



Centrifugal Discharge Elevator

Product Catalog



Centrifugal Discharge Elevator

Centrifugal Discharge Bucket Elevator

Bucket Elevators are ideal for elevating a variety of bulk materials economically, efficiently and reliably. The two main type of Bucket Elevators are Centrifugal type and Continuous type.

Centrifugal Bucket Elevators are extremely suitable for handling fine, free flowing materials. They have Lower feed point, simpler loading and lesser no. of buckets compared to continuous type. Buckets are on chain or belt and travel at high speeds to effect discharge by centrifugal forces as they pass around the head pulley. The buckets are mounted at intervals on a chain belt.

The elevator belts are normally friction surface belts on, which the buckets are mounted. Buckets normally used are style AA malleable iron buckets. Drive is through shaft mounted gear reducer with built-in back stop, or through geared motors with chain drive.



PAXAA Bucket Elevator Specifications:

- Transfer capacity: 8-195 cubic meter per hour
- Elevation Height: 3-45 meter
- Linear Velocity: 1.14-1.55 meter per second
- Body Dimension: 25x89 cm up to 83x161 cm
- Bucket width: 10-40 cm



Centrifugal Discharge Elevator

PAXAA Bucket Elevator Features

- **Robust design & Construction**
 - Rigid, strong dust and/or weather tight casings
 - Curved bottom plate
 - Discharge spout positioned for clean discharge of product
 - Segmental rim hardened tooth head sprocket or traction wheel for heavy duty elevators
 - Boot sprocket is a reversible type segmental rim traction wheel
- **Full accessibility for cleanout & service**
 - Split removable hood
 - Removable bolted side panels
 - Bolted or hinged access doors
- **Wide-range of construction materials**
 - Carbon steel
 - Stainless steel
 - Abrasion-resistant alloys
- **Power transmission**
 - Head shaft mounted in fixed ball bearing pillow blocks
 - Roller bearing pillow block mounted head shaft with fabricated shaft seals
 - Shaft mounted external backstop available
 - Shaft mount drive is standard
 - Other drives available on request
- **Wide range of buckets for different materials**
 - Malleable iron buckets are standard
 - Plastic
 - Nylon
 - Fabricated steel
- **Belt type & Chain type elevator available to meet any requirement**
 - Rubber belt as standard
 - PVC belt
 - C-class combination chain as standard
 - Heavy duty SS class chain
- **Tensioning System**
 - Screw type boot take-ups with ball or roller bearings are standard
 - Internal gravity type take-ups
 - External gravity type take-ups





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Bucket Elevator Range

PAXAA can manufacture different type of bucket elevators according to the industry demand. From agricultural light duty to demanding cement plant elevator are available on request. These elevators can be chain elevators & belt elevators. Bulk material characteristics, capacity and overall height are the main factors that considered when designing Bucket Elevators type & configuration.

100 Series

Elevators of this type meet the service requirements of the majority of installations using centrifugal discharge elevators. The head shafts are fixed. The foot shaft takeups are of the screw type. Gravity takeups are available. Buckets are of malleable iron for use on chain or belt. Casings are of steel plate and angle construction.

200 Series

These elevators are similar to Type 100 except that the head shafts are adjustable and the foot shafts are fixed to maintain the relation of buckets to the loading chute and curved bottom plate. They are preferred for handling food products, materials which tend to pack or build up in the bottom of the boot, and for materials having a considerable percentage of lumps.



