

**Einböck**

**When seeding  
is joy!**

# SEEDING & FERTILIZING

**PNEUMATIC  
SEEDING BOXES  
P-BOX-MD & STI**

**PNEUMATIC FRONT TANK  
JUMBO-SEED**

**SEEDING BOOM  
SEEDSTAR**

**MECHANICAL  
INTERCROP SEEDER  
DRILL- & MECHANICBOX**

**MECHANICAL  
FERTILIZER BOX  
FERTIBOX**



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## HANDBOOKS

**PAGE 4**

- ✓ Practical reports and useful tips
- ✓ Correct use, different approaches, timing of use
- ✓ Successful hoeing and weeding
- ✓ Fusion Farming



## VERSATILE APPLICATION POSSIBILITIES OF OUR SEEDING TECHNOLOGY

**PAGE 5**

- ✓ Intercropping
- ✓ Reseeding of grass and clover in existing pastures and grasslands
- ✓ Undersowing of a wide variety of crops in field crops & row crops



## PNEUMATIC SEEDING BOXES P-BOX-MD & STI

**PAGE 6-27**

- ✓ Exact mechanical (MD) or electronical (STI) metering and extremely user-friendly monitor in the tractor cab (STI)
- ✓ Reseeding of grassland or distribution of fertilizer
- ✓ Seeding cover crops or green manure crops
- ✓ Distribution of many different varieties of seeds
- ✓ Assembling on many different cultivators, weeders, etc. possible



## SEEDING BOOM SEEDSTAR

**PAGE 28-31**

- ✓ Many different applications: Fertilizing, seeding of catch crops, grass reseeding, spreading undersown crops
- ✓ Can be combined with many (rear) implements: Cultivator, row-crop cultivator, tined weeder, etc.
- ✓ Pneumatic seeding box P-BOX-STI with intuitive SPEED-TRONIC control unit
- ✓ Many additional options such as hydraulic folding, fan types, seeding rollers, tank sizes, etc.



### PNEUMATIC FRONT TANK JUMBO-SEED

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- ✓ Effective fertilizing or sowing
- ✓ Can be individually combined with rear units
- ✓ Saves work steps & reduces soil pressure
- ✓ Four dosing units
- ✓ Perfect weight distribution



### MECHANICAL INTERCROP SEEDER DRILL- & MECHANICBOX

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- ✓ Mechanically metered intercrop seeding
- ✓ Cost-efficient seeding cover crops
- ✓ Can be mounted on rigid machines
- ✓ Seeding of winter greening
- ✓ Easy adjustment of seeding rate



### MECHANICAL FERTILIZER BOX FERTIBOX

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- ✓ Application of fertilizer for row distances between 60-80 cm / 23.6-31.4"
- ✓ Universal machine for different types of fertilizer
- ✓ Stainless steel tank for fertilizer application at rigid machines
- ✓ Easy adjustment of the distribution rate
- ✓ Mechanic drive via ground wheel



### WHAT KIND OF SEEDER FOR WHICH SEED?

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- ✓ Seed drilling with P-BOX, JUMBO-SEED, CHOPSTAR-SEEDER, DRILL- & MECHANICBOX

## THE ORGANIC FARMING HANDBOOK

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

Topics which might be interesting for you:

- » When and how to regulate mechanically which crops?
- » Principles of weeding & hoeing such as timing of application or blind weeding
- » Our "Top 10 of weeding"
- » Hoeing and weeding of grain, maize, soybeans, field beans, sugar beets, pumpkins & potatoes
- » Intercrops: sowing, incorporation, advantages

You can download the handbook at [www.einboeck.at/en/know-how](http://www.einboeck.at/en/know-how)



## 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 and reseedling 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](http://www.einboeck.at/en/know-how)



# VERSATILE APPLICATION POSSIBILITIES

## OF OUR SEEDING TECHNOLOGY

### Intercrop seeding

In order to avoid loss of nitrogen, sowing intercrops is gaining increasing importance and is often mandatory in water protection areas. Intercrop seeding should be done immediately after or during tillage operations in order to utilise soil humidity.

### Reseeding in existing pastures and grasslands

The natural balance of grassland can be disturbed by weather conditions and mistakes in cultivation. Regular maintenance and reseeded help to avert cost-intensive ploughing and to ensure good yields for many years.

### Undersowing

#### **Undersowing in area-field crops**

For example, when doing the final weeding in autumn, clover can be underseeded in the grain when it is in the 3-4 leaf stage. A successful establishment of clover in grain can collect up to 100 kg of nitrogen in autumn and winter before ploughing for summer grain. Greened areas after grain are very environmentally friendly because of the good nitrogen balance.

#### **Undersowing in row crops**

Successfully established nurse crops in row crops provide various advantages. Underseeding with the last hoeing-operation, when the corn is 20-30 cm 7.90-11.80" high, gives the best effect.

#### **Advantages of undersowing**

- » Improved trafficability of the soil during harvesting and fertilization
- » Suppression of late germinating weeds
- » Immediate soil cover after harvest
- » Improvement of soil fertility and humus build-up
- » Protection from erosion
- » Reduced herbicide use
- » etc.

### Fertilization

To supplement or improve the supply of nutrients for the crops, fertilizer can be applied with a weeder or hoe in addition to arable crop management.





# PNEUMATIC SEEDING BOXES

## P-BOX-MD & P-BOX-STI





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

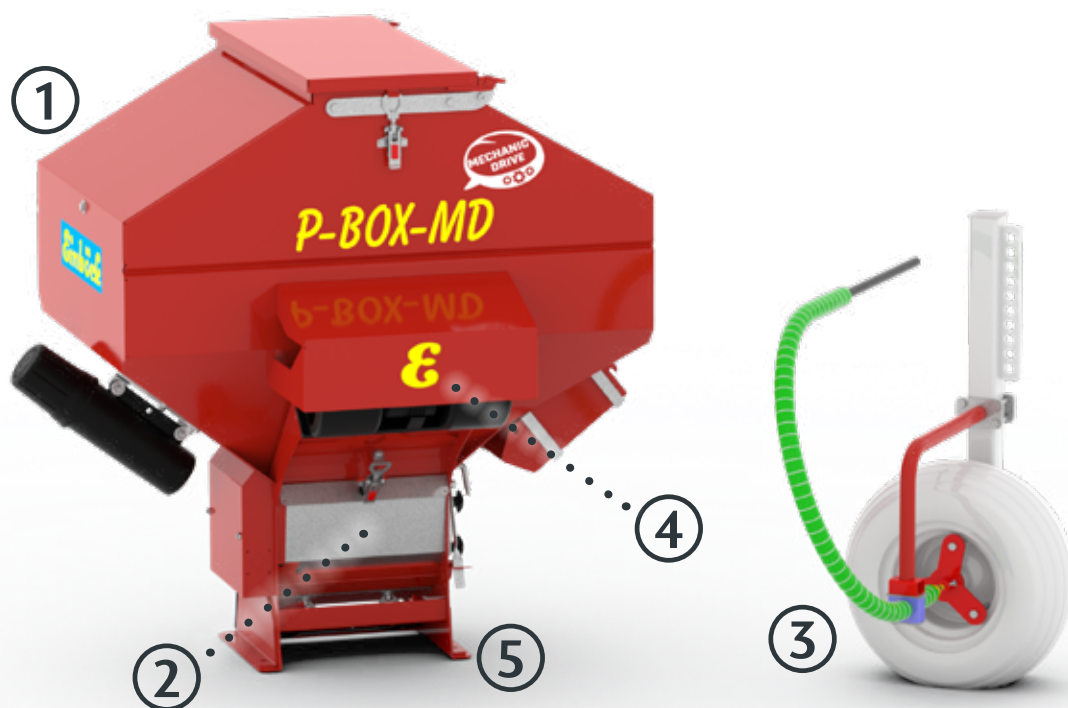
- » Various options of ground wheels
- » Reinforced gearbox (for higher application rates)
- » Cable to tractor 8 m / 26.20 ft. instead of 3 m / 9.80 ft.
- » Hectare-counter electronic
- » Airflow monitoring
- » Alarm when seeding box is getting empty
- » Electric adjustment of seeding quantity
- » Mechanical 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



