

BIN FOUR-WAY OR SIX-WAY VALVE Ø200



BIN TWO-WAY VALVE FOR Ø200 OR Ø300



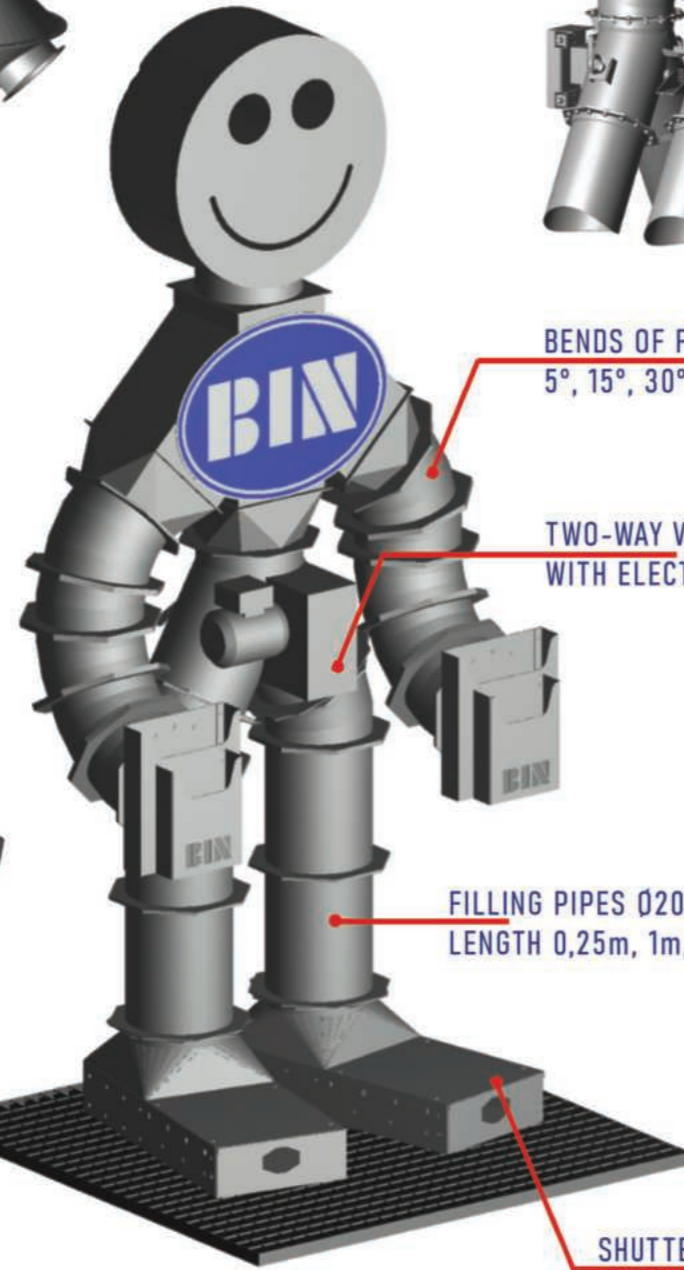
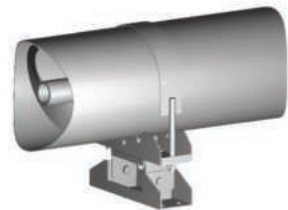
BIN COLLECTOR FOR FILLING PIPES Ø200 OR Ø300



BIN BRAKE FOR FILLING PIPES Ø200 OR Ø300



BIN FITTING FOR PIPES AND SCREW CONVEYORS Ø160, Ø220 OR Ø300



BENDS OF FILLING PIPES Ø200: 5°, 15°, 30°

TWO-WAY VALVE Ø200 WITH ELECTRIC DRIVE

FILLING PIPES Ø200 or Ø300 LENGTH 0,25m, 1m, 1,5m and 2m

SHUTTER TO THE SILOS WITH CONE-BOTTOM



GRAIN TRANSPORTATION

SCREW CONVEYORS, CHAIN CONVEYORS AND BUCKET ELEVATORS



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FULL LIST OF DISTRIBUTORS AVAILABLE ON THE WEBSITE:

www.bin.agro.pl

BIN SCREW CONVEYORS

- Screw conveyors are designed for transporting cereal grain, maize, and oilseeds.
- They can receive bulk materials transported from feeding hoppers, unloading hoppers, containers, or conveyors and transport them to other containers or conveyors.
- They are particularly suitable for transporting grain from BIN silos and to BIN silos and moving it between the silos, as well as for carrying grain from the intake hopper to the bucket elevator.
- The screw conveyors have a modular structure.

