

Einböck

**When grassland care
is joy!**

GRASSLAND CARE

**GRASSLAND WEEDER
GRASS-MANAGER**

**UNIVERSAL TINED SEEDER
PNEUMATICSTAR**

**GRASSLAND HARROW
GRASS-MANAGER-PRO**

**PROFESSIONAL GRASSLAND SEEDER
PNEUMATICSTAR-PRO**



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GRASSLAND WEEDING IN PRACTICE

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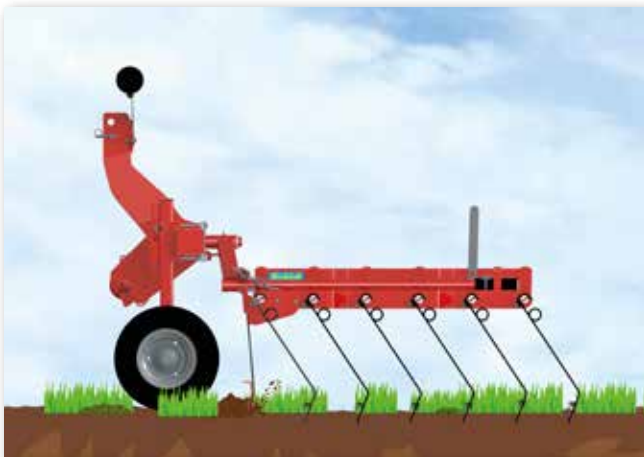
- ✓ Advantages of grassland weeding
- ✓ Different solutions
- ✓ Maintenance and reseeding of grassland
- ✓ Liming, fertilization, grass mixtures
- ✓ Rolling in grassland
- ✓ Trial reports



SPECIAL FEATURES OF OUR GRASSLAND WEEDERS

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- ✓ Exact tine position and tine movement
- ✓ True line spacing of 2.5 cm / 1"
- ✓ The right choice of tines
- ✓ And much more



GRASSLAND WEEDER GRASS-MANAGER

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- ✓ Grassland weeding
- ✓ Support the vegetation of the grassland
- ✓ Soil aeration in the grassland
- ✓ Levelling the heaps of earth und mole hills
- ✓ Dethatching of the turf



UNIVERSAL TINED SEEDER PNEUMATICSTAR

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- ✓ Reseeding with a mechanical or an electrically driven seeding box
- ✓ Grassland weeding
- ✓ Support the vegetation of the grassland
- ✓ Soil aeration in the grassland
- ✓ Levelling (e.g. of mole hills)



GRASSLAND HARROW GRASS-MANAGER-PRO

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- ✓ Professional machine for contractors or communities
- ✓ Grassland weeding and support of the vegetation
- ✓ Soil aeration in the grassland
- ✓ Heavy triangular plate for perfect levelling
- ✓ Hydraulically controlled, parallel guided weeder sections



PROFESSIONAL GRASSLAND SEEDER PNEUMATICSTAR-PRO

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- ✓ Professional machine for contractors or communities
- ✓ Reseeding with a mechanical or electrically driven seeding box
- ✓ Grassland weeding
- ✓ Support the vegetation of the grassland
- ✓ Hydraulically controlled, parallel guided weeder sections



SEEDING BOXES

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- ✓ Pneumatic seeding box P-BOX-MD with mechanic drive of the seeding roller
- ✓ Pneumatic seeding box P-BOX-STI with electric drive of the seeding roller



UNDERSOWING & SEEDS

PAGE 44-45

- ✓ Undersowing with the grassland weeder
- ✓ Which seed with which machine

ADVANTAGES OF GRASSLAND WEEDING

Repair damages from winter:

Simple levelling is not enough to achieve good yields. Next to levelling of molehills and repair of damages in the turf (e.g. caused by grazing) it is also important to remove dead, shallow rooting grasses. Snow mould, which appears after warm winters especially in turf which grew too high, has to be removed by weeding.

Support tillering of the turf:

The weeder tines hurt the grass a little, this supports tillering. The grass grows with higher density and produces more bio-mass.

Close holes in the turf:

To prevent weeds, e.g. the rough stalk meadow grass, from spreading, holes in the turf have to be covered with seeds of valuable grasses. Annual over-seeding can prevent problems in this respect. Open spots or holes in the turf (molehills) very likely build crusts.

Incorporation of fertilizer:

Manure and slurry have to be crushed and incorporated in the turf. In case they remain on the grass stalks they can burn the grass or slow down decomposition.

Reduce contamination of the fodder:

Levelling of molehills and incorporation of fertilizer in the turf reduce the contamination of the fodder with ash during harvesting. This ensures an improved quality of the feed.



GRASSLAND WEEDING IN PRACTICE

Experience reports and information of the practical use of our grasslandcare-weeding-technology you can find in our "Grassland care handbook". There you will find everything about grassland weeding as well as other topics related to the management of grassland.

Topics which might be interesting for you:

- » Different solutions
- » Maintenance and reseedling of grassland
- » Liming, fertilization, grass mixtures
- » Rolling in grassland & trial reports

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







SPECIAL FEATURES OF OUR GRASSLAND WEEDERS

GRASS-MANAGER (-PRO) | PNEUMATICSTAR (-PRO)

- » Sturdy profile tube frame and therefore extremely durable
- » Large ball bearing supported wheels and lubrication points on all joints
- » Tempered hinge bolts with bushings
- » No sharp edges and therefore no damage to plants
- » Spring coil and tine movement is not restricted (no risk of tine-breakage)
- » Large triangular struts prevent the side wings from swinging during operation on machines with large working width
- » Large selection of tines in different lengths and diameter



There are many small details which make our machines very user-friendly and reliable for many seasons!

Precise tine position and tine movement

The tines on the weeder are fixed to the sections by plastic holders to prevent them from twisting so the tine is aligned exactly in working direction. The spring coil of the tine is mounted below the holder to ensure free tine movement and vibration out of the spring coil. As movement of the tine is not limited or restricted, breakage is very unlikely.



TINE SECTION HOLDERS PROTECTED BY PLASTIC

Hard plastic protection at the connection between the tine section and its holders prevents wear of the steel components and ensures that they do not harm each other. They also ensure good guidance of the tine section, while still allowing adjustment to the terrain.

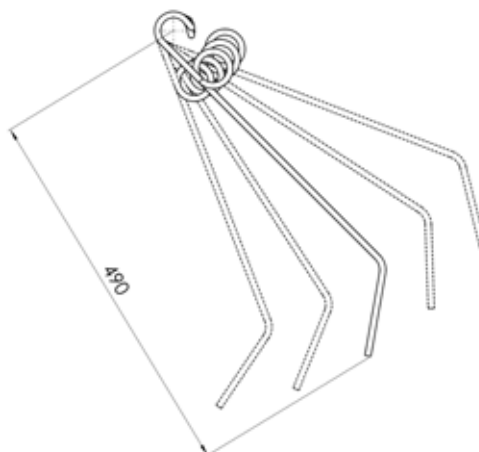


STOP BAR FOR PERFECT ADAPTION TO THE SURFACE

By taking away or demounting the stop bar on the wing (only on machines without shear folding) the machine follows the contours of the land surface perfectly.

TINE AGGRESSIVNESS QUICKLY ADJUSTABLE VIA CENTRAL ADJUSTMENT LEVER

The aggressivness of the spring loaded tines on the grassland care machine can be adjusted as required via one central adjustment lever per tine section in 5 positions between "dragging" or "on grip".