**The secrets of success of the P-BOX are: many options, reliable operation and uncomplicated adjustment, very practible!**

## CONCEPT P-BOX-MD

1. Quantity dosage dependent on speed
2. Mechanical bottom drive with trailing tall wheel without sensors
3. Seeding roller with coarse and a fine toothing
4. Electric double fan (up to 6 m / 19.70 ft.; electric power supply via 3-pin socket) or mechanical fan (from 6 m / 19.70 ft.); option: hydraulic fan



**Simple and reliable seeding for many different applications.**

## DETAILS & ADVANTAGES

### FAST AND UNCOMPLICATED ADJUSTMENT OF THE SEEDING RATE

The seeding rate can be controlled quickly and without electronics via a lever.



### CONTROL UNIT FOR ELECTRIC AIR FAN

With the control unit, which can be easily fixed in the tractor cab with a Velcro fastener, the electric air fan can be switched on and off.

### RELIABLE DRIVE VIA A FLEXIBLE SHAFT

The seed drill is driven as standard by a flexible drive shaft which is turned by the support wheel of the machine (symbol picture). The power transmission is effected by an infinitely variable oil bath gearbox, which drives the seeding roller and stirring shaft via a chain.





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

- » 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

## CONCEPT P-BOX-STI

1. Constant seeding rate
2. Electric drive and speed control of the seeding roller - "SPEED-TRONIC" terminal (control unit in the tractor cabin)
3. Different seeding rollers for distribution of many seed varieties
4. Electric double fan (up to 6 m / 19.70 ft.; electric power supply via 3-pin socket) or mechanical fan (from 6 m / 19.70 ft.); option: hydraulic fan



# DETAILS & ADVANTAGES P-BOX-STI

## "SPEED-TRONIC" OPERATING MONITOR IN THE TRACTOR CABIN DEVELOPED BY EINBÖCK

- » Large 5-inch colour display
- » Clear and intuitive menu navigation
- » Haptic membrane buttons
- » Terminal housing in protection class IP65 (dust and water resistant)
- » High quality Sub-D-connections with gilded pins



## MANY INDIVIDUAL FUNCTIONS OF THE "SPEED-TRONIC" CONTROL:

- » Automatic calibration function (optional with a calibration button directly on the machine)
- » Automatic switch-off of the seeding roller at the headland
- » Predosing application for headland
- » Area and hour counter, seeds library and more
- » Various other individual setting options
- » 15+ languages

## EXACT SEEDING OF MANY SEED VARIETIES

The seeding roller is driven by a ground wheel which turns a flexible shaft that transmits the actual speed to the seeding roller via a gearbox. This ensures that the set sowing rate is accurately applied even when working different speeds.



# DETAILS & ADVANTAGES

P-BOX-MD | P-BOX-STI

## STRIPPER DISTANCE EASILY ADJUSTABLE

A lever adjusts the distance of the stripper according to the diameter of the seeds to ensure optimal dosing.



## SEEDING TANK 300 L

The standard seed tank has a capacity of 300 litres. A stirring shaft prevents the seed mix from separating and from bridging in the tank. (Optional: 265 & 500 litres tank)

**The P-BOX tank including the base has the following dimensions:**

265 & 300L: Height 104 cm / 41", width 92 cm / 36" and depth 65 cm / 26"

500L: Height 127 cm / 50", width 100 cm / 39" and depth 105 cm / 41"

It can be attached to an machine by a plate with the following dimensions: 200 x 340 mm / 7.9 x 13.4" or 260 x 80 mm / 10.2 x 3.2"

## PROTECTED CHAIN DRIVE INSTEAD OF BELTS

A large-dimensioned chain with tightener transfers the power from the oil-immersed gear box to the seeding roller and the stirring shaft. This combination ensures a constant drive of the seeding roller and thus uniform sowing.



## TYPES OF FANS

The air stream blowing the seeds to the distribution plates is produced either electrically, hydraulically or mechanically, depending on requirements.

1. Electric double fan 12 Volt (until 6 m / 20ft working width)  
Powerful E-POWER electric double fan (ISOBUS socket or battery cable)
2. Mechanic fan with PTO shaft (more than 6 m / 20 ft working width)
3. Hydraulic fan with oil pressure manometer (optional requirements: pressure free return line, maximum capacity of the oil pump must not exceed 50 litres per minute; recommendation: independent hydraulic valve or load sensing system)
4. Mechanic fan, directly attached to the PTO-shaft of the tractor (optional)



## SECOND SEEDING ROLLER

The 2nd seeding roller is safely stored in a storage box on the machine and therefore always with you. So the seeding roller can be changed quickly for different seed types.

## RUBBER SEALING

The rubber sealing ensures the tank is properly closed - this is necessary for an optimal operation. The opening lid can be mounted with opening to the left or to the right.



# DETAILS & ADVANTAGES

P-BOX-MD | P-BOX-STI

## CALIBRATION PLATE AND CALIBRATION PAN

A calibration plate and calibration pan ensure simple and uncomplicated adjustment and calibration of the seed box. The parking position on the box guarantees quick accessibility.



## MONITORING WINDOW

A visibly placed monitoring window helps the operator to check the level of the seeds left in the tank at any time from the tractor cab.

## DRAINING OUTLET WITH FLEXIBLE DRAIN HOSE

As the seed tank is often not emptied completely, excess seed can be drained from the tank via a flexible drain hose. By placing it directly above the seeding roller the tank is emptied almost without residue.



## MANY POSSIBLE APPLICATIONS AND MACHINE COMBINATIONS

Such as the application of intercrops (picture), catch crops, winter greening, new seeding, reseeding, fertilization, etc.

Mounted on: weeder (picture), row crop cultivators, cultivators, subsoilers, etc.



## THE RIGHT SEEDING ROLLER FOR EVERY SEED

From the wide range of seeding rollers one seeding roller with fine and one with coarse toothing are part of the standard equipment. This guarantees that the appropriate seeding roller can be used for different seeds. Further seeding rollers (9 in total) are available. Special seeding rollers can also be offered.

## SPLASH GUARD FOR EXACT DISTRIBUTION

The deflector plates are equipped with a height-adjustable splash guard to make sure the seeds are evenly distributed. The holder of the plate can be adjusted infinitely variable. In addition, the splash guard is fixed in a slotted hole so it can be adjusted to different types of seed.



