler Ø 320 mm / 12.60" and Ø 280 mm / 11"

Arable harrow tine section, 5-rows, firmly mounted, height adjustable + small serrated crumblers for heavy soils and good crumbling

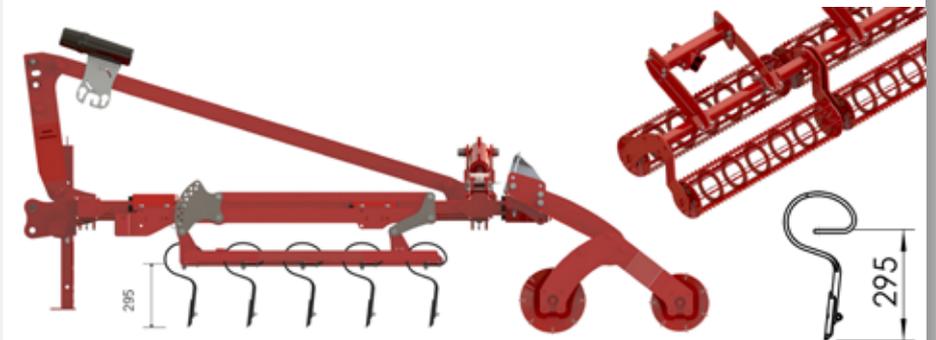
Tine: arable harrow tine 20x20 mm / 0.79x0.79" M18



G-2ZW: mini seedbed tine section + serrated crumbler Ø 320 mm and Ø 280 mm

Mini seedbed tine section with spring tines, 5-rows, firmly mounted, height adjustable + little serrated crumblers for medium soils

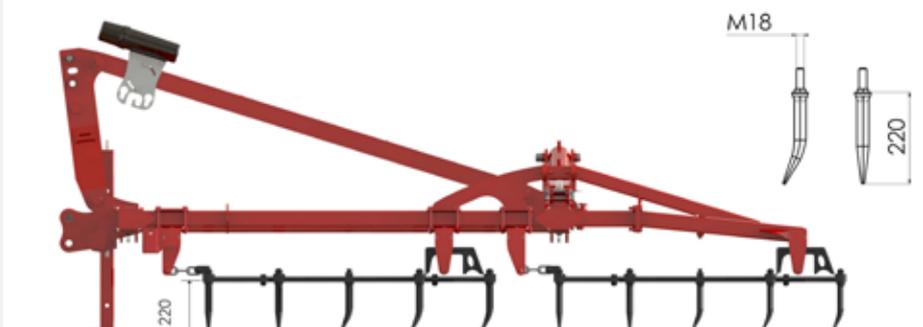
Tine: mini seedbed tine straight with changeable sweep 32x10 mm / 1.26x0.39"



2E: 2x harrow tine sections

Two arable harrow tine sections, 5-rows, in the front fixed with chains to the frame, rear guided, for heavy, sticky soil without stones up to working depth of 8 cm / 3.15"

Tine: arable harrow tine 20x20 mm / 0.79x0.79" M18



E-2FZ: Arable harrow tine section + flat rod crumbler Ø 380 mm / 14.96" + serrated crumbler Ø 320 mm / 12.60"

Arable harrow tine section, 5-rows, firmly mounted, height adjustable + big flat rod- and serrated crumbler for medium soil, flat rod crumbler ensures high load capacity

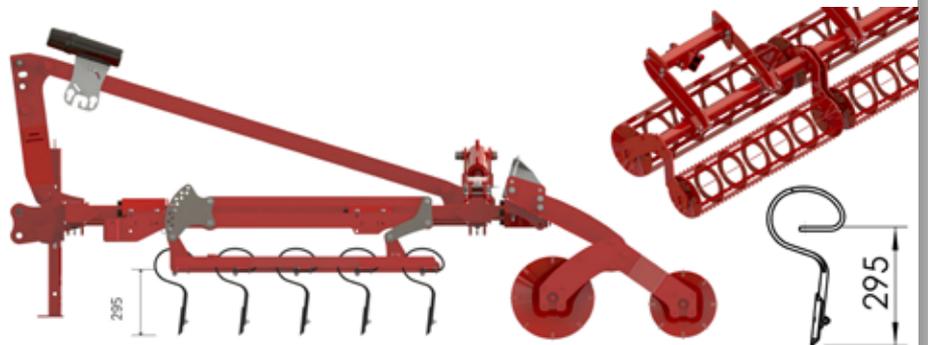
Tine: Arable harrow tine 20x20 mm / 0.79x0.79" M18



G-2FZ: mini seedbed tine section + flat rod crumbler Ø 380 mm / 14.96" + serrated crumbler Ø 320 mm / 14.96"

Mini seedbed tine section with spring tines, 5-rows, firmly mounted, height adjustable + big flat rod- and serrated crumbler for light to sandy soils, flat rod crumbler ensures high load capacity

Tine: mini seedbed tine straight with changeable point 32x10 mm / 1.26x0.39"



KS-2FZ: straight tine section with special tines + flat rod crumbler Ø 380 mm / 14.96" + serrated crumbler Ø 320 mm / 12.60"

Tine section with straight spring tines, 4-rows, firmly mounted, height adjustable + big flat rod- and serrated crumbler, high frame clearance, deeper working, light harvest residues possible

Tine: special tine straight with changeable point 32x12 mm / 1.26x0.47"







**SEEDBED CULTIVATOR
VIBROSTAR**



SEEDBED CULTIVATOR VIBROSTAR

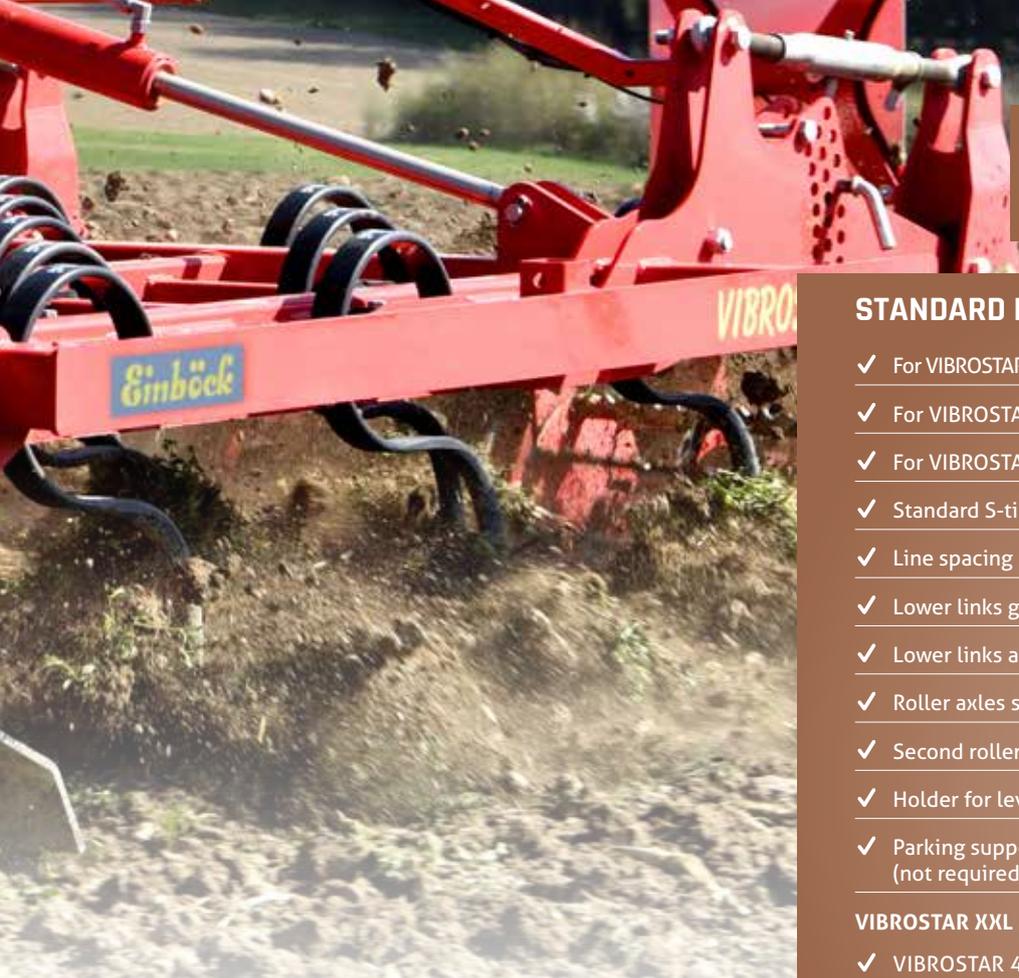
The VIBROSTAR seedbed cultivator is designed for professional and user-friendly seedbed preparation. It is mainly used for light to medium-heavy soils. The light cultivator creates the perfect seedbed and ensures optimum levelling on ploughed or mulch seeded fields with organic matter. The special design of the frame and the high-quality spring tines which are mounted to the frame with a line spacing of 10 cm / 3.90" ensure intensive soil mixing with excellent soil flow. This ensures that the machine can handle a high amount of residue without getting blocked.

Depending on the field conditions and cultivation objective, the cultivator is available with 4 or 5 row tine arrangement, tines with various different shapes and lengths as well as different trailed weeder. The version with 4-row frame is also available with a front roller.

Type	Working width cm/ft.	No. of tines	from HP/kW	Weight approx. kg / lbs	
4 rows	VIBROSTAR 4-390	390/12.80	39	85/62	1290 kg 2844 lbs
	VIBROSTAR 4-450	450/14.80	45	90/66	1370 kg 3020 lbs
	VIBROSTAR 4-490	490/16.10	49	100/74	1430 kg 3153 lbs
	VIBROSTAR 4-550	550/18.00	55	120/88	1650 kg 3638 lbs
	VIBROSTAR 4-610	610/20.00	61	140/103	1780 kg 3925 lbs
	VIBROSTAR 4-810 ¹⁾	810/26.60	81	180/132	3440 kg 7584 lbs
	VIBROSTAR 4-1210 ²⁾	1210/39.70	121	240/176	7500 kg 16535 lbs
5 rows	VIBROSTAR 5-400	400/13.10	40	90/66	1470 kg 3241 lbs
	VIBROSTAR 5-500	500/16.40	50	120/88	1930 kg 4255 lbs
	VIBROSTAR 5-600	600/19.70	60	150/110	2340 kg 5159 lbs
4 rows + FR	VIBROSTAR F-4-450	450/14.80	45	110/81	2250 kg 4961 lbs
	VIBROSTAR F-4-490	190/6.20	49	120/88	2360 kg 5203 lbs
	VIBROSTAR F-4-550	550/18.00	55	140/103	2680 kg 5909 lbs
	VIBROSTAR F-4-610	610/20.00	61	160/118	2840 kg 6262 lbs

1) with 2 rubber support wheels on the side-wing

2) double folding frame, standard trailed with bolted chassis, with 4 rubber support wheels mounted on the side and external wing



STANDARD EQUIPMENT

- ✓ For VIBROSTAR 4-... + VIBROSTAR F-4-... = tine arrangement in 4 rows
- ✓ For VIBROSTAR 5-... = tine arrangement in 5 rows
- ✓ For VIBROSTAR 5-... = tube in tube frame construction
- ✓ Standard S-tine with long service life
- ✓ Line spacing 10 cm/3.90"
- ✓ Lower links guided on both sides
- ✓ Lower links and upper links equipped with hardened bushings
- ✓ Roller axles screwable; all rollers with ball bearings
- ✓ Second roller extra adjustable
- ✓ Holder for levelling plate
- ✓ Parking support for VIBROSTAR 4-... hydraulic foldable (not required for other frame versions!)

