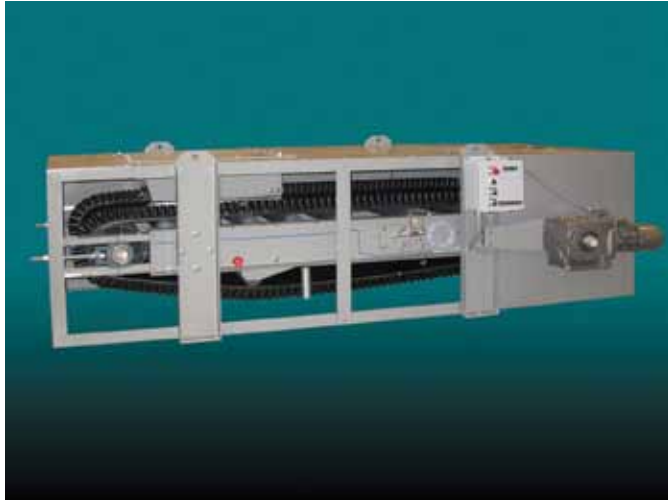


DMO Weighfeeder



- **Designed for weighing and feeding in challenging environments**
- **Feed rates up to 500 tons per hour**
- **Minimal maintenance. Manufactured with heavy-duty components**
- **Direct multiple cell weighing system without levers or counterbalance weights**

APPLICATIONS:

Primarily designed for shearing and wild-flow of bulk solids materials.

FEED RATES:

- Up to 500 tons per hour standard. Higher capacities available.

FEEDER ACCURACY:

- $\pm 1/2\%$ over a 10 to 1 range.

MATERIAL PARTICLE SIZE:

- Variable, fine powders up to 4" (102 mm) lumps.

TEMPERATURE LIMITS:

- 0 - 212° F (-18° - 100° C). Higher temperatures available dependent on material and other conditions.

BELT WIDTHS:

- 24" (610 mm) - 54" (1,372 mm) standard. Special designs up to 72" (1,829 mm) available.

BELT TYPES:

- Flat.
- 1" (25 mm) side gum-drop flange.
- 3" (76 mm) corrugated flange.
- 5" (127 mm) corrugated flange.

Other belt types available depending on material characteristics.

LOAD CELL:

- Schenck single point load cell, capacity: 66 lbs. (30 kgs.) - 661 lbs. (300 kgs.).

MOTOR:

- Normal range 1/2 hp - 3 hp, AC or DC, constant or variable speed.

ENCLOSURES:

- Dust enclosures and scavenger drag conveyors available.

ELECTRICAL POWER REQUIREMENTS:

- Instrumentation – 110/230 VAC.
- Power – 230/460 VAC.
- Special voltages can be accommodated.

FRAME:

- Heavy-duty rugged frame with CEMA C4 idlers directly mounted in the main stringer for permanent alignment.

CANTILEVERED CONSTRUCTION:

- Allows for the easy installation of a vulcanized endless belt.
- Heavy-duty cross-members allow support legs to be removed on one side.

DIRECT WEIGHING SYSTEM:

- Direct multiple cell weighing system without levers or counterbalance weights. Load cells are accessible for inspection.

GRAVITY TENSION MECHANISM:

- Stabilizes belt sag between idlers and assures constant correct tension and provides reliable drive traction.
- Automatic belt tracking system for increased centralization force and allows use of flat pulleys.

DIRECT DRIVE:

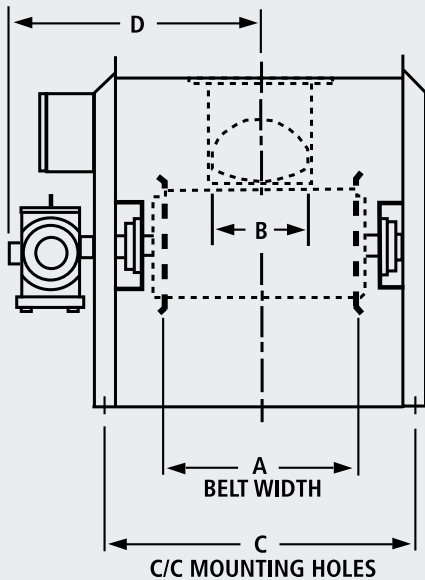
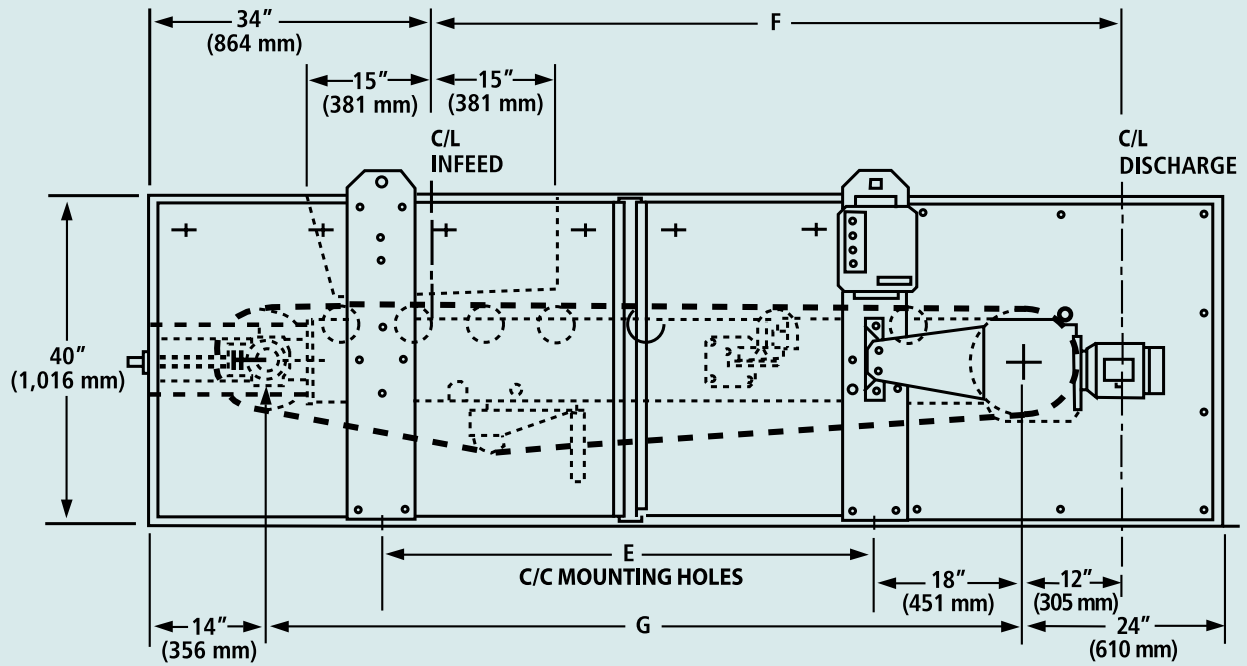
- Drive system with reducer and motor are all directly mounted on the head pulley shaft. This provides for rugged, reliable and safe operation while the need for alignments and maintenance is eliminated.

SHEAR GATE:

- Heavy 3/8" (9.5 mm) steel-plate provides a shaped material load profile positioned on the center of the belt.

DIGITAL SPEED SENSOR:

- Sensor is mounted between motor and reducer to provide high frequency and symmetrical speed signal.



Standard Dimensions

MODEL	BELT WIDTH SIZE						
	A	B	C	D	E	F	G*
DMO	24" (610 mm)	12" (305 mm)	38" (965 mm)	31" (787 mm)			
	30" (762 mm)	18" (457 mm)	44" (1,118 mm)	34" (864 mm)			
	36" (914 mm)	24" (610 mm)	50" (1,270 mm)	37" (940 mm)	60" (1,524 mm)	84" (2,134 mm)	92" (2,337 mm)
	42" (1,067 mm)	30" (762 mm)	56" (1,422 mm)	40" (1,016 mm)			
	48" (1,219 mm)	36" (914 mm)	62" (1,575 mm)	43" (1,092 mm)			
	54" (1,372 mm)	42" (1,067 mm)	68" (1,727 mm)	46" (1,168 mm)			

* DMO dimension G comes in 30" (762 mm) standard length increments starting from 92" (2,337 mm) through 242" (6,147 mm).

- 60" (1,524 mm) - 72" (1,829 mm) belt width also available.
- For more information on other standard dimensions, please contact our sales department.

Schenck Process

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