BIN SCREW CONVEYORS PS160

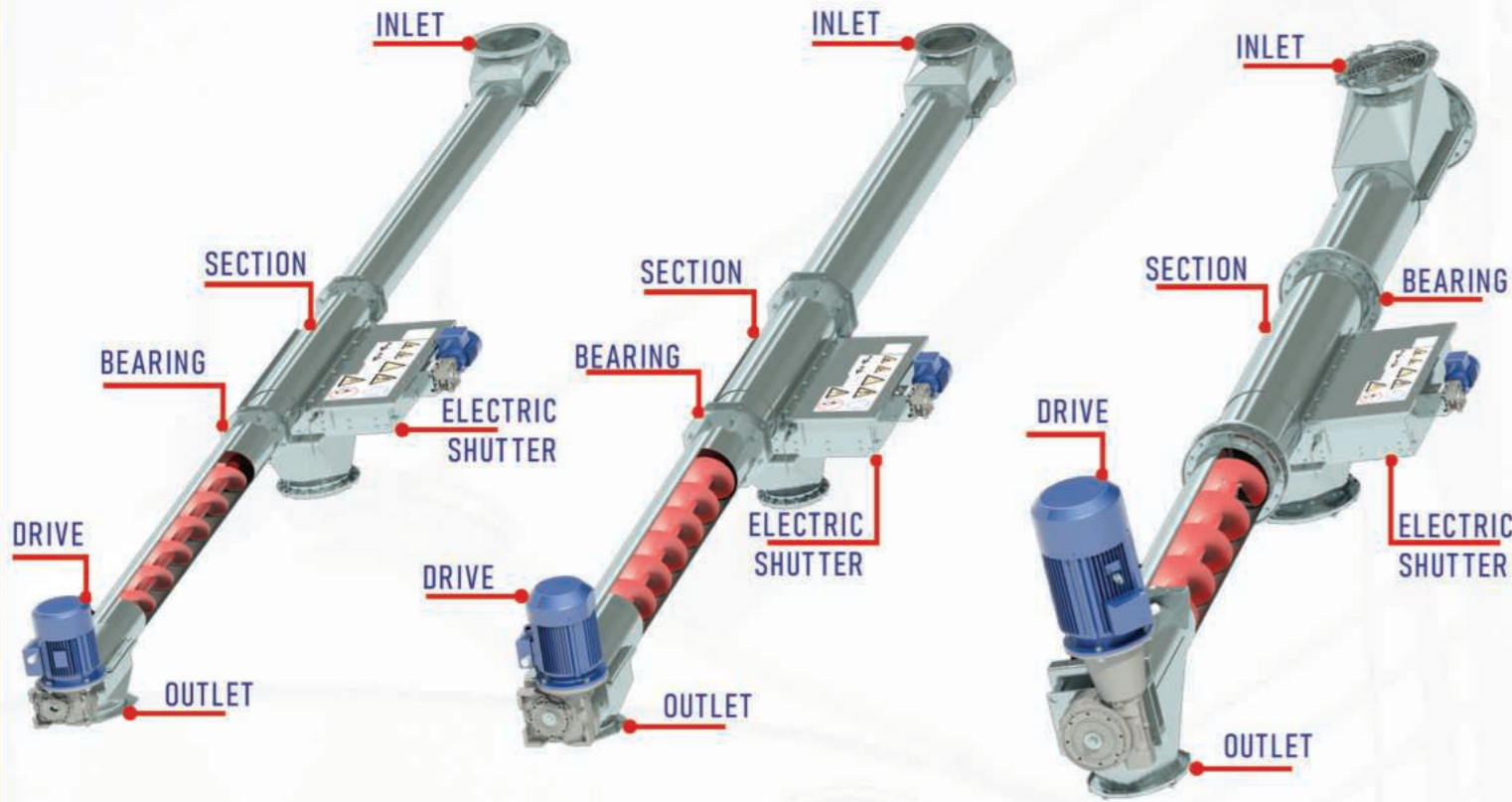
Capacity up to 28t/h
Length up to 12 m

BIN SCREW CONVEYORS PS220

Capacity up to 70t/h
Length up to 15m

BIN SCREW CONVEYORS PS300

Capacity up to 120t/h
Length up to 18m



*The electric shutter can be replaced with a manual shutter

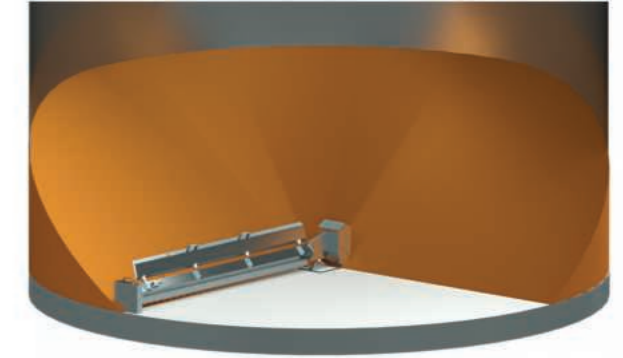
| PS160 | | | PS220 | | | PS300 | | |
|----------------|-------|-------------|----------------|-------|-------------|----------------|-------|--------------|
| drive | power | capacity | drive | power | capacity | drive | power | capacity |
| PS160-N1.5/400 | 1,5kW | up to 28t/h | PS220-N3/200 | 3kW | up to 48t/h | PS300-N7.5/200 | 7,5kW | up to 100t/h |
| PS160-N3.0/400 | 3kW | up to 28t/h | PS220-N4/150* | 4kW | up to 24t/h | PS300-N11/200 | 11kW | up to 100t/h |
| | | | PS220-N4/200 | 4kW | up to 48t/h | PS300-N11/300 | 11kW | up to 120t/h |
| | | | PS220-N4/300 | 4kW | up to 70t/h | PS300-N15/200 | 15kW | up to 100t/h |
| | | | PS220-N6/300 | 6kW | up to 70t/h | PS300-N15/300 | 15kW | up to 120t/h |
| | | | PS220-N7.5/200 | 7,5kW | up to 46t/h | PS300-N18/200 | 18kW | up to 100t/h |