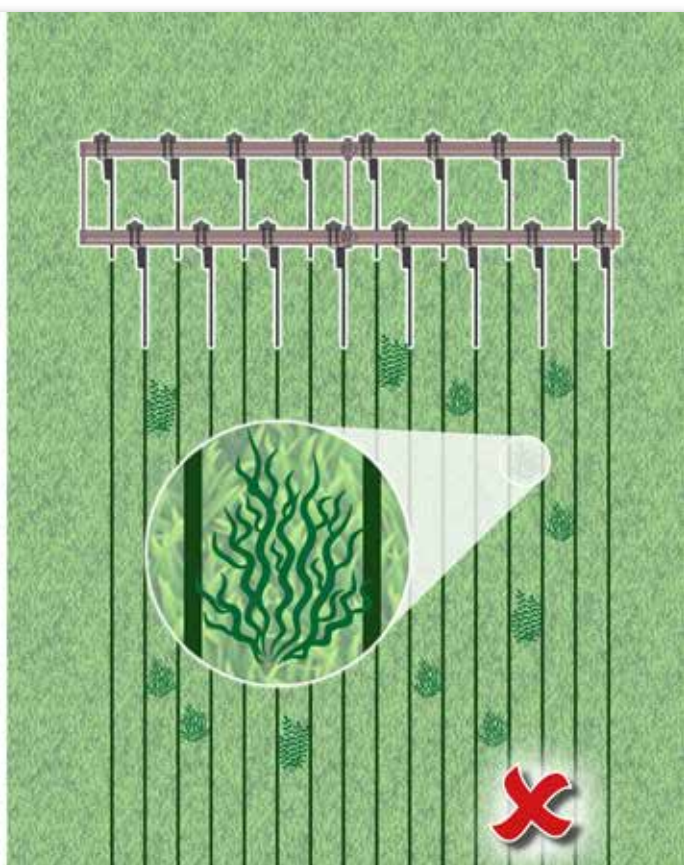
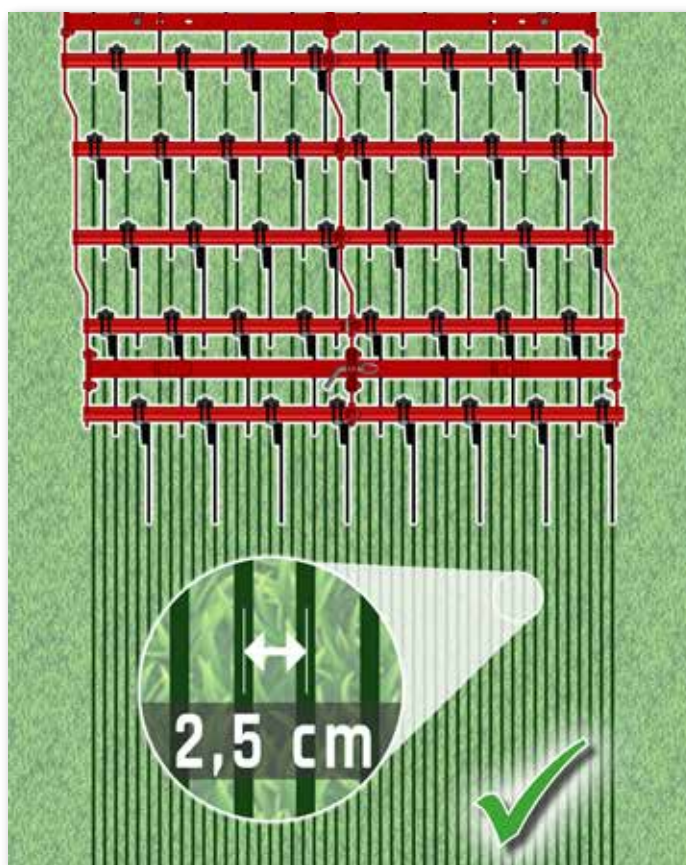
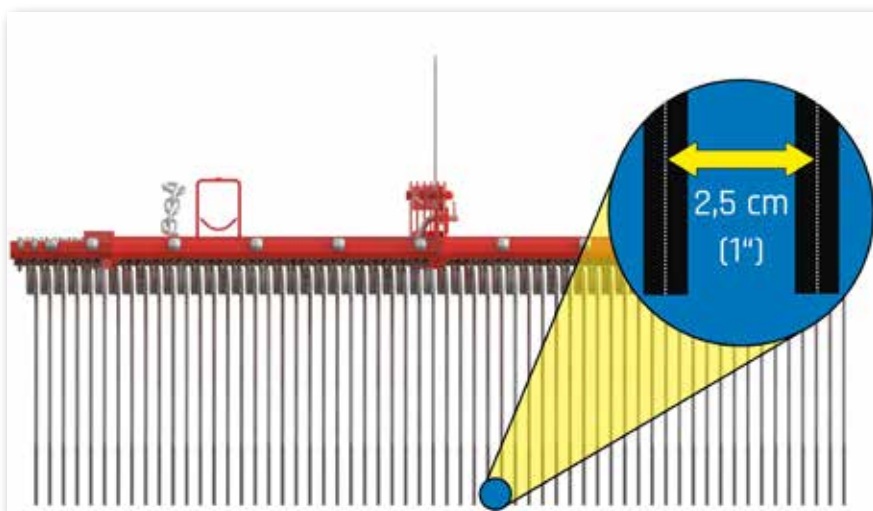


LINE SPACING OF 2.5 CM | 1"

GRASS-MANAGER (-PRO) | PNEUMATICSTAR (-PRO)

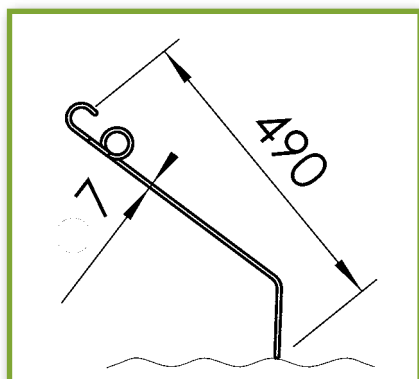
The line spacing has a decisive influence on the working effect and quality of the operation. With a 6-row arrangement of 60 tines per 1.5 m / 59.1" field, an effective line spacing of 2.50 cm / 1" is achieved. The basic requirement for efficient weed control is the smallest possible line spacing.

The correct spacing of the tines in combination with aggressively adjustable tines is the main criterion that makes a grassland reseeding successful. In order to be able to effectively de-thatch the turf, a narrow spacing of the tines is required. Only this ensures the entire surface is worked.

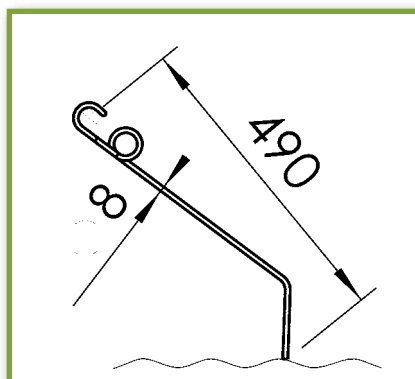


THE RIGHT TINE

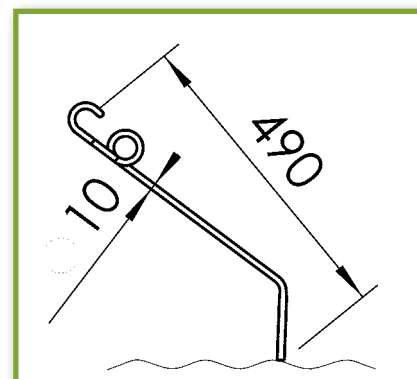
GRASSMANAGER (-PRO) | PNEUMATICSTAR (-PRO)



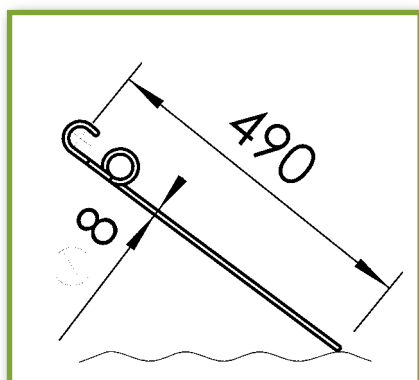
This universal tine with a diameter of 7 mm / 0.28" and a length of 490 mm / 19.3" is optimal for middle to hard soils. With this tine length, soil unevenness can be perfectly compensated.



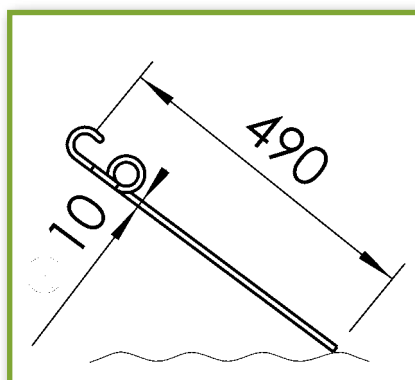
In case of middle matted grassland or middle soil conditions, the tines with a diameter of 8 mm / 0.31" and a length of 490 mm / 19.3" are preferable. These tines are also the most used.



