

EXCI® HENAN EXCELLENT MACHINERY CO.,LTD

BUCKET ELEVATOR

———— BULK MATERIAL HANDLING ————





In more than 30 years of business, EXCT has been a leader in bulk materials handling technology and provides products and solutions with high technical standards for a wide range of applications requiring the handling and storage of bulk materials. EXCT products are available to more than 2,000 customers in more than 60 countries around the world, and our expertise is recognized by our customers.

In the process of company development, EXCT put product usability, service life, and low price as the focus of product development. EXCT bucket elevator is continuously developed to meet the growing requirements of the factory and process. according to the material attributes, application scenarios, and local conditions, And for customer requirements, EXCT provides professional design and customized

- Clinker
- Grain
- Aggregates
- Sugar
- Animal Feeds
- Salt
- Coal
- Fertilizers
- Flyash
- Fracsand
- Mineral
- Potash
- Limestone
- Calcined Cokeoal
- Woodchip

WHY CHOOSE EXCT BUCKET ELEVATOR



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



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



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



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

MAIN APPLICATION INDUSTRY



Construction Materials Industry



Chemical Industry



Grain Industry



Metallurgy Industry



Food Industry



Mineral Industry

BELT TYPE BUCKET ELEVATOR



Outstanding options of the Belt Bucket Elevators are high lifts and conveyance of title capacities. These superior bucket elevators are designed for continuous operation with low maintenance requirements. All drive pulleys feature exchangeable friction linings. The segments will be simply changed while not gap the belt. within the elevator boot, a bar-type drum ensures the radio-controlled come off the belt. Precise parallel steering is obtained with the parallel tensioning device.

The bucket design and also the shut bucket spacing are tested assets permitting continuous material take-up and discharge. The buckets are mounted to the elevator belt with flat head screws of special design engaging within the longitudinal and cross steel cords. Utmost resistance to ripping is therefore secured for the buckets. Rubber strips are fitted between bucket and belt.

FEATURES & ADVANTAGES



- ☑ Sectional friction linings of the drive pulley may be effortlessly exchanged without dismounting the belt.
- ☑ The wing pulley was mounted within the tail section to forestall the fabric from scattering on the pulley to reduce the friction between belt and pulley.
- ☑ Traction components adopt a specialized rubber belt of the bucket elevator, which is of high tensile strength, good flexibility, and long service life.
- ☑ A gravity tension device is adopted in the tail part of the bucket elevator to realize the automatic tension of the belt. As long as the adjustment is in place, the constant tension can be maintained to effectively avoid the belt slipping.
- ☑ Both ends of the belt are clamped into the aluminum cast composite box (clamp connection), thus securing the belt connection.
- ☑ The buckets are mounted on the belt with a specially designed flat head screw, and rubber strips are put in between the buckets and also the belt.
- ☑ Because the bucket elevator could be a closed system, therefore the material and dirt won't leak, therefore as to not cause environmental pollution.



