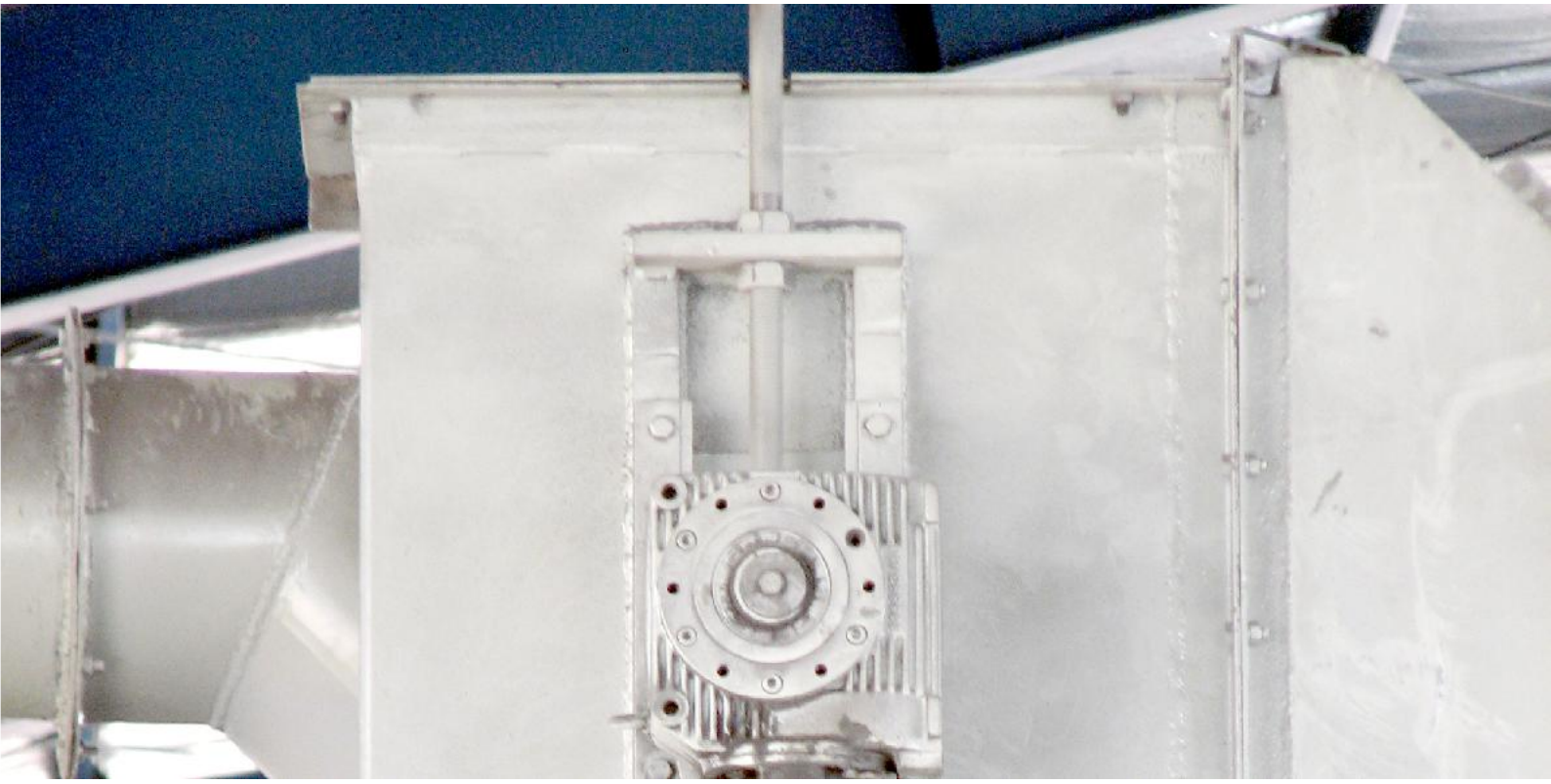


Continuous Discharge Elevator

Product Catalog

Continuous Discharge Elevator

Continuous 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.

Continuous Bucket elevators have buckets mounted continuously on chain or belt. These elevators are suitable for sluggish, aerated and friable material or material with larger % of lumps. Loading of the buckets is through loading leg and discharged over the face of the preceding bucket while passing around the head wheel.

The buckets are mounted continuously on the normally friction surface belts. Continuous type steel buckets are used leaving minimum clearance between the buckets. Drive is through shaft mounted gear reducer with built in back stop or through geared motor with chain drive.

