



# HENAN EXCELLENT MACHINERY CO.,LTD

———— BULK MATERIAL HANDLING ————

A photograph of a large industrial bucket elevator system. The structure is composed of a concrete frame with multiple levels. A vertical blue metal shaft runs through the center, with a series of blue buckets attached. The system is set against a backdrop of a clear blue sky and distant, hazy mountains. The foreground shows the concrete base and lower levels of the structure.

# BUCKET ELEVATOR



# BUCKET ELEVATOR PROFILE

Bucket elevator is an efficient conveyor for the vertical upward transfer of bulk goods. According to the material, application, and local conditions as well as different application scenarios and material attributes, we can adopt TDG Bucket elevator, THG chain bucket elevator, and NE chain bucket elevator. These bucket elevators can be used in cement, electricity, the Chemical industry, metallurgy, food, and other industries.



# WHY CHOOSE EXCT BUCKET ELEVATOR



Experienced engineers team provides scientific and reasonable technical solutions of bucket elevator for each end user.

Excellent tooling, skilled technical workers, 30+years of production experience to ensure the quality of bucket elevator

+200 successful cases of bucket elevator in 40 countries and regions around the world.

Fast after-sale service, sufficient spare parts reserve to ensure the long-cycle stable operation of bucket elevator.



# TYPES OF BUCKET ELEVATOR

## BELT TYPE BUCKET ELEVATOR



**Structural Feature:** Adopt polyester conveyor belt or steel cord conveyor belt as traction component

**Loading Type:** Scoop type

**Discharging Type:** Centrifugal type

**Bucket Width:** 160/200/250/315/400/500/630/800/1000/1250/1600mm

**Max Capacity:** 1,541 m<sup>3</sup>/h

**Max Lifting Height:** Up to 80 m

**Bucket Speed:** Up to 1.86 m/s

**Drive Device type:** Gear-motor unit / Motor+Fluid coupling+Gear-box

**Take-up type:** Gravity + Spring unit

**Protection Device:** Speed switch / Temperature sensors / Blockage sensor

## CHAIN TYPE BUCKET ELEVATOR



**Structural Feature:** Adopt plate chain as traction component

**Loading Type:** Directly flow type

**Discharging Type:** gravity type

**Bucket Width:** 250/300/400/500/600/800/1000mm

**Max Capacity:** 941 m<sup>3</sup>/h

**Max Lifting Height:** Up to 45 m

**Bucket Speed:** 0.5m/s

**Drive Device type:** Gear-motor unit / Motor+Fluid coupling+Gear-box

**Take-up type:** Gravity + Spring unit

**Protection Device:** Speed switch / Temperature sensors / Blockage sensor

# MAIN APPLICATIONS FOR BUCKET ELEVATOR



Construction Materials Industry



Chemical Industry



Grain Industry



Metallurgy Industry



Food Industry



Mineral Industry



# HANDLING MATERIALS FOR BUCKET ELEVATOR



Clinker



Grain



Aggregates



Sugar



Animal Feeds



Salt



Coal



Fertilizer



Flyash



Frac Sand



Minerals



Potash



Limestone



lime powder



Woodchips

# SUCCESS PROJECT IN VARIOUS INDUSTRIES



Equipment model: TDG1000-42.50      Handling material: cement clinker  
 Handling capacity: 650t/h              Bucket width: 1000mm  
 C-C distance: 42.50m                  Bucket speed: 1.86m/s  
 End user name: Xuzhou (CUCC) Cement Co.,Ltd



Equipment model: TDG630-27.80      Handling material: grain  
 Handling capacity: 300t/h                Bucket width: 630mm  
 C-C distance: 27.80m                  Bucket speed: 1.65m/s  
 End user name: China Grain Reserves Management Group



## Chain Bucket Elevator Technical Specifications

Model	THG250	THG315	THG400	THG500	THG630	THG800	THG1000	THG1250	THG1600
Capacity (m <sup>3</sup> /h)	70	100	160	210	350	475	715	1120	1550
Bucket	Volume (L)	6.5	10	16	25	40	64	102	255
	Pitch (mm)	336	378	420	480	546	630	756	882
Chain & bucket weight (kg/m)	33.4	43.25	60.9	79.6	88.66	107	150	187.6	233
Speed (m/s)	1.04	1.04	1.17	1.17	1.32	1.31	1.47	1.47	1.47
Max lift height (m)	60	60	60	60	60	55	55	40	40

## NE Chain Bucket Elevator Technical Specifications

Model	Capacity/(m <sup>3</sup> /s)	Speed/ (m/s)	Spindle Speed/ (r/min)	Bucket		Operation Part Quality/	
				Volume/L	Width/mm		Pitch/mm
NE15	15	0.5	15.54	2.5	250	203	27.5
NE30	32		16.45	7.8	300	305	35
NE50	60		16.45	15.7	300	305	64
NE100	110		14.13	35	400	400	89
NE150	170		14.13	52.2	600	400	112.3
NE200	210		10.9	84.6	600	500	134
NE300	320		10.9	127.5	600	500	188
NE400	380		8.3	182.5	700	600	205
NE500	470		7.1	260.9	700	700	223
NE600	600		7.1	330.2	700	700	274
NE800	800	6.2	501.8	800	800	313	





EXCT committed to be the best supplier in the world



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