

# Industrial scales

Flexible weighing & monitoring



- Efficient packing and labeling
- Fast, accurate and flexible
- Water-resistant to IP67 & IP69K standards
- Robust and hygienic

# Marel industrial scales

Marel manufactures industrial scales that provide high levels of accuracy, durability, and ease of use. Marel's in-depth product knowledge makes it possible to develop individually integrated solutions that meet specific food processing demands.

## M1100 scale packing and grading

The M1100 scale is available in several versions, offering a weighing range of 1.5 kg to 3,000 kg, depending on the model chosen. At a compact 180x140x62 mm the M1100 indicator combines an impressive array of powerful features into a conveniently small amount of space.

### Responsive

Super fast, stable and reliable, M1100 scales are capable of accurately registering and recording weights in 0.5 – 1 sec. Designed for minimal maintenance, its calibration lasts for years.

### User-friendly

With its touch-sensitive yet tough, hardwearing keypad, its large LED display and under/overweight indicator, the M1100 is easy to operate. The M1100 comes with either metric (kg, g) or imperial (lbs, oz) weighing units, depending on the system required.

### Hygienic

Easy to clean, M1100 scales are custom designed to withstand the harsh conditions of a wash-down environment. Their compact AISI 316 stainless steel housing protects the high-tech electronics, ensuring IP67 & IP69K water-resistant standards.

### Flexible

The M1100 can be operated from 110-230 VAC, 24 VDC or D-type batteries. The battery version comes with two or four batteries which last for 80-200 hours.

### Smart applications

With 15 built-in packing memories and five grading memories, each with nine grades, the M1100 can add positive and reverse grading to its array of user applications.

### Robust construction

Built from high-end components, the long-lasting construction of the M1100 meets the strictest food processing industry standards. Sturdy and robust, the M1100 comes with improved overload and side-load protection.



M1100 scales are custom designed to withstand the harsh conditions of a wash-down environment.



## Bench scales

Marel industrial bench scales provide high levels of accuracy and durability because of the unique design and construction of the weighing platform.

The scales are designed especially for the food industry, and are built to withstand rough treatment, intense washing down, steam, hot water, most chemical foaming agents and high levels of humidity.

This makes it possible to avoid or minimize load cell damage or breakage due to the cleaning process. Marel scales are designed to handle most weighing jobs, and can be placed anywhere in a factory, from dry packing areas to very wet or humid areas.

## Features

- Construction is fully welded and all AISI 316 stainless steel (load cell and platform/frame)
- Waterproof – to IP67 or IP69K standards
- Overload stop on load cell for static load protection

PL2062



PL3020



PL2020



Platform no.	PL 2020	PL2062	PL 3020	PL 4020	PL 4026	PL 5020
Outer dimensions	246x296mm	292x242mm	296x396mm	400x550mm	400x600mm	500x600mm
WEIGHING RANGE (ACCURACY)						
1.5 - 3 kg (0.5 - 1 g)	x	x				
3 - 6 kg (1 - 2 g)	x	x				
6 - 15 kg (2 - 5 g)	x	x	x			
15 - 30 kg (5 - 10 g)			x		x	
30 - 60 kg (10 - 20 g)				x		x
60 - 150 kg (20 - 50 g)						x
150 - 300 kg (50 - 100 g)						x
M1100 MOUNT AND POWER						
Short pillar	x		x			
Long pillar	x		x	x	x	x
Wall mount	x		x	x	x	x
Portable		x				
Ethernet + mains	x	x	x	x	x	x
Ethernet + dc	x	x	x	x	x	x
Battery	x*	x*	x*	x*	x*	x*
M2200 MOUNT AND POWER						
Wall mount	x		x	x	x	x
Ethernet + Mains	x		x	x	x	x
Ethernet + dc	x		x	x	x	x

\*Excluding wall mount option.

**Sturdy and robust,  
the M1 100 comes with  
improved overload  
and side-load protection.**



## Floor scales

Marel's PL6000 trolley scale provides a compact, easy way of weighing products in a Vemag wagon. This compact scale takes up very little space and is built extra low (30 mm). This makes it easy to push even a heavy wagon onto the scale using a small access ramp.

The Marel PL7000 floor scale series is designed to handle most weighing jobs. The floor scales can be placed on the floor or installed in a pit.

The Marel PU8000 pallet scales provide a compact, flexible way of weighing products on a pallet. These compact pallet scales take up very little space, and are therefore easy to install and remove.