1400 Series

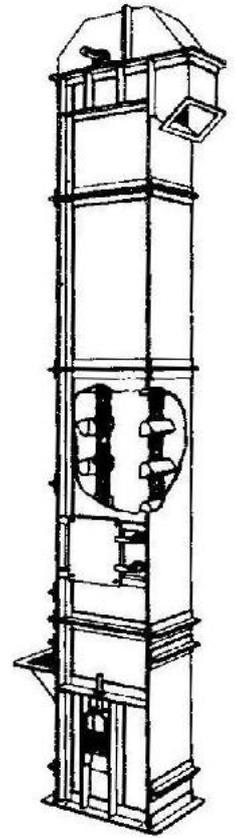
This elevator is designed primarily for cement mill service, but is suited for many other similar abrasive service applications. Their design and rugged construction makes them ideally suited for handling cement, clinker, crushed stone, bauxite, feldspar, gravel, gypsum, roofing granules, sand, shale, etc. They are available in a full range of sizes extending to the very high capacities and lifts.



Centrifugal Discharge Elevator

100 Series Chain Type Centrifugal Bucket Elevator Technical Data

- Split removable hood for accessibility.
- Head shaft mounted in fixed ball or roller bearing pillow blocks.
- Discharge spout positioned for clean discharge of product.
- Style 1 shown. Style 2, with horizontal flange is optional.
- Rigid, strong dust and/or weather tight casings.
- Style AA malleable iron buckets are standard. Other materials such as plastic, nylon and fabricated steel are available.
- C-class combination chain is standard. SS class chain is available for heavy duty applications and is standard on some sizes.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Removable bolted side panels in the boot for cleanout and service.
- Screw type boot take-ups with ball or roller bearings are available. Internal and external gravity type take-ups are standard.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request.



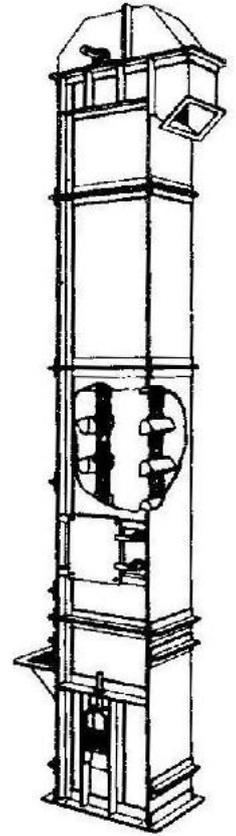
Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m ³ /h	m/s@rpm	cm	cm	mm
PX-BEC102	8	1.14@43	15*10.2*33	25*89	40
PX-BEC104	15	1.17@43	20*13*41	30*99	40
PX-BEC107	17	1.32@41	20*13*41	30*107	50
PX-BEC110	26	1.17@43	25*15*41	35*107	50
PX-BEC112	27	1.36@41	25*15*46	35*122	50
PX-BEC116	30	1.32@41	25*15*41	35*122	50
PX-BEC117	43	1.36@41	30*18*46	40*122	50
PX-BEC119	47	1.32@41	30*18*41	40*122	50
PX-BEC120	49	1.55@38	30*18*46	40*122	65
PX-BEC122	55	1.54@38	30*18*41	40*122	65
PX-BEC123	48	1.32@41	36*18*48	45*122	65
PX-BEC124	52	1.36@41	36*18*46	45*122	65
PX-BEC126	57	1.32@41	36*18*41	45*122	65



Centrifugal Discharge Elevator

100 Series Belt Type Centrifugal Bucket Elevator Technical Data

- Split removable hood for accessibility.
- Head shaft mounted in fixed ball or roller bearing pillow blocks.
- Discharge spout positioned for clean discharge of product.
Style 1 shown. Style 2, with horizontal flange is optional.
- Rigid, strong dust and/or weather tight casings.
- Style AA malleable iron buckets are standard. Other materials such as plastic, nylon and fabricated steel are available.
- Rubber and/or PVC belts are standard. Other materials are available to suit your application.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Removable bolted side panels in the boot for cleanout and service.
- Screw type boot take-ups with ball or roller bearings are standard. Internal and external gravity type take-ups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request



