

Bucket Elevators

The B3 and C3 series of Universal Bucket Elevators offer smooth elevation of most free flowing materials and provide various capacities to meet most requirements. For fragile materials or for materials weighing more than 60 pounds per bushel, units with slower belt speeds are recommended. All standard units are provided in carbon steel (blue enamel) construction and are shipped "broken down". These elevators are designed for quick, on-the-job assembly for any installation.

Models with an "easy dump" (ED) are designed to dump the product onto the rear side of the preceding bucket to slow the product before it builds up any speed in its fall. This will greatly reduce the amount of damage that can occur with commodities that require gentler handling.

Selecting The Proper Model

These factors should be considered when choosing a bucket elevator

1. Capacity desired
2. Type of material (commodity)
3. Weight and characteristics of the material
4. Intake and discharge options required
5. Gentleness of handling required
6. Discharge height and overall height

Drive Packages for B3 and C3 Elevators (Motor Not Included)

#1 Drive PackageNo. DP1

Includes V-Belt, Sheaves, Bushings, Motor Mount and Dive Guards

#1 BackstopNo. BS1

The Factory Recommends the Use of a Backstop with Drive Package

#2 Drive PackageNo. DP2

Includes Shaft Mounted Gear Reducer, V-Belt, Sheaves, Bushings, Motor Mount and Drive Guard

#2 BackstopNo. BS2

The Factory Recommends the Use of a Backstop with Drive Package

#4 Drive PackageNo. DP4

Includes Shaft Mount Wormgear with 3HP, TEFC Motor (Specify Voltage)



Left to right: Model B3, Model C-3
shown with optional #4 drive package

Model	No. B3-75ED	No. B3-200	No. B3-300	No. C3-175ED	No. C3-500	No. C3-700
Capacity - Free	75 BPH	200 BPH	300 BPH	175 BPH	500 BPH	700BPH
Flowing Material @	94 CFH	250 CFH	375 CFH	220 CFH	630 CFH	875 CFH
75% Bucket Fill	2.7 CMH	7.0 CMH	10 CMH	6 CMH	17 CMH	24 CMH
TPH @ 50 lbs/ft3	2.25	6.25	9.25	5	15	21
TPH @ 75 lbs/ft3	3.5	9.3	14	8	23	32
Belt Speed	82–98 FPM	185 FPM	270 FPM	110–125 FPM	270 FPM	335 FPM
Headshaft RPM	70–90 RPM	170 RPM	250 RPM	85–95 RPM	200 RPM	245 RPM
Bucket Spacing	3¼"			4¼"		
Head Casing	14 Gauge			12 Gauge		
Headshaft Diameter	1⅜" Diameter			1⅜" Diameter to 60', 1⅞" Diameter Over 60'		
Headshaft Bearing	Ball Bearing Pillow Block					
Head Pulley	4¼" Diameter with Vulcanized Rubber Lagging			5¼" Diameter with Vulcanized Rubber Lagging		
Bucket	3¾" x 3" Plastic or 18 Gauge Steel			6" x 4" Plastic or 18 Gauge Steel		
Belting	4" Wide PVC, Rubber Optional			6½" Wide PVC, Rubber Optional		
Legging	16 Gauge Twin Box Columns					
Boot Casing	12 Gauge					
Bootshaft	1⅜" Diameter					
Bootshaft Bearing	1⅜" Two Bolt Flange					
Boot Pulley	Slatted, Selt Cleaning Style					
Construction	Carbon Steel (Galvanized, 304 Stainless Steel Optional)					
Drive Package	Optional					
Motor	Optional					