

MECHATEC

BOX HANDLING SYSTEMS



BOXER

rotating / emptying / washing



BOXER ROTATOR ROTATING – EMPTYING – WASHING

SINGLE/ DOUBLE VERSION

The BOXER rotator can rotate full boxes as well as empty and wash them. Placing the box is easy, the wide entry area and the height of the machine are adjustable. Besides the single model, there is also a double model. For further automation, there is the transit model, which is equipped with automatic box feed or stackers, for every user there is a suitable model. You simply set the number of rounds and the working speed. With the remote control the process starts and then continues automatically. With the transit model of the Boxmaster, the process is fully automatic. The machine is simple and easy to operate by a water-resistant touch screen.



ROTATING

After rotating the boxes, the rotator turns a little further and returns in original position in order to place the product flat in the box. The large 900 litre lid provides a large rolling distance, which loosens the germs and adhering soil well. Due to the rotating the layers of product are airy and there is a better air circulation. Therefore, this is ideal for drying and wound healing of the product, but also for flower bulbs and other agricultural products.

EMPTYING

The Boxer will empty very product friendly to the conveyor belt or into a bunker, there is a constant flow of product and there is no drop height. Before emptying the box can be rotated several times which will produce a soil or germ-free product. The valves open fully so boxes for carrots and chicory are also emptied completely. A vibration motor can loosen adhering soil before the valve will close. The double version of BOXER has the option of running the product in the middle or on the sides. The high capacity (3-120 t/h) of the double BOXER ensures that a truck is loaded quickly. The continuous product flow with the speedtronic system also provides a constant supply to the sorting machine. This makes box emptying easy.

ELECTRIC BOXER

The BOXER can (optionally) also be fully electrically driven, this does not apply to box washing.

THE MOST FUNCTIONAL MACHINE ON THE MARKET

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CONVEYOR BELTS

The conveyor belts that discharge the product are equipped with an end sensor, so that the machine always stops when the product can no longer be discharged. The belts are available in different lengths and widths, depending on the required stock on the belt, so that no Evenflow or bunker is needed. The space that occurs on the belt when changing the box is completely closed by the speedtronic up to 80 t/h. The maximum capacity is approx. 100 t/h. Line steering is standard.

BOXMASTER

When the Boxer is equipped with stackers, there is peace in the logistics. Without Evenflow, there is enough product on the 1-metre-wide conveyor belt to easily process 80 tons per hour. The advantage is that driving distance and placing the boxes becomes less important, partly because the machine itself unstacks, processes and stacks the boxes.

If a compact setup is required, the U-shape is a good basis.



BOX WASHING

There is more to washing boxes than just getting them wet. The 2 versions of the Boxer, low pressure or high pressure washing, are important starting points. Washing with low pressure, up to +/- 25 bar, is preferred, as this prevents damage to the wood. Both systems are adjustable in water pressure and flow. When washing with ground or surface water, there is more to it than just draining the washing water.

Mechatec has a good solution for this: water reuse, the RecSysPro.

THE MOST FUNCTIONAL MACHINE ON THE MARKET

BOXER WATER RE-USE AND DISINFECTION SYSTEM

WATER SAVING

When less water is available, cleaning can be done by a high-pressure system (60-80 bar). The use of water is 60-80 l/min in full continuous operation. The fully closed machine, with inlet and outlet doors, (Boxmaster, optional) collects all the washing water and transports it to the RecSysPro or to the overflow collection containers.

This quickly results in a water saving of approximately 150 m³ per day.

WATER RE-USE

For water recycling, we have various systems that are matched to each other, depending on the quality of the dirty water. The starter set consists of filtration tanks with a physiological cleaning system, called overflow tanks. The water meanders through the system and sand and dirt remain in the tanks. For floating particles, such as wood, an overflow filter is installed.

REC - SYS - PRO

The most extensive and efficient system consists of vibrating filters and a cyclone filter. This system, in combination with an intermediate storage, has sufficient capacity to wash and disinfect in one pass with the low-pressure washing system and maximum cleaning power.

DISINFECTION AND WASHING

If you choose for a disinfection system, this can, for environmental reasons, only be done with a closed washing system and with water reuse. We provide 2 solutions for disinfection.