## Features

- Waterproof – to IP67 or IP69K standards
- Construction is fully welded (no points in which bacteria collect)
- All cables are inside the construction to avoid dirt traps and to make cleaning easy
- The 4 hermetically sealed (fully welded) stainless steel load cells have an IP67 protection rating
- Fully hoseable, enabling efficient, easy cleaning
- The base frame, load plate and access ramp are made of AISI 304 stainless steel
- Easy opening of the scales using a gas spring



PL6000



PL7000



PU8000

Platform no.	PL 6000	PL 6002	PL 7000	PL7005	PL 7010	PL 7015	PL 8000
Platform outer dimensions	600x850x30mm	900x1000x30mm	1250x1500mm	1250x1500mm	1500x1500mm	1500x1500mm	845x1245x95mm
Weighing range (accuracy)							
300 - 600 kg (100 - 200 g)	x	x					
600 - 1500 kg (200 - 500 g)			x	x	x	x	
1500 - 2000 kg (500 - 1000 g)							x
Type							
Pit version				x		x	
M1100 mount and power							
Wall mount	x	x	x	x	x	x	x
Ethernet + Mains	x	x	x	x	x	x	x
M2200 mount and power							
Wall mount	x	x	x	x	x	x	x
Ethernet + Mains	x	x	x	x	x	x	x
Ethernet + dc	x	x	x	x	x	x	x

## Marel industrial scales are made of tough, sturdy and dependable materials.

The Marel range of bench and floor scales can be combined with the comprehensive range of Marel weighing indicators and HMIs, printers, software and accessories to suit individual processing needs. Marel scales are suitable as stand-alone installations or part of a complete production management system.

### Unbeatable features

- All Marel scales are made of non corrosive steel to endure the harsh, wet environments of the food industry
- There are no visible welding seams, joints or crevices in which bacteria collect, which helps guarantee the highest levels of hygiene
- All scales are compact and sturdy, with a long service life
- The unique, high-quality construction ensures reliable, precise weighing results

# M2200 scale – flexible system

Marel's M2200 scale is a flexible and accurate weighing and packing scale built to last. Used for a variety of applications, the M2200 can control hoppers and conveyors as well as serve as a registration terminal. The robust, hygienic stainless steel design houses a powerful, high-speed scale that has been OIML approved.

### Built to endure

Designed for minimal maintenance, the M2200 is accurate, robust and highly stable. Suitable for use with a wide variety of weighing platforms or hoppers, the scale is custom designed to withstand the harsh conditions of a washdown environment. The M2200 is water-resistant to IP67 & IP69K standards, while its smooth, rounded edges and easy-to-clean surfaces are designed for maximum hygiene.

### User-friendly

With its touch-sensitive yet tough, hardwearing keypad, the M2200 is easy to operate. The M2200 comes with either metric (kg, g) or imperial (lbs, oz) weighing units, depending on the system required.

### Packing scale

Suitable for a variety of packing operations, the Marel M2200 is one of the fastest scales available. This robust weighing and packing scale is flexible and easy to use, with having touch-sensitive keys, a numeric keypad and a large backlit LCD display.

### Complete control

External devices can easily be connected to the M2200, which is capable of accommodating a range of printers, barcode readers and labeling equipment. Additionally, the M2200 can be integrated into computer networks connecting to Innova production management software.





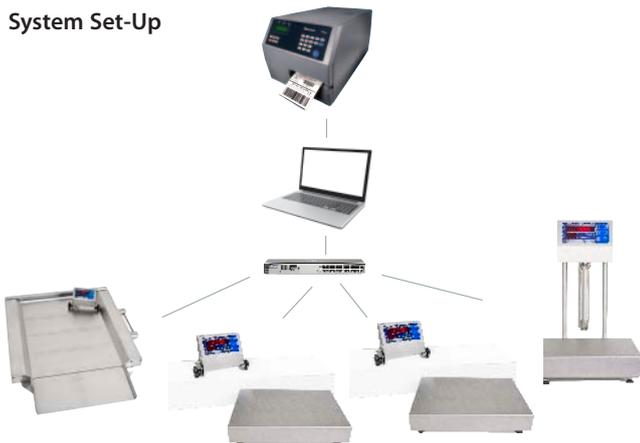
# Optimize your weighing processes

## Innova packing lite

Most food processing plants need software to produce barcode labels for boxes meant for external distribution. They demand that the barcode labels contain more and more information for traceability purposes.

Innova Packing Lite offers a cost-efficient software solution for weighing and labeling outer cases. Innova Packing Lite works with Marel M1100 and M2200 indicators and supports up to five packing stations. The system comes