VIBROSTAR XXL (1210):

- ✓ VIBROSTAR 4-1210 with semi-mounted frame
- ✓ Rubber support wheels on the side wings for even depth control

VIBROSTAR F-4-...

- ✓ Heavy S-tine
- ✓ Front roller flat rod design Ø 380 mm / 14.96" or round rod Ø 380 mm / 14.96"
- ✓ Levelling plate



OPTIONS

Track loosener

VIBRO-BOARD for VIBROSTAR XXL and VIBROSTAR 5-... (hydraulically adjustable)

Trailed weeder tines 1- or 2-row

Levelling plate (standard on VIBROSTAR F-4-...)

Stone protection for central bearings

Tine reinforcement

Special tine straight; heavy S-tine

Duckfoot sweeps 70 mm/2,76" or 105 mm/4,13" (for heavy S-tines)

Rubber support wheels

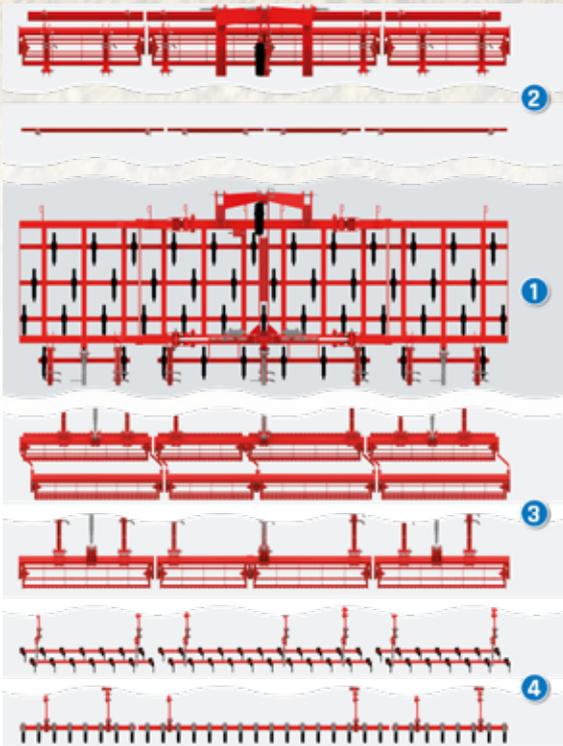
Warning signs with holder and LED lighting

Pneumatic seeder P-BOX-STI (not for XXL)

For VIBROSTAR 5-... side plate on both sides

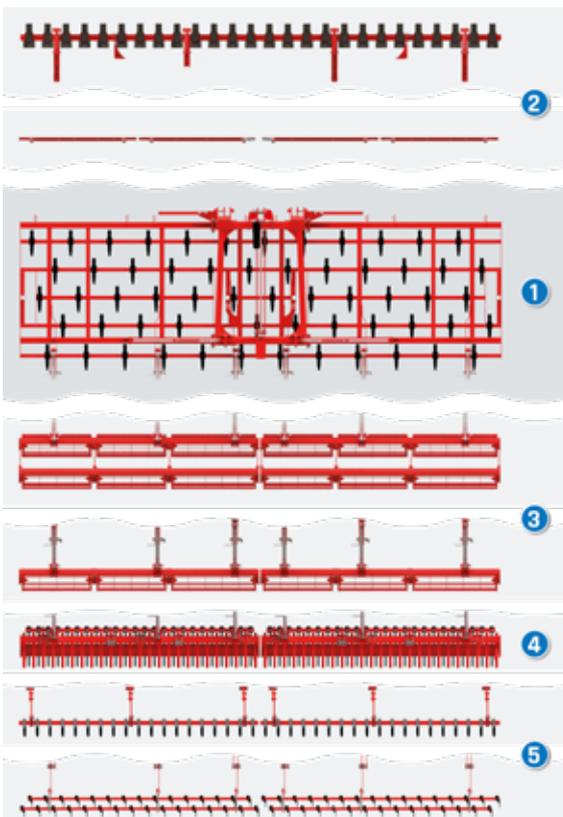
For VIBROSTAR 5-... double drag tines

CONCEPT VIBROSTAR



Frame with 4-rows of tines

1. 4-row frame structure with 10 cm / 3.90" line spacing and 36.5/42 cm (14.40/16.50") spacing between beams
2. Levelling plate or front roller (front crumbler up to 6.1 m / 20 ft. working width)
3. Different rear rollers and roller diameters (serrated, flat steel, round-rod)
4. Trailed weeder tines 1- or 2-row



Frame with 5-rows of tines

1. 5-row frame structure with 10 cm / 3.90" line spacing and 36.5/39 cm (14.40/15.40") spacing between beams
2. Levelling plate or VIBRO-BOARD
3. Different rear rollers and roller diameters (serrated, flat steel, round-rod)
4. Ring packer roller
5. Trailed weeder tines 1- or 2-row

ADVANTAGES VIBROSTAR

FINEST SEEDBED PREPARATION

Even seedbed preparation and levelling on ploughed or mulch-till fields with organic matter. Ideal for seedbed preparation even on compacted soil, as clods are placed on the surface and fine soil is placed in the seed layer. The different rollers for precise depth control ensure excellent mixing as well as crumbling.



SUFFICIENT CLEARANCE

Up to 52 cm / 20.50" of clearance (depending on working depth and choice of tines) ensures operation without blocking.

10 CM / 3.90" LINE SPACING ENSURES PERFECT WEED CONTROL

In order to cut through the entire surface, when equipped with heavy S-tines, 105 mm / 4.13" wide duckfoot sweeps can be fitted. These provide sufficient overlap at 100 mm / 3.94" line spacing to ensure working over the full surface.



VIBRO-BOARD FOR BEST WORKING QUALITY

A hydraulically adjustable VIBRO-BOARD ensures initial levelling in front of the tines as well as breaking up and crushing of the clods. This way, the foundation for excellent working quality of the seedbed cultivator is already ensured by the first working tool.

Available for VIBROSTAR XXL and VIBROSTAR 5-...

ADVANTAGES & DETAILS VIBROSTAR

LEVELLING PLATE FOR PERFECT FLAT SURFACE

The levelling plate, adjustable in height and angle, levels the surface. The cultivator's working tools are guided smoothly during operation. By adjusting it on "dragging" or "on grip" position, it crushes the clods and levels it out. The levelling plate is recommended especially for seedbed preparation on ploughed fields in spring. In combination with the front roller, this plate is standard.



SIMPLE WORKING DEPTH ADJUSTMENT

The working depth is adjusted by means of bolts in a breadboard. With the spindle, the downforce on the rollers can be adjusted to the specific conditions. The result is a reconsolidated seedbed with an optimally crumbly structure. Even in heavy soil conditions, the cultivator guarantees optimum penetration and an exact constant working depth. The vibrating spring tines cultivate and aerate the soil at any desired working depth. They vibrate as well in the direction of operation as laterally, thus ensures that the desired working depth is maintained at all times.

FLAT SEEDBED PREPARATION WITH FRONT ROLLER

In some working widths (see table: Technical data), the VIBROSTAR seedbed cultivator is also available as an implement with front roller. This makes the machine ideal for very shallow seedbed preparation (e.g. for sugar beets). For improved depth control, the height of the front roller can be adjusted precisely and easily by means of bolts in a breadboard.



UNCOMPLICATED SEEDING OF CATCH CROPS

For seeding of catch crops, a pneumatic seeding box (P-BOX-STI) can be installed or retrofitted at any time. The distribution plates are factory-fitted in front of the trailing rollers (but can also be positioned differently on request).

SOLID THREE-POINT MOUNTING

The 3-point mounting is equipped with hardened bushings and the lower links are guided on both sides.



BIG VARIETY OF DIFFERENT SPECIFICATIONS

The large number of different levelling tools in combination with various tines, sweeps and trailed weeder tines make the VIBROSTAR a fine cultivator that can be individually adapted to the respective conditions and purposes. In this way, the best specification to achieve the desired result can be found.

TRANSPORT POSITION

All models are folded hydraulically to a transport width of less than 3 m / 9.80 ft.
The VIBROSTAR XXL has a transport width of 3.5 m / 11.50 ft.

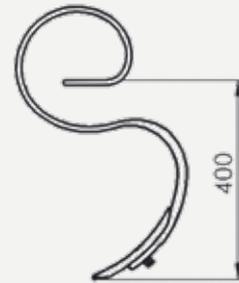


THE RIGHT TINES VIBROSTAR

STANDARD S-TINE

Standard S-tine material 32x10 mm / 1.26x0.39"

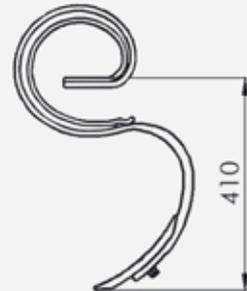
For medium to light soil conditions - recommended in ploughed fields. This tine is available for VIBROSTAR 4-... and VIBROSTAR 5-... as standard and has a frame clearance of 400 mm / 15.75". These are equipped with narrow shares.



STANDARD S-TINE WITH REINFORCEMENT SPRING

Material 32x10 mm / 1.26x0.36" + 32x8 mm / 1.26x0.39"

For medium to heavy, stony soil conditions - can be used after ploughing.



HEAVY S-TINE

Material 45x12 mm / 1.77x0.47" - For all soil conditions, can be used after ploughing (for spring use, for incorporation of winter greening, etc.). This tine is mounted as standard on VIBROSTAR F-4-....



SPECIAL TINE STRAIGHT

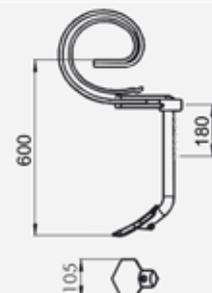
Material 45x12 mm / 1.77x0.47" - For medium to light soil conditions (corn and beet cultivation), especially in stony soil conditions.



TRACK LOOSENER HEIGHT ADJUSTABLE

with duckfoot sweep 105 mm / 4.13"

Material 32x10 mm / 1.26x0.39" + 32x10 mm / 1.26x0.39"



OPTIONS VIBROSTAR

DUCKFOOT SWEEP 70 MM / 2.76" OR 105 MM / 4.13" (ONLY POSSIBLE WITH HEAVY S-TINE)

Duckfoot sweeps with 70 mm / 2.76" or 105 mm / 4.13" width can be mounted on heavy S-tines to cut the full-surface.



RUBBER SUPPORT WHEELS FOR UNIFORM DEPTH CONTROL

Depending on the version, rubber support wheels are available (standard on VIBROSTAR XXL).

