

Marel Flowscale

An approved, high-capacity belt weigher



- Capacity up to 100 tons per hour
- Weights & Measures approved
- Gentle handling of delicate products

High volume – soft handling

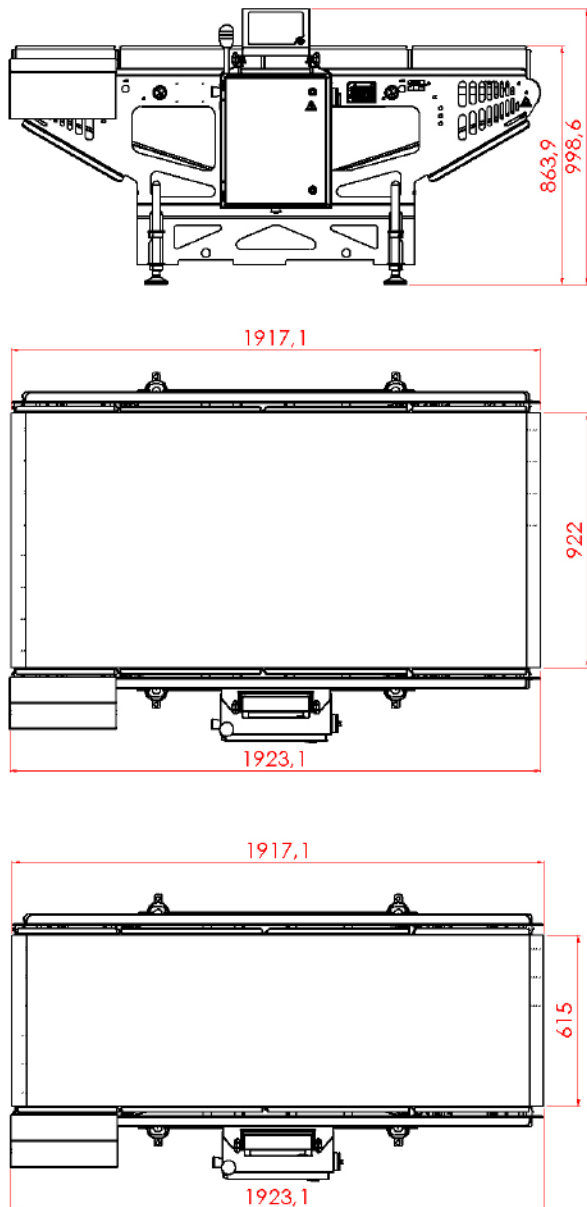
Total weight measurement

The Marel Flowscale is a compact, durable, high-capacity belt weigher used to weigh a continuous flow of material moving on a conveyor.

Accuracy

The Marel Flowscale is highly accurate. It is in the 0.5 weighing instrument accuracy class as defined by Weights & Measures (W&M) authorities.

Class 0.5 means that the scale is calibrated to an accuracy of +/- 0.25% and does not need to be recalibrated while accuracy remains within +/- 0.5%.



Repeatability when weighing batches of 300 kg at a low flow rate is typically better than +/- 0.1%. The flowscale can be used at a lower flow rate in non-approved applications.

Approvals

The Marel Flowscale is approved as a belt weigher of accuracy class 0.5. The Flowscale has EU, OIML and US NTEP approvals.

The minimum W&M approved flow rate is 20% of the maximum flow rate for the given speed. This is defined by the approval standards.

Versatility

The Marel Flowscale can be used to measure the total catch of fish coming from a fishing vessel into a processing factory, or to measure the total amount of food material in and out of a specific process.

The flowscale is self-contained and has a built-in conveyor belt. It is designed for the weighing of fish as well as other food industry applications, and has W&M approvals for use in commercial business. It has a hygienic and easy-cleaning design.

Capacity

The weighing capacity of the Marel Flowscale depends on the speed of the conveyor and on the material, since the material must fit the physical capacity of the conveyor.

Approved

Capacity	Flow range
100 tons/hr at 0.5 m/s	20 - 100 % of capacity
40 tons/hr at 0.2 m/s	20 - 100 % of capacity

Variants

Two models are available, both 1900 mm long:

- W615 with 615 mm wide belt
- W922 with 920 mm wide belt

The electrical cabinet can be placed on either side.

Accessories

- Height extension for both widths: 500 - 650 mm
- Drip pan for both widths
- Optional extra: electrical cabinet for infeed controlled by the flowscale

The Marel Flowscale ensures extremely soft handling of delicate food products at a high level of accuracy.



Specifications: M2200-B03-FB02

Weighing capacity	Flow rate up to 100 metric tons/hr at belt speed of 0.5 m/s (100 ft/min) Flow rate scales according to conveyor speed (discontinuous flow reduces weighing capacity)
Weighing accuracy	Class 0.5 weighing instrument: ±0.5% in-service accuracy ±0.25% when adjusted and tested
Ambient temperature	-5° to 30° C
Display and control	Weight indication on an LCD display with robust keyboard Display elements: master totaliser, resettable totaliser, flow rate indicator Keyboard used for start and stop, and menu system
Alibi memory	Built-in recording element (alibi memory) stores each weight recording in a persistent memory: date & time, master totaliser beginning and end values, quantity weighed, percentage weighed above and below the flow rate maximum and minimum
Approvals	EC Type Examination Certificate No.: DK 0199.361 OIML Certificate No.: R50/1997-DK3-12.01 US approval NTEP CC Certificate Number: 13-019
The FB02 conveyor belt	Belt length: 1917mm (74 1/2") Belt width: 615mm & 920mm (23 5/8" & 35 7/16") Belt height: 746.6 +180mm (29 6/16" + 7 1/16")
Conveyor speed	Fixed speed: 0.2 to 0.5 m/s (40 to 100 ft/min)
Communication	Ethernet TCP/IP dry contact One pulse per 10 kg – pulse length ca. 0.1 second
Protection	Mechanical overload protection, water protection according to IP69K & IP67 (NEMA 6 / PW12) Removable transport protection of sensitive parts
Construction materials	Food approved plastics and a rust resistant AISI 316 stainless steel
Installation	Installed between infeed and out-feed conveyors (running at same speed as the flowscale) Maximum drop-in height: 2-3 cm
Power	A nominal 208-230 VAC, max 5A, single phase mains Typical power: less than 200 W



Reliable data collection and reporting with Innova

Innova Food Processing Software empowers processors to monitor the flow of material in real time and ensure the reliable collection and reporting of data. Innova is both flexible and easy to use. It supports the receiving of raw material, or any other flow of material within processing facilities that operate the flowscale.

Each flow can be set up through the system based on customers, vessels and other specifications. Innova then generates information on the flow of material online or through printed reports.

The M2200 flowscale controller includes an Alibi memory storage that can be matched with the Innova reports for validation purposes and legal requirements.

With Innova, processors ensure consistent and reliable monitoring and reporting of the flow of material through the flowscale.



INNOVA
Food Processing Software



Marel is the leading global provider of advanced equipment and systems for the fish, meat and poultry industries.

With offices and subsidiaries in over 30 countries on six continents and a vast global network of agents and distributors, Marel's expertise in local markets and requirements helps it deliver the best processing innovation for its customers.

Our dedicated R&D teams ensure that we provide the latest technology for all stages of the processing value chain; ranging from single scales to integrated production lines and turnkey systems.