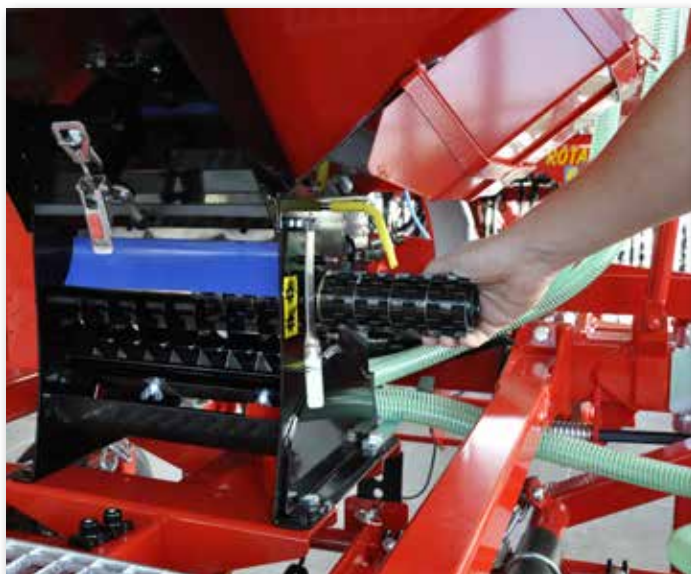
# DETAILS & ADVANTAGES

P-BOX-MD | P-BOX-STI

## SPREADING OF MANY SEED VARIETIES

Field bean, buckwheat, peas, barley, grass, oats, clover, gold of pleasure, linseed, lupins, lucerne, poppy seed, oil radish, phazelia, rape, rye, red clover, turnip rape, slug pellet, mustard, soybeans, sunflower, soyvetch, triticale, white clover, wheat, fertilizer, etc.

**ATTENTION:** Not all seed varieties can be sown with the standard equipment - some additional options are required!



## QUICK CHANGE OF THE SEEDING ROLLERS WITHOUT TOOLS

The seeding rollers are installed in an easily accessible position and can be changed quickly and without tools.

## WEATHER INDEPENDENT AND ACCURATE SOWING THROUGH HOSES AND SEEDING ROLLER

The seeding roller distributes the seeds into eight separated outlets. There they are transported pneumatically via PVC sowing hoses to the deflector plates which are adjustable in angle. In the over seeding method the seed is precisely distributed over the entire working width. In contrast to rotary broadcasters, seeding with the P-BOX system is insensitive to wind and more accurate.



## ELECTRICAL AND MECHANICAL DRIVE MONITORING (STI)

A sensor monitors the drive of the seeding rollers. In addition a yellow indicator finger shows whether the seed roller is turning. This way it can be continuously checked whether the electric motor drives the chain and also the seeding roller.



## ROBUST SUBSTRUCTURE

The seeding unit, constructed by Einböck and manufactured in-house, is designed for long life. Precise welds executed by welding robots ensure a perfect setup and smallest tolerance for years of trouble-free work.

## SIMPLE MOUNTING ON EINBÖCK IMPLEMENTS AND OTHER BRANDS

The seeding box P-BOX can be easily and simply mounted on many Einböck machines as well as on machines of other manufacturers. For Einböck machines there are also mounting kits and steps for filling available.



# IN ACTION

P-BOX-MD | P-BOX-STI



Undersowing in grain



Reseeding of grassland



Undersowing in grain



Weeding and reseeding of grassland



Seeding cover crops with a blade cultivator



Seeding cover crops with a universal cultivator



Undersowing in corn with a row-crop cultivator



Undersowing in corn with a row-crop cultivator and front seeding boom



Fertilizing in corn with a row-crop cultivator



Weeding and reseeding of grassland



Seeding cover crops with a universal cultivator



Undersowing in grain

## OPTIONS P-BOX-MD

### ADDITIONAL MONITORING AND CONTROL UNITS AVAILABLE

1. Hectare counter
2. Airflow monitoring: this detects if one or more sowing hoses are blocked. In this case an acoustic and visual error message appears on the operating terminal
3. Tank level sensor: it warns when the seeds in the tank are coming to an end. This sensor works independently from vibrations.
4. Electric adjustment of seeding quantity: for increased convenience, the seed rate can be adjusted from the tractor via an electric control terminal



### ANGLE UNIT

A long service life of the flexible drive shaft is achieved if the bending radius is not smaller than 20cm. An angle unit ensures the shaft is well positioned not to come below this bending radius. The flexible shaft, as well as the angle unit are protected from stones and heaps of earth.

### FURTHER OPTIONS FOR TURNING THE FLEXIBLE SHAFT:

1. Ground drive via an air wheel, which is pressed on a roller
2. Ground drive via a tail wheel, which is mounted on the main frame

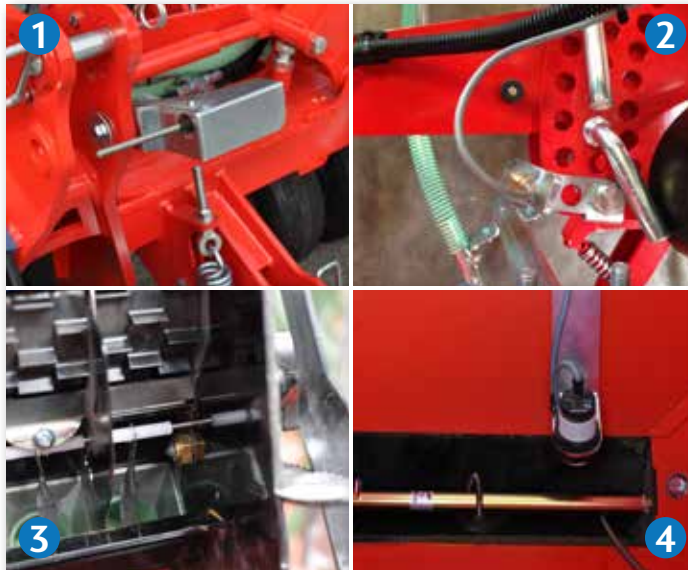


# OPTIONS P-BOX-STI

## SPEED SENSOR

Different sensors are available for speed detection.

1. Via the 7-pin signal socket the values of the tractor can be taken over (e.g. speed information and linkage signal come from the tractor)
2. Ground wheel sensor for support wheel (different versions depending on wheel and machine) - additional top link or linkage sensor required
3. The GPS sensor is mounted on the filling lid of the box to precisely determine the speed - additional top link or linkage sensor required
4. Sensor mounted on a following tail-wheel (different versions depending on wheel and machine) - additional top link or linkage sensor required (not shown)
5. Radar sensor - additional top link or linkage sensor required (not shown).



## VARIOUS OTHER SENSORS

Many other optional sensors are available for increased safety, efficiency and accuracy at work.

1. Upper link sensor: the seeding shaft is automatically switched off when the implement is raised
2. Linkage sensor: the seeding shaft is automatically switched off when the implement is lifted (mounting example)
3. Airflow monitoring: this detects if one or more seeding hoses are clogged. In this case an acoustic and visual error message show up on the operating terminal
4. Empty tank sensor: it warns when the seeds in the tank are coming to an end. This sensor works independently of vibrations.

## CALIBRATION BUTTON ON THE SEED TANK

A calibration button on the tank enables the calibration test to be carried out directly on the machine.



# OPTIONS

P-BOX-MD | P-BOX-STI

## 500 LITRE TANK

Seeding machines with a 500 litre tank are standard equipped with tank stabilizers, retaining plate and extra large filling opening (Attention: mounting on GRASS-MANAGER or various Einböck devices is only limited possible).



## PLASTIC TANK

Instead of the standard steel tank, a 265 l plastic tank can be installed. This corrosion-resistant design plastic tank is made of the highest quality materials and is thus extremely durable and unbreakable.