| | | | PS220-N7.5/300 | 7,5kW | up to 70t/h | PS300-N18/300 | 18kW | up to 120t/h |

*only for reception bins

BIN INTERNAL SWEEP AUGER CONVEYORS

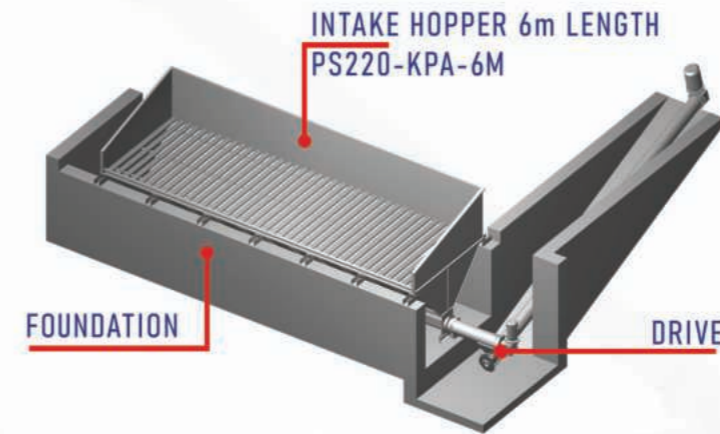
- Internal sweep auger conveyors enable residual grain unloading of the grain that was not able to fall gravitationally into conveyor mounted under the floor. Usually, in most of the silos, residual volume of the grain accounts for 15-20% of the silo's capacity.
- Sweep auger conveyors type PSW sweeps the grains while moving around the silo and transports them into underfloor conveyor.

| silo type | model PSW |
|-----------|--|
| BIN60 | PSW60, PSWEX-5 |
| BIN100 | PSW220-BIN100, PSWEX-6 |
| BIN200 | PSW220-BIN200, PSWEX-7 |
| BIN500 | PSW 500, PSWEX-9 |
| BIN1000 | PSW 1000, PSWEX-11 |
| BIN1500 | PSW 1500, PSWEX-14 |
| FBIN7 | PSW220-BIN200, PSWEX-7 |
| FBIN9 | PSW 5000, PSWEX-9 |
| FBIN11 | PSW 1000, PSW -F11-7.5, PSW-F11-11.0, PSWEX-11 |
| FBIN14 | PSW 1500, PSW -F14-7.5, PSW-F14-11.0, PSWEX-14 |
| FBIN17 | PSW -F17-7.5, PSW-F17-11.0 |
| FBIN19 | PSW -F19-7.5, PSW-F19-11.0 |