PAXAA Bucket Elevator Specifications:

- Transfer capacity: 17-351 cubic meter per hour
- Elevation Height: 3-45 meter
- Linear Velocity: 0.51-0.64 meter per second
- Body Dimension: 30x99 cm up to 131x152 cm
- Bucket width: 20-46 cm

Continuous Discharge Elevator

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

Continuous Discharge Elevator

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.

700 Series

This elevator is the most frequently used of the continuous bucket design. The head shafts are fixed. The foot shaft take-ups are of the screw type. Gravity take-ups are available. Buckets are of steel and spaced continuously on a single strand of chain. Casings are of steel plate and angle construction. Material is fed to the buckets through a loading leg.

800 Series

Elevators of this type are used for the handling of fine or crushed materials with lumps not exceeding 12mm. These elevators are similar to Type 700, except that head shafts are adjustable and foot shafts are fixed, to maintain the relation of buckets to the loading chute and curved bottom plate. Buckets are loaded by scooping up material from the boot. When modified by the addition of a loading leg and a correspondingly higher inlet spout, this type elevator can also be used

for handling lumpy materials.

1000 Series

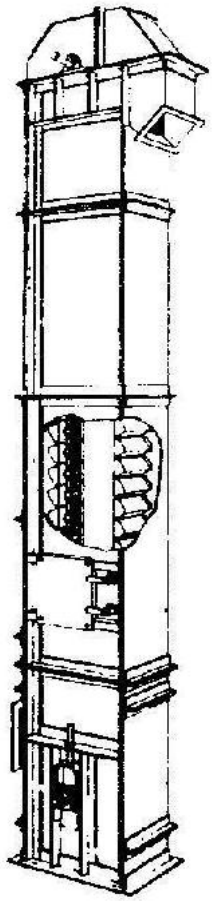
This elevator is of the super-capacity type and used for handling friable, heavy or abrasive material ranging from fines to large lumps. The head shafts are fixed and the foot take-ups are of the screw type. Gravity take-ups are available. Continuous buckets are end-mounted between two strands of Class SS bushed roller chain. Material is fed to the buckets through a loading leg. Casings are of steel plate and angle construction.

1100 Series

These elevators are similar in design to Type 1000, except for greater capacities and centers. Head terminal machinery and driving equipment are carried on independent supports. The foot take-ups are of the screw type. Gravity take-ups are available.

Continuous Discharge Elevator

700 Series Chain Type Continuous Discharge Bucket Elevator Technical Data

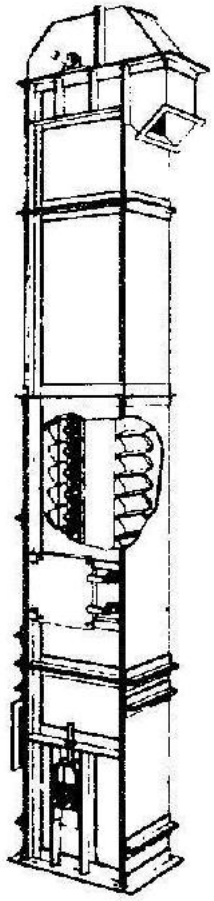


- Split removable hood for accessibility.
- Head shaft mounted in fixed ball or roller bearing pillow blocks
- Discharge spout positioned for clean discharge of product. Style 1 shown. Style 2, with horizontal flange is optional.
- Rigid, strong dust and/or weather tight casings
- Style MF medium front buckets are standard. Other styles such as HF high front or LF low front 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 takeups with ball or roller bearings are standard. Internal and external gravity type takeups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request
- Loading legs

Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m^3/h	m/s@rpm	cm	cm	mm
PX-BEC706	17	0.64@23.4	20*13*20	30*99	40
PX-BEC708	21	0.64@23.4	25*13*20	35*99	40
PX-BEC710	29	0.64@19.1	25*18*30	35*122	50
PX-BEC712	35	0.64@19.1	30*18*30	40*122	50
PX-BEC714	40	0.64@19.1	36*18*30	45*122	50
PX-BEC726	44	0.64@19.1	30*20*30	40*122	65
PX-BEC728	52	0.64@19.1	36*20*30	45*122	65
PX-BEC730	59	0.64@19.1	41*20*30	50*122	65
PX-BEC732	66	0.64@19.1	46*20*30	55*122	65