COMPONENT DETAIL



Head Section



Tail Section With Gravity Type Take-up Device



Drive Device



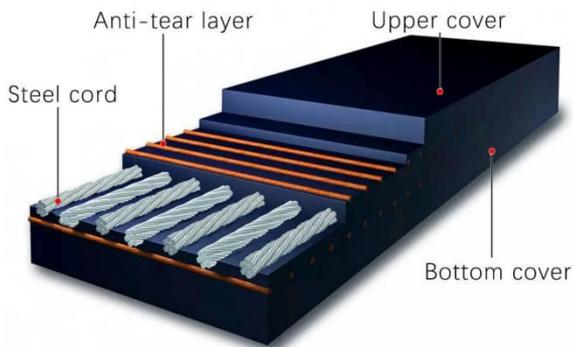
Belt & Bucket



Middle Casing

Technical Specifications

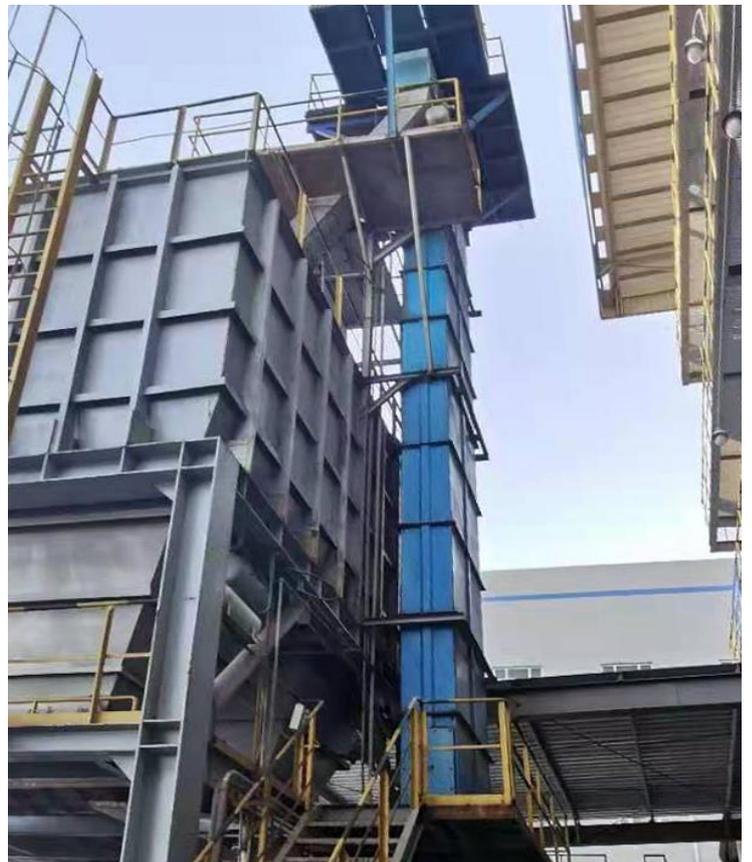
Model	TDG250	TDG315	TDG400	TDG500	TDG630	TDG800	TDG1000	TDG1250	TDG1600
Capacity (m ³ /h)	72	101	158	220	348	492	788	1220	1541
Volume (L)	6.5	10	16	25	40	64	102	161	255
Bucket Pitch (mm)	325	360	420	460	520	580	650	720	820
Belt & bucket weight (kg/m)	33	33.2	42.2	62.3	78.53	106	145	155.5	223
Speed (m/s)	1.34	1.34	1.5	1.5	1.68	1.65	1.86	1.86	1.836
Max lift height (m)	80	80	80	80	80	80	80	80	80



Belt Construction

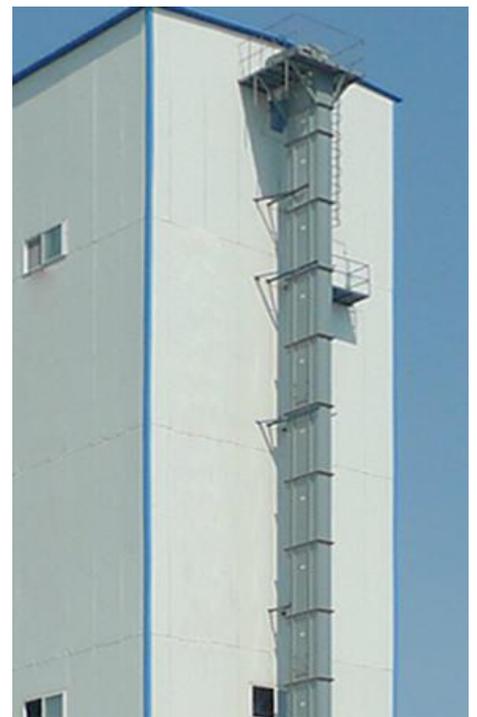


Belt Splicing



Belt Type Bucket Elevator On Site

CHAIN TYPE BUCKET ELEVATOR



Chain bucket elevator adopts high strength chain as traction components. The Chain bucket elevator is fixed on the high-strength chain, using gravity unloading mode for the continuous lifting of materials, very suitable for large capacity lifting scenes, which is a perfect solution for powder, granular, block, and high-temperature material vertical transportation.

