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FÖRDERTECHNIK | MASCHINENBAU

Box tipper

For all kinds of root and tuber vegetables

- Customized emptying programs
- High work safety guaranteed by safety fence equipped with safety light barrier
- Automatic detection of the box height

Box tipper

The box tipper is designed for semi-automatic emptying of boxes with all kinds of root and tuber vegetables.

The box is positioned on a tipping device, for example by means of a stacker. After the operator has released the box for tipping, the process runs completely automatically. The release is by default performed by means of a pull-wire switch. The box tipper automatically detects the box height, fixes the box and turns it in the tipping position. After the tipping process has been completed, the box is moved back to its initial position and then removed by the operator.

The machine has a separate control cabinet with programmable logic controller. The emptying process is, thus, adjusted individually to the requirements of the customer. This allows gradual tipping of the box or complete tipping at once. An automatic shaking device can be activated for better emptying. The tipping motion is controlled by a level sensor.

The box tipper has a separate hydraulic unit. Two double-acting hydraulic cylinders are responsible for fixing of the box and the tilting process. The hydraulic system is equipped with control valves, pressure limiters and an excess flow cut-off valve. A safety fence equipped with a safety light barrier guarantees work safety.

Box tipper with discharge conveyor in the tipping position

Accessories and versions

- Remote switch
- Discharge conveyor
- Speed control for the discharge conveyor using the frequency converter
- Version for loading by means of the lift truck
- Solutions for buffering stacks of boxes
- Oil cooler for high tipping performance

Sample version of a box tipping unit (KKG)

Box width	up to 1,200 or up to 1,600 mm
Box depth	up to 1,200 mm
Box height	800 to 1,500 mm
Hydraulic unit power	4.0 kW

Versions for other box sizes are also available.

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