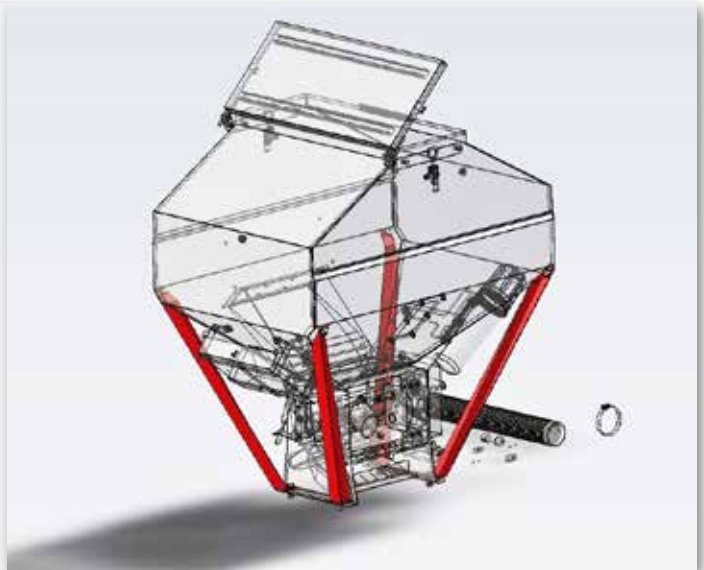
## RETAINING PLATE

For heavy seeds we recommend the retaining plate mounted above the stirring shaft and the seeding roller.



## TANK STABILIZERS (FOR STEEL TANK)

Tank stabilisers are recommended when the box is mounted on implements with high vibrations during operation (e.g. disc harrows). These are fitted as standard on 500l tanks.



## MECHANIC JOGGING UNIT

A mechanic jogging unit can be installed to avoid bridging. This is only necessary for seeds that have a particular tendency to bridge.

## MOUNTING KITS AND STEPS FOR FILLING FOR EINBÖCK MACHINES

For Einböck machines such as tine weeders, row crop cultivators, rotary hoe, rotive weeder, cultivator, grassland weeder, etc. a mounting kit including steps for filling are available. Due to the universal mounting bracket, the seeding boxes can also be mounted on many machines of other producers.





## SEEDING BOOM SEEDSTAR

The extremely versatile seeding boom can be used for fertilizing, seeding of catch crops, reseeding grassland, sowing undersown crops, and much more. The practical seeding boom can be cleverly combined with rear-mounted machines such as row-crop cultivators, tined weeders, harrows and much more.



**With the seeding boom, we offer a practical option to combine our professional seeding box even more flexibly and easily with different rear machines.**



| Type/<br>Working width cm | Transport width<br>in cm/" | Working width<br>in cm/" | Dimensions in cm/"                                       | Weight<br>approx. kg / lbs |
|---------------------------|----------------------------|--------------------------|----------------------------------------------------------|----------------------------|
| SEEDSTAR 300              | 235/92.50                  | 300/118.10               | W 235   H 85   D 150 cm / W 92.50   H 33.50   D 59.10"   | 210 / 463                  |
| SEEDSTAR 600              | 250/98.40                  | 600/236.20               | W 250   H 170   D 150 cm / W 98.40   H 66.90   D 59.10"  | 250 / 551                  |
| SEEDSTAR 750              | 250/98.40                  | 750/295.30               | W 250   H 235   D 150 cm / W 98.40   H 92.50   D 59.10"  | 270 / 595                  |
| SEEDSTAR 900              | 300/118.10                 | 900/354.30               | W 250   H 305   D 150 cm / W 98.40   H 137.80   D 59.10" | 290 / 639                  |

## STANDARD EQUIPMENT

- ✓ Seeding boom with three-point linkage for front or rear mounting for P-BOX-STI
- ✓ Mechanically foldable
- ✓ Parking supports
- ✓ Filling steps
- ✓ WITHOUT seeding box, operating terminal, hoses and distribution plate
- ✓ For standard equipment of seeding box see P-BOX-STI

## OPTIONS

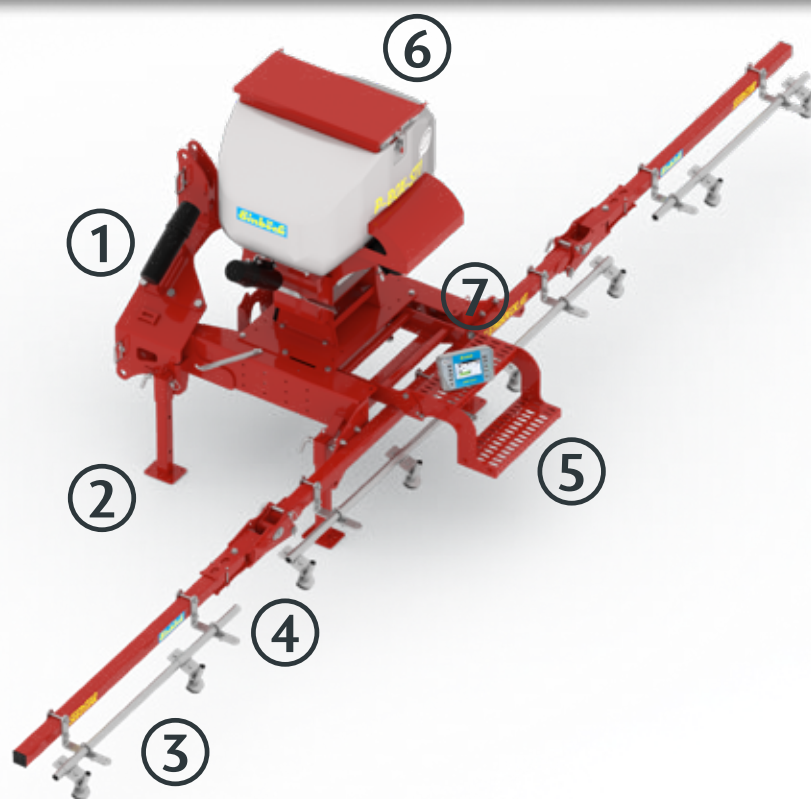
- » Hydraulic folding instead of mechanical folding
- » Wheels on the parking supports
- » See P-BOX-STI



**The seeding boom is the perfect partner for a tined weeder or row-crop cultivator. This makes the seeding box an even more versatile machine!**

## DETAILS JUMBO-SEED

1. Front or rear mounting
2. Parking supports optionally with rollers
3. Seed distribution via distribution plate with splash guard
4. Mechanical or hydraulic folding
5. Steps for filling
6. P-BOX-STI seeding box
7. SPEED-TRONIC operating terminal



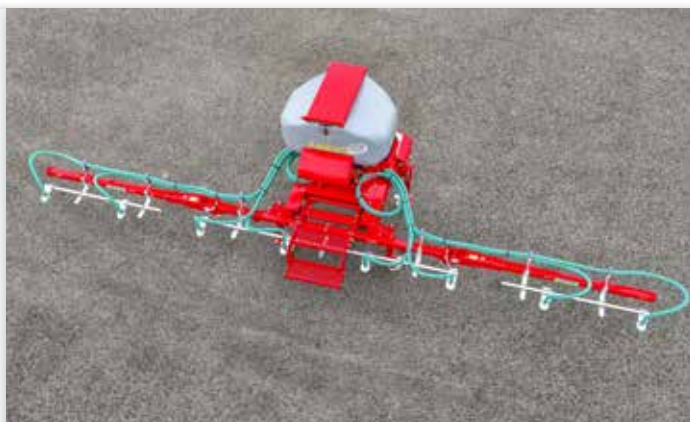
### MANY POSSIBLE USES AND MACHINE COMBINATIONS

Possible uses: seeding undersown crops (pictured), catch crops, winter greening, reseeding grassland, fertilizing, etc. Can be combined with: tined weeder, row-crop cultivators (pictured), cultivators, disc harrows, rollers, power harrows, meadow harrows, grassland weeders, subsoilers, and much more.



## STAND-ALONE SEEDING TECHNOLOGY – INDEPENDENT OF THE MACHINE

To allow the seeding technology to be adapted more flexibly to the respective work activity, it must be separated from the actual main device – this increases efficiency and flexibility as well as the range of possible applications. The SEEDSTAR seeding boom thus also becomes the optimal seeding technology for contractors and machinery groups.