LEVELLING PLATE

In order to level the ground before the first row of tines, optional levelling plates can be mounted, which can be adjusted at an angle.

(Standard at VIBROSTAR F-4-...)



VIBRO-BOARD

Mounted on the frame of a trailed VIBROSTAR XXL or 5-row VIBROSTAR, this VIBRO-BOARD is easy to operate from the tractor thanks to its hydraulic adjustment. Furthermore it ensures levelling before the first row of tines.

THE RIGHT CRUMBLER VIBROSTAR

1 ZW: 1-ROW SERRATED CRUMBLER Ø 320 mm / 12.60"
For medium to light soil conditions

**2 ZW: 2-ROW SERRATED CRUMBLER
Ø 320 mm/12.60" / Ø 280 mm / 11.02"**
For medium to heavy soil conditions



1 F: 1-ROW FLAT STEEL CRUMBLER Ø 380 mm / 14.96"
For medium soil conditions

**2 FZ: 2-ROW CRUMBLER, 1st ROW FLAT STEEL Ø 380 mm /
14.96", 2nd ROW SERRATED CRUMBLER Ø 320 mm / 12.60"**
For medium soil conditions



1 R: 1-ROW ROUND ROD CRUMBLER Ø 380 mm / 14.96"
For medium to light soil conditions, in wet conditions, with stones

**2 RZ: 2-ROW CRUMBLER, 1st ROW ROUND ROD Ø 380 mm /
14.96", 2nd ROW SERRATED CRUMBLER Ø 320 mm / 12.60"**
For medium to light soil conditions, for sandy and wet conditions.



**2 R: 2-ROW ROUND ROD CRUMBLER Ø 380 mm/14.96" / Ø 380
mm / 14.96"**
(only available for VIBROSTAR XXL)
For medium to light soil conditions, for sandy, stony and wet conditions.

**2 RF: 2-ROW ROLLER, 1st ROW ROUND ROD Ø 380 mm / 14.96",
2nd ROW FLAT ROD Ø 380 mm / 14.96"**
(only available for VIBROSTAR XXL)
For medium to light soil conditions.

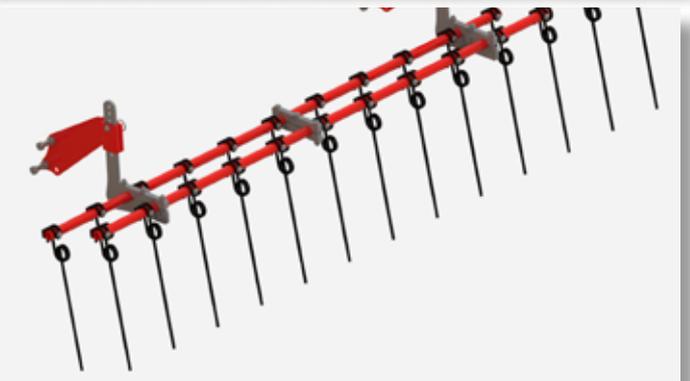


RP 47: RING PACKER ROLLER Ø 470 MM / 18.50" WITH 2-ROW TRAILED WEEDER TINES
(only available for VIBROSTAR 5-rows)
Wedge-shaped reconsolidation on all soil types for a fine soilstructure.



2ST: 2-ROW TRAILED WEEDER TINES WITH Ø 10 mm / 0.39" INSTEAD OF CRUMBLER
(only available for VIBROSTAR 5-rows)
Without rear roller - no reconsolidation of the soil. For very wet, sandy or stony soil conditions.

There are 4 support wheels mounted on the frame - as standard.



Type	1 ZW	2 ZW	1 F	1 R	2 F	2 R	2 FZ	2 RZ	2 RF	2 ST
VIBROSTAR 4-390 - 4-610	✓	✓	✓	✓	-	-	✓	✓	-	-
VIBROSTAR 4-810 - 4-1210	-	-	-	-	✓	✓	✓	✓	✓	-
VIBROSTAR 5-400 - 5-600	✓	✓	✓	✓	-	-	✓	✓	-	✓
VIBROSTAR F-4-450 - F-4-610	✓	✓	✓	✓	-	-	✓	✓	-	-



For every soil and for a wide range of conditions, the right crumbler and working tools are available!





BLADE CULTIVATOR TAIFUN



BLADE CULTIVATOR TAIFUN

The blade cultivator TAIFUN is a multi-purpose, highly efficient machine. It is a classic machine for seedbed preparation due to its high and spacious frame construction – especially for areas with catch crops and winter greening. The incorporation of liquid manure and organic fertilizer, as well as light and shallow stubble turning or second stubble cultivation and the combat of couch grass are ideal jobs for the TAIFUN.

Due to the ultra-flat cutting with duckfoot sweeps with a line spacing of 15 cm / 5.90", the TAIFUN blade cultivator is the perfect machine for a successful first mechanical weed control. The many possible combinations (e.g. shares, rollers, trailed weeder tines, support wheels, etc.) allow the blade cultivator to be optimally adapted to many different conditions.



The allrounder for cutting the whole surface shallow.

Type/ Working width cm / ft.	No. of beams	Tines	No. of double drag tines	from HP/kW	Weight approx. kg / lbs
TAIFUN 250 / 8.20 ^{1,2)}	4	17	4	70/52	850 - 1130 kg 1874 - 2492 lbs
TAIFUN 300 / 9.80 ^{1,2)}	4	20	5	90/66	960 - 1250 kg 2117 - 2756 lbs
TAIFUN 400 / 13.10 ¹⁾	4	26	6	110/81	1530 - 1960 kg 3374 - 4322 lbs
TAIFUN 500 / 16.40 ¹⁾	4	34	8	130/95	1740 - 2260 kg 3837 - 4983 lbs
TAIFUN 600 / 19.70 ¹⁾	4	40	10	160/118	1880 - 2450 kg 4145 - 5402 lbs
TAIFUN 700 / 23.00 ¹⁾	4	46	12	190/140	2260 - 3000 kg 4983 - 6614 lbs

1) units optionally available with the following crumblers: F, R, ST, FZ, RZ, RP47
2) rigid frame

STANDARD EQUIPMENT

- ✓ Large spring tines Vulcanus 50x13 mm / 1.97x0.51" with standard share 53 mm / 2.09"
- ✓ Large frame dimension
- ✓ Lower links guided on both sides
- ✓ Mounting category CAT II + III
- ✓ Lower and upper links are equipped with hardened bushings
- ✓ Tine arrangement 4 rows
- ✓ Line spacing 15 cm / 5.90"
- ✓ Transport width 2.7 m / 8.90 ft. (TAIFUN 300 = 3 m / 9.80 ft.)
- ✓ Spring-mounted double drag tines between the last tine row and the rear roller
- ✓ Parking position for double drag tines
- ✓ Crumblers parallelogram-guided and height-adjustable in the half breadboard
- ✓ All rear rollers equipped with ball bearings
- ✓ 1 double-acting hydraulic valve is necessary

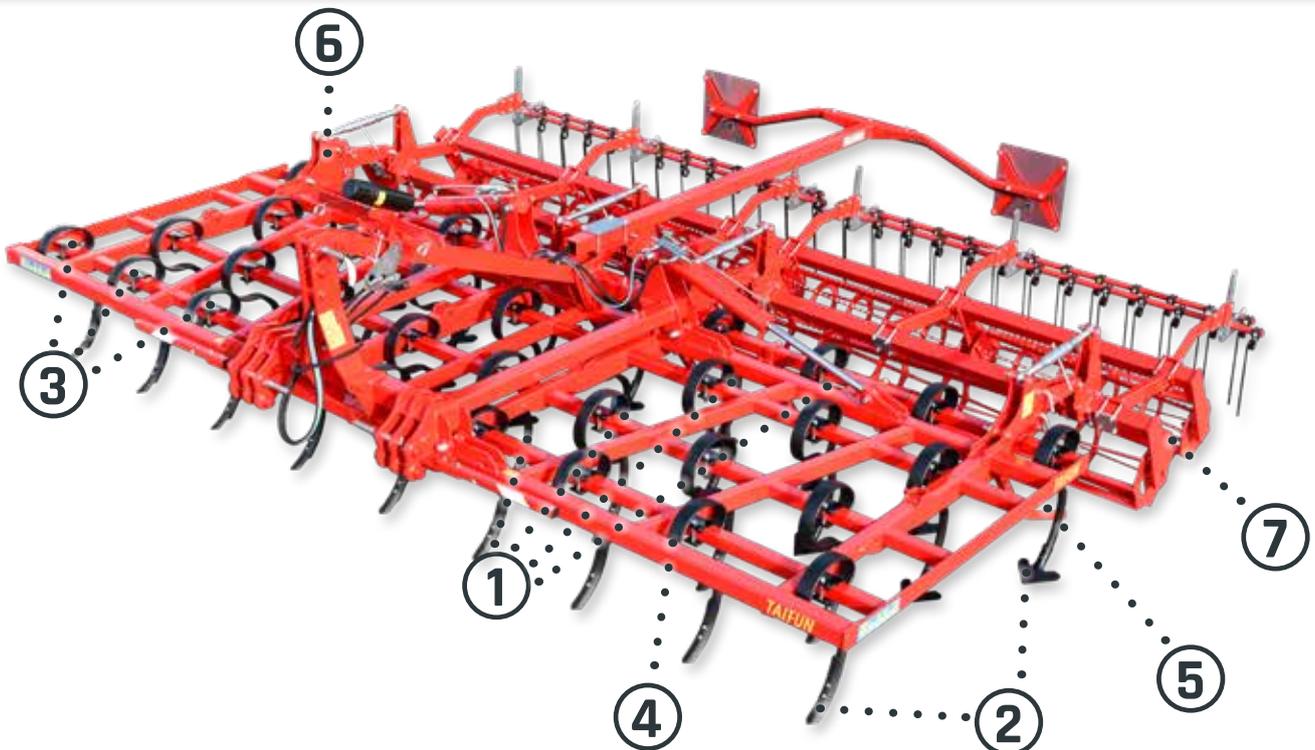
OPTIONS

- Chassis with air wheels instead of 3-point-mounting
- Pneumatic trailer brake
- Levelling plate
- Side plate adjustable
- Herkules tine
- Duckfoot sweep 200/240 mm / 7.87/9.45"
- Duckfoot share made from carbide metal
- Narrow share made from carbide metal
- Rubber support wheels integrated in the frame
- Support wheels mounted in front of the side wings (only for TAIFUN 600+700)
- Trailed weeder tines
- Warning signs with holder and LED-lights
- Pneumatic seeder P-BOX-STI



CONCEPT TAIFUN

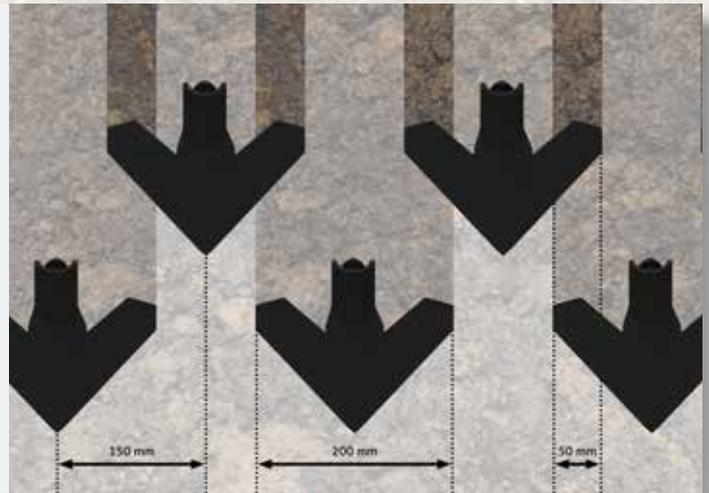
1. 4-beam frame construction
2. Different tines and sweeps
3. 15 cm / 5.9" line spacing; 60 cm / 23.6" tine distance
4. Frame clearance up to 580 mm / 22.83"
5. Double drag tines
6. Working depth easily adjustable via half breadboard
7. Large selection of rear rollers and trailed weeder tines



ADVANTAGES TAIFUN

OVERLAPPING DUCKFOOT SWEEPS = ACROSS THE WHOLE WORKING WIDTH

If a full width cutting of the soil is requested, optionally available duckfoot sweeps provide the necessary overlap at a line spacing of 15 cm / 5.90". For example, the 200 mm / 7.87" sweeps guarantee an overlap of 50 mm / 1.97" (33.3 %) (see graphic). There are also 240 mm / 9.45" duckfoot sweeps with an overlap of 90 mm / 3.54" available. Due to this generous overlap the whole field is cultivated during shallow operation and emerged weeds are mechanically regulated.



