

*Operating Instruction*

# BUCKET ELEVATOR



**Henan Hongxing Heavy Machinery Co., Ltd.**

## The Advantages and Description of Bucket Elevator:

This elevator has the advantages of big conveying amount, high elevating height, stable and reliable operation and long service. Its main performance and parameters conform to the JB3926----85 Vertical Bucket Elevator

(this standard equivalently refers to international stand and foreign advanced standard), and the hauling round-link chain conforms to the MT36----80 Mine High Strength Round-link Chain.

1.Horizontal Trunking Flanges - fixturewelded to ensure trunking stacks straight, saving erection costs

2.Oversized Removable Access Panels - make belt and bucket installation and maintenance more efficient

3.Elevator Buckets - supplied standard in UHMW polyethylene or in optional steel, nylon or urethane

4.Safety Labels - applied throughout

5.Hinged Inspection Door - features quick latch and mesh cover for convenient and safe monitoring of belt and buckets

6.Large Boot Hopper - directs material flow for proper bucket fill

7.Hinged Inspection Door with Quick Latch - allows easy access for inspection

8.Crown-Faced Boot Pulley - ensures proper belt tracking and is available in wing styles

9.Drop Down Clean-Out Panels - to provide easy access and clean out

10.Boot Side Panels - reinforced with structural angle iron

11.UHMW Shaft Seal Plate

12.Externally Mounted Pillow Block Bearings - prevent bearing exposure to boot interior

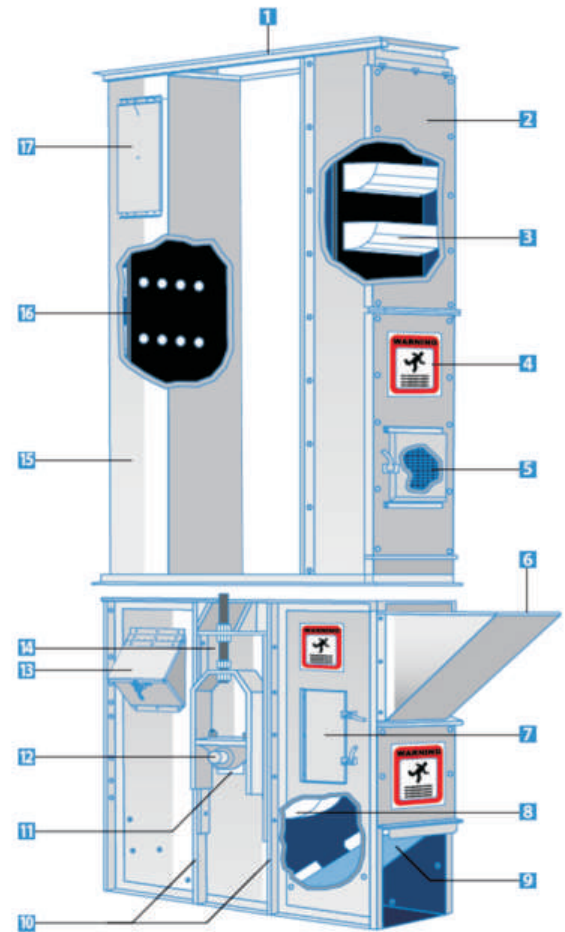
13.Clean-Up Shovel Pocket (optional)

14.Screw Take-Up - designed for rugged duty

15.Heavy-Gauge Trunking - ensures structural integrity and is available in single or double leg casing

16.Durable Rubber or PVC Belting - engineered to PPIW strength requirements

17.Pressure Relief Panel - designed to current NFPA standards



## The Handling Materials of Bucket Elevator:

This elevator is suitable for elevating powdery, granulate and small-sized non-corrosive materials such as coal, cement, stone, sand, clay and ore. Since the hauling device of the

bucket elevator is circuit chain, it is allowed to elevate the materials with relatively high temperature.

## Characteristics:

Hoisting Height:28-32.7m

Conveying Capacity:3-60m<sup>3</sup>/h

Range of application:Coal, cement, stone, sand, clay and ore.



## Technical data:

Specification	Max. lifting height (m)	Conveying capacity (m <sup>3</sup> /h)	Pitch of buckets (mm)	Motor power (kw)
160 type	28	3-8	500	3-7.5
200 type	31.5	6-15	500	3-7.5
250 type	30.16	10-25	500	4-11
300 type	30.16	25-35	500	5.5-15
350 type	31	19-40	600	7.5-18.5
400 type	39	35-55	512	7.5-22
500 type	38	70-95	512	15-30



## Working principle:

The materials are scooped up by the hopper and brought to the top along with the conveyor belt or conveyor chain, and then the materials will roll down after bypassing the top wheel, and the bucket elevator will pour the materials to the receiving chute. The driving belt of bucket elevator with driving belt often uses rubber belt which is installed on the upper or lower transmission drum and the upper or lower redirection transmission drum. Bucket elevator with chain drive is often installed with two parallel transmission chains, and there is a pair of transmission sprocket on the lower or upper part and a redirection chain wheel on the upper or lower part. Bucket elevator is often installed with enclosure to avoid dust pollution.



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