## INTELLIGENT FRONT WEIGHT

The seeding boom can be used as an intelligent front weight or as a light and simple rear seeding box. It can either be cleverly combined with a machine or used individually as a rear-mounted device.

## ROBUST & DURABLE CONSTRUCTION

The seeding boom has been designed for durability and features many practical details (such as a shear bolt on the wings).



## PERFECTLY MATCHED & CONFIGURED SEEDING BOOM

The SEEDSTAR seeding boom is perfectly matched to Einböck seeding technology and is available in working widths from 3 meters / 10 ft. Hoses, distribution plates, etc. are installed in the correct and appropriate length and ensure that the seed can be applied precisely.



# PNEUMATIC FRONT TANK JUMBO-SEED





## PNEUMATIC FRONT TANK JUMBO-SEED

The combination of the pneumatic front tank JUMBO-SEED with rear mounted machines, for example row-crop drill CHOPSTAR-SEEDER, row crop cultivator CHOPSTAR or tined weeder AEROSTAR-CLASSIC ensures ideal distribution of weight, therefore reduces ground pressure and saves time. The metering is carried out via up to 4 seeding units, which can be closed by sliders as required. This allows the front tank to be individually adapted to the required number of outlets which depends on the number of rows or the working width of the implement.

The powerful hydraulic fan distributes fertilizer or seeds (such as grain, beans, rape, grass seed, catch crops, clovers, mixtures, undersowings, etc.) to the rear of the tractor to the distribution heads, where they are split to the required number of outlets (depending on number of rows or working width). The seeding rate is controlled from the tractor via the STI control system and ensures a precise, uniform distribution.



| Type            | Tank volume in litre | Dimensions in cm/"                      | Weight approx. kg / lbs |
|-----------------|----------------------|-----------------------------------------|-------------------------|
| JUMBO-SEED 1600 | 1600                 | 167 - 230 - 146 / 65.75 - 90.55 - 57.48 | 600 kg<br>1103 lbs      |

## STANDARD EQUIPMENT

- ✓ P-BOX-STI = electric adjustment of the seeding rate - automatically adjusted to the working speed either GPS-, radar-sensor, or via the tractors 7-pin info plug
- ✓ 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
- ✓ Tank made of sheet steel with sieve: Tank volume 1600 litres | Mounting category II
- ✓ Big opening for comfortable filling of the tank
- ✓ Bottom part and dosing unit made of stainless steel
- ✓ Hydraulic fan: A double-acting hydraulic connection (flow rate up to 30 l/min) and a pressure free return with ¾ coupling are required
- ✓ Disconnectable agitator shaft
- ✓ Rotary air lock - for increased air pressure
- ✓ Seeding rollers 1 with fine and 1 with coarse toothing (Available: fine - middle - coarse)
- ✓ Up to 4 dosing units with airlock
- ✓ Calibration basket | Steps for filling | Parking supports

## OPTIONS

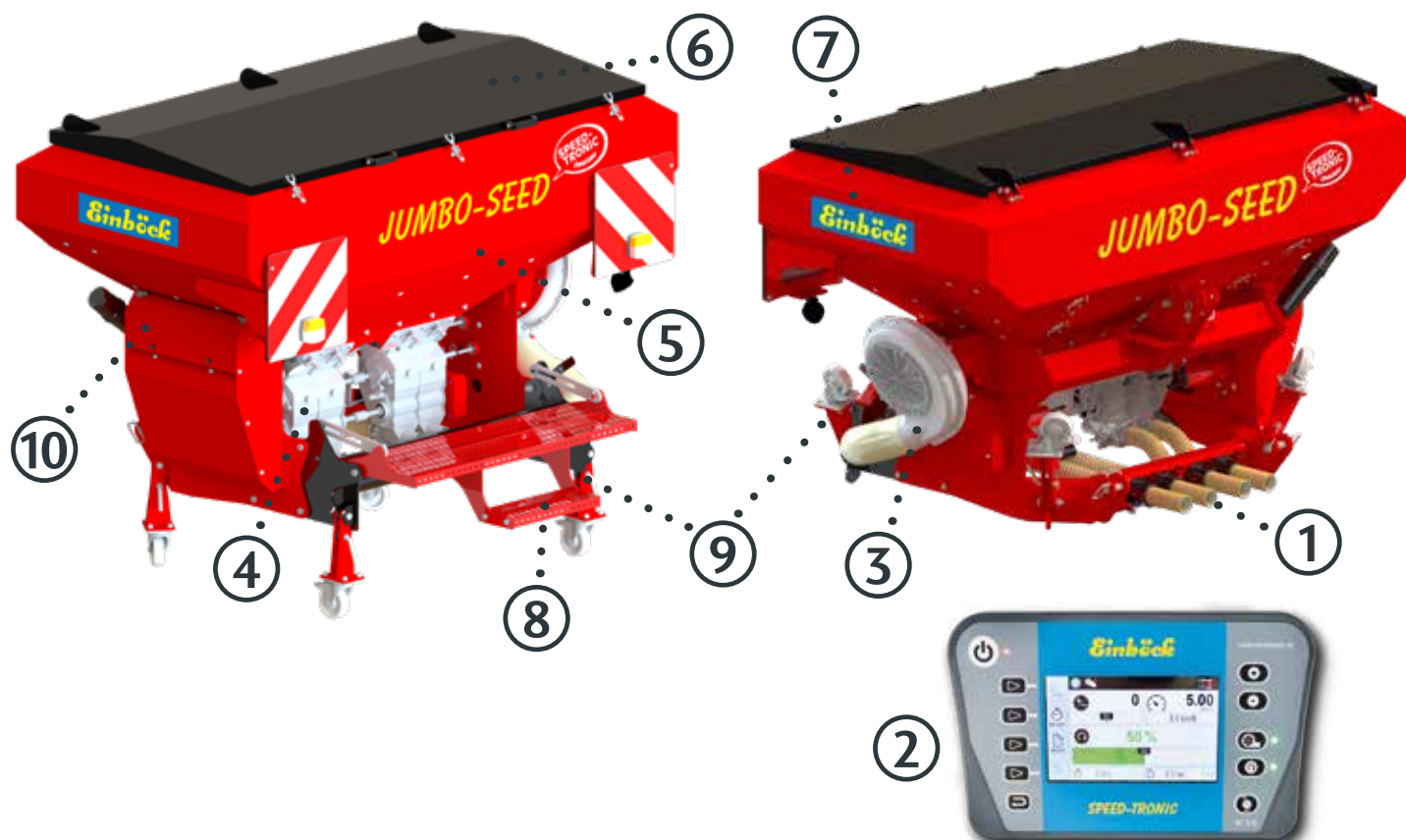
- » Hydraulic hose kit (for tractors without hydraulic valves in the front)
- » Different seeding wheels
- » Calibration button mounted on the JUMBO-SEED
- » Alarm when seeding box is getting empty
- » Wheels on the parking support
- » GPS-speed sensor, radar sensor or 7-pole cable
- » Upper link or lifting gear sensor (not necessary for 7-pole signal cable)
- » Cable extension 5 m / 16.40 ft. for sensors
- » Warning signs with holder for front tank - with indicators to the front



**Perfection in every detail: electric control of the 4 separate seeding units, with SPEED-TRONIC user terminal, 4 outlets, effective hydraulic fan, etc.**