2 FOLDING CYLINDERS

Two folding cylinders provide a triangular strut and even folding on both sides. This is useful in hilly terrain. Both cylinders are latched by lock-blocks.

WORKING DEPTH PRECISELY ADJUSTABLE

The working depth of the blade cultivator can be adjusted via bread board on the parallel guided rear roller. Additionally the working pressure of each roller or the angle of the trailed weeder tines to the soil can be adjusted with a spindle. All the pressure is transferred to the rear roller. The machine works very calmly because all the weight of the cultivator is on the rear roller unit.



ADVANTAGES TAIFUN

TUBE-IN-TUBE CONSTRUCTION

The tube-in-tube construction of the frame guarantees durability and stability.

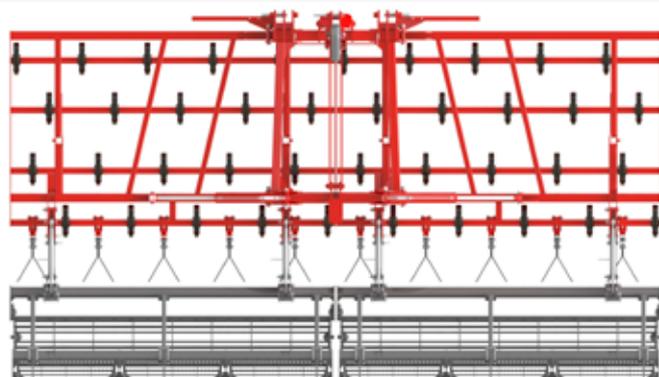


BIG FRAME CLEARANCE

The big frame clearance (up to 580 mm / 22.83") guarantees clogg free working and a perfect work result even in fields with a big amount of organic matter.

100 % EVEN TINE DISTRIBUTION

An even tine distribution ensures work without clogging, a cutting of the full surface and a smooth tensile behaviour.



GREASEABLE JOINTS WITH HARDENED BUSHINGS

LOWER LINKS AND UPPER LINKS WITH ROTATION LOCKS AND HARDENED BUSHINGS

WORKING TOOLS TAIFUN

SPRING TINE HERKULES 70X12 MM / 2.76X0.47", FRAME CLEARANCE 580 MM / 22.83" (RECOMMENDED)

The optional spring tine Herkules is made of 70x12 mm / 2.76x0.50" material, at a frame clearance of 580 mm / 22.80". The tine is recommended for heavy, but also stony soils, for seedbed preparation. For this operation a use of duckfoot sweeps is also possible. The sweep is mounted with two bolts, this is a big advantage in stony and heavy conditions.

Narrow share: The narrow share (standard equipment) is 53 mm / 2.09" wide and is recommended for operations deeper than 10 cm / 3.90".

Duckfoot sweep: The duckfoot sweep with a width of 200 mm / 7.87" is suitable for cutting the full surface in low depth. Both shares are 6 mm / 0.24" thick. The TAIFUN is also called spring tine cultivator.

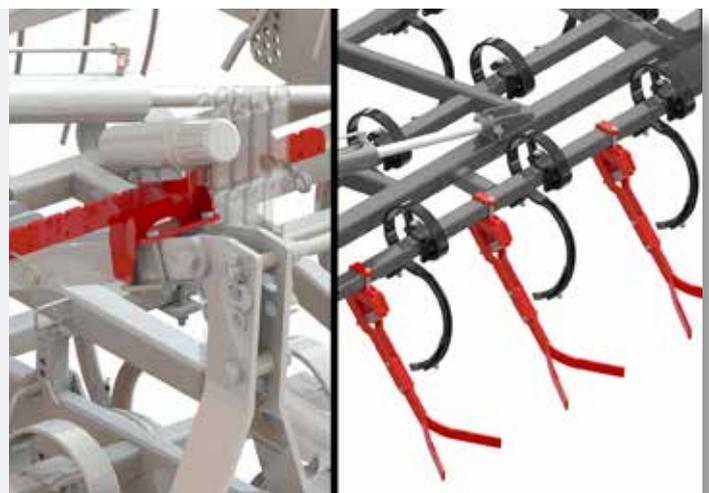


SPRING TINE VULCANUS 50X13 MM / 1.97X0.51", CLEARANCE 525 MM / 20.67"

The spring tine Vulcanus (standard) is made from 50x13 mm / 1.97x0.51" spring steel. The frame clearance is 525 mm / 20.67". The spring tine is for light up to medium-heavy soil and for seedbed preparation after ploughing. For this operation duckfoot sweeps can be mounted optionally. The strong spring tine Vulcanus, made from high- quality spring steel, is designed for long service life.

TOOL-FREE ADJUSTABLE AND SPRING- MOUNTED DOUBLE DRAG TINES (STANDARD EQUIPMENT)

Double drag tines guarantee an even levelling between the last row of tines and the rear rollers or weeder tines. This is an advantage because the rear roller can evenly recompact the soil over the entire working width. They can be dismantled without tools and kept safe directly on the frame.



OPTIONS TAIFUN

P-BOX FOR CATCH CROP SOWING

With the pneumatic seeding box P-BOX-STI all common seeds and their mixtures can be distributed very simply from approx. 1 kg / ha. The seeds are pneumatically transported via hoses to the distribution plates, which spread it exactly. The seeding box is adjusted via an operating terminal in the tractor - the metering roller is driven by an electric motor.



SWEEPS MADE FROM CARBIDE METAL FOR HERKULES TINES

The sweeps made of carbide metal for Herkules tines are optionally available as duckfoot sweeps 220 mm / 8.66" and as narrow shares 53 mm / 2.09". The application of carbide metal plates and the special geometry of these sweeps increase the operating time and reduce wear.

LEVELLING PLATE „DRAGGING“ OR „ON GRIP“

The levelling plate is clamped on the front of the frame and can be adjusted in height through bolts. The levelling plate crushes clods, levels the soil, covers the tractor track and can be adjusted "dragging" or "on grip". The operation of the working tools is extremely smooth and the working depth is maintained exactly. In spring the levelling plate is especially recommended for seedbed preparation.



FRONT SUPPORT WHEELS

For an even smoother running and depth guidance on machines with bigger working width (from 6 m / 19.70 ft.).

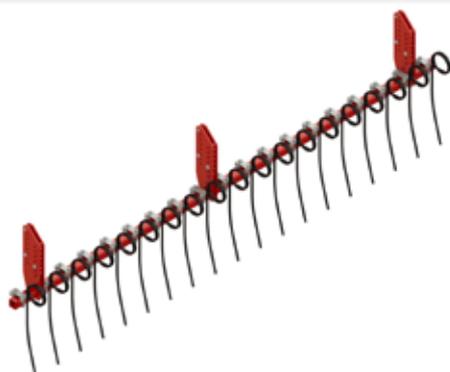


PIVOTING SIDEPLATE

The parallelogram-guided sideplate is height adjustable and foldable. It prevents ridging during seedbed preparation.

CHASSIS

For the TAIFUN with heavy rollers we recommend a chassis instead of the mounted version, since the heavy weight of the machine might harm the 3-point linkage of the tractor and increase soil compaction on the headland.



TRAILED WEEDER TINES

The standard two-row trailed weeder on the F, R, FZ, RZ or RP 47 roller can be replaced on request by a single-row weeder.

THE RIGHT ROLLER TAIFUN

F: FLAT ROD ROLLER

Good crumbling on medium soil.



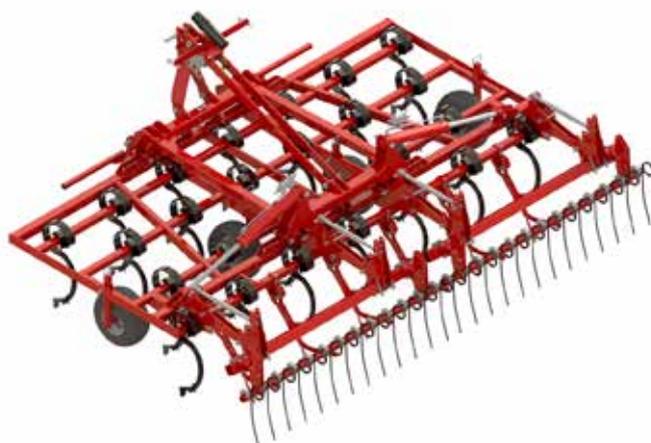
R: ROUND ROD ROLLER

Good crumbling on medium soil and good load capacity on light soil.



ST: SINGLE-ROW WEEDER, Ø 12 MM (0.47") INCL. 4 RUBBER SUPPORT WHEELS

If you want to work without a rear roller, you can simply use following weeder tines instead. The working depth is then adjusted via 4 rubber support wheels (2 for rigid machines).



FZ: FRONT FLAT ROD - / REAR SERRATED ROLLER

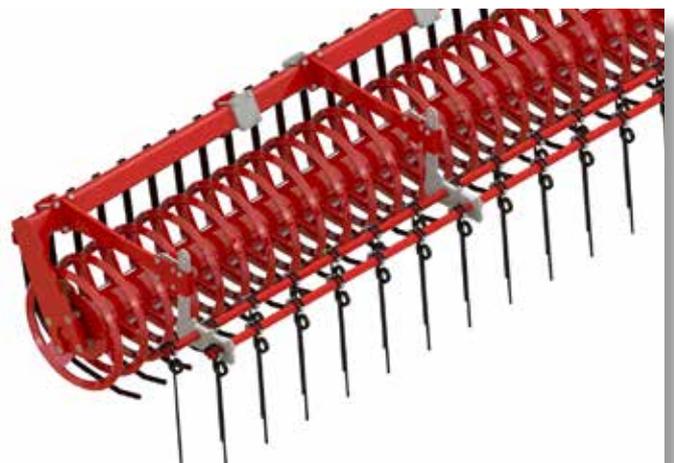
Good crumbling on heavy soil.