For heavily matted grassland or for middle to hard soil conditions, the tines with a diameter of 10 mm / 0.39" and a length of 490 mm / 19.3" should be used. These grassland tines are also ideal when used to control meadow panicle in summer. **(Only available for frame version SR & PRO)**



For stony soil, in order not to bring stones to the surface, we recommend the straight tines with a diameter of 8 mm / 0.31" and a length of 490 mm / 19.3". Tines adjusted "dragging" protect the turf in wet grassland.



For heavily weeded areas and stony soils, in order not to necessarily deposit the stones on the soil surface, we recommend these straight tines with a diameter of 10 mm / 0.39" and a length of 490 mm / 19.3". "Dragging" tines are gentle on the turf in wet or boggy grassland. **(Only available for frame version SR & PRO)**

Type	Standard equipment	Options
GRASS-MANAGER	8/490	-
GRASS-MANAGER SR	8/490	10/490
GRASS-MANAGER-PRO	8/490	10/490
PNEUMATICSTAR	7/490	8/490
PNEUMATICSTAR SR	7/490	8/490 10/490
PNEUMATICSTAR-PRO	8/490	10/490
SPORTSTAR	6,5/490	6,5/380

Specifications in mm
Conversion mm in inch = mm / 25,4



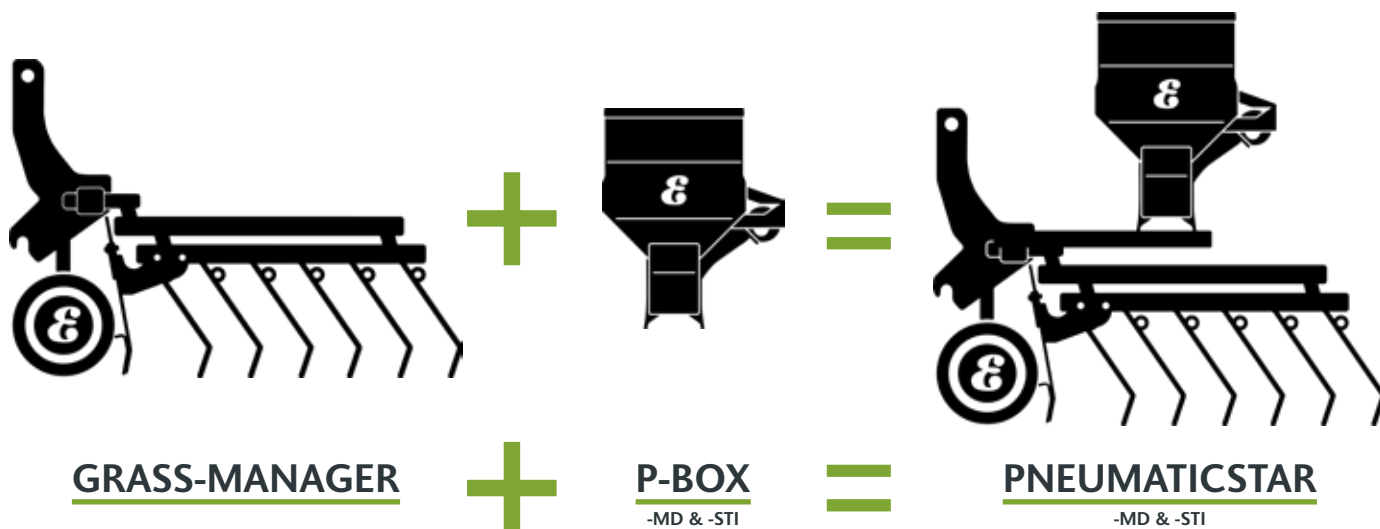
GRASSLAND WEEDER / UNIVERSAL TINED SEEDER

GRASS-MANAGER & PNEUMATICSTAR



MACHINE COMBINATIONS

GRASS-MANAGER | PNEUMATICSTAR



Perfect suited for:

- » Farms growing various crops: weeding of grassland and field crops
- » Farmers growing nurse crops in cereals, corn, ...
- » Small to medium size grassland farms



The universal all-rounder for grassland & cultivation!



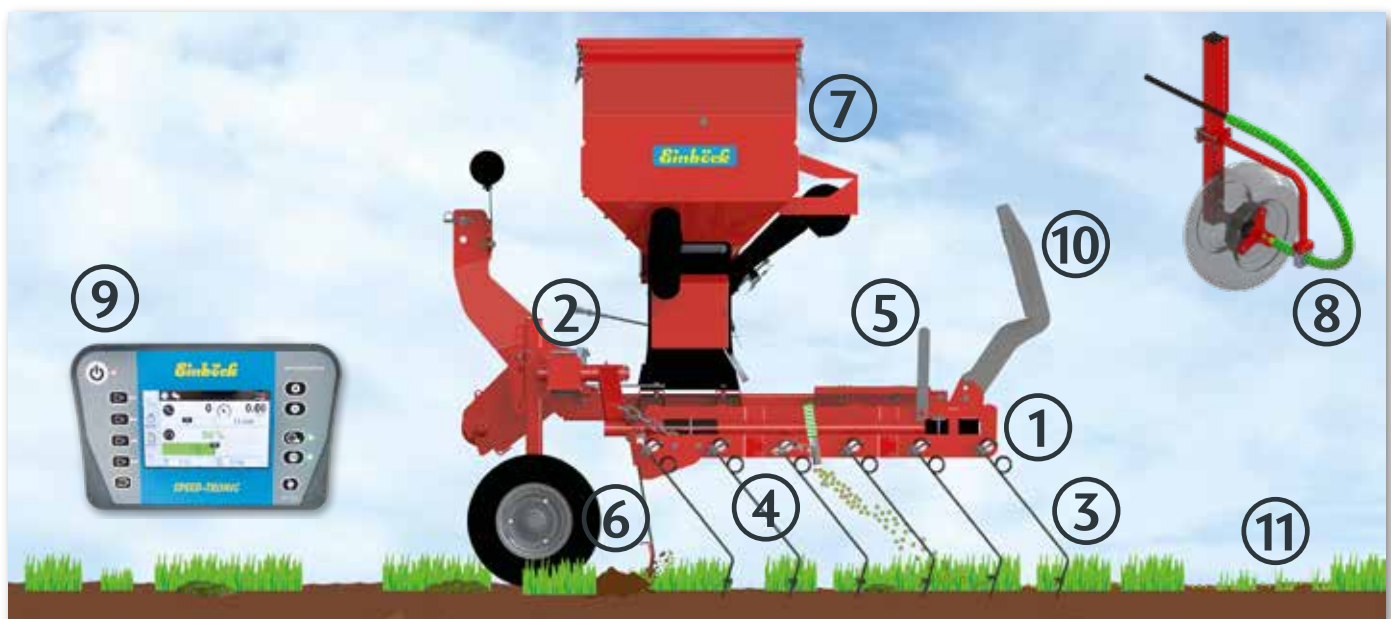
CONCEPT

GRASS-MANAGER | PNEUMATICSTAR

GRASS-MANAGER

PNEUMATICSTAR (-MD & -STI)

1. **Increased vibration effect** due to special tines and holder.
2. Stable and **durable frame**
3. Effective operation due to **narrow line spacing of exact 2,5 cm / 1"**
4. **Large selection of tines as options** = the right tine for every job
5. **Central adjustment** of the tine position per section (optional hydraulic adjustment)
6. Optionally available **front levelling plates**
7. **P-BOX-MD** or **STI** for optimal and accurate seeding
8. **The seeding roller is driven mechanically** via a flexible shaft on a support wheel on the implement (**MD**)
9. **The seeding roller is driven electronically** via the SPEED-TRONIC control system in the tractor (**STI**)
10. **Steps** for easy and safe filling of the seeding box
11. **No reconsolidation roller**





REWARDING. PROVEN. DYNAMIC.