## CONCEPT JUMBO-SEED

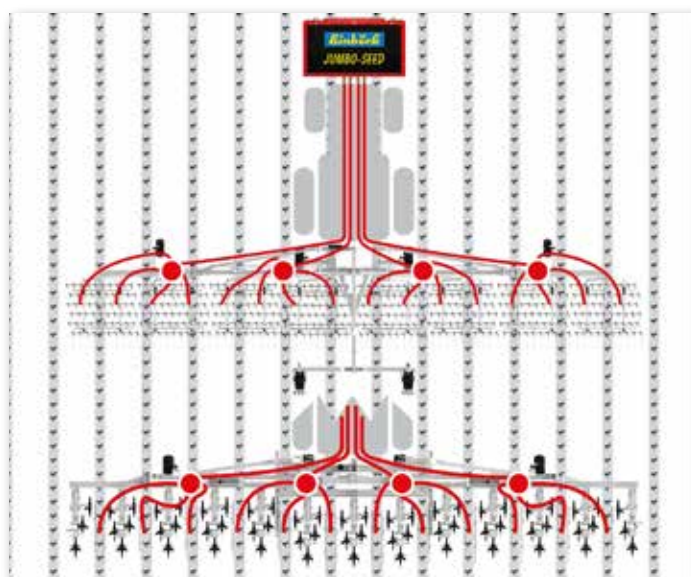
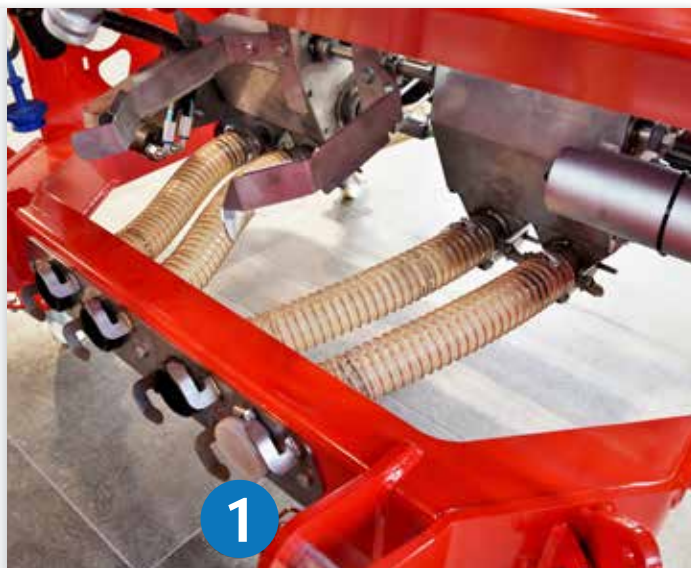
1. 4 dosing units (2x2) with airlock made of stainless steel and connecting tubes
2. Electronic dosing via STI-Terminal
3. Hydraulic fan
4. Disconnectable agitator shaft
5. 1600 litre tank (can be split)
6. Big opening for comfortable filling of the tank
7. Internal tank grid made from stainless steel
8. 2 steps for filling
9. Parking supports with parking position on the machine (optional with wheels)
10. Parking position for second seeding roller for fine seeds



# DETAILS & ADVANTAGES JUMBO-SEED

## 2X2 DOSING UNITS - 4 OUTLETS

The 2 dosing units distribute the seeds evenly to up to 4 outlets, which in return provide perfect distribution accuracy with a distribution head for each outlet on the rear implement. If not all outlets are needed, blind plugs (1) or sliders ensure the ones not needed are switched off.



## LARGE WORKING WIDTHS POSSIBLE

Up to 4 distribution heads ensure that the front tank can also be used with larger rear implements. In addition, they ensure short hose lengths on the machine before application. For example, precise distribution of nures-crop or fertilizing can be easily realized with a 12 m / 39.40 ft. weeder or big row-crop cultivators.

## MANY APPLICATIONS AND MACHINE COMBINATIONS

The front tank in combination with different rear mounted machines can be used for many applications: band-seeding, underseeding, distribution of catch crops or winter greening, new- or re-seeding of grassland, fertilizing, etc. The front tank can be combined with many machines: row-crop drills, weeders, cultivators, rollers, etc. Attachment kits and distribution systems are available for many Einböck machines.



## DETAILS & ADVANTAGES JUMBO-SEED

### 4 DOSING UNITS FOR HIGH FLEXIBILITY

The 4 seeding units ensure not only the front tank can work with implements with large working widths, but they also provide the needed flexibility to adjust the machine to different numbers of rows when working with row-crop cultivators. Perfect adaptation to the row-crop cultivator is immensely important for the exact application of fertilizer or catch crops!



### TWO DOSING UNITS MADE OF STAINLESS STEEL WITH ROTARY AIRLOCK

The tank is equipped with 2 double dosing units with an integrated rotary airlock. The dosing units distribute the seeds evenly to 2 hoses, so there are 4 hoses in total. The rotary airlock directs the air flow into the hoses (prevents the air from escaping to the seed tank), and thus the seeds are transported easier and more precisely to the distributors at the rear mounted machine.

### "SPEED-TRONIC" OPERATING MONITOR IN THE TRACTOR CABIN DEVELOPED BY EINBÖCK

- » Automatic computer-controlled constant seeding rate
- » Intuitive, graphical and colourful menu navigation in many different languages (> 15)
- » Large 5 inch colour display
- » Many individual settings
- » Raised buttons ensure an easy operation even while driving; no slipping of the fingers and "blind" operation is possible
- » Resistant to dust and water
- » Compact and robust case
- » Tank emptying function



## MANY INDIVIDUAL FUNCTIONS OF THE "SPEED-TRONIC" CONTROL:

- » Automatic calibration function (optional with a calibration button directly on the machine)
- » Automatic switch-off of the seeding roller at the headland
- » Pre-dosing function
- » Hectare counter of daily and total area
- » Operating hours counter (daily and total hours)



## CONNECTING TUBE TO THE REAR MOUNTED MACHINE (E.G. FOR ROW-CROP CULTIVATORS OR ROW-CROP DRILL)

The connecting tubes are placed under the tractor. This provides a direct connection between the front tank and the rear mounted machine, which in return increases accuracy and precision.

## CALIBRATION PAN WITH HOLDER DIRECTLY ON THE FRONT TANK

A calibration pan is fixed to the tank with a holder as standard equipment. This means that the calibration test can be carried out quickly, precisely and conveniently at any time (optionally with an additional calibration button on the unit).



## DETAILS & ADVANTAGES JUMBO-SEED

### SPREADING OF MANY DIFFERENT SEEDS

Grain, canola / rape, grain legumes (soya, field beans, ...), catch crops, grass seeds, clover, fertilizer, etc. as well as different seed mixtures.



### "INTELLIGENT" FRONT WEIGHT

The front tank Jumbo-Seed enables the powerful distribution of fertilizer or seeds from low to high distribution rate also for larger rear implments. As part of the weight of the seed drill (incl. seeds) is moved to the front of the tractor, the weight of the seed drill (incl. seed) at the front of the tractor, the weight distribution is optimised and soil compaction is prevented. This has an extremely positive effect when working with large implements in particular, as putting the complete weight at the rear of the tractor would cause heavy soil compaction.

### BIG OPENING FOR COMFORTABLE FILLING OF THE TANK AS WELL AS INTERIAL TANK GRID

The big tank opening and the 2 foldable filling steps ensure comfortable filling. A sieve made from stainless steel above the dosing unit prevents foreign objects from entering the dosing unit.

**Dimensions in cm/inch (height - width - depth):**  
1600L: 167 - 230 - 146 cm | 65.8 - 90.6 - 57.5"



## HYDRAULIC FAN WITH HIGH CAPACITY

The hydraulic fan requires max. 35 litres/min oil flow and a pressure free return line. The special fan enables a higher capacity to distribute seed or fertilizer accordingly.



## DIFFERENT SEEDING ROLLERS FOR SMALL AND LARGE APPLICATION RATES INCL. PARKING POSITION

The different seeding rollers ensure perfect and correct seeding for small and large application rates. To prevent the seeding shafts from being damaged or lost, a parking position is provided on the front tank. Here, the seeding shafts are protected and always on the machine.