**RZ: FRONT ROUND ROD - / REAR SERRATED ROLLER**

Good crumbling on medium to heavy soil, good load capacity on sandy soil.

**RP 47: RING PACKER ROLLER Ø 470 MM / 18.50" WITH SPRING STRIPPER BETWEEN THE RINGS**

The wedge-shaped reconsolidation roller compacts the soil in deeper areas and closes all cavities while the topsoil stays loose and is finely crumbled. Its high load capacity makes it suitable for all different types of soil. Spring scrapers between the rings help to avoid blockage.





BLADE CULTIVATOR TAIFUN XXL

The blade cultivator TAIFUN is a multi-purpose, highly efficient machine. It is a classic machine for seedbed preparation due to its high and spacious frame construction – especially for areas with catch crops and winter greening. The incorporation of liquid manure and organic fertilizer, as well as light and shallow stubble turning or second stubble cultivation and the combat of couch grass are ideal jobs for the TAIFUN.

Due to the ultra-flat cutting with duckfoot sweeps with a line spacing of 15 cm / 5.90", the TAIFUN blade cultivator is the perfect machine for a successful first mechanical weed control. The many possible combinations (e.g. shares, rollers, trailed weeder tines, support wheels, etc.) allow the blade cultivator to be optimally adapted to many different jobs as well as conditions.

The semi-mounted version of the TAIFUN - the TAIFUN XXL - is just as versatile and durable as the 3-point version. Due to its special frame design and the matching working tools, the semi-mounted blade cultivator is the ideal machine for large farms and fields.



**Powerful, robust, durable, efficient,
precise - the TAIFUN XXL is all that!**

Type/ Working width cm / ft.	No. of beams	Tines	No. of double drag tines	from HP/kW	Weight approx. kg / lbs
TAIFUN XXL 800 / 26.20 RP 58 ¹⁾	4	54	13	200/147	7540 kg 16623 lbs
TAIFUN XXL 800 / 26.20 DN ²⁾	4	54	13	200/147	7820 kg 17240 lbs
TAIFUN XXL 900 / 29.50 RP 58 ¹⁾	4	60	15	240/176	7870 kg 17350 lbs
TAIFUN XXL 900 / 29.50 DN ²⁾	4	60	15	240/176	8180 kg 18034 lbs
TAIFUN XXL 1200 / 39.40 RP 58 ¹⁾	4	80	20	340/250	9620 kg 21209 lbs
TAIFUN XXL 1200 / 39.40 DN ²⁾	4	80	20	340/250	9550 kg 21055 lbs

1) RP 58 = Ring packer roller Ø 575 mm / 22.60" with spring stripper between the rings and trailed weeder tines, 1-row Ø 12 mm / 0.50"
2) DN = Double Nova roller Ø 575 mm / 22.60" - the U-steel rings mesh, followed by trailed weeder tines 1-row Ø 12 mm / 0.50"

STANDARD EQUIPMENT

- ✓ Heavy spring-tine **Herkules** 70x12 mm / 2.76x0.47" with standard share 53 mm / 2.10"
- ✓ Heavy frame construction - semi-trailed version with big wheels
- ✓ Parking support and wheel chocks
- ✓ Mounting category CAT III
- ✓ Lower links are guided on both sides and equipped with hardened bushings
- ✓ Drawbar adjustable in length and holder for hydr. hoses - parallel lifting by an additional cylinder
- ✓ Tine arrangement 4 rows
- ✓ Line spacing 15 cm / 5.90"
- ✓ Transport width 3 m / 9.80 ft.
- ✓ Spring-mounted double drag tines between the last tine row and the trailed weeder tines
- ✓ Parking position for double drag tines
- ✓ Rear rollers are height-adjustable in the half breadboard
- ✓ All rear rollers are equipped with beall bearing
- ✓ 3 double acting hydraulic valves are required
- ✓ Front support wheels adjustable in a breadboard
- ✓ Braking axle for mounting of pneumatic trailer brake system

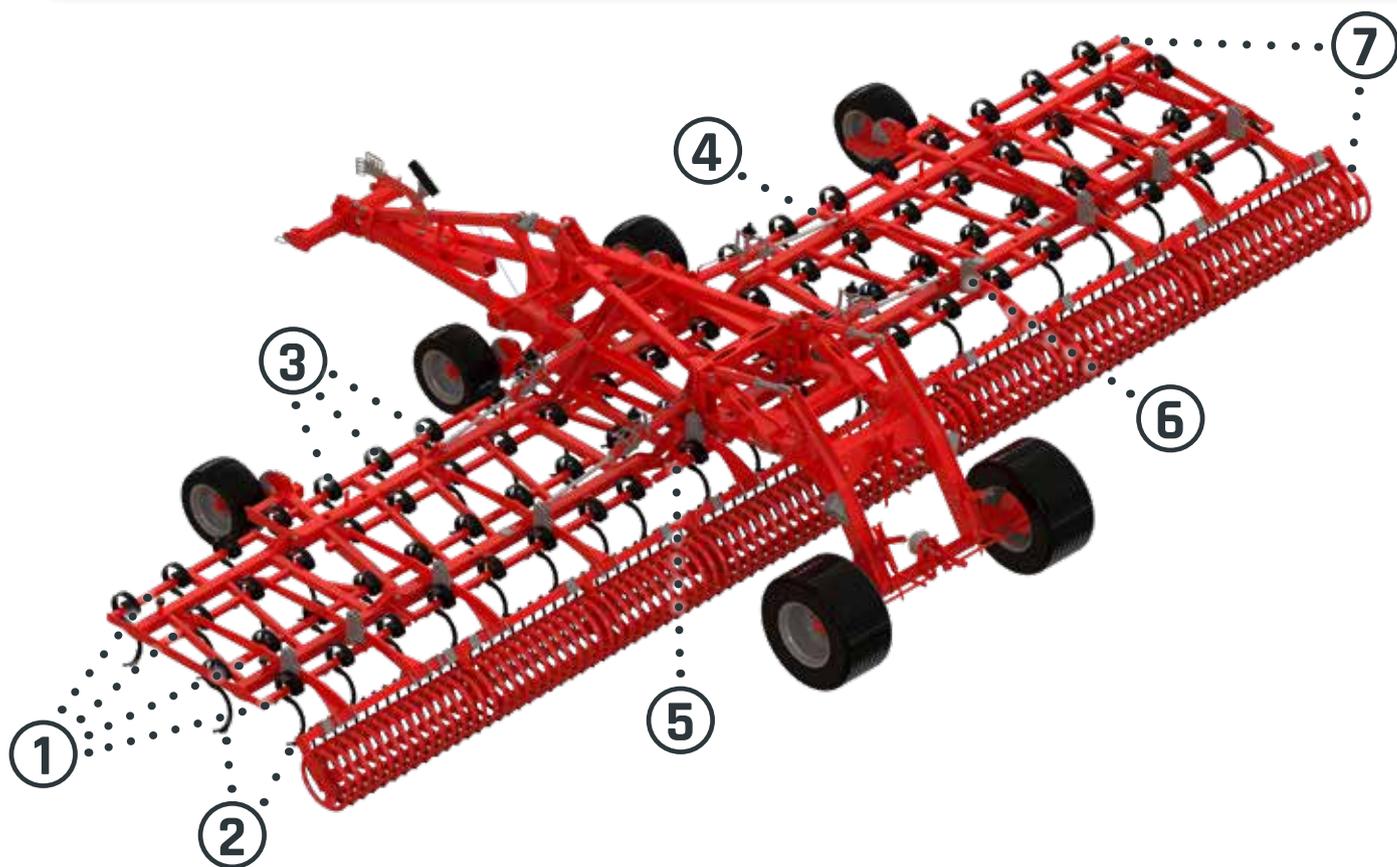


OPTIONS

- VIBRO-BOARD (hydraulically adjustable)
- Pneumatic trailer brake
- Levelling plate
- Duckfoot sweep 200/240 mm / 7.90/9.50"
- Duckfoot sweep made of carbide metal
- Narrow share made of carbide metal
- Warning signs with holder and LED-lights

CONCEPT TAIFUN XXL

1. 4-beam frame construction
2. Herkules-tines and different sweeps
3. 15 cm / 5,9" line spacing; 60 cm / 23,6" tine distance
4. Frame clearance up to 580 mm / 22,8"
5. Double drag tines
6. Working depth easily adjustable via half breadboard
7. Wide range of options



DETAILS TAIFUN XXL

RP 58: RING PACKER ROLLER Ø 575 MM / 22.64" WITH SPRING STRIPPER BETWEEN THE RINGS

Similar to RP 47, but with a diameter of 575 mm / 22.64" for high load capacity with heavy machines. The single-row trailed weeder is standard on 8, 9 and 12 m (26.20, 29.50 and 39.40 ft.) working width.



DN: DOUBLE-NOVA-ROLLER Ø 575 MM / 22.64"

Through the U-steel rings, which are getting filled with soil on purpose, soil rolls on soil. This soil-conserving reconsolidation ensures a rough surface structure. Because of its high load capacity it is suited perfectly for all soil conditions. The single-row weeder is standard on 8, 9 und 12 m (26.20, 29.50 and 39.40 ft.) working width.







**UNIVERSAL CULTIVATOR
HURRICANE**



UNIVERSAL CULTIVATOR HURRICANE

The extremely user-friendly universal cultivator HURRICANE combines three types of machines in one. The HURRICANE is the ideal implement for stubble cultivation or for incorporation of cover crops. The implement promotes soil life, reduces erosion and ensures an extremely good soil structure. It also shows its strengths when breaking up compactions in deeper layers of the soil. The cultivator can also be used for intensive seedbed preparation.

The possible working depth can be adjusted between 4 cm (1.60") and 25 cm (9.80") with a tine adjustment in 4 rows and a line spacing of 20 cm (7.90") (depending on the kind of shares, following tools and soil conditions). Operation over the full surface can be achieved by choosing the correct shares. After tillage, the soil surface is levelled and reconsolidated. The machine is an extremely compact and manoeuvrable implement that can be used effectively on small and large areas. A seeder for sowing catch crops can be easily mounted and adjusted.



