



High-Speed Grain Centrifugal Discharge Bucket Elevators

Cost saving solution for grain and other free-flowing materials



Series 500 (Double Leg)

- Specifically designed to economically handle grain and other free-flowing materials weighing less than 60 pounds a bushel
- High-speed grain (HSG) elevators may be used in light-duty applications such as grain.

Martin offers a full line of high-speed centrifugal grain elevators in both single and double leg designs.

Martin offers a complete line of bucket elevators to efficiently handle a wide range of dry free flowing materials in a relatively small space with minimum horsepower. These bucket elevators include centrifugal discharge and continuous discharge with chain or belt mounted buckets. Our elevators can be supplied with either boot or head take-ups.

Martin has been designing and manufacturing bucket elevators for over 75 years with hundreds in service today.

We offer not only a complete line of standard elevators but can design and manufacture MTO elevators specific for a customer's application.

Materials

- Various materials of construction and thicknesses including carbon, stainless and galvanized steel

Drives

- Many types of drives are available and can be supplied
- High-speed grain elevators are normally supplied with shaft mounted reducers having internal backstops
- *Martin* recommends a backstop be installed on all bucket elevators.

Nonmetallic buckets

- Standard nylon buckets with many other options available

Required HP for Discharge Height			Part Number	CFH (W.L.)	FPM	Belt Width	Boot Dimensions		Inlet Height
50'	100'	150'					Depth	Width	
3	5	7.5	B64-508	697	265	7	8	0	30
5	7.5	10	B65-512B	1400	350	7	9	27	32
7.5	15	20	B95-518C	2812	440	10	12	34	39
15	20	25	B96-530	3991	510	10	15	48	48
20	30	40	B136-530	5864	510	14	18	48	48
30	50	75	B147-536	9900	600	15	21	56	56
40	75	100	B168-542	13798	620	17	23	68	72
60	100	125	B2108-548	19164	700	22	28	74	76
100	150	200	B2168-548	31681	700	34	40	74	76
150	250	300	B3168-548	47521	700	50	56	74	76
250	350	450	B4188-548	71190	700	74	80	74	76

Dimensions in inches

Components such as

- Sprockets
- Traction Wheels
- Pulleys
- Buckets
- Take-Ups Frames

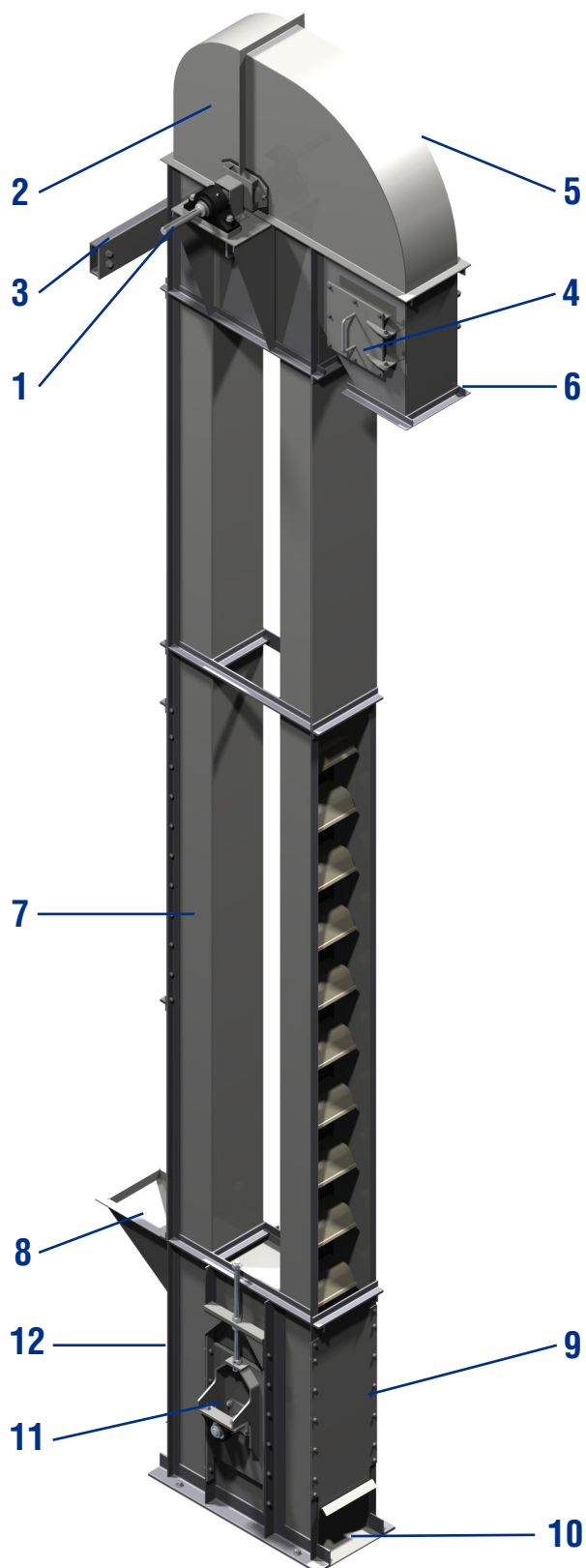
are manufactured by *Martin*

Learn more about *Martin* and Material Handling solutions at:
martinsprocket.com • 817.258.3000



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- 1. Shaft Mount Type Drive** (Not Shown on drawing)
Furnished as standard. Other types available.
Backstops are required to prevent reverse rotation.
- 2. High Speed Type Split Hood**
14 gauge.
- 3. Torque Arm Bracket**
Box Channel construction.
- 4. Inspection Doors**
One Side.
- 5. Head Section**
Fabricated of 10 gauge steel minimum, with bearing pedestals structurally reinforced.
- 6. Discharge Spout (Style 1)**
Fabricated of 10 gauge steel with externally adjustable 4-ply belting throat lip (not shown).
Style 2 (45°) available as well as wear liners.
- 7. Intermediate Section** (Not Shown on drawing)
Fixture welded 12 gauge casing continuously welded for dust tight and weather tight constriction.
Single casing intermediates are available.
- 8. Inlet**
Fabricated of 3/16" thick steel plate and wear liners are available.
- 9. Clean Out Door**
Bolted for easy removal.
- 10. Flat Bottom with Clean-Out Slides**
Reduces material build-up in boot.
- 11. Screw Type Ball Bearing Take-up**
Provides positive take-up tension and bell adjustment. Roller bearings are available as well as spring loaded style take-ups.
- 12. Boot Section**
Fabricated of 3/16" thick steel minimum.
- 13. Sway Bars**
Fabricated of structural angle and supplied on 30' intervals.

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