## COMPACT MOUNTING ON THE TRACTOR

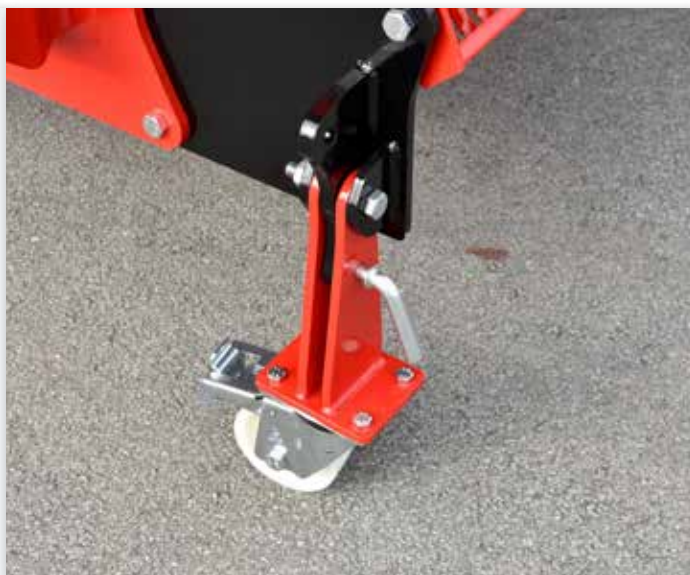
Close mounting on the tractor protects the soil and avoids high front axle loads.



## OPTIONS JUMBO-SEED

### WHEELS ON THE PARKING SUPPORT

Wheels for the parking supports are available for easier and faster handling.



### CALIBRATION BUTTON ON THE MACHINE

A calibration button on the tank enables the calibration test to be carried out directly on the machine.

### NECESSARY SPEED SENSOR

Different sensors are available for speed detection.

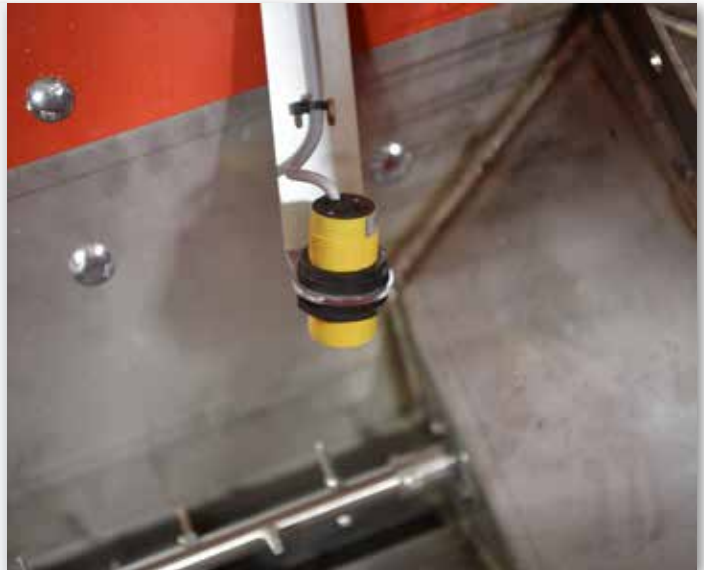
1. Via the 7-pin signal socket the values of the tractor can be taken over (e.g. speed information and linkage signal come from the tractor) (picture)
2. The GPS sensor is mounted on the front tank to precisely determine the speed - additional top link or linkage sensor is required
3. Radar sensor - additional top link or linkage sensor is required.



## VARIOUS OTHER SENSORS

Many other optional sensors are available for increased safety, efficiency and accuracy at work

1. Upper link sensor: the seeding shaft is automatically switched off when the implement is raised (not shown).
2. Linkage sensor: the seeding shaft is automatically switched off when the implement is lifted (not shown).
3. Level sensor: it warns when the seeds in the tank are coming to an end. This sensor works independently of vibrations (picture).



**WARNING SIGNS WITH HOLDER AND LED-LIGHTS AS WELL AS INDICATOR TO THE FRONT**



**Very precise metering and high flexibility because of 4 seeding units and the SPEED-TRONIC terminal.**



## MECHANICAL INTERCROP SEEDER DRILLBOX & MECHANICBOX

The Einböck DRILLBOX or MECHANICBOX can be mounted on any rigid machine (cultivators, disc harrows, ...). With the mechanical seeders, all catch crops and their mixtures can be seeded easily and economically using the push wheel system with distribution plate in the seeding process. The simple seed rate adjustment is carried out via a rotary knob for fine adjustment and by a lever for coarse adjustment, from approx. 5 kg of seed per hectare. The specially designed distribution plates assure an evenly distribution of the seeds. The seeder is activated through a large tail wheel with actuation cartridge. High gusset plates inside the tank ensure exact seeding also in hilly terrain.

### DRILLBOX:

The DRILLBOX mechanical seeder is best suited for faster working speeds (cultivator, disc weeders, ...) and from approx. 70 cm / 27.60" body height (with 8 or 9 outlets).

### MECHANICBOX:

The mechanical seed drill MECHANICBOX should be used with slow working implements (subsoilers, power harrow, ...) and with low structure height or drop height (with 17 outlets).



| Type/<br>working width cm | Box width<br>in m / ft. | Transport width<br>in m / ft. | Tank volume<br>in litres | Outlets | Weight<br>approx. kg / lbs |
|---------------------------|-------------------------|-------------------------------|--------------------------|---------|----------------------------|
| DRILLBOX 260              | 2.72/9.90               | 2.95/9.70                     | 215                      | 8       | 145 kg<br>320 lbs          |
| DRILLBOX 300              | 2.84/9.32               | 3.00/9.80                     | 230                      | 9       | 150 kg<br>331 lbs          |
| MECHANICBOX 300           | 2.84/9.32               | 3.00/9.80                     | 230                      | 17      | 165 kg<br>364 lbs          |

Seed-body-distance DRILLBOX: 34 cm / 13.40"

Seed-body-distance MECHANICBOX: 17 cm / 6.70"

## STANDARD EQUIPMENT

- ✓ Stirring shaft right above the seed wheel, can be retro-fitted
- ✓ Large-sized bottom drive ø 600 mm with two long actuation metal cartridges
- ✓ Calibration pan
- ✓ Exact distribution through drive wheel system
- ✓ Mounting bracket with toothed wheel adjustable in angle  
Can be put on 60-, 70-, 80-, 90- or 100 mm tubes
- ✓ Cover with bonnet fixing
- ✓ Price reduction for seeders without bottom drive
- ✓ Distribution deflector plates
- ✓ High gusset plates (equal distribution of the seeds to all deflector plates)
- ✓ Sealed cover (no loss of seeds)
- ✓ Monitoring window at the bottom of the box