**The professional among the universal cultivators.
Perfect operation, minimum maintenance and
easiest adjustment!**

Type/ Working width cm / ft.	No. of beams	Tines	from HP/kW	Weight approx. kg / lbs
HURRICANE 260 / 8.50 ¹⁾	4	13	100/74	950-1515 kg 2094-3340 lbs
HURRICANE 300 / 9.80 ¹⁾	4	15	120/88	1010-1595 kg 2227-3517 lbs
HURRICANE 420 / 13.80 ¹⁾	4	21	150/110	1840-2700 kg 4057-5953 lbs
HURRICANE 460 / 15.10 ¹⁾	4	23	180/132	1950-2890 kg 4300-6372 lbs

1) units optionally available with the following crumblers: ON, F, R, RF, RP47, R5, N, RP58

STANDARD EQUIPMENT

- ✓ 1A quality tines
- ✓ 4-row tine arrangement with 600 mm / 23.62" beam distance
- ✓ Lower links guided on both sides
- ✓ Lower link and upper link are equipped with hardened bushings
- ✓ Hydr. working depth adjustment - 1 double-acting hydraulic valve required
- ✓ Line spacing 200 mm / 7.87"
- ✓ Tine with shear-bolt stone protection
- ✓ Tine inclination adjustable (not with Goliath tine)
- ✓ Universal sweep (double diamond share)
- ✓ Rear rollers with ball bearings
- ✓ Trailed weeder parallelogram guided
- ✓ From 4.2 m / 13.80 ft. working width hydraulically folding frame, lockable in working and transport position by means of safety hydraulic locking block (1 pc. additional double-acting hydraulic valve required)
- ✓ Lower link width up to 3 m / 9.80 ft. working width CAT II, from 4.2 m / 13.80 ft. working width CAT III
- ✓ Sturdy frame made of 100 mm / 3.94" tubes
- ✓ Transport width 2.7 - 3 m (8.90 - 9.80 ft.)

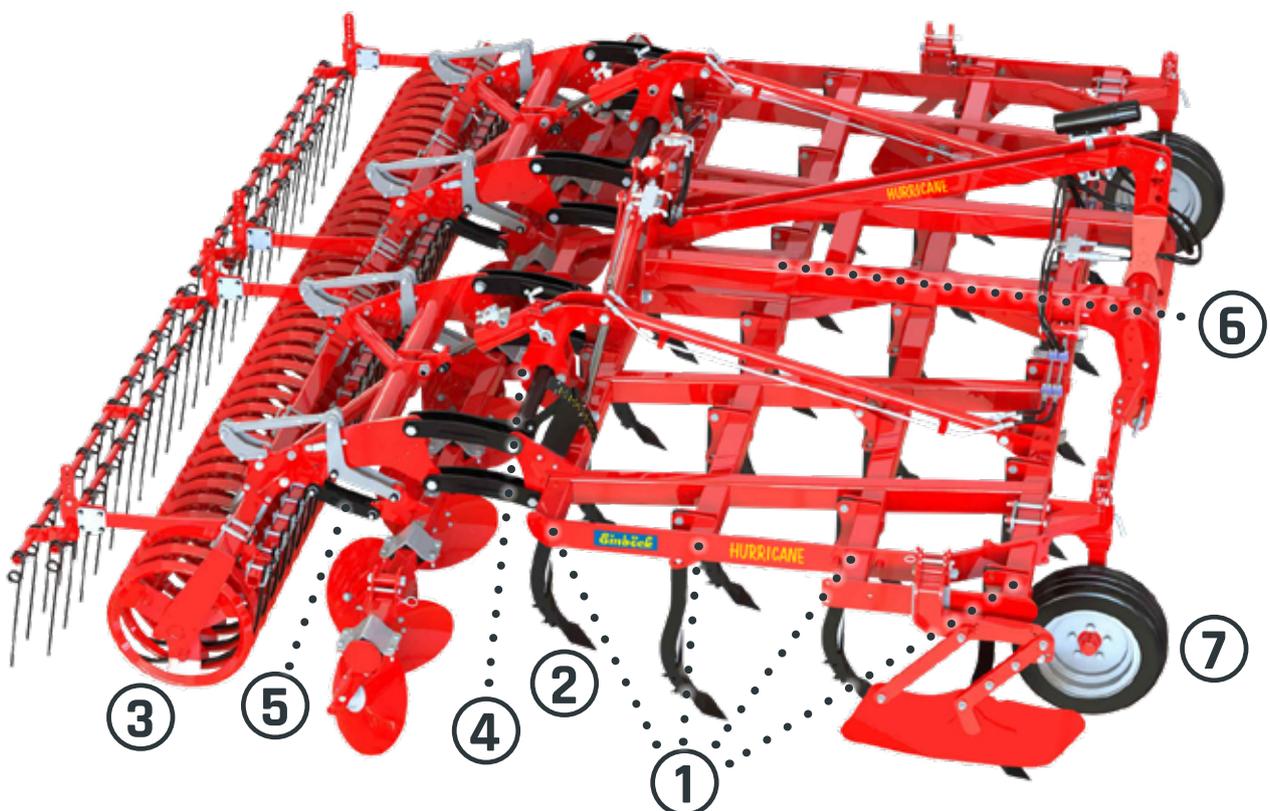
OPTIONS

- Universal sweep/double diamond share with wing share
- Duckfoot sweep with guide plate
- Narrow share
- Spring loaded tine "Goliath"
- Side plate
- Serrated levelling discs
- Rubber support wheels with holder and adjustment support
- Following weeder 1-row instead of 2-row
- Protective cover
- Pneumatic seeder P-BOX-STI
- Warning signs with holder and LED lighting



CONCEPT HURRICANE

1. Tine arrangement in 4-rows with a line spacing of 20 cm / 7.90"
2. Selection of different tines and sweeps - the right tool for different types of soil or working depth (possible up to 25 cm / 9.80")
3. The correct rear roller for every type of soil and field of application
4. Convenient hydraulic adjustment of working depth, parallelogram-guided rear rollers
5. No need to readjust the star discs when changing the working depth as they are mounted on a parallelogram
6. Easy assembly of a seed box for distribution of inter crops
7. Support wheels for even smoother operation (option)



DETAILS & ADVANTAGES HURRICANE

PERFECTION THROUGH 4-ROW DESIGN AND HIGH FRAME CLEARANCE

The 4-row tine arrangement of the universal cultivator guarantees good incorporation of straw and organic matter. Due to the spacious frame design risk of clogging is very limited even when working in fields with heavy, sticky soils and a high amount of organic matter. The frame clearance of up to approx. 83 cm / 32.70" (depending on working depth) ensures sufficient space so the organic material can flow through (e.g. also in fields with a high amount of straw).



HYDRAULIC ADJUSTMENT OF WORKING DEPTH VIA THE REAR ROLLERS

Hydraulic adjustment of the working depth is included in the standard specification. A scale shows the working depth. This ensures convenient adjustment and perfect setting of the desired working depth.

WIDE CHOICE OF SWEEPS ENSURES THE AVAILABILITY OF THE CORRECT TOOL FOR CHANGING CONDITIONS

The universal cultivator comes with 130 mm / 5.12" double diamond shares as standard. Optional wing shares (224 mm / 8.82") can be mounted in combination with them. For more shallow operation or to ensure an even greater overlap, 250 mm / 9.84" wide duckfoot sweeps incl. guide plates can be mounted. For deeper tillage, narrow shares (55 mm / 2.17") are available.

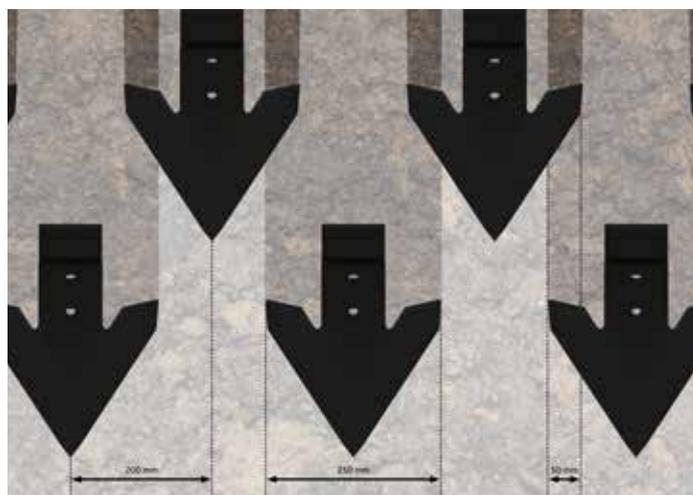
(In the picture from the left to the right)



ADVANTAGES HURRICANE

TRAILED WEEDER TINES FOR VARIOUS DIFFERENT CONDITIONS

In order to achieve an ideal working result, various different trailed weeder tines are required. With a total of 8 different rollers the ideal cultivator for various different conditions can be specified.



OVERLAPPING OF DUCKFOOT SWEEPS = OPERATION OVER THE FULL SURFACE

Overlapping duckfoot sweeps are needed to cut the full surface of the field. 250 mm / 9.84" wide sweeps are available as an option. On 20 cm / 7.90" line spacing an overlap of 50 mm / 1.97" (25 %) is guaranteed with these sweeps (see graphic). This generous overlap ensures that the entire surface of the field is cultivated, even when the cultivator is set to a shallow working depth. This secures emerged weeds are controlled mechanically.

ASSEMBLY OF SEEDING BOX

A seeding box (P-BOX-STI) can be mounted on the cultivator in all different working widths so catch crops can be sown quickly and easily. The even distribution and positioning of the deflector plates ensures a safe emergence of the green cover or catch crop.



NO RE-ADJUSTMENT OF THE LEVELLING DISCS NECESSARY

The star discs are mounted on the parallelogram which carries the rear roller. If the working depth is changed, they do not have to be readjusted. To enable fine adjustment nevertheless, adjustment spindles are fitted to the levelling discs.



MANY WELL-CONCEIVED OPTIONS AND SOLUTIONS

To make a cultivator a professional and user-friendly tool, the HURRICANE has been designed with lot of well considered and practical detail solutions. The frame construction (tube in tube) and the combination of the different working tools make the universal cultivator a highly efficient tool for modern agriculture.

DURABLE FRAME CONSTRUCTION

The modern and stable frame construction ensures an extremely robust machine. Thus, the universal cultivator is designed to be extremely durable and always produces excellent work results even after many seasons of use.



DETAILS HURRICANE

HYDRAULIC FOLDING

The universal cultivator is folded by means of two separate side wings. This makes it easy to park the machine in a space-saving manner. By means of a hydraulic safety locking block, the HURRICANE locks automatically in working and transport position.



LOWER LINKS WITH A CHOICE OF TWO MOUNTING HEIGHTS

To meet different tractor sizes the HURRICANE is equipped with two mounting positions with bushings and anti-rotation pins on the lower links. Mounting category: CAT II up to 3 m / 9.80 ft., from 4.2 m / 13.80 ft. working width CAT III.

DEFLECTOR PLATES

Deflector plates for interrupting the earth flow in the first row of tines directly behind the tractor, this prevents the tractor from serious soiling.



INDICATOR FOR THE POSITION OF THE HYDRAULIC WORKING DEPTH SETTING

A clear indicator is mounted so that the position of hydraulic working depth adjustment can be conveniently seen from the tractor.



ADJUSTMENT OF THE TINE INCLINATION

The tines can be adjusted in their inclination to ensure optimum penetration in different soil conditions and with different share types. The adjustment screw is also the shear-off stone protection. The cultivator shaft made of 60x25 mm / 2.36x0.98" material meets all requirements. (Adjustment not possible with GOLIATH leaf spring tine).



The design with 4 beams ensures perfect mixing and the hydraulic working depth adjustment guarantees maximum comfort!