GRASSLAND WEEDER GRASS-MANAGER

Even on healthy and balanced grassland an annual maintenance is absolutely essential. The long-established grassland weeder GRASS-MANAGER is especially designed for that purpose. It aerates and dethatches the turf. Furthermore, it crushes plants residues, manures and mixes the material.

A GRASS-MANAGER with pneumatic seed drill results in the PNEUMATICSTAR.



Type/ working width cm	Sections	Feeler wheels	Tines	from HP/kW	Weight approx. kg / lbs
RIGID non folding:					
GRASS-MANAGER 150	1x1,5	2	60	20/15	190 kg 419 lbs
GRASS-MANAGER 200	1x2,1	2	84	25/18	200 kg 441 lbs
GRASS-MANAGER 300	2x1,5	2	120	30/22	250 kg 551 lbs
Hydraulic retraction:					
GRASS-MANAGER 450	3x1,5	4	180	40/29	520 kg 1146 lbs
GRASS-MANAGER 500	1x2,1 / 2x1,5	4	204	50/37	540 kg 1190 lbs
GRASS-MANAGER 600	4x1,5	4	240	60/44	640 kg 1410 lbs
GRASS-MANAGER 600 SR	4x1,5	4	240	60/44	800 kg 1764 lbs
GRASS-MANAGER 750	5x1,5	4	300	70/51	850 kg 1874 lbs
GRASS-MANAGER 900 ^{1,3)}	6x1,5	4	360	80/59	1170 kg 2579 lbs
GRASS-MANAGER 900 SR ³⁾	6x1,5	4	360	80/59	1260 kg 2778 lbs
GRASS-MANAGER 1200 ^{2,3)}	8x1,5	4	480	90/66	1310 kg 2888 lbs
GRASS-MANAGER 1200 SR ³⁾	8x1,5	4	480	90/66	1420 kg 3131 lbs

1) Can be extended to 12 m / 39.40 ft. working width

2) Can be reduced to 9 m / 29.50 ft. working width

3) Hydraulic folding with shear retraction

SR = heavy frame for contractors or communities

STANDARD EQUIPMENT

- ✓ Tines ø 8 mm / 0.31", 490 mm / 19.29" long | individually exchangeable | 10 cm wear length
- ✓ Real line spacing 2.5 cm / 1"
- ✓ Sturdy, durable plastic tine holder
- ✓ Tube frame section providing equal working pressure over the full section width
- ✓ 6 row tine section with central tine adjustment per section
- ✓ 5-stage adjustable angle of the tines
- ✓ Lower links with quick coupling pendular axle (up to article 55060)
- ✓ Sturdy tube frame | adjustable rubber support wheels | parking support for hydr. foldable machines
- ✓ Large bearing mounted rubber support wheels, dimension 16x6.50/80 (for machines with shear-folding 18x8.50-8)
- ✓ The side sections swing in automatically through parallel guidance (for hydr. foldable machines)

OPTIONS

- » Hydraulic tine adjustment (not in combination with front levelling plates)
- » Front levelling plates (up to 6 m / 20ft working width and all SR)
- » Tines 490 mm / 19.3 long, Ø 10 mm / 0.39" (only for SR models)
- » Tines 490 mm / 19.3 long STRAIGHT, Ø 8 mm / 0.31"
- » Hydraulic transport lock
- » Track width up to 2,15 m / 85"
- » Pneumatic seeder P-BOX
- » Warning signs with holder and LED-light



The universal machine for grassland, as well as mechanical weed control in field crops (cereals, corn, soybeans,...)



FRESH. MOTIVATED. ROUTINED

UNIVERSAL TINED SEEDER PNEUMATICSTAR (-MD & -STI)

The PNEUMATICSTAR is designed for grassland care, seeding, under- and reseeding. The seeding roller is driven mechanically via the support wheel or is electronically controlled by different sensors. It is designed with steady frames and, depending on the working width, the frame is rigid or mechanic or hydraulic folding. Using high-quality materials and through the special, solid construction you can put additional pressure on the 6-row tine sections in hard soil conditions.

There are 2 versions of the PNEUMATICSTAR available. MD Version with mechanical drive of the seeding roller and STI with electronic drive of the seeding roller, controlled by the SPEED-TRONIC terminal.



Type/ working width cm	Tines	Feeler wheels	Deflector plates	Sections	Seeding rollers	from HP/kW	Weight approx. kg / lbs
PNEUMATICSTAR 200 ¹⁾	84	2	8	1	B, E	25/18	260 kg 419 lbs
PNEUMATICSTAR 300 ¹⁾	120	2	8	2	B, E	30/22	350 kg 772 lbs
PNEUMATICSTAR 500 ²⁾	204	4	8	3	C, E	50/37	580 kg 1279 lbs
PNEUMATICSTAR 600 ²⁾	240	4	8	4	C, E	60/44	690 kg 1522 lbs
PNEUMATICSTAR 600 SR ²⁾	240	4	8	4	C, E	60/44	920 kg 2029 lbs
PNEUMATICSTAR 600 NR ³⁾	240	4	8	4	C, F	80/59	1100 kg 2426 lbs
PNEUMATICSTAR 900 ^{3,4)}	360	4	12	6	G, H	90/66	1400 kg 3087 lbs
PNEUMATICSTAR 900 SR ³⁾	360	4	12	6	G, H	90/66	1490 kg 3285 lbs
PNEUMATICSTAR 1200 ³⁾	480	4	16	8	D, F	100/74	1650 kg 3638 lbs
PNEUMATICSTAR 1200 SR ³⁾	480	4	16	8	D, F	100/74	1760 kg 3881 lbs

1) Rigid frame, not foldable

2) Hydraulic folding

3) Hydraulic folding with double folding

4) Can be extended up to 12 m / 39.40 ft.

SR = heavy frame (for contractors or communities)

NR = with mechanical fan, also suitable for the distribution of fertilizer (seeding unit as well as distribution plates made from stainless steel), stronger gearbox, no European folding - frame SR version (heavy frame), 500 l tank standard

STANDARD EQUIPMENT

- ✓ Tines ø 7 mm / 0.28", 490 mm / 19.29" long | individually exchangeable | 10 cm wear length
- ✓ Real line spacing 2.5 cm / 1"
- ✓ Sturdy, durable plastic tine holder
- ✓ Tube frame section providing equal working pressure over the full section width
- ✓ 6 row tine section with central tine adjustment per section
- ✓ 5-stage adjustable angle of the tines
- ✓ Lower links with quick coupling pendular axle (up to article 59602)
- ✓ Sturdy tube frame | adjustable rubber support wheels | parking support for hydr. foldable machines
- ✓ Parking support from 3 m working width
- ✓ Steps for filling

Standard equipment seeder P-BOX-MD:

- » Mechanical quantity dosing via feeler wheel and flexible shaft as well as adjustable, infinitely variable oil bath gearbox
- » See P-BOX-MD

Standard equipment seeder P-BOX-STI:

- » SPEED-TRONIC control terminal: Clear & coloured menu navigation, various individual setting options, automatic calibration test, automatic pre-dosing, area and hour counter, pleasing terminal design in protection class IP65, etc. - power supply via 3-pin socket
- » Electric quantity dosing via a ground wheel sensor - automatic switch off at the headland via an upper link sensor
- » See P-BOX-STI

OPTIONS

- » Like GRASS-MANAGER
- » Like P-BOX-STI & P-BOX-MD

DETAILS & ADVANTAGES

GRASS-MANAGER | PNEUMATICSTAR

RUBBER SUPPORT WHEELS FOR GENTLE OPERATION

Depending on the working width, the grassland- and reseeding weederers are guided by two or four rubber support wheels. Via the support wheels the working depth of the tines is regulated. They are height-adjustable in the halfhole grid.



MECHANICAL LOCKING IN TRANSPORT POSITION

Frames on machines without shear folding lock mechanically in transport position. The lock is released via a pulling-rope. (only on machines without shear folding).

STABLE OPERATION

Due to the solid and strong frame construction the operation of machine and frame is very steady, even in higher working speeds. Also on hard soil the tined weeder can apply sufficient pressure on the tines without making the frame swing. In addition, the frame is designed to withstand heavy loads and many seasons of operation without any problems.