Manual: The pump adds the set percentage to the feed water continuous so that the level is maintained.

Automatic: The system measures the concentration of disinfectant in the washing water and automatically adds disinfectant. This saves resources and you are sure that the disinfection is always at the right concentration.



THE MOST FUNCTIONAL MACHINE ON THE MARKET

THE BOXMASTER STACKINGSYSTEM

BOXMASTER (STACKERS)



These provides you the flexibility to process your boxes easily and reliably. The robust and (modular) stackers offer you the possibility to use them at the filler, but also at the washer or box-emptying machine, efficiency at its best.

With the well-designed lifting beams, the boxes are lifted stable at 4 points, which ensures a safe and secure situation under all circumstances.

The long arms also ensure that the support under the box is ample (4 lower shelves), so that even with poor quality boxes no breakage will occur.

The wear-free rubber pulling belts provide a secure box movement under dry or wet (clay) conditions.

When washing boxes, stackers can be equipped with a drip tray, to which the liquid flows back to the Boxer.

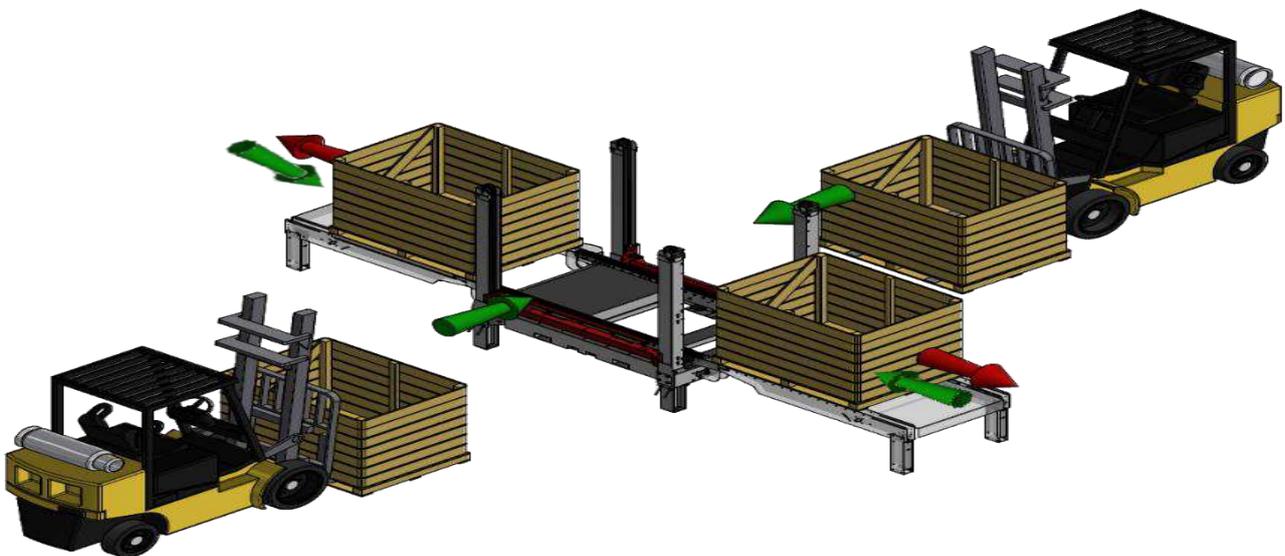
DO MORE WORK WITH LESS MANPOWER

The efficient working method and the high capacity of the BF 280 and/or the Boxer in combination with the Boxmaster gives you maximum benefit as you save on manpower, forklift costs and transport equipment.

FURTHER POSSIBILITIES

The Boxmaster stacking system can also be used with the BT box emptying machine or Boxer box washer/unloader. In this way, you can achieve the return you desire throughout the year.

The stackers can load and unload boxes in 4 directions - flexibility at its best.



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BENEFITS

- Robust and swift machine
- Height adjustable machine
easy entry
- Multifunctional machine
- High capacity



KK 3000 kistenkantelaar



ER 1000 egelbandreiniger



BF 280 kistenvuller

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