

Weighfeeders model TWM

- Highly accurate and reliable design
- AC Gearmotor
- Low profile design
- Fully enclosed option
- Dust tight version
- 1:20 control range (95% turn down)
- Self aligning and tensioning weighbelt



Application

Weighfeeders can be configured to continuously control the feed of material, measure a feed rate or batch a quantity of material into industrial process.

The sturdy, reliable design makes the TWM suitable for the use in the following industries:

- Quarry, Sand and Gravel
- Chemical
- Wheat and Grain
- Livestock feeds
- Mining and Minerals

Over volumetric feeding devices, the application of weighfeeders results in improved final product.

Construction

The standard weighfeeder package consists of:

- C section frame design, self supporting during belt change.
- Self tensioning (gravity take-up unit) and self aligning weighbelt.
- Inner and outer belt scrapers.
- Stainless Steel load cells mounted under the frame, away from material ingress.
- AC drive motor with control range 1:20 (95% turn down) without forced fan cooling.
- Calibration weight receptors for ease of calibration.

Optionally can include:

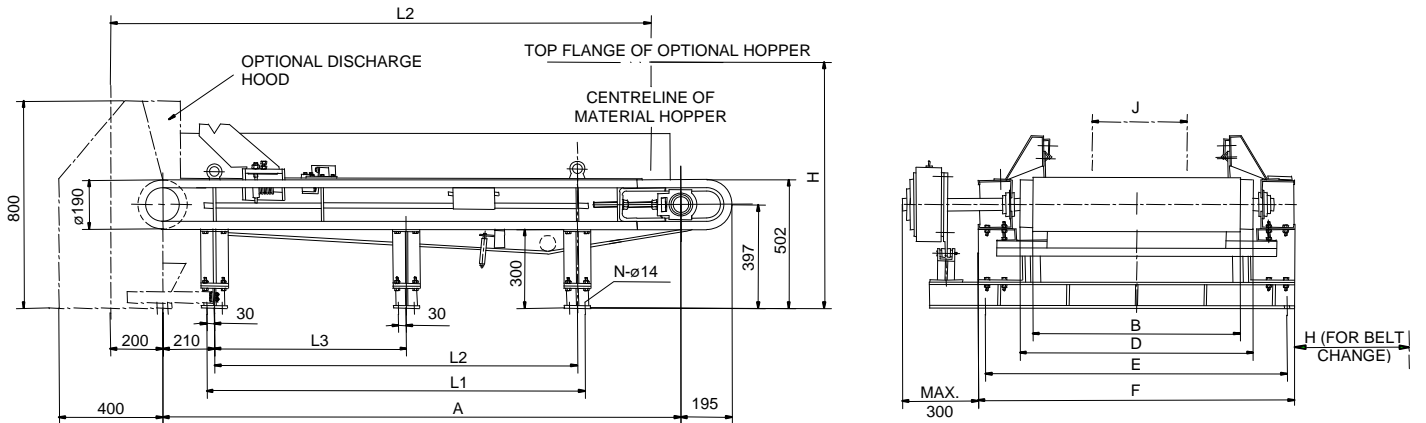
- Weigh belts with flexible sidewalls.
- Fully enclosed units.
- Dust tight units.
- Special frame configurations.

Operating Principle

The belt load (q , kg/m) is accurately measured via a single weigh idler mounted on two stainless steel load cells. The non drive side of the motor is fitted with a speed sensor which accurately measures the speed (v , m/s). These two signals are then connected to the controller which accurately evaluates the feedrate (I , kg/h). The controller then sends a closed loop control magnitude (Y , mA) to either direct coupled drive or the pre feeder.

The infeed hopper is configured to suit the specific material to be fed, including vibrating hoppers for wet/sticky material and dust settling chambers for fine materials prone to flushing.

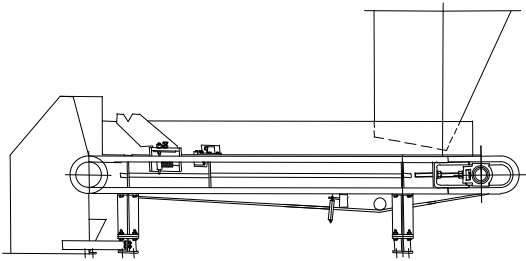
Standard Dimensions



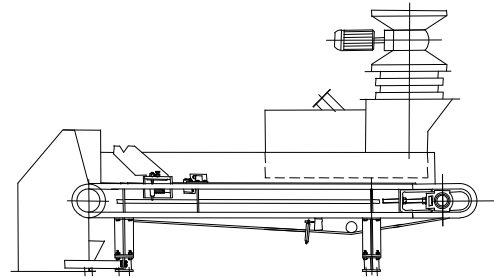
Axle Centres (Nominal)								Belt widths				
A	1300	2000	2700	3500	4000	4500	5000					
L1	760	1460	2160	2960	3460	3960	4460					
L2	700	1400	2100	2900	3400	3900	4400					
L3	N/A (two support legs)			1400	2100	2100	2100					
L4	1200	1900	2600	3400	3900	4400	4900					
N	8	8	8	12	12	12	16					
B								650	800	1000	1200	1400
D								800	950	1150	1350	1550
E								1010	1160	1360	1560	1760
F								1070	1220	1420	1620	1820
J								350	500	700	900	1100
H								850	1000	1200	1400	1600

Dimensions and specifications are subject to change without notice.

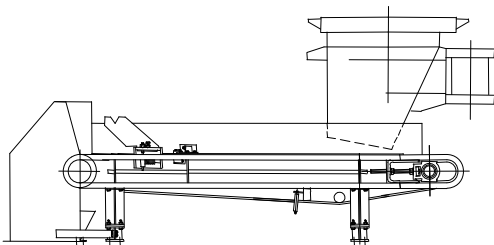
Material Feed Hopper Configurations



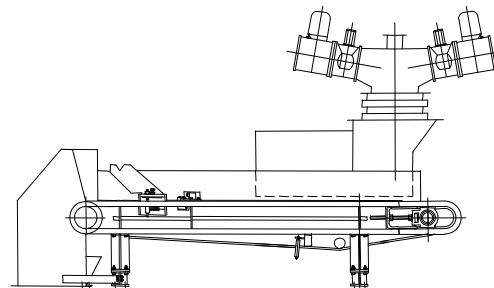
Discharge Hopper for free flowing materials



Star feeder with settling (dust control) chamber for fine powders, meal or dust



Vibrating Hopper for Wet/Sticky Materials



Flow Control Gate with settling chamber