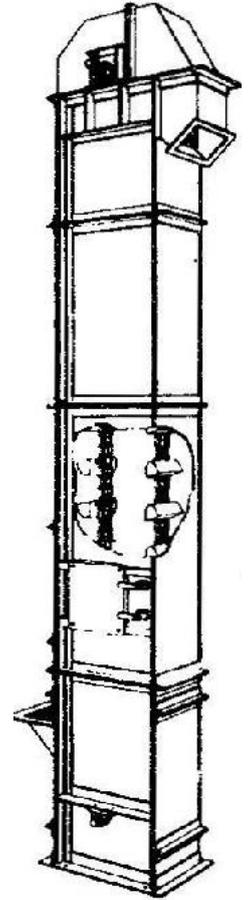
Elevator number	Max Capacity	Speed	Buckets (L*W*Spaing)	Belt (width*min tension)	Casing dim's	Boot shaft
	m ³ /h	m/s@rpm	cm	cm*N/mm	cm	mm
PX-BEB141	8	1.14@43	15*10*33	18*21	30*89	40
PX-BEB142	15	1.14@43	20*13*41	23*21	35*99	40
PX-BEB143	17	1.31@41	20*13*41	23*263	35*107	50
PX-BEB144	26	1.14@43	25*15*41	28*26	40*107	50
PX-BEB145	30	1.31@41	25*15*41	28*350	40*122	50
PX-BEB146	41	1.31@41	30*18*46	33*350	45*122	65
PX-BEB147	48	1.51@38	30*18*46	33*350	45*137	65
PX-BEB148	50	1.31@41	36*18*46	38*350	50*122	65
PX-BEB149	58	1.51@38	36*18*46	38*350	50*137	65
PX-BEB152	86	1.51@38	41*20*46	46*350	58*137	65



Centrifugal Discharge Elevator

200 Series Chain Type Centrifugal Bucket Elevator Technical Data

- Split removable hood for accessibility.
- The boot shaft is fixed and mounted in ball or roller bearing pillow blocks .
- Discharge spout positioned for clean discharge of product. Style 1 shown. Style 2, with horizontal flange is optional.
- Rigid, strong dust and/or weather tight casings.
- Style AA malleable iron buckets are standard. Other materials such as plastic, nylon and fabricated steel are available.
- C-class combination chain is standard. SS class chain is available for heavy duty applications and is standard on some sizes.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Removable bolted side panels in the boot for cleanout and service.
- Screw type boot take-ups with ball or roller bearings are standard. Internal and external gravity type take-ups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request.



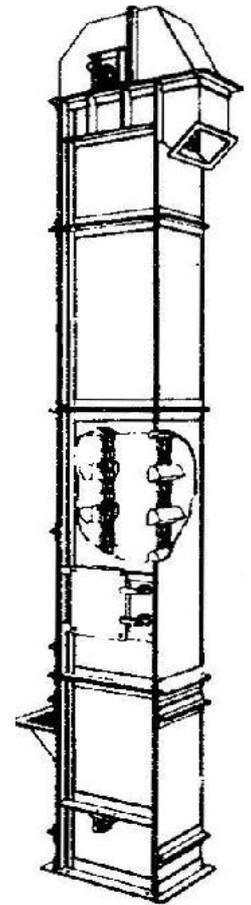
Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m ³ /h	m/s@rpm	cm	cm	mm
PX-BEC202	8	1.14@43	15*10.2*33	25*89	40
PX-BEC204	15	1.17@43	20*13*41	30*99	40
PX-BEC207	17	1.32@41	20*13*41	30*107	50
PX-BEC210	26	1.17@43	25*15*41	35*107	50
PX-BEC212	27	1.36@41	25*15*46	35*122	50
PX-BEC216	30	1.32@41	25*15*41	35*122	50
PX-BEC217	43	1.36@41	30*18*46	40*122	50
PX-BEC219	47	1.32@41	30*18*41	40*122	50
PX-BEC220	49	1.55@38	30*18*46	40*122	65
PX-BEC222	55	1.54@38	30*18*41	40*122	65
PX-BEC223	48	1.32@41	36*18*48	45*122	65
PX-BEC224	52	1.36@41	36*18*46	45*122	65
PX-BEC226	57	1.32@41	36*18*41	45*122	65



