

Bucket elevator type D



Bucket elevators type D are designed for vertical conveying of grain, cereal seed, granulates, etc.

The standard elevators are made of galvanized steel. Elevators with lacquered surface or made of special steel are also available.

The industrial and solid construction and service friendliness guarantee long working life and problem-free operation. The elevator is available with inlet in both sides of the elevator base.

The elevators are available with heights up to 30 metres and capacities from 5 t/h to 360 t/h.

A stiffening plate is fitted where the pipes are connected. This ensures a good stiffening of the elevator pipes.

All the elevators are provided with an inspection door in the pipe section at the bottom.

Elevator head

- Parted hood for easy fitting and service.
- Exchangeable wear plate.
- Inspection opening at discharge.
- Drive with hollow shaft with worm reduction gear motor and torque support.

Elevator base

- Spindle tightening device for belt tightening.
- Slide for residual emptying.
- Air cleaning.

Elevator belt

- Antistatic, oil and grease proof rubber belt made of polyester.

Elevator buckets

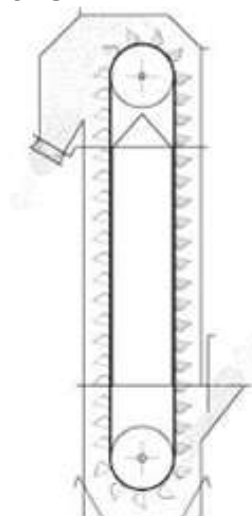
- The elevator buckets are available in iron or plastic.

Extra accessories

- Aspiration connection
- Speed controller
- Belt face controller
- Non-return device

BUCKET ELEVATOR DATA

Dimensions



Calculating power consumption

For a directly coupled gear motor, power consumption in kw is: $(K \times Y \times (H + 6)) / 347$, where:

K = capacity in tones per hour.

Y = 1.15 for grain and 1.25 for flour.

H = height in meters.

The maximum amount per bucket is reduced to 75% of the maximum number of buckets as for the conveyance of flour.

Please note that counter flow feeding will reduce the capacity by about 15%.

Specifications		D 133	D 200 I	D 200 II	D 260	D 390	D480
Max. capacity*	t/h	5/10/15	20/25/30	40/50/60	80/100/120	150/200	250/300/360
Max. capacity*	m /h	7/14/20	27/33/40	53/67/82	107/134/160	200/267	334/400/480
Buckets/m	pcs.	4.5/9/12.5	8.5/10.5/12.5	6.5/8/10	5.5/7/8	4.5/7	4.5/5/6
Bucket type	SPS	80-80	100-90	140-120	200-150	300-165A	370-215
Belt type**		EP500/4	EP500/4	EP630/4	EP630/4	EP630/4	EP630/4
Belt width	mm	100	120	160	215	330	440
Belt pulley	mm	Ř 300	Ř 325	Ř 325	Ř 415	Ř 515	Ř 615
Min/max speed	m/s	1.8/2.5	1.8/3.1	1.8/3.1	1.8/3.1	1.8/3.1	1.8/3.1
Max speed, flour	m/s	2.0	2.3	2.3	2.3	2.3	2.3
Motor	kW	1.1 - 3.0	2.2 - 5.5	2.2 - 7.5	5.5 - 15.0	7.5 - 30.0	15.0 - 45.0

* Capacities are based on a specific gravity of 0.75 t/m³ and 85% Z2 filling of buckets. ** All belt types are 1+1 GW.