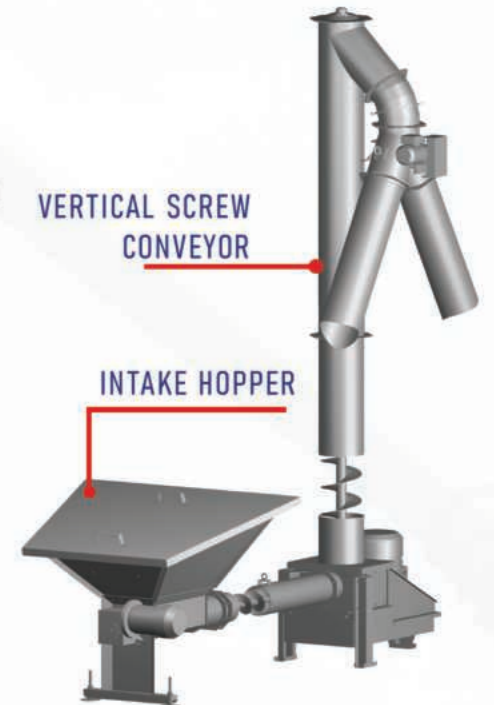
BIN INTAKE HOPPER WITH SCREW CONVEYOR

- Intake hopper is dedicated to grain unloading from farm trailers, semitrailers, and open cargo bodies of the trucks.
- It enables the transport of the bulk material to warehouses, silos or other places designed for grain and seed storage.
- Intake hopper consists of body made of galvanized steel. There is located a screw conveyor in the bottom part of the hopper. There is a grate mounted in the top part of the body. There are sides located above the surface of a grate also.
- Intake hopper may be produced in the following lengths: 5m, 6m, 8m or 9m.



BIN VERTICAL SCREW CONVEYORS TYPE PS220-PN

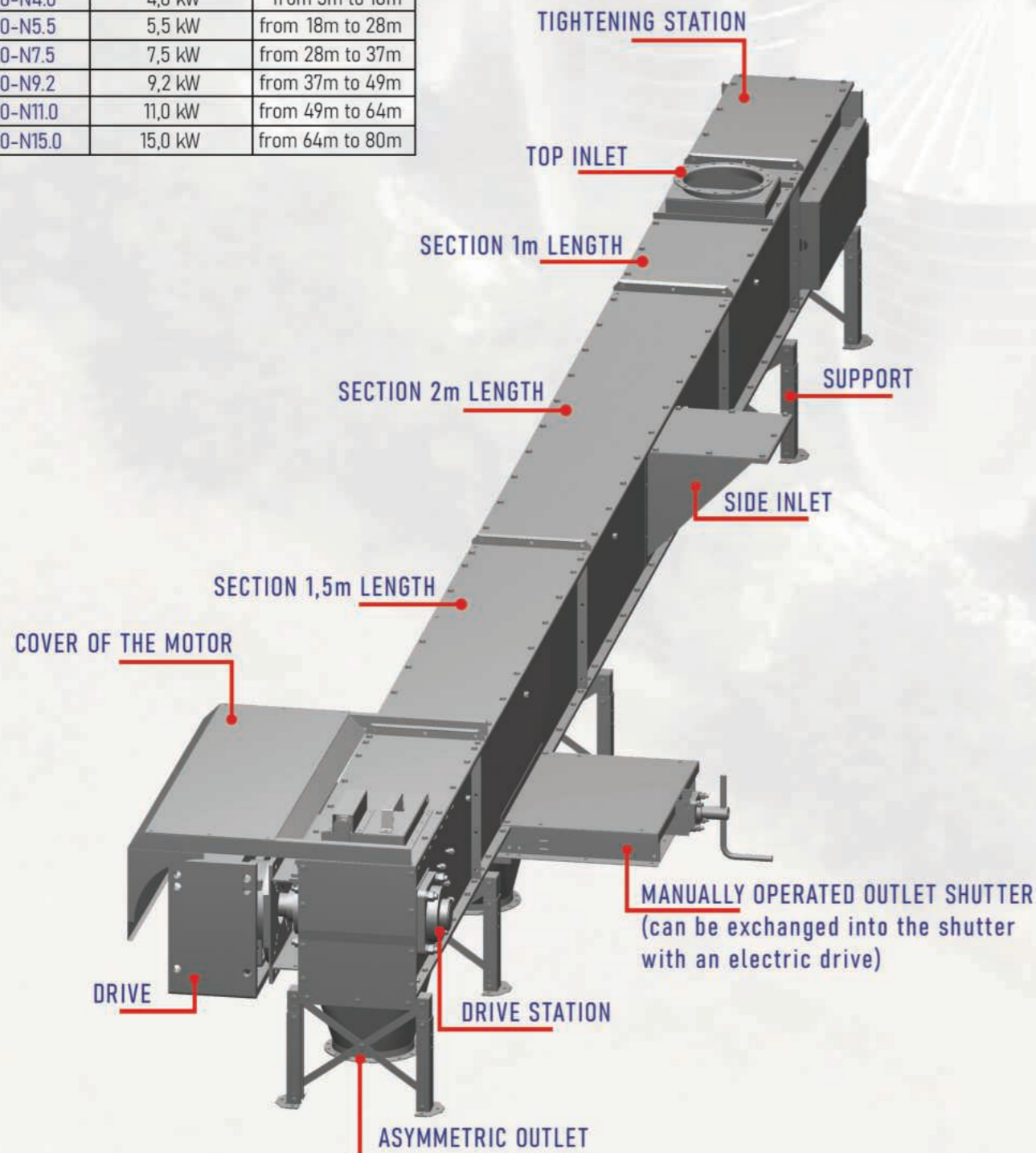
- Vertical screw conveyors type PS220-PN are stationary devices designed for vertical transporting of the cereal grains, maize, and oilseeds.
- They enable transport of the bulk material to the significant height. Its demand for the built-up area is small, which makes it easy to install.
- They are very useful for loading and unloading grain silos.
- The height of up to 14,6m
- Nominal capacity of 24 t/h
- They are mounted directly to the silo or to the PRS support.
- Their height is sufficient for loading silos of the range from BIN 10 type to BIN100 type using feeling pipes (downpipes) and for loading silos type BIN200 using screw conveyors mounted on the silo catwalks.