700 Series Belt Type Continuous Discharge 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 MF medium front buckets are standard. Other styles such as HF high front or LF low front are available.
- Rubber and/or PVC belts are standard. Other belt 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 takeups with ball or roller bearings are standard.
- Internal and external gravity type takeups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request.
- Loading legs

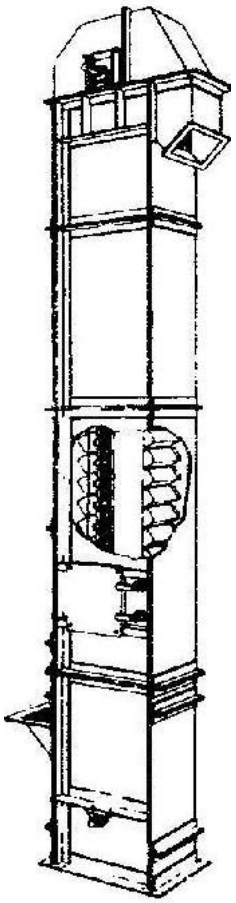


Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Belt (width*min)	Casing dim's	Boot shaft
	m^3/h	m/s@rpm	cm	cm*N/mm	cm	mm
PX-BEB766	17	0.64@24	20*13*20	23*263	35*99	40
PX-BEB768	21	0.64@24	25*13*20	28*263	40*99	40
PX-BEB770	29	0.64@20	30*30*18	28*263	40*122	50
PX-BEB772	35	0.64@20	30*30*18	33*350	45*122	50
PX-BEB774	40	0.64@20	36*30*18	38*350	50*122	50
PX-BEB776	44	0.64@20	30*30*20	33*350	45*122	65
PX-BEB778	52	0.64@20	36*30*20	38*350	50*122	65
PX-BEB780	59	0.64@20	41*30*20	43*350	55*122	65
PX-BEB782	66	0.64@20	46*30*20	48*350	60*122	65

Continuous Discharge Elevator

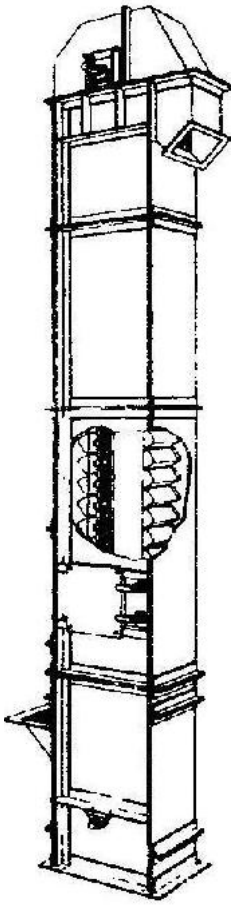
800 Series Chain Type Continuous Discharge Bucket Elevator Technical Data

- 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 MF medium front buckets are standard. Other styles such as HF high front or LF low front 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 takeups with ball or roller bearings are standard. Internal and external gravity type takeups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request.
- Optional Loading legs



Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m^3/h	m/s@rpm	cm	cm	mm
PX-BEC806	17	0.64@23.4	20*13*20	30*99	40
PX-BEC808	21	0.64@23.4	25*13*20	35*99	40
PX-BEC810	29	0.64@19.1	25*18*30	35*122	50
PX-BEC812	35	0.64@19.1	30*18*30	40*122	50
PX-BEC824	40	0.64@19.1	36*18*30	45*122	50
PX-BEC826	44	0.64@19.1	30*20*30	40*122	65
PX-BEC828	52	0.64@19.1	36*20*30	45*122	65
PX-BEC830	59	0.64@19.1	41*20*30	50*122	65
PX-BEC832	66	0.64@19.1	46*20*30	55*122	65

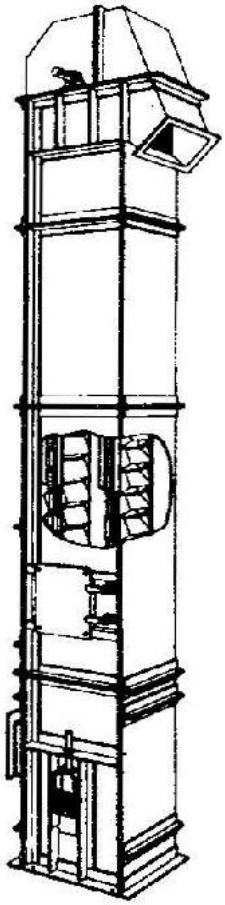
800 Series Belt Type Continuous Discharge Bucket Elevator Technical Data