STRONGER CONSTRUCTION FROM 9 M / 29.50 FT. WORKING WIDTH

A larger working width means greater forces acting on a machine. The triangular bracing on machines with shear folding prevents the side wings from swinging and jumping even at higher working speeds. The tine aggressiveness can be adjusted depending on the conditions.



OPTIONAL: LEVELLING PLATE FOR EXCELLENT DISTRIBUTION AND LEVELLING OF MOLE HILLS

In front of the weeder sections a levelling plate can be mounted, which is overload-protected by a leaf spring. This levelling plate is height adjustable and ensures an excellent distribution and levelling of mole hills. In addition, it distributes and levels manure and slurry. (Only up to 6 m / 19.70 ft. working width and for 900 SR and 1200 SR, not in combination with hydraulic tine adjustment)

OPTIONAL: HYDRAULIC TINE ADJUSTMENT - PERFECT IN CHANGING SOIL CONDITIONS

The hydraulic tine adjustment makes adjustment of the GRASS-MANAGER and the PNEUMATICSTAR in changing soil conditions easier. Furthermore, folding to the transport position is more convenient as you can easily put the tines into a flat position. The hydraulic tine adjustment can be retrofitted any time.



DETAILS & ADVANTAGES

PNEUMATICSTAR

PERFECT FOR UNDER- OR RESEEDING

The pneumatic seeders with integrated stirring-shaft are designed in such a way that each sowing tube has its own seeding roller section to achieve perfect dosing and uniform output. For working widths wider than 6 m / 19.70 ft. the seeding hoses are split to reach 12 or 16 outlets. Machines up to 6 m / 19.70 ft. working width are standard equipped with an electric double fan. Bigger machines work with a mechanical fan as standard. A hydraulic fan is available as an option.



DRIVEN BY A RUBBER WHEEL (MD)

On the grassland weeder PNEUMATICSTAR-MD the pneumatic seeding box P-BOX-MD is mounted. On the P-BOX-MD the seeding roller is mechanically driven via a flexible shaft, which transfers the actual ground speed from a ground wheel to the seeding roller. The seeds are distributed pneumatically via hoses to the deflector plates, which spread the seeds evenly. The seeding rate is adjusted via a lever which is mounted on the stepless gearbox of the P-BOX-MD.

PRECISE, ELECTRIC DISTRIBUTION OF VARIOUS SEEDS (STI)

On the grassland weeder PNEUMATICSTAR-STI the drive of the seeding roller is done by an electric motor which communicates with various sensors. This ensures the adjusted seeding rate is constant, independent from changing working speed. The adjustment/control is done via the SPEED-TRONIC terminal from the tractor's cab. On machines up to 6 m / 19.70 ft. the air flow is generated by an electric double fan. For machines which are bigger than 6 m / 19.70 ft. working width a mechanical fan is used as standard (picture). A hydraulic fan is available as an option.



NO ROLLERS

To combine grassland weeder and rollers in one machine does not provide the desired effect. Even distribution of the seeds over the entire working width, which is ensured by the centrally placed deflector plates, is the key factor for good emergence of the seeds. Furthermore, the operating speed of roller and grassland weeders do not match. In case soil gets stuck to the roller, seeds which have been distributed by the weeder get stuck on it and previously sown grass is collected from the ground again. In addition, a roller establishes contact between previously torn out weeds (such as the rough stalked meadow grass) and the ground. So they will not dry out but continue to grow. Especially for reseeding and grassland care, rolling is not necessary as the roller runs on the turf and has very limited contact to the soil. For new seeding rolling can be beneficial, but it should be done in a separate operation after weeds dried out and with the optimal working speed for rolling.



DEFLECTOR PLATES ARE MOUNTED CENTRALLY ON THE TINE SECTIONS

The deflector plates with splash-guard are placed in the centre of each tine section. They spread the seeds before the last two rows of tine sections to establish optimal seed to soil contact.

GREAT FLEXIBILITY OF USE

Just a few examples of the various ways you can use the machines: re- or new seeding in grassland (1), underseeding in cereals (2) or corn (3), etc.







GRASSLAND HARROW

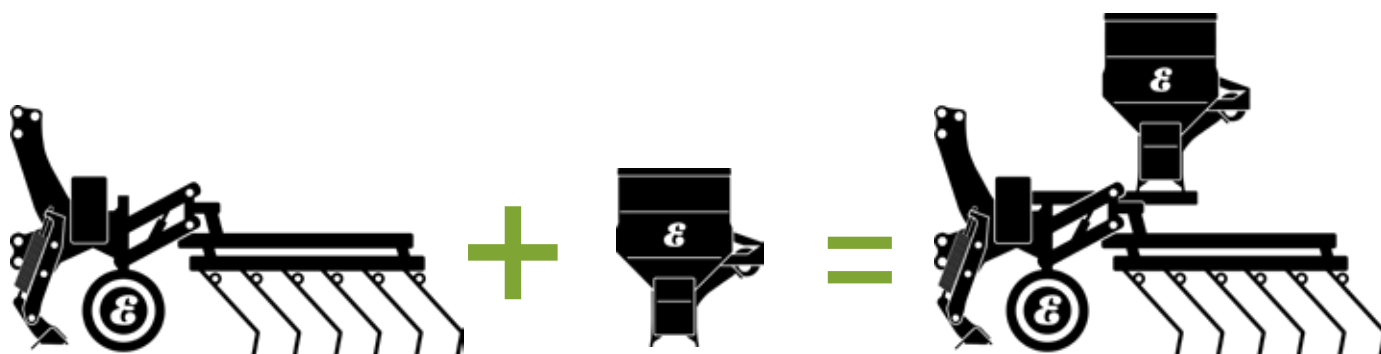
GRASS-MANAGER-PRO

GRASSLAND SEEDER

PNEUMATICSTAR-PRO

MACHINE COMBINATIONS

GRASS-MANAGER-PRO | PNEUMATICSTAR-PRO



GRASS-MANAGER-PRO



P-BOX

-MD & -STI



PNEUMATICSTAR-PRO

-MD & -STI

Perfect suited for:

- » Pure grassland farms or farms with predominantly grassland
- » Contractors & communities
- » Grassland-specialists
- » Extremely uneven fields and a high number of molehills
- » Big farms



**The EXPERT among the grassland weeders.
Grassland care without compromise.**



CONCEPT

GRASS-MANAGER-PRO | PNEUMATICSTAR-PRO

GRASS-MANAGER-PRO

PNEUMATICSTAR-PRO (-MD & -STI)

1. Heavy-duty **triangular levelling bar** to level out mole hills
2. Solidly built **flexible frame** for perfect ground adaption
3. Hydraulically controlled, parallelogram guided **fixed weeder sections**
4. **8 mm / 0.31"** or **10 mm / 0.39"** direct spring-loaded **tines** with exact **2,5 cm / 1"** line spacing
5. **Distribution plates** with splash guard for ideal spreading of the seeds
6. **P-BOX-MD** or **STI** for ideal seeding
7. The **seeding roller** is driven **mechanically** via a flexible shaft on the ground wheel of the weeder (**MD**)
8. The **seeding roller** is driven **electronically** via the SPEED-TRONIC control system in the tractor (**STI**)
9. **Steps** for easy and safe filling of the seeding box
10. **No reconsolidation roller**





PERSISTENT. EXPERIENCED. VIBRANT.

GRASSLAND HARROW GRASS-MANAGER-PRO

The GRASS-MANAGER-PRO is the consequent further developed version of the GRASS-MANAGER that has been proven in years. Every section is mounted on a parallelogram. One hydraulic cylinder per section ensures a perfect adaption to uneven ground and an optimal pressure compensation of the sections. The pressure can easily be adjusted from the tractor. A heavy triangular front levelling plate in front of the support wheels evens the mole hills.

A pneumatic seeding box can be mounted on the GRASS-MANAGER-PRO at any time (PNEUMATICSTAR-PRO).