BIN CHAIN CONVEYORS MODEL RED250

- Chain conveyors are designed for transporting cereal grain, maize, and oilseeds.
- Transport can take place horizontally or at an angle of up to 20°.
- Chain conveyors offered in the total length from 3m to 80m (extension every 0,5m) are designed to work with a nominal capacity of 45 t/h and 60 t/h.
- The performance of the device depends, among others, on the type of grain being transported, moisture of bulk material, grain contamination level, inclination angle of the conveyor and the filling level of the conveyor body.
- The drives are equipped with helical-bevel gearboxes.

| drive code | power | total length |
|--------------|---------|-----------------|
| RED250-N3.0 | 3,0 kW | from 2m to 16m |
| RED250-N4.0 | 4,0 kW | from 3m to 18m |
| RED250-N5.5 | 5,5 kW | from 18m to 28m |
| RED250-N7.5 | 7,5 kW | from 28m to 37m |
| RED250-N9.2 | 9,2 kW | from 37m to 49m |
| RED250-N11.0 | 11,0 kW | from 49m to 64m |
| RED250-N15.0 | 15,0 kW | from 64m to 80m |



BIN BASIC COMPONENTS OF RED250 CHAIN CONVEYOR:

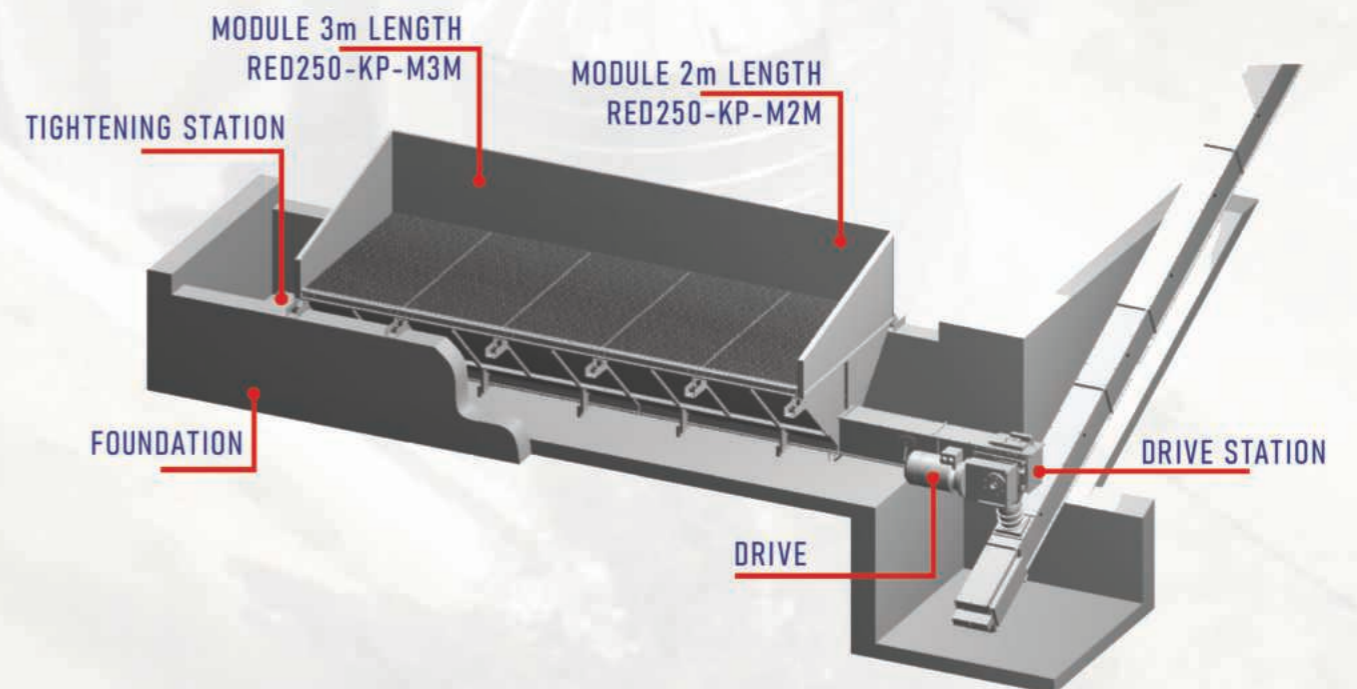
- drive station with helical-bevel gearbox (reducer) and motor with the power of from 3kW to 15kW depending on the conveyor length
- tightening station with chain tensioning springs
- segments of the conveyor with the following length: 1m, 1,5m or 2m
- chain with scrapers