- 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 MF medium front buckets are standard. Other styles such as HF high front or LF low front are available.
- Rubber and/or PVC belts are standard. Other belt 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 takeups with ball or roller bearings are standard.
- Internal and external gravity type takeups are available.
- Hopper type intake is standard.
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available on request.
- Optional Loading legs

Elevator number	Max Capacity	Speed	Bucket (L*W*Spacing)	Belt (width*min)	Casing dim's	Boot shaft
	m3/h	m/s@rpm	cm	cm*N/mm	cm	mm
PX-BEB866	17	0.64@24	20*20*13	23*263	35*99	40
PX-BEB868	21	0.64@24	25*20*13	28*263	40*99	40
PX-BEB870	29	0.64@20	30*30*18	28*263	40*122	50
PX-BEB872	35	0.64@20	30*30*18	33*350	45*122	50
PX-BEB874	40	0.64@20	36*30*18	38*350	50*122	50
PX-BEB876	44	0.64@20	30*30*20	33*350	45*122	65
PX-BEB878	52	0.64@20	36*30*20	38*350	50*122	65
PX-BEB880	59	0.64@20	41*30*20	43*350	55*122	65
PX-BEB882	66	0.64@20	46*30*20	48*350	60*122	65

1000 Series Chain Type Continuous Discharge Bucket Elevator Technical Data

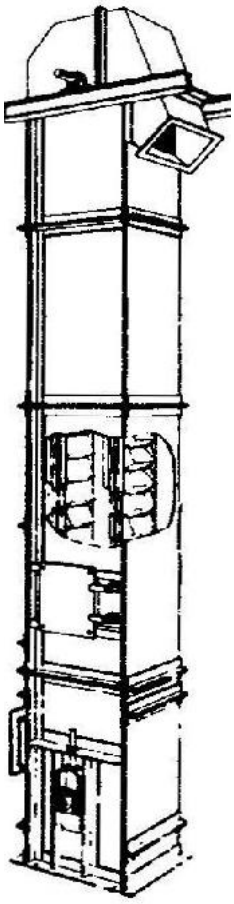


- Split removable hood for accessibility.
- Head shaft mounted in fixed ball or roller bearing pillow blocks. External backstops can be mounted directly to the head shaft.
- Discharge spout positioned for clean discharge of product. Style 1 shown. Style 2, with horizontal flange is optional.
- Rigid, strong dust and/or weather tight casings.
- Style SC super capacity continuous buckets are standard and are mounted between two strands of steel roller chain. Internal angles guide chain.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Removable bolted side panels are provided 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.
- Stub type intake with loading leg is standard. Hopper type inlets can be provided
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available to meet specific requirements.

Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m^3/h	m/s@rpm	cm	cm	mm
PX-BEC1001	68	0.51@12.5	30*22*30	66*137	65
PX-BEC1002	79	0.51@12.5	36*22*30	71*137	65
PX-BEC1003	91	0.51@12.5	41*22*30	76*137	65
PX-BEC1004	102	0.51@12.5	46*22*30	81*137	65
PX-BEC1005	113	0.51@12.5	51*22*30	86*137	65

1100 Series Chain Type Continuous Discharge Bucket Elevator Technical Data

- Split removable hood for accessibility.
- Head shaft mounted in fixed ball or roller bearing pillow blocks. External backstops can be mounted directly to the head shaft.
- 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 SC super capacity continuous buckets are standard and are mounted between two strands of steel roller chain. Internal angles guide chain.
- Bolted or hinged access doors are provided for installing and servicing the elevator buckets.
- Removable bolted side panels are provided 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.
- Stub type intake with loading leg is standard. Hopper type inlets can be provided
- Curved bottom plate.
- Shaft mount drive is standard. Other drives available to meet specific requirements.



Elevator number	Max Capacity	Speed	Buckets (L*W*Spacing)	Casing dim's	Boot shaft
	m^3/h	m/s@rpm	cm	cm	mm
PX-BEC1101	158	0.61@16	46*32*46	76*152	75
PX-BEC1102	192	0.61@16	46*32*46	86*152	75
PX-BEC1103	238	0.61@16	46*32*46	97*152	75
PX-BEC1104	283	0.61@16	46*32*46	112*152	75
PX-BEC1105	351	0.61@16	46*32*46	127*152	75

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