Centrifugal Discharge Elevator

200 Series Belt Type Centrifugal Bucket Elevator Technical Data

- Split removable hood for accessibility.
- The boot shaft is fixed and mounted in ball or roller bearing pillow blocks .
- Discharge spout positioned for clean discharge of product. Style 1 shown. Style 2, with horizontal flange is optional.
- Rigid, strong dust and/or weather tight casings.
- Style AA malleable iron buckets are standard. Other materials such as plastic, nylon and fabricated steel are available.
- Rubber and/or PVC belts are standard. Other materials are available to suit your application.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Removable bolted side panels in the boot for cleanout and service.
- Screw type boot take-ups with ball or roller bearings are standard. Internal and external gravity type take-ups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request.



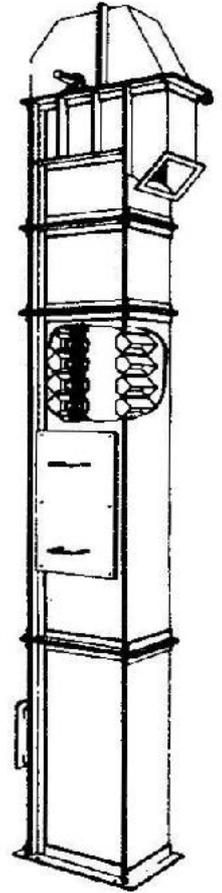
Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Belt (width* min tension)	Casing dim's	Boot shaft
	m ³ /h	m/s@rpm	cm	cm*N/mm	cm	mm
PX-BEB241	8	1.14@43	15*10*33	18*21	30*89	40
PX-BEB242	15	1.14@43	20*13*41	23*21	35*99	40
PX-BEB243	17	1.31@41	20*13*41	23*263	35*107	50
PX-BEB244	26	1.14@43	25*15*41	28*26	40*107	50
PX-BEB245	30	1.31@41	25*15*41	28*350	40*122	50
PX-BEB246	41	1.31@41	30*18*46	33*350	45*122	65
PX-BEB247	48	1.51@38	30*18*46	33*350	45*137	65
PX-BEB248	50	1.31@41	36*18*46	38*350	50*122	65
PX-BEB249	58	1.51@38	36*18*46	38*350	50*137	65
PX-BEB252	86	1.51@38	41*20*46	46*350	58*137	65



Centrifugal Discharge Elevator

1400 Series Cement Mill Chain Type Centrifugal Bucket Elevator Technical Data

- Split removable hood for accessibility.
- Segmental rim hardened tooth head sprocket or traction wheel.
- Roller bearing pillow block mounted head shaft with fabricated shaft seals.
Shaft mounted external backstop available.
- Style 1 discharge furnished as standard. Style 2 discharge furnished if specified.
- Style AC high capacity buckets mounted on single strand SS style chain furnished as standard.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Rigid, strong dust and/or weather tight self supporting casings.
- Stub inlet is standard. Hopper type intake contoured to feed product directly into the buckets available if specified.
- Removable bolted side panels are provided in the boot section for maintenance and cleanout.
- Internal gravity take-up is provided as standard. The boot shaft is hardened in the bearing area and is mounted in hard iron bearing blocks.
- Boot sprocket is a reversible type segmental rim traction wheel.



Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m ³ /h	m/s@rpm	cm	cm	mm
PXBEC1405	57	1.30@36	30*20*48	150*141	65
PXBEC1408	79	1.30@36	41*20*46	60*141	75
PXBEC1409	119	1.30@36	41*20*30	60*141	75
PXBEC1412	130	1.30@36	46*25*46	83*163	75
PXBEC1413	195	1.30@36	46*25*30	83*163	75

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