BIN ADDITIONAL COMPONENTS OF RED250 CHAIN CONVEYOR:

- top inlet and side inlet
- asymmetric outlet
- outlet with manually or electrically operated shutter
- cover of the motor protecting the drive from atmospheric precipitation

BIN INTAKE HOPPER WITH CHAIN CONVEYOR

- Intake hopper is dedicated to the unloading of grains, maize, and oilseeds from farm trailers, semitrailers, and open cargo bodies of the trucks.
- Intake hopper consists of the body made of galvanised steel and the grate made of "WEMA" bridging grilles.
- There is a chain conveyor located in the bottom part of the hopper. It is possible to connect screw conveyor, other chain conveyor or bucket elevator to this chain conveyor.
- The lever installed in the section of the chain conveyor helps to control the amount of received bulk material.
- Intake hopper may be available in **overrun** or **non-overrun** version.
- Intake hopper may be produced in lengths from 3m to 14m. Length adjustment every meter.



BIN BUCKET ELEVATORS

Bucket elevators are dedicated to vertical transportation of cereal grains, maize, and oilseeds to the maximum height of 34,2 m with nominal capacity of up to 120 t/h.

Elevator is equipped with a reducer and a motor with brake. The brake can be unblocked by hand.

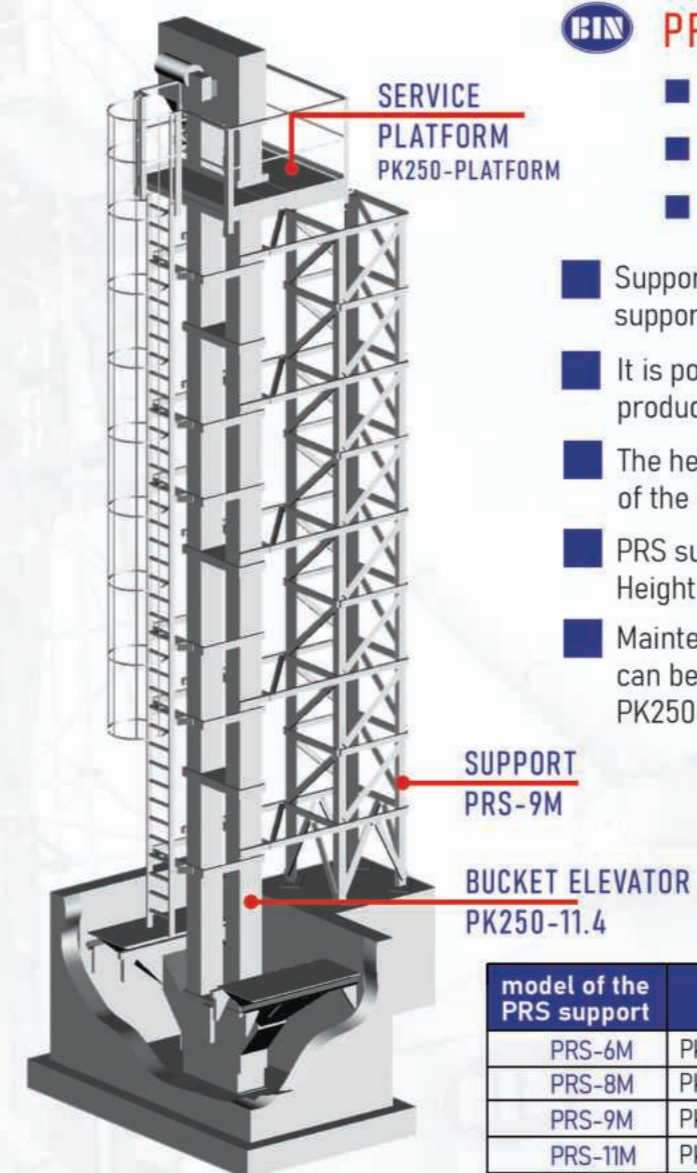
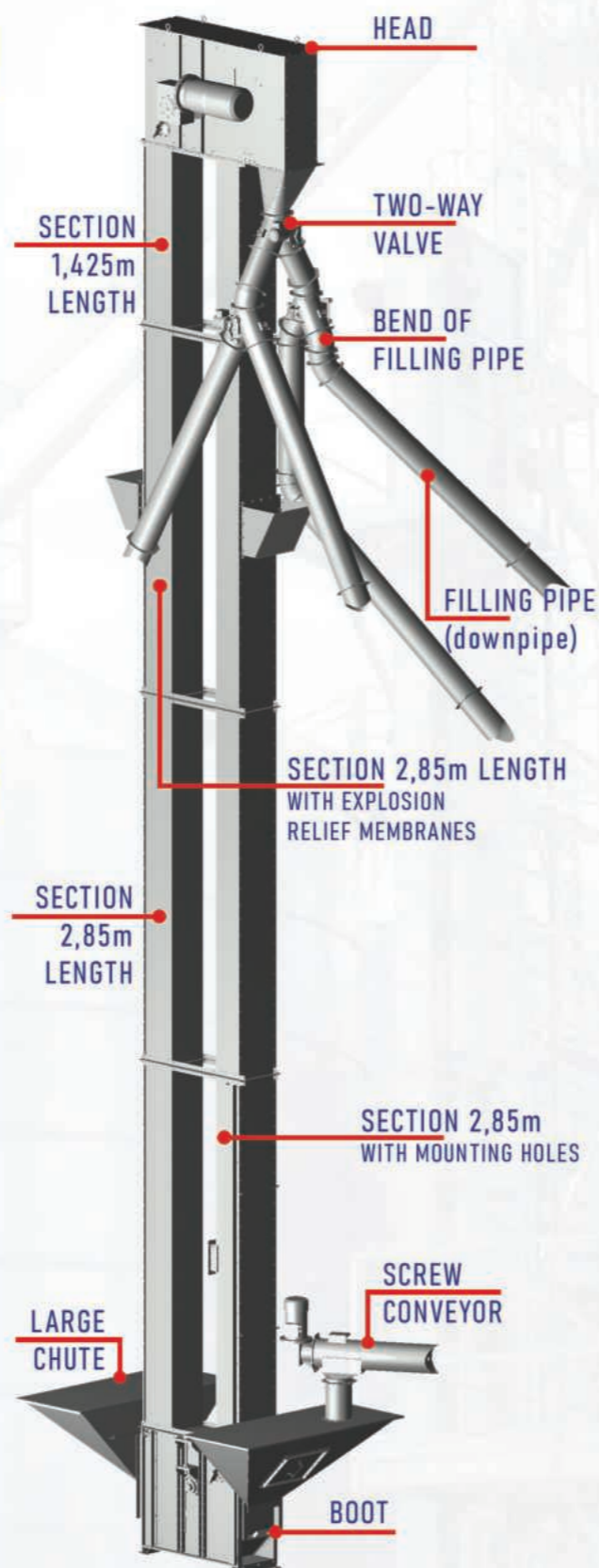
One chute or two chutes can be mounted to the boot of chain conveyor. BIN company offers 3 sizes of the chutes:

- small chute for one pipe or conveyor,
- special chute for two pipes or conveyors,
- large chute for several pipes or conveyors.

The bucket elevator must be attached to some structural elements ensuring its stability.

| model of the bucket elevator | height of the transmission | motor power for the capacities | |
|------------------------------|----------------------------|--------------------------------|---------|
| | | 45 t/h | 60 t/h |
| PK250-4.3 | 4,28 m | 3,0 kW | 3,0 kW |
| PK250-5.7 | 5,70 m | 3,0 kW | 3,0 kW |
| PK250-7.1 | 7,13 m | 3,0 kW | 4,0 kW |
| PK250-8.6 | 8,55 m | 5,5 kW | 4,0 kW |
| PK250-10.0 | 9,98 m | 5,5 kW | 5,5 kW |
| PK250-11.4 | 11,40 m | 5,5 kW | 5,5 kW |
| PK250-12.8 | 12,83 m | 5,5 kW | 5,5 kW |
| PK250-14.3 | 14,25 m | 5,5 kW | 5,5 kW |
| PK250-15.7 | 15,68 m | 5,5 kW | 7,5 kW |
| PK250-17.1 | 17,10 m | 5,5 kW | 7,5 kW |
| PK250-18.6 | 18,53 m | 5,5 kW | 7,5 kW |
| PK250-20.0 | 19,95 m | 5,5 kW | 7,5 kW |
| PK250-21.4 | 21,38 m | 7,5 kW | 9,2 kW |
| PK250-22.8 | 22,80 m | 7,5 kW | 9,2 kW |
| PK250-24.2 | 24,23 m | 7,5 kW | 9,2 kW |
| PK250-25.6 | 25,65 m | 7,5 kW | 9,2 kW |
| PK250-27.1 | 27,08 m | 11,0 kW | 11,0 kW |
| PK250-28.5 | 28,50 m | 11,0 kW | 11,0 kW |
| PK250-29.9 | 29,93 m | 11,0 kW | 11,0 kW |