OPTIONS HURRICANE

SIDE PLATE TO PREVENT RIDGES

The side plate, which has a special position for road transport, is recommended for an even surface after operation of the machine.



SERRATED LEVELLING DISCS

Serrated levelling discs behind the last row of tines are available upon request. They level the soil in front of the rear roller, therefore they ensure uniform tillage. They are available with hydraulic folding as an option.

RUBBER SUPPORT WHEELS

The rubber support wheels mounted on the first beam of the frame ensure precise maintenance of the working depth and smoother operation of the machine. These can be adjusted quickly and easily by means of a gearwheel adjustment.



UNCOMPLICATED DISTRIBUTION OF CATCH CROPS

With the pneumatic seeding box P-BOX-STI all common seeds and their mixtures can be distributed very simply from approx. 1 kg / ha. The seeds are pneumatically transported via hoses to the distribution plates, which spread it exactly. The seeding box is adjusted via an operating terminal in the tractor - the metering roller is driven by an electric motor. Spreading is also possible with the mechanical seeders (DRILLBOX, MECHANICBOX) on rigid machines.



TINES HURRICANE

STANDARD TINE WITH DIAMOND SHAPED SWEEP 130 MM / 5.12" WIDE

The special shape of the tine breaks up the soil, preventing smearing of the soil pores (other share types and widths available).



DOUBLE DIAMOND SHARE WITH WING SHARE

The diamond-shaped sweep with a width of 13 cm / 5.10" is mounted as standard. Wing sweeps with a total width of 22.4 cm / 8.80" can be added quickly and easily to these sweeps. With the wing sweeps, it is possible to cut through the entire surface at a low working depth.



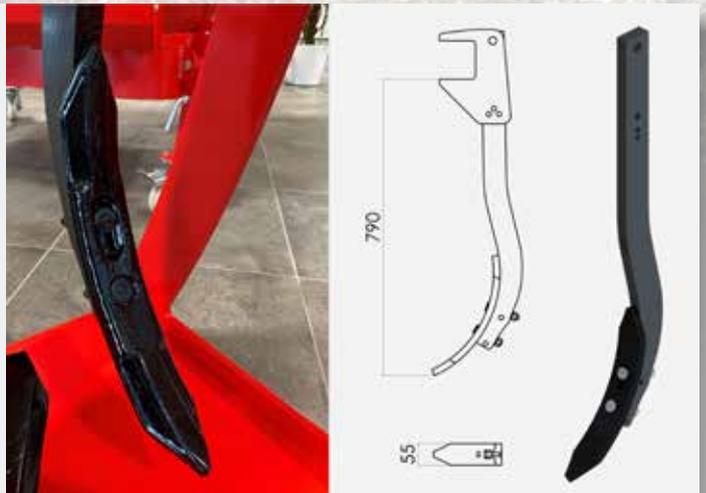
DUCKFOOT SWEEP WITH GUIDE PLATE

The duckfoot sweep with guide plate is recommended for shallow cultivation. The duckfoot sweep with a width of 250 mm / 9.84" guarantees in any case a full-surface cutting and is ideally suited for the first stubble cultivation. The volunteer grain and weed seeds are not buried, but emerge quickly and can easily be regulated. The guide plate ensures optimum mixing of the organic matter with soil.



NARROW SHARE IN ADDITION TO THE DIAMOND SHAPED SWEEP

The narrow share with a width of 5.5 cm / 2.20" is used for deep tillage, soil loosening and incorporation of straw. They can be used at a working depth between 12 and 25 cm (4.70-9.80").



Stubble cultivation, incorporating greenings, seeding cover crops etc. - the HURRICANE is extremely versatile!

THE RIGHT ROLLER HURRICANE

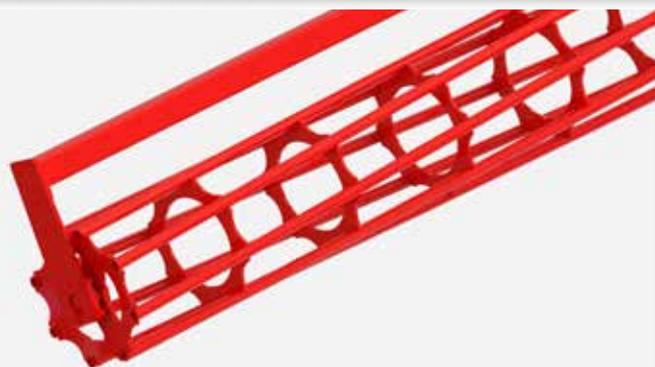
F: FLAT ROD CRUMBLER Ø 400 MM / 15.75"

Perfect crumbling for medium-heavy soil.



R: ROUND ROD CRUMBLER Ø 400 MM / 15.75"

Optimal crumbling on medium-heavy soil and good load-capacity on light soil.



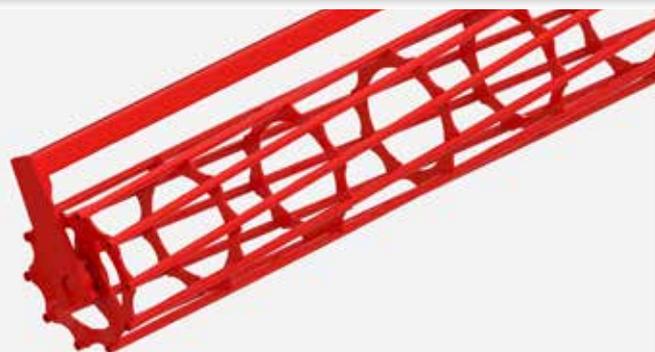
RF: ROUND ROD/FLAT ROD CRUMBLER Ø 400 MM / 15.75"

Good crumbling, good levelling and reconsolidation as well as exact depth control. For medium-heavy soil, universally applicable.



R 5: ROUND ROD CRUMBLER Ø 500 MM / 19.69"

High load capacity, good reconsolidation and best suited for very light soil. Optimal for seedbed preparation in sandy soil.



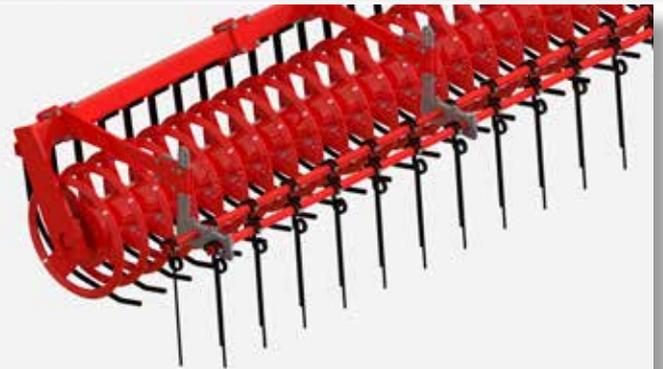
RP 58: RINGPACKER ROLLER, Ø 575 MM / 22.64"

On the ringpacker roller the distance between the rings is 12,5 cm / 4.90", therefore it achieves reconsolidation in strips of 12.5 cm / 4.90". Due to the wedge-shaped reconsolidation, the soil is compressed in the lower area and all cavities are closed, while the upper soil layer remains loose as well as a fine structure is maintained. Due to its high load-capacity, it is ideally suited for all soil types. Spring strippers between the rings prevent the roller from clogging.



RP 47: RINGPACKER ROLLER WITH CLEANER, Ø 470 MM / 18.50"

Same as RP 58 roller, but with Ø 470 mm / 18.50" and lower weight.



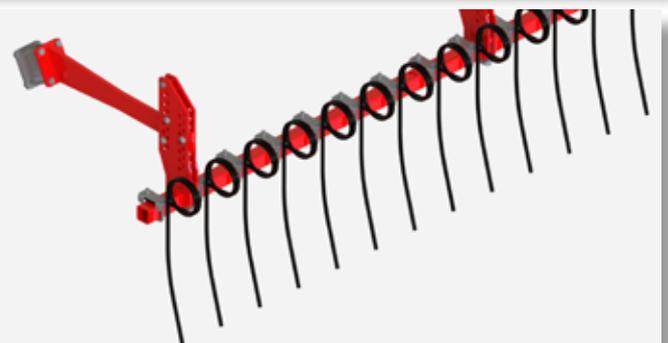
N: NOVA ROLLER Ø 575 MM / 22.64"

The nova roller achieves reconsolidation in strips with a distance of 17 cm / 6.70". Through the U-profile rings, which deliberately fill with soil, soil rolls on soil. This very soil-friendly reconsolidation ensures a rough surface structure. Its high load-capacity makes it ideally suited for all soil types. Scrapers between the rings level the soil and prevent the roller from clogging.



1-ROW TRAILED WEEDER TINES

Instead of the standard 2-row trailed weeder tines on the N, RP 58 and RP 47 rollers, a 1-row trailed weeder tine with 12 mm / 0.47" diameter tines can be fitted as an option.





FRONT ROLLER FRONT-STAR & FRONT-SPIKE

FRONT-STAR:

The front roller FRONT-STAR optimally prepares the seedbed, even in difficult soils. Due to the 3-row star shaft arrangement and the wide star tip spacing, the arable or plough clods are crushed even in moist and extremely heavy conditions. The star tips can dig even deeper into the soil with the pressure support of the front hydraulic, which results in very good crushing. The interlocking of the star rows avoids sticking, even in extreme conditions.

With the spring-loaded levelling plate, which is height-adjustable without tools, the furrow ridges are broken, crushed and leveled and the first crushing and levelling takes place. A higher working speed can be achieved. This causes an added value in work quality and impact power, especially with passive rear units.

FRONT-SPIKE:

The special serrated discs of the front packer FRONT-SPIKE guarantee an ideal soil preparation thanks to their optimum shape and 3-row arrangement with close spacing. Due to the interlocking of the serrated discs, there is no sticking of the roller even in wet soil conditions. The front packer FRONT-SPIKE is the ideal implement on ploughed, light sandy soil as well as in stony soil conditions.

The spring-loaded levelling plate, which can be adjusted in height without tools, causes the levelling of the plough clod and the further crushing of the soil clods. With this equipment, a higher driving speed can be achieved, this causes an added value in work quality and impact power, especially with passive rear implements.