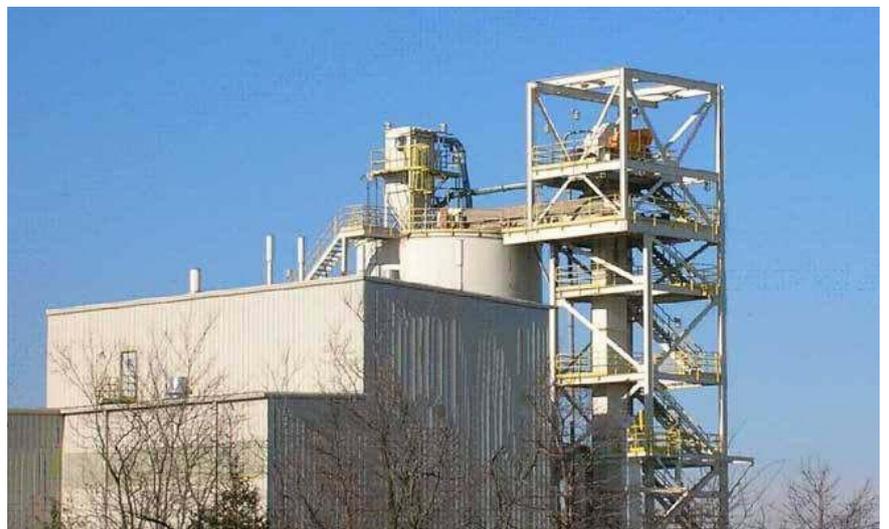
Chain bucket elevator provides strong traction and maximum conveying reliability for conveying, ensuring the safe conveying of high-temperature materials or abrasive materials. Chain bucket elevator operation reliability is good, which can be a long time stable operation, long service life. Chain with a deep bucket, suitable for conveying dry, loose, powder, granular, block, good fluidity of materials. With shallow buckets, suitable for micro wet, easy to agglomerate, poor fluidity of powder, granular materials. The materials that can be handled are: fly ash, slag, limestone, cement clinker, coal, dry clay, etc., and the temperature of the materials generally does not exceed 250°C.



FEATURES & ADVANTAGES



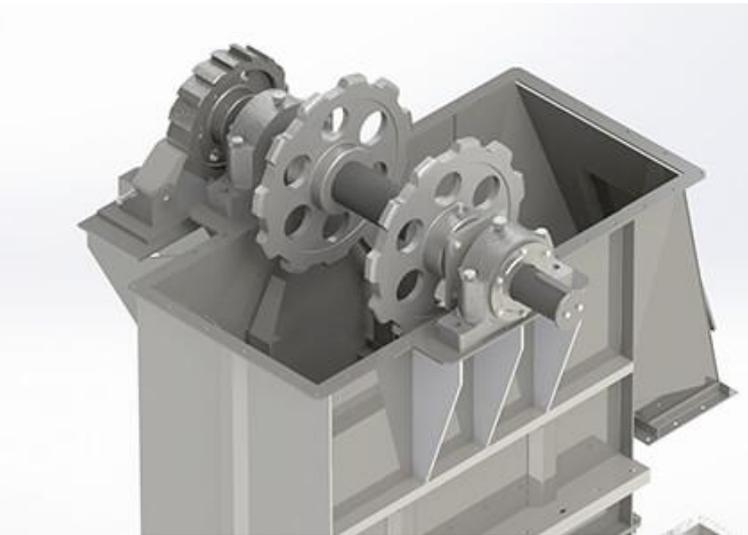
- ☑ The head sprocket consists of a hub and a split ring gear. When the sprocket wears out, the gear ring may be easily replaced, easy to replace, maintenance budget saved.
- ☑ Tail sprocket with light teeth, effectively prevent head and tail out of sync caused by skipping teeth and wear.
- ☑ Traction components adopt steel wear - resistant sleeve roller chain, which might effectively cut back the wear and tear of traction parts.
- ☑ The guide rails are put in within the housing to stop the chain from swinging throughout operation.
- ☑ The automatic tension of the chain is complete by employing a gravity type take-up device at the tail section. Once the adjustment is in place, the constant tension will be maintained, effectively avoid the chain from falling off.
- ☑ Because the entire housing protection is good, therefore no material and mud leakage, environmental pollution free.