| model of the bucket elevator | height of the transmission | motor power for the capacities | |
|------------------------------|----------------------------|--------------------------------|---------|
| | | 100 t/h | 120 t/h |
| PK290-3.3 | 3,33 m | 3,0 kW | 3,0 kW |
| PK290-4.7 | 4,75 m | 3,0 kW | 4,0 kW |
| PK290-5.7 | 5,70 m | 4,0 kW | 4,0 kW |
| PK290-7.1 | 7,13 m | 4,0 kW | 5,5 kW |
| PK290-8.6 | 8,55 m | 5,5 kW | 5,5 kW |
| PK290-10.0 | 9,98 m | 5,5 kW | 7,5 kW |
| PK290-11.4 | 11,40 m | 7,5 kW | 7,5 kW |
| PK290-12.8 | 12,83 m | 7,5 kW | 9,2 kW |
| PK290-14.3 | 14,25 m | 7,5 kW | 9,2 kW |
| PK290-15.7 | 15,68 m | 7,5 kW | 9,2 kW |
| PK290-17.1 | 17,10 m | 9,2 kW | 11,0 kW |
| PK290-18.6 | 18,53 m | 9,2 kW | 11,0 kW |
| PK290-20.0 | 19,95 m | 9,2 kW | 15,0 kW |
| PK290-21.4 | 21,38 m | 11,0 kW | 15,0 kW |
| PK290-22.8 | 22,80 m | 11,0 kW | 15,0 kW |
| PK290-24.2 | 24,23 m | 11,0 kW | 15,0 kW |
| PK290-25.6 | 25,65 m | 15,0 kW | 15,0 kW |
| PK290-27.1 | 27,08 m | 15,0 kW | 15,0 kW |
| PK290-28.5 | 28,50 m | 15,0 kW | 18,5 kW |
| PK290-29.9 | 29,93 m | 15,0 kW | 18,5 kW |
| PK290-31.4 | 31,35 m | 15,0 kW | 18,5 kW |
| PK290-32.8 | 32,78 m | 15,0 kW | 18,5 kW |
| PK290-34.2 | 34,20 m | 18,5 kW | 18,5 kW |



| model of the PRS support | model of the bucket elevator | |
|--------------------------|------------------------------|------------|
| PRS-6M | PK250-8.6 | PK290-8.6 |
| PRS-8M | PK250-10.0 | PK290-10.0 |
| PRS-9M | PK250-11.4 | PK290-11.4 |
| PRS-11M | PK250-12.8 | PK290-12.8 |

BIN PRS SUPPORT

- to the bucket elevator
- to the downpipe
- to the vertical screw conveyor

Support of the bucket elevator consists of PRS multifunctional support with the appropriate number of conveyor fasteners.

It is possible to use PRS support to bucket elevators produced by the company BIN with a height of up to 12,8m.

The height of the PRS support is adjusted to the height of the bucket elevator or vertical screw conveyor.

PRS support may be produced in heights from 6m to 11m. Height adjustment every meter.

Maintenance of the bucket elevator fixed to the support can be provided by the maintenance platform model PK250-PLATFORM. The platform is equipped with the ladder.

BIN TOWER OF THE BUCKET ELEVATOR

The tower is used to support a bucket elevator.

The tower is equipped with two platforms and the ladder with the safety cage. The top platform enables maintenance of the bucket elevator head. The bottom platform allows access to the valves and filling pipes.

The heights of the towers are adjusted to the heights of standard bucket elevators manufactured by the BIN company.

| model of the tower | total height of the tower | model of the bucket elevator | |
|--------------------|---------------------------|------------------------------|------------|
| WPK-1-12.8 | 14,1 m | PK250-14.3 | PK290-14.3 |
| WPK-1-14.3 | 15,5 m | PK250-15.7 | PK290-15.7 |
| WPK-1-15.7 | 16,9 m | PK250-17.1 | PK290-17.1 |
| WPK-1-17.1 | 18,3 m | PK250-18.6 | PK290-18.6 |
| WPK-1-18.5 | 19,8 m | PK250-20.0 | PK290-20.0 |
| WPK-1-20.0 | 21,2 m | PK250-21.4 | PK290-21.4 |
| WPK-1-21.4 | 22,6 m | PK250-22.8 | PK290-22.8 |
| WPK-1-22.8 | 24,0 m | PK250-24.2 | PK290-24.2 |
| WPK-1-24.2 | 25,4 m | PK250-25.6 | PK290-25.6 |
| WPK-1-25.6 | 26,9 m | PK250-27.1 | PK290-27.1 |
| WPK-1-27.1 | 28,3 m | PK250-28.5 | PK290-28.5 |
| WPK-1-28.5 | 29,7 m | PK250-29.9 | PK290-29.9 |