Type/ Working width cm / ft.	from HP/kW	Weight approx. kg / lbs
FRONT-STAR 250 / 8.20	95/70	560 kg 1235 lbs
FRONT-STAR 300 / 9.80	110/80	640 kg 1411 lbs
FRONT-SPIKE 250 / 8.20	95/70	850 kg 1874 lbs
FRONT-SPIKE 300 / 9.80	110/80	960 kg 2117 lbs

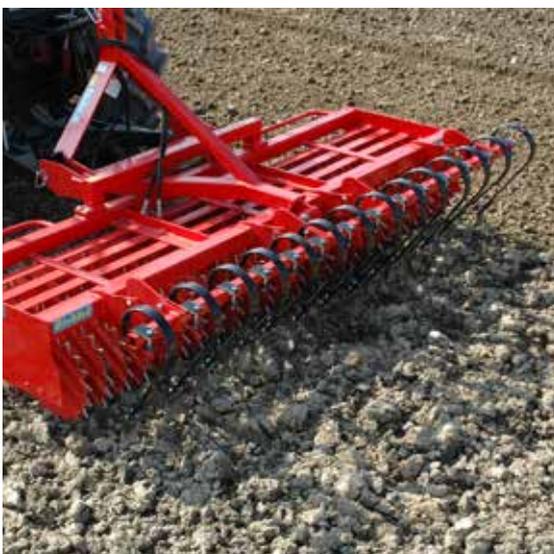
STANDARD EQUIPMENT

FRONT-STAR:

- ✓ Rigid frame or mechanical steering
- ✓ Lower links guided on both sides
- ✓ Star arrangement 3 rows
- ✓ Spring mounted levelling plate
- ✓ Star Ø 400 mm / 15.75"
- ✓ Mounting category CAT II

FRONT-SPIKE:

- ✓ Rigid frame or mechanical steering
- ✓ Lower links guided on both sides
- ✓ Spike disc arrangement 3 rows
- ✓ Spring mounted dragging tines, 1 row
- ✓ Spike disc Ø 400 mm / 15.75"
- ✓ Mounting category CAT II



OPTIONS FRONT-STAR

- Knife-board
- Hydraulic steering
- Hydraulic hose extension to the rear of the tractor
- Side plates adjustable
- Warning signs with holder and LED-lights
- Pneumatic seeding box (P-BOX-MD or P-BOX-STI)

OPTIONS FRONT-SPIKE

- Hydraulic steering
- Hydraulic hose extension to the rear of the tractor
- Side plates adjustable
- Warning signs with holder and LED-lights
- Pneumatic seeding box P-BOX-STI

CONCEPT FRONT-STAR & FRONT-SPIKE

FRONT-STAR:



1. Rigid, mechanical or hydraulic steering
2. The frame is constructed to allow for a possible additional load
3. Star disc arrangements 3 rows
4. Levelling plate spring mounted

FRONT-SPIKE:

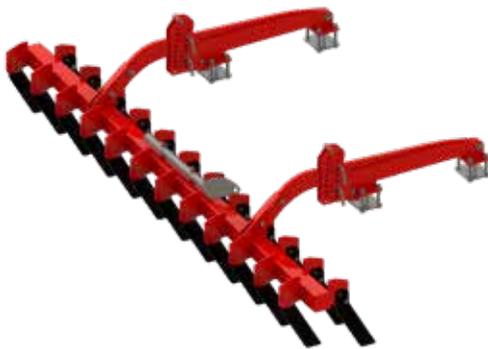


1. Rigid, mechanical or hydraulic steering
2. The frame is constructed to allow for a possible additional load
3. Spike disc arrangements 3 rows
4. Spring mounted dragging tine 1 row

ADVANTAGES FRONT-STAR & FRONT-SPIKE

SPRING-MOUNTED LEVELLING PLATE

The spring-mounted levelling plate guarantees a consistent levelled soil.



KNIFE-BOARD

A knife-board is optionally available for FRONT-STAR, which breaks up the soil clods in front of the levelling plate.

HYDRAULIC STEERING

A hydraulic steering, instead of the rigid version, is available for both types at a surcharge. The hydraulic steering should be ordered for the FRONT-STAR, if the machine is weighted with a dual-acting front hydraulic. This steering isn't coupled with the tractor steering, but it must be activated by a hydraulic valve of the tractor. If there are no double active valves available at the front of the tractor, a hydraulic hose extension to the rear of the tractor is available.

The hydraulic steering can avoid driftage in on a slope. The hydraulic steering can be retrofitted.



MECHANIC- OR HYDRAULIC STEERING

In its basic version the implement is rigid, but by removing a turnbuckle the machine can easily be changed to mechanical or hydraulic steering.

SIMPLE MOUNTING OF A SEEDING BOX

The P-BOX-STI or P-BOX-MD seeder, for seeding of intercrops or catch crops etc., can be mounted on a lot of Einböck machines. In addition to various additional options for the seeder, steps for filling are available as well.



Pneumatic seeder P-BOX-STI

- » Precise, electrically controlled, metering and dosing via operating monitor
- » Grassland reseeding or fertilizer application
- » Seeding of intercrops or cover crops
- » Application of many different seed varieties
- » Can be mounted on many cultivators, weeders, etc.



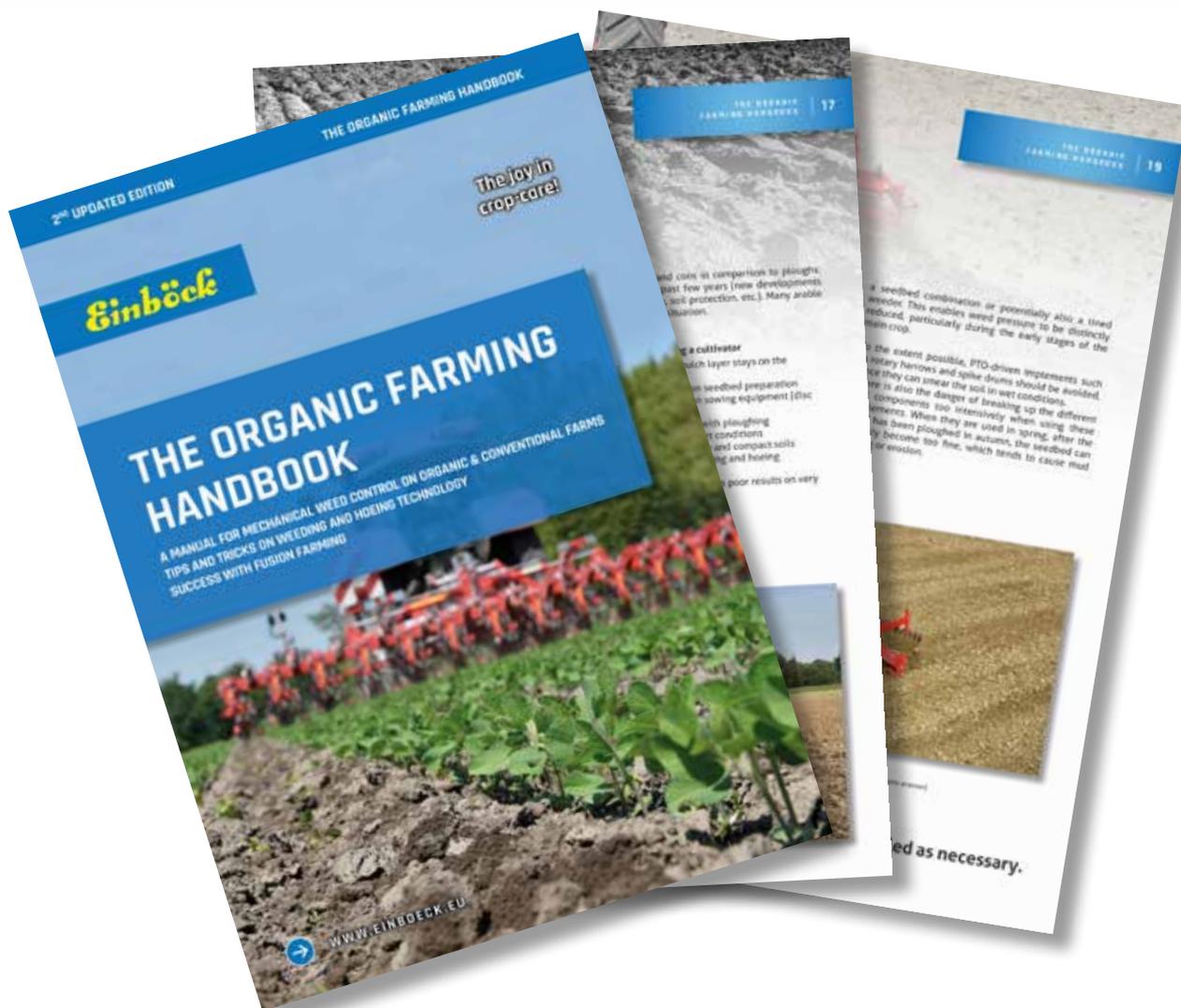
TILLAGE IN PRACTICE

Experience reports and information of the practical use of our weeding technology you can find in our „Organic farming handbook“. There you will find everything about cultivating, weeding and hoeing as well as other topics related to „Fusion Farming“.

Topics which might be interesting for you:

- » Soil life, soil cultivation
- » Target for stubble cultivation
- » Seedbed preparation
- » Incorporation of cover crops (frozen and non-frozen)

You can download the handbook at www.einboeck.at/en/know-how



EINBÖCK AT A GLANCE

"Everything from one source"

- » **In-house development from the idea to the finished product**
Over 85 years of experience in the construction of agricultural machinery
- » **From practitioner for practitioners**
75 % of our sales and product management team are practitioners
- » **Suppliers from the region or Central Europe**
Long-lasting supplier relationships ensure consistent product quality and reliable delivery times
- » **Manufacturing**
Exclusively in Dorf an der Pram in Upper Austria
- » **Practical testing of all machines on our own test fields**
Before prototypes are turned into serial production, they have to pass substantial tests in the field and on the road
- » **After-Sales-Service**
Supply of wear and spare parts is guaranteed for decades and ensures long-term customer relationships

Einböck-values

- » **Sustainability and environmental protection**
Environmentally friendly production of sustainable products
- » **Consulting and service**
Sharing of acquired knowledge and first-class customer service
- » **Reliability and quality**
Keeping promised delivery dates and selling high quality products
- » **Honesty and loyalty**
Collaboration with customers, suppliers, employees, partners, dealers, etc. at eye level

“

Our goal is the production of market-oriented, user-friendly, innovative, environmentally friendly and high-quality products!

Family Einböck, management in 3rd & 4th generation

”



- ✓ Foundation 1934
- ✓ Owner-managed family business
- ✓ One production location in Dorf an der Pram; AUSTRIA
- ✓ 100 % in-house value chain
- ✓ Decades of experience in the production of cultivators





Related brochures regarding "organic farming & mechanical weed control":



WEEDING TECHNOLOGY

- » Tined weeder
AEROSTAR-CLASSIC
- » Precision tined weeder
AEROSTAR-EXACT
- » Rotative weeder
AEROSTAR-ROTATION

HOEING TECHNOLOGY

- » Row-crop cultivator
CHOPSTAR
- » Rollstar cultivator
ROLLSTAR
- » Camera steering system
ROW-GUARD
- » Rotary hoe
ROTARYSTAR

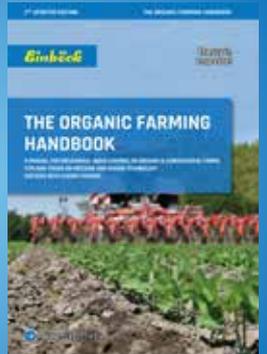


**ROTARY HOE
ROTARYSTAR**

- » Break crusts
- » Regulate weeds
- » Aerate soil

ORGANIC FARMING

- » Guide to mechanical weed control
- » Tips and interesting facts about weeding and hoeing technology
- » With FUSION FARMING to success



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In case of contradictions between individual documents regarding the scope of supply, the information in our current price list shall apply.

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