Perfectly levels molehills, aerates and dethatches the turf



Type/ Working width cm	Tines	Front levelling plates	Feeler wheels	Sections	from HP/kW	Weight approx. kg / lbs
With front levelling plates - without seeder						
GRASS-MANAGER-PRO 300	120	2	4	2	60/44	670 kg 1477 lbs
GRASS-MANAGER-PRO 600	240	4	6	4	80/59	1280 kg 2822 lbs
GRASS-MANAGER-PRO 900	360	6	8	6	130/95	2175 kg 4795 lbs
GRASS-MANAGER-PRO XXL ¹⁾	480	8	8	8	170/125	4200 kg 9259 lbs

1) Trailed

STANDARD EQUIPMENT

- ✓ Tines ø 8 mm / 0.31", 490 mm / 19.29" long | individually exchangeable | 10 cm wear length
- ✓ Real line spacing 2.5 cm / 1"
- ✓ Sturdy, durable plastic tine holder
- ✓ Tube frame section providing equal working pressure over the full section width
- ✓ 6 row tine section with central tine adjustment per section
- ✓ 5-stage adjustable angle of the tines
- ✓ Lower and top link mountings are equipped with hardened bushings
- ✓ Robust articulated frame guarantees optimum soil adaptation
- ✓ Heavy, spring suspended, triangular front levelling bar working in front of the support wheels
- ✓ Sections parallel guided with hydraulic level control - for perfect ground adaption
- ✓ Large bearing mounted rubber support wheels
- ✓ Parking support
- ✓ Wheel chocks for model 1200

OPTIONS

- » Tine 490 mm / 19.30" long, Ø 10 mm / 0.39"
- » Tine 490 mm / 19.30" long STRAIGHT, Ø 10 mm / 0.39"
- » Front mounting frame for driving in front
- » Pneumatic seeder P-BOX
- » Warning signs with holder and LED-light
- » For further special accessories, please contact Einböck



ECONOMIC. PRODUCTIVE. DETERMINED.

PROFESSIONAL GRASSLAND SEEDER PNEUMATICSTAR-PRO (-MD & -STI)

The PNEUMATICSTAR-PRO is designed as the version for professionals or large farms (in comparison to the PNEUMATICSTAR) for grassland restoration. The machine is available in working width 3 to 12 metres (9.80 to 39.40 ft.) with an extremely solid frame construction. A heavy levelling board which is overload-protected by springs, levels molehills in front of the support wheels. It is adjusted "on hold", so it lifts the soil and spreads it loose in the turf. Pores in the soil are not smeared up!

As the support wheels are behind the levelling plate the machine works very smoothly with a high working speed.

There are 2 versions of the PNEUMATICSTAR-PRO available. MD Version with mechanical drive of the seeding roller and STI with electronic drive of the seeding roller, controlled by the SPEED-TRONIC terminal.



Type/ Working width cm	Tines	Front levelling plates	Feeler wheels	Deflector plates	Sections	Seeding rollers	from HP/ kW	Weight approx. kg / lbs
With front levelling plates - with seeding box								
PNEUMATICSTAR-PRO 300 ^{1,3)}	120	2	4	8	2	B, E	60/44	790 kg 1742 lbs
PNEUMATICSTAR-PRO 600 ^{1,4)}	240	4	6	8	4	C, E	80/59	1370 kg 3021 lbs
PNEUMATICSTAR-PRO 900 ^{7,8)}	360	6	8	12	6	G, H	130/95	2265 kg 4994 lbs
PNEUMATICSTAR-PRO XXL ^{2,5,6)}	480	8	8	16	8	D, F	170/125	4440 kg 9789 lbs

1) Electrical double fan 12 Volt

2) Hydraulic fan with oil pressure manometer (requirements: pressure free return line, maximum capacity of the oil pump must not exceed 50 litres; recommendation: independent hydraulic valve or load sensing system)

3) 1 double -acting hydraulic valve necessary

4) 1 double -acting and 1 single-acting hydraulic valve necessary

5) 2 double-acting hydraulic valves and 1 single-acting hydraulic valve pressure free return necessary

6) Trailed

7) Package folding

8) Mechanical fan & 3 double-acting control units

STANDARD EQUIPMENT

- ✓ Tines ø 8 mm / 0.31", 490 mm / 19.29" long | individually exchangeable | 10 cm wear length
- ✓ Real line spacing 2.5 cm / 1"
- ✓ Sturdy, durable plastic tine holder
- ✓ Tube frame section providing equal working pressure over the full section width
- ✓ 6 row tine section with central tine adjustment per section
- ✓ 5-stage adjustable angle of the tines
- ✓ Lower and top link mountings are equipped with hardened bushings
- ✓ Robust articulated frame guarantees optimum soil adaptation
- ✓ Heavy, spring suspended front levelling bar (triangular) working in front of the support wheels
- ✓ Sections parallel guided with hydraulic level control - for perfect ground adaption
- ✓ Large bearing mounted rubber support wheels
- ✓ Parking support with filling steps
- ✓ Wheel chocks for model 1200

Standard equipment seeder P-BOX-MD:

- » Mechanical quantity dosing via feeler wheel and flexible shaft as well as adjustable, infinitely variable oil bath gearbox
- » See P-BOX-MD

Standard equipment seeder P-BOX-STI:

- » SPEED-TRONIC control terminal: Clear & coloured menu navigation, various individual setting options, automatic calibration test, automatic pre-dosing, area and hour counter, pleasing terminal design in protection class IP65, etc. - power supply via 3-pin socket
- » Electric quantity dosing via a ground wheel sensor - automatic switch off at the headland via an upper link sensor
- » See P-BOX-STI

OPTIONS

» Like GRASS-MANAGER-PRO

» Like P-BOX-STI & P-BOX-MD

DETAILS & ADVANTAGES

GRASS-MANAGER-PRO | PNEUMATICSTAR-PRO

HEAVY FRONT LEVELLING PLATE FOR PERFECT LEVELLING OF MOLE HILLS

A heavy triangular levelling plate in front of the support wheels levels out the mole hills. The soil is distributed evenly on the surface, there is no reconsolidation of the ground and the pores of the soil remain open.



HYDRAULIC PRESSURE REGULATION

The hydraulic pressure on the parallelograms can be adjusted from the cab via the tractor's hydraulic system. This means that the tine pressure can be easily increased or reduced depending on the soil conditions. The tine aggressiveness is identical on each section over the full working width. The turf is aerated - this helps to control the rough meadow-grass in summer. The hydraulic levelling system guarantees an equal pressure on each weeder section and the tines follow the contour of the ground perfectly also in uneven terrain.

PARALLELOGRAM-GUIDED WEEDER SECTIONS

The hydraulic levelling system with parallelograms works very smoothly even when working at high speed. The weeder sections are always parallel to the ground so all tines have the same pressure.



IDEAL ADJUSTMENT OF THE FRAME TO FOLLOW THE CONTOUR OF THE GROUND

The joints are equipped with hardened bolts with \varnothing 35 mm / 1.38" and brass bushings which can be greased. The position of the stop bars changes the setup of the frame - either it is rigid or the side wings can go down to follow the contour of the surface even better. Not only the tine sections, but also the heavy levelling boards can follow the surface of the ground.



STRONG FRAME FOR LONG SERVICE-LIFE

The main frame is made from 150x100x6 mm / 5.9x3.9x0.2" steel tubes and gusset plates reinforce heavily loaded spots of the frame.



DETAILS & ADVANTAGES

GRASS-MANAGER-PRO | PNEUMATICSTAR-PRO

SIX FEELER WHEELS FOR SMOOTH OPERATION

Six feeler wheels guide the frame smoothly over the grassland with precise depth control and ensure operation without shaking of the frame even when working in high speed (8x for model 900).



STABLE OPERATION

Due to the solid and strong frame construction the operation of machine and frame is very steady, independently from the working speed. Also on hard soil the tined weeder can apply sufficient pressure on the tines without making the frame swing. In addition, the frame is designed to withstand heavy loads and many seasons of operation without any problems.

HARDENED BUSHINGS

Hardened bushings on the 3-point mounting ensure a long working life of the mounting.



DETAILS & ADVANTAGES

PNEUMATICSTAR-PRO

DRIVE OF THE SEEDING ROLLER VIA A GROUND WHEEL (MD)

On the grassland weeder PNEUMATICSTAR-PRO-MD the pneumatic seeding P-BOX-MD is mounted. On the P-BOX-MD the seeds are distributed pneumatically via hoses to the deflector plates, which spread the seeds evenly. The seeding roller is mechanically driven via a flexible shaft, which transfers the actual ground speed via a 90° angle unit from a ground wheel to the seeding box. The 90° angle unit is especially protected against damage through stones or soil. The seeding rate is adjusted via a lever which is mounted on the stepless gearbox of the P-BOX-MD.