## OPTIONS

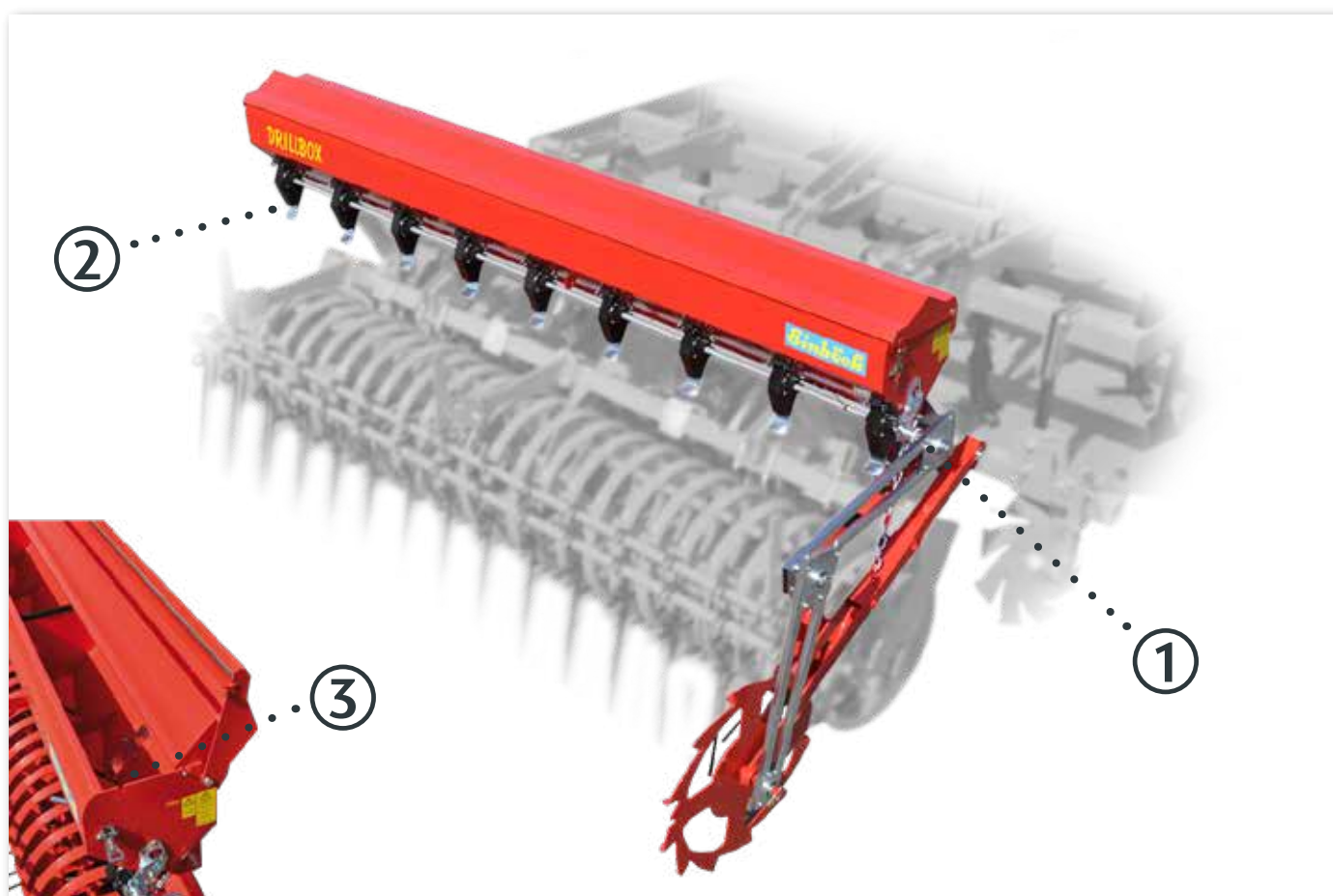
- » Stirring shaft
- » Ground drive via the axle of the rear roller
- » Additional bottom drive wheel without actuation cartridge
- » Additional mounting console (= 2 holders)



**Proven seeding technology - suitable for many rigid cultivators, disc harrows, etc.**

## CONCEPT DRILLBOX & MECHANICBOX

1. Quick and easy adjustment by using a knob or a lever
2. Central adjustment of the seeding rate
3. High gusset plates ensure exact seed distribution even on hilly terrain



# DETAILS & ADVANTAGES DRILLBOX & MECHANICBOX

## EXACT ACTIVATION IN ROUGH TERRAIN

The arm of the bottom drive wheel is adjustable in length. Because of its large diameter of 600 mm / 23.60" the drive wheel grants an exact activation of the seeding units also in rough terrain.



## CALIBRATION PAN

The calibration pan can also be used to enlarge the opening.

## SPECIALLY SHAPED DISTRIBUTION DEFLECTOR PLATES

The specially shaped distribution deflector plates spread the seeds evenly.





# MECHANICAL FERTILIZER BOX FERTIBOX

The mechanical fertilizer box FERTIBOX is usable for row-crop cultivators. The fertilizer is available only for rigid hoes with row distance of 65 cm / 25.60", 70 cm / 27.60" and 75 cm / 29.50"

Enables precise application of different types of fertilizer in row crops. The combination of row fertilizer distributor and row-crop cultivator saves working time and increases the effect of the fertilizer by directly incorporating it into the soil.

The drive is mechanical via a ground drive. Two outlets per crop-row ensure precise fertilization. The distances to the plant can be adjusted manually.

| Type            | Tanks | Outlets | Drives | Capacity in litres | Weight approx. kg / lbs |
|-----------------|-------|---------|--------|--------------------|-------------------------|
| FERTIBOX 4-rows | 2     | 8       | 1      | 2x275              | 290<br>640              |
| FERTIBOX 8-rows | 4     | 16      | 2      | 4x275              | 580<br>1279             |



# WHICH SEEDS WITH WHICH SEEDER?

| CROP                       | DRILLBOX<br>MECHANICBOX | P-BOX-MD<br>P-BOX-STI | JUMBO-SEED<br>with CHOPSTAR-SEEDER 6m/19.70 ft. | JUMBO-SEED<br>with AEROSTAR-CLASSIC |
|----------------------------|-------------------------|-----------------------|-------------------------------------------------|-------------------------------------|
| 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

✓\* = possible, bigger seeding rates might be difficult to reach from 12 m / 39.40 ft. working width or higher working speed

● = possible till 6 m / 19.70 ft. working width; following options needed:

» mechanical or hydraulic fan instead of electric

» retaining plate needed

» stronger gearbox (only needed for P-BOX-MD)

– = not possible

The mentioned list of seeds is not complete. The machines out of the P-BOX-Series can also distribute similar seeds.

## EINBÖCK AT A GLANCE

### **"100 % made by EINBÖCK in AUSTRIA"**

- » **In-house development from the idea to serial production:** We have over 90 years of experience in designing agricultural machinery.
- » **From users for users:** 75 % of our sales and product management team are farmers, so we develop practice-oriented, user-friendly machines and adjustment options. Our top priority is to provide the right machines and suitable product specifications.
- » **Suppliers from the region and Central Europe:** Long-lasting relations with our suppliers ensure a consistent quality of raw materials and components, as well as supply reliability.
- » **Manufacturing exclusively in Dorf an der Pram in Upper Austria:** Our high vertical range of manufacture guarantees the best quality and long working life. "100 % made by Einböck in Austria" ensures superior quality in all areas of production.
- » **Practical trials of all machines on our own test fields:** Before prototypes are turned into serial production, they have to withstand extensive tests on fields and roads. This allows us to achieve absolute precision and reliability.
- » **After-Sales-Service:** A decades-long supply of wear and spare parts ensures a maximum service life of the machines as well as direct and close contact with customers.

### **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
- ✓ 40+ years of experience in hoeing and weeding technology





**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
- » Universal cultivator  
HURRICANE
- » Seedbed combination  
EXTREM



### **GRASSLAND CARE**

- » Grassland weeder  
GRASS-MANAGER (-PRO)
- » Grassland seeder  
PNEUMATICSTAR (-PRO)

### **PRODUCT PROGRAM**

- » Crop-care
- » Tillage
- » Grassland-care
- » Seeding & fertilizing



# **EINBÖCK**



 Einböck GmbH  
Schatzdorf 7  
4751 Dorf an der Pram  
Austria

 +43 7764 6466 0  
 +43 7764 6466-390  
 [info@einboeck.at](mailto:info@einboeck.at)

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