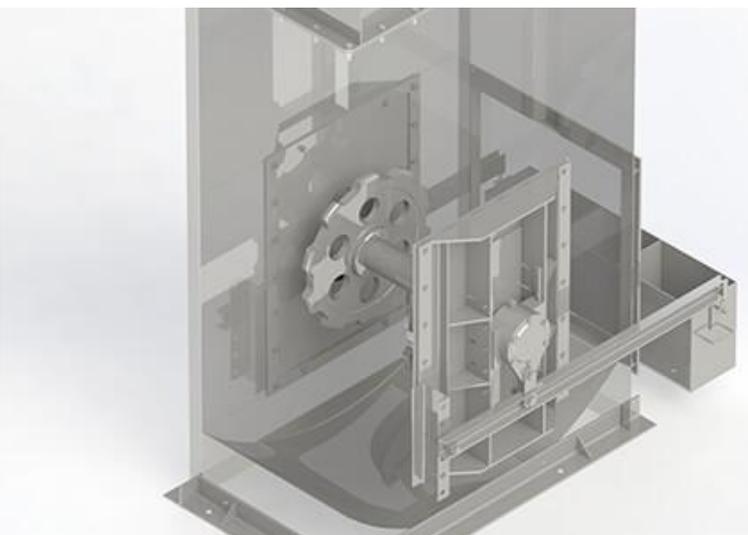
COMPONENT DETAIL



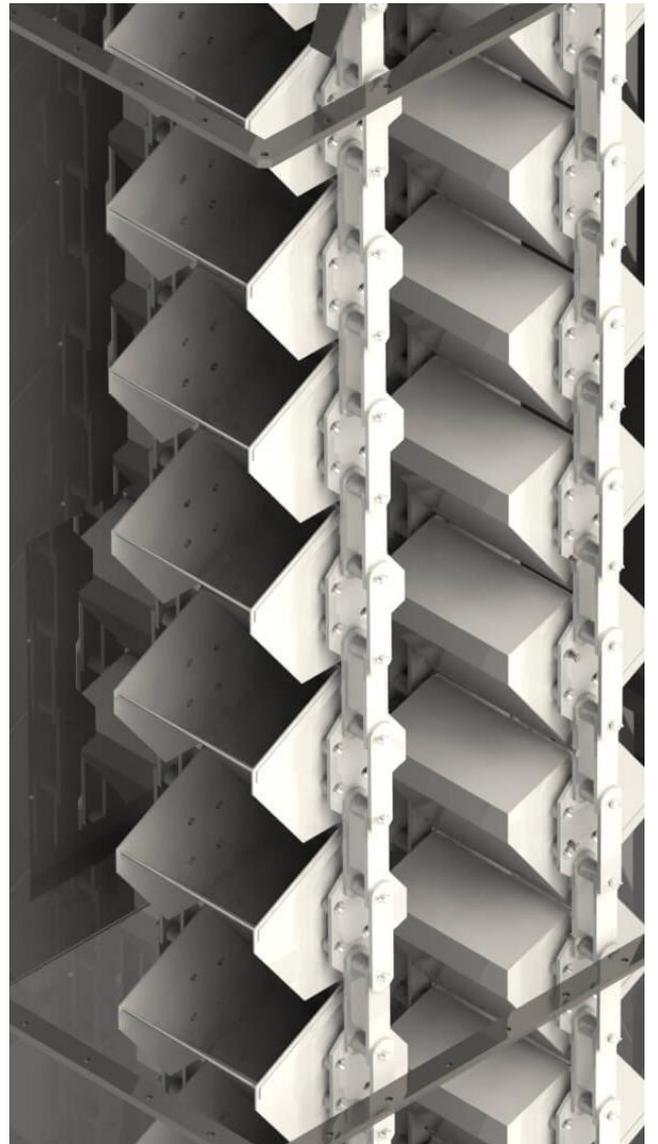
Head Section



Head Sprocket



Tail Sprocket With Gravity Type Take-up Device



Bucket & Chain

Technical Specifications

Model	Capacity (m ³ /h)	Speed/ (m/s)	Spindle Speed (r/min)	Bucket		Operation Part Quality (kg/m)	
				Volume/L	Width/mm		Pitch/mm
NE15	15	0.5	15.54	2.5	250	203	27.5
NE30	32	0.5	16.45	7.8	300	305	35
NE50	60	0.5	16.45	15.7	30	305	64
NE100	110	0.5	14.13	35	400	400	89
NE150	170	0.5	14.13	52.2	600	400	112.3
NE200	210	0.5	10.9	84.6	600	500	134
NE300	320	0.5	10.9	127.5	600	500	188
NE400	380	0.5	8.3	182.5	700	600	205
NE500	470	0.5	7.1	260.9	700	700	223
NE600	600	0.5	7.1	330.2	700	700	274
NE800	800	0.5	6.2	501.8	800	800	313

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



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



Equipment model: TDG500-26.50
Handling material: Fertilizer
Handling capacity: 150t/h
Bucket width: 500mm
C-C distance: 26.50m
D-Bucket speed: 1.68m/s
End user name: Yunnan Yuntianhua Co., Ltd



Equipment model: NE200-18.60
Handling material: coal ash powder
Handling capacity: 180t/h
Bucket width: 600mm
C-C distance: 18.60m
D-Bucket speed: 0.5m/s
End user name: CHNG Qingdao Power



EXCT committed to be the best supplier in the world



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