PRECISE, ELECTRIC DISTRIBUTION OF VARIOUS SEEDS (STI)

On the grassland weeder PNEUMATICSTAR-PRO-STI the drive of the seeding roller is done by an electric motor which communicates with various sensors. This ensures the adjusted seeding rate is constant, independent from changing working speed. The adjustment/control is done via the SPEED-TRONIC terminal from the tractor's cab.

DEFLECTOR PLATES ARE MOUNTED CENTRALLY ON THE TINE SECTIONS

The deflector plates with splash-guard are placed in the centre of each tine section. They spread the seeds before the last two rows of tine sections to establish optimal seed to soil contact.



DETAILS & ADVANTAGES

PNEUMATICSTAR-PRO

NO ROLLERS

To combine grassland weeder and rollers in one machine does not provide the desired effect. The centrally placed deflector plates ensure an even distribution of the seeds over the full working width. Furthermore, the operation speed of roller and grassland weeder do not match. In case soil gets stuck to the roller, seeds which have been distributed by the weeder get stuck on it and previously sown grass is collected from the ground again. In addition, a roller establishes contact between previously torn out weeds (such as the rough stalked meadow grass) and the ground. So they will not dry out, but continue to grow. Especially for reseeding and grassland care, rolling is not necessary as the roller runs on the turf and has very limited contact to the soil. For new seeding rolling can be beneficial, but it should be done in a separate operation after weeds dried out and with the optimal working speed for rolling. More about this in "The grassland care handbook".



PARKING SUPPORT WITH STEPS FOR FILLING

The filling steps ensure a safe and quick filling of the seed tank.





DETAILS & ADVANTAGES

PNEUMATICSTAR-PRO XXL

PNEUMATICSTAR-PRO XXL: OPTIMAL GUIDANCE OF THE MACHINE IN THE FIELD

The PNEUMATICSTAR-PRO XXL is designed for big farms. The trailing chassis, which is connected to the lower links of the tractor, is carried by 2 large wheels. During operation 6 ground wheels ensure optimal guidance of the machine over the field. Sturdy profil frame prevents the machine from swinging back- or forwards. Also the XXL-Version can be equipped with a P-BOX-MD or P-BOX-STI.



PNEUMATICSTAR-PRO XXL: HALF-TIMBERED CONSTRUCTION

The construction of the main frame enforced by cross braces is a guarantee for a long product life.

PNEUMATICSTAR-PRO XXL: TANK VOLUME 500 L

For an efficient working and without losing too much time refilling the tank, a tank with a volume of 500 litres standard.



PNEUMATICSTAR-PRO XXL: TRANSPORT WIDTH OF 3 M / 9.80 FT.

The sophisticated retraction mechanism together with putting the tines into the lowest angle position makes it possible to reduce the transport width to only 3 m / 9.80 ft.





MECHANICAL. SIMPLE. EFFECTIVE.

PNEUMATIC SEEDING BOX P-BOX-MD

The P-BOX-MD is an air seeder which can be mounted easily and fast to a lot of Einböck machines and also on machines of other manufacturers. It is able to seed all standard seeds and their mixtures up to 1 kg/ha. The seed is pneumatically distributed via hoses to the distribution plates, where an exact spreading takes place. The seed roller is driven by a flexible shaft, which is driven by the support rubber wheel of the machine (or separate tail wheel).

The seed rate of the pneumatic seeding box can be infinitely varied between 1 kg - 300 kg/ha by simple adjustment depending on the working width, travel speed and fan variant. With the P-BOX-MD many possible applications such as seeding of intercrops, catch crops, winter greening, new seeding, reseeding, fertilization, etc. can be done.



Type/ Working width cm	Working width max. ³⁾	Tank volume in litre	Deflector plates	Weight approx. kg / lbs	Seeding rollers
P-BOX-MD 600 ¹⁾	6.00 m / 19.70 ft.	300	8	86 kg 190 lbs	B, E
P-BOX-MD 1200 ²⁾	12.00 m / 39.40 ft.	300	16	105 kg 232 lbs	D, F

1) For the 6 m / 19.70 ft. machine heavy seeds can be spread up to 3 m / 9.80 ft. for distribution of heavy seeds on 6 m / 19.70 ft. working width there is the choice between hydraulic or mechanical fan

2) With mechanical fan

3) For small seeds

STANDARD EQUIPMENT

- ✓ P-BOX-MD = seeding rate controlled via ground wheel
- ✓ Bottom drive with flexible shaft 2,1 m long
- ✓ Mounting parts for bottom drive via air wheel
- ✓ Pneumatic seeder with stirring shaft and separate seeding roller section per hose
- ✓ Mounting console
- ✓ Specially designed distribution plates with splash guard
- ✓ One seeding roller with fine and one with coarse toothing
- ✓ Seeding roller can be changed without tools
- ✓ Tank made of sheet steel: Tank volume 300 litres
- ✓ Calibration plate | calibration pan | monitoring window | opening to fully empty the box
- ✓ Model 600 with electric fan, 12 volts and 24 m hose
- ✓ Model 1200 with mechanical fan and PTO-shaft and 40 m hose

OPTIONS

- » Various options of ground wheels
- » Reinforced gearbox (for higher application rates)
- » Cable to tractor 8 m / 26.20 ft. instead of 3 m / 9.80 ft.
- » Hectare-counter electronic
- » Airflow monitoring
- » Alarm when seeding box is getting empty
- » Electric adjustment of seeding quantity
- » Mechanical jogging unit
- » Retaining plate
- » Tank support
- » 500L tank
- » 265L plastic tank instead of steel tank
- » Mech. fan (standard at P-BOX-MD 1200) or hydr. fan
- » Various options of flexible shafts
- » 90° angle unit for flexible shaft
- » Special seeding rollers
- » Dummy plug
- » Seeding unit made from stainless steel
- » Deflector plate made from stainless steel
- » Steps for filling and assembly kits for many machines



ELECTRICAL. PRECISE. COMFORTABLE.

PNEUMATIC SEEDING BOX P-BOX-STI

The P-BOX-STI is a pneumatic airseeder with electrical quantity dosage. The user-friendly electronic SPEED-TRONIC control unit regulates the seed quantity depending on the factual working speed. The necessary speed info can be obtained via several sensors or via the 7-pole signal socket of the tractor.

With the P-BOX-STI it is possible to seed all standard seeds and their mixtures from 1 kg/ha. The seed is pneumatically distributed via hoses to the distribution plates, where an exact seeding takes place. The seed rate can be infinitely adjusted by simple setting in the SPEED-TRONIC terminal. With the P-BOX-STI many possible applications such as seeding of intercrops, catch crops, winter greening, new seeding, reseeding, fertilization, etc. can be done.



Type/ Working width cm	Working width max. ³⁾	Tank volume in litre	Deflector plates	Weight approx. kg / lbs	Seeding rollers
P-BOX-STI 600 ¹⁾	6.00 m / 19.70 ft.	300	8	86 kg 190 lbs	B, E
P-BOX-STI 1200 ²⁾	12.00 m / 39.40 ft.	300	16	105 kg 232 lbs	D, F

1) With the 6 m / 19.70 ft. machine heavy seeds can be spread up to 3 m / 9.80 ft. for distribution of heavy seeds on 6 m / 19.70 ft. working width there is the choice between hydraulic or mechanical fan

2) With mechanical fan
3) For small seeds

STANDARD EQUIPMENT

- ✓ **P-BOX-STI** = electric drive of the seeding roller, controlled by the SPEED-TRONIC terminal in the tractor, speed info coming from wheel, GPS or radar sensor or from the tractor via 7-pin signal cable
- ✓ **SPEED-TRONIC** control terminal:
 - » Large 5-inch colour display
 - » Clear and intuitive menu navigation
 - » Haptic membrane buttons
 - » Intuitive, simple & automatic calibration test
 - » Predosing application for headland
 - » Area and hour counter, seeds library and more
 - » Terminal housing in protection class IP65 (dust and water resistant)
 - » High quality Sub-D-connections with gilded pins
 - » Various other individual setting options
 - » Power supply via 3-pin socket
- ✓ Pneumatic seeder with stirring shaft and separate seeding roller section per hose
- ✓ Mounting console
- ✓ Specially designed distribution plates with splash guard
- ✓ One seeding roller with fine and one with coarse toothing
- ✓ Seeding roller can be changed without tools
- ✓ Tank made of sheet steel: Tank volume 300 litres
- ✓ Calibration plate | calibration pan | monitoring window | opening to fully empty the box
- ✓ Model 600 with electric fan, 12 volts and 24 m hose
- ✓ Model 1200 with mechanical fan and PTO-shaft and 40 m hose

OPTIONS

- » Operation via ISOBUS = P-BOX-ISO
- » Wheel sensor for ground wheel or tail wheel
- » GPS-speed sensor, radar sensor or 7-pole cable
- » Upper link or lifting gear sensor (not necessary for 7-pole signal cable)
- » Alarm when seeding box is getting empty
- » Calibration button
- » Airflow monitoring
- » different extension cables
- » Mechanical jogging unit
- » Retaining plate
- » Tank support
- » 500L tank
- » 265L plastic tank instead of steel tank
- » Mech. fan (standard at P-BOX-STI 1200) or hydr. fan
- » Fan speed sensor
- » Electric special fan "E-POWER"
- » Seeding unit made from stainless steel
- » Deflector plate made from stainless steel
- » Holder for control terminal
- » Special seeding rollers
- » Dummy plug
- » Steps for filling and assembly kits for many machines

SEEDING OF NURSE CROPS WITH THE GRASSLAND WEEDER

PNEUMATICSTAR

The machines of the PNEUMATICSTAR-series are designed also to distribute nurse crops. Interseeding of clover or clover/grass mixture can collect up to 100 kg of nitrogen per ha. Fields with intercrops after harvesting of cereals show a positive nitrogen-balance. From underseeding of grasses in corn you can expect the following advantages:

- » Improved payload of the soil in wet conditions (harvesting, fertilizing)
- » Suppression of late-germinating weeds
- » Improvement of soil fertility and support huminication
- » Immediate cover of the soil after harvesting
- » Prevents erosion
- » Reduces the amount of herbicides needed
- » etc.



WHICH SEEDS WITH WHICH MACHINE

PNEUMATICSTAR (-PRO)

CROP	PNEUMATICSTAR							PNEUMATICSTAR-PRO			
	200	250	300	500	600	900	1200	300	600	900	XXL 1200
Field beans	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Buckwheat	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spelt	–	–	–	–	–	–	–	–	–	–	–
Peas	●	●	●	●	●	–	–	●	●	●	–
Futterprofi KM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Barley	●	●	●	●	●	–	–	●	●	●	–
Grünlandprofi B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Grünlandprofi NA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oat	●	●	●	●	●	–	–	●	●	●	–
Clover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wild flax	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flaxseed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lupines	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alfalfa	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Poppyseed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oilseed radish	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Phacelia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Canola	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rye	●	●	●	●	●	–	–	●	●	●	–
Red clover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wild turnip	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Slug pellets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mustard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Soybeans	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sunflowers	●	●	●	●	●	–	–	●	●	●	–
Vetch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Triticale	●	●	●	●	●	–	–	●	●	●	–
White clover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wheat and various mixtures	●	●	●	●	●	–	–	●	●	●	–

✓ = possible

● = when ordering options: stronger gearbox, retaining plate, mechanical or hydraulic fan

– = not possible

The above list of seeds is not complete. The machines from the PNEUMATICSTAR-series can also distribute other seeds.

OUR HANDBOOKS

THE HANDBOOK OF ORGANIC FARMING

- » **Proven practices:** Our decades of experience and that of our customers worldwide are graphically illustrated in this handbook.
- » **In-depth knowledge:** Through detailed descriptions of topics such as tillage, catch crops or crop rotations, as well as tips and suggestions on organic farming, we would like to encourage you to think outside the box.
- » **The latest technology:** The techniques and settings prescribed in the book will help you get the most out of your machines.
- » **10 cultivation instructions:** The manual contains 10 detailed cultivation instructions graphically explaining the best time for use.



THE HANDBOOK OF FUSION-FARMING

- » **Combined weed control:** The manual is the perfect guide for combined weed control. It combines the advantages of conventional and organic cultivation methods.
- » **Mechanics & chemistry:** Tips and tricks from mechanical and chemical weed control are presented. These applications lay the foundation for sustainable and successful arable farming.
- » **Cultivation instructions:** You will find instructions on weeding, hoeing and spraying in 5 different crops for a versatile and effective application of the Fusion-Farming method.

THE HANDBOOK OF GRASSLAND CARE

- » **Problems and solutions:** The Grassland Care Handbook deals with challenges such as increasing dryness, weed infestation or nutrient deficiency and offers practical solutions for grassland farmers.
- » **Maintenance & reseeded of grassland:** We show detailed instructions on maintenance and reseeded with effective methods that can increase the quality and yield of grassland in the long term.
- » **Practical examples with data, facts and figures:** Practical examples with well-founded data, facts and figures not only impart theoretical knowledge but also provide practical insights with successful grassland care strategies.



EINBÖCK AT A GLANCE

100% DESIGNED & MANUFACTURED IN AUSTRIA

- » We are a fourth-generation, owner-managed family business
- » Our development and production site is located entirely in Dorf, in the Innviertel region in Austria
- » We stand for 100% in-house production expertise: from cutting and further processing to welding, painting, and assembling our red machines.
- » Energy-self-sufficient production, e.g., with photovoltaic systems, wood chip heating, etc., awarded the "German Sustainability Award."

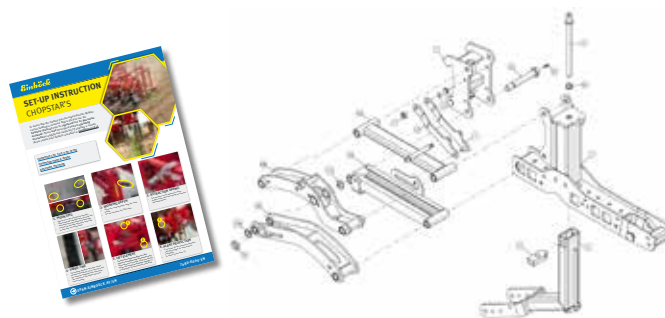


FROM THE FIELD, FOR THE FIELD!

- » We continuously develop our technology further in collaboration with our global customers
- » For over 90 years and four generations, we have stood for trustworthiness, reliability, honesty, hands-on mentality and common sense
- » We are consultants and partners, working together with farmers around the world to find the best solutions
- » We have been at home in the mechanical weed control segment for over 45 years

ORIGINAL SPARE PARTS

- » Decades of spare and wear part availability
- » Perfect fit and compatibility
- » Highest quality standards
- » Competent and prompt advice
- » Online spare and wear parts catalog, operating and set-up instruction, and much more at www.einboeck.at/en/help



CUSTOMER SERVICE

- » Practical service with maximum reliability
- » Rapid support even during peak season
- » An answer to every question
- » Expert advice and support for questions about machine settings



WWW.EINBOECK.EU

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



WEEDING TECHNOLOGY

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

TILLAGE

- » Seedbed cultivator
VIBROSTAR
- » Blade cultivator
TAIFUN
- » Flat cultivator
RAZOR
- » Universal cultivator
HURRICANE



SEEDING & FERTILIZING

- » Pneumatic seeding box
P-BOX-STI | P-BOX-MD
- » Pneumatic front tank
JUMBO-SEED
- » Mechanical intercrop
seeder
DRILLBOX
- » Row-crop drill
CHOPSTAR-SEEDER

THE GRASSLAND CARE HANDBOOK

- » Grassland overseeding
- » Grassland restoration
- » Grassland renewal



EINBÖCK



Einböck GmbH
Schatzdorf 7
4751 Dorf an der Pram
Austria

+43 7764 6466 0
+43 7764 6466-390
info@einboeck.at

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