



Stainless steel version with integral cover and monitoring grid

Field of use

The MD mini weigh belt feeder performs bulk product continuous dosing operations.

This dosing infrastructure ensures simultaneously the extraction and the weighing of all gravity rolling products.

The MD has been especially designed for use in agro-industry, food industry and chemistry activity sectors.

This mini weigh belt feeder is fitted with an integrated weighing roll in the conveyor and a belt speed measuring device. These two devices enable precisely calculating the flow with a $\pm 0,25$ to 1% accuracy depending on the application and the behaviour of the product to be dosed. The flow range covered by the MD is 1 to 50m³/h.

The MD mini weigh belt feeder comes in two models:

- ▼ RAL 5012 painted steel
 - Primary: 60 μ m thickness
 - Secondary: 60 μ m thickness
- ▼ 304L or 316L stainless steel

Application

The MD mini weigh belt feeder is used within a continuous dosing process with a fixed or variable set point of dry granular product, that flows easily such as cereals, pellets, powders, rare earth, sand, various types of additives, etc.

It can be combined with other belt feeders to create formulations. In this case, the mini weigh belt feeder will be controlled by a direct set point or in proportion with a general speed.

This mini weigh belt feeder can be connected to our I400 WBF electronics system; see 04-32-83-1 FT document.

Compliance

- ▼ 2006/42/CE Machines Directive
- ▼ 2006/95/CE Low Tension Directive
- ▼ 2004/108/CE Electromagnetic Compatibility Directive

General description

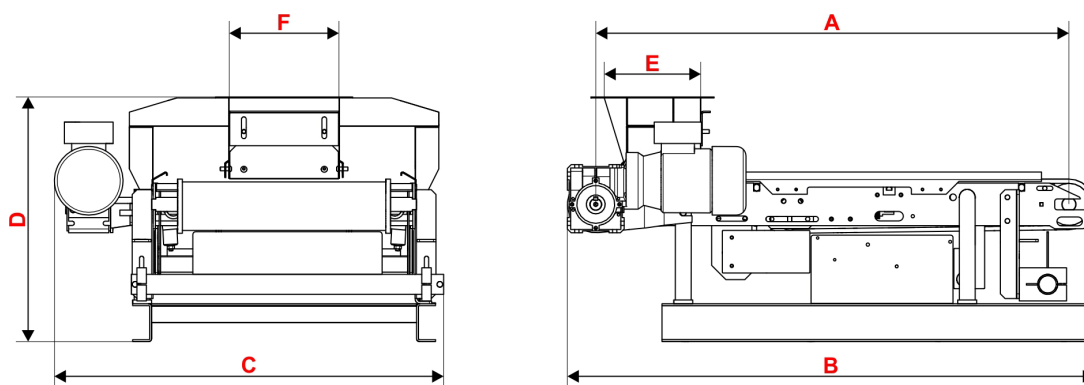
The MD mini weigh belt feeder is made up of the following parts:

- ▼ A rigid fabricated steel platform that supports the conveyor and the feed hopper.

The self-supported design of the framework helps easily replacing the belt opposite the geared motor. It can be set onto a metallic structure or suspended under a silo.
- ▼ A belt conveyor itself made up of:
 - a steel structure,
 - a rounded control drum,
 - a return drum with idle hubs,
 - ball bearing straight idlers,
 - a slider bed under product feed,
 - an automatic belt tension device,
 - a scraper below,
 - a guard iron on the belt return strand,
 - a geared motor unit with variable speed,
 - a weighing roll lying on two strain gauge load cells that perform continuous weight measurement,
 - a standard mass support that helps calibrating the belt feeder,
 - a smooth endless hot vulcanised PVC belt.

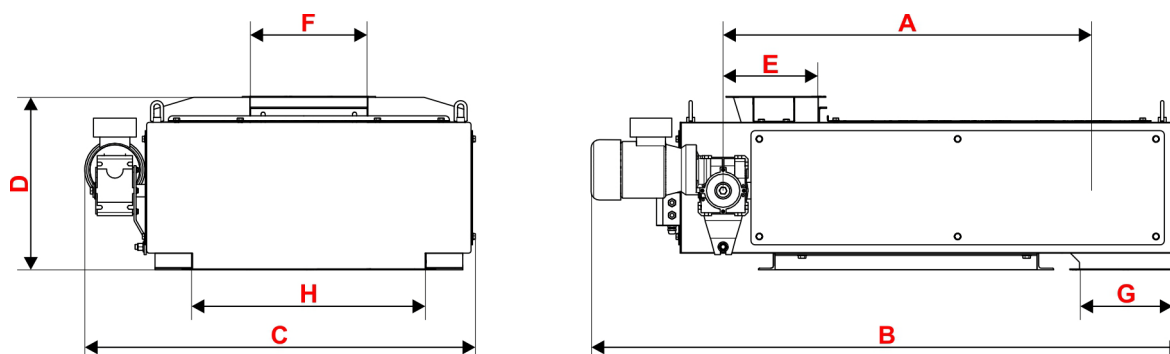
Dimensions and weight

Standard mini weigh belt feeder



Model	Belt width	A	B	C	D	E x F	Weight
MD 3	300 mm	885 mm	1 000 mm	700 mm	412 mm	200 x 140 mm	88 kg
MD 4	400 mm	885 mm	1 000 mm	800 mm	412 mm	200 x 200 mm	98 kg
MD 5	500 mm	885 mm	1 000 mm	900 mm	412 mm	200 x 280 mm	108 kg
MD 6	600 mm	885 mm	1 000 mm	1 050 mm	412 mm	200 x 400 mm	123 kg

Mini weigh belt feeder with integral cover



Model	Belt width	A	B	C	D	E x F	G x H	Weight
MD 3	300 mm	885 mm	1 422 mm	740 mm	414 mm	200 x 140 mm	220 x 360 mm	125 kg
MD 4	400 mm	885 mm	1 422 mm	840 mm	414 mm	200 x 200 mm	220 x 460 mm	140 kg
MD 5	500 mm	885 mm	1 422 mm	940 mm	414 mm	200 x 280 mm	220 x 560 mm	156 kg
MD 6	600 mm	885 mm	1 422 mm	1 090 mm	414 mm	200 x 400 mm	220 x 710 mm	182 kg

Options & Accessories

Structure

- Support stand platform in painted steel or stainless steel.
- Integral cover in painted steel or stainless steel with or without monitoring grid.

Mechanics options

- Product feeler in feed hopper output.
- Product side guides in painted steel or stainless steel.
- Belt sliding control.
- Belt offset detector.
- Belt with edges.
- Food grade belt.
- Specific RAL.

Electronics options

- Power cabinet with regulator and I 400 WBF electronics terminal.
- Local control cabinet with display.
- Forced ventilation.

Your specialist

Illustrations not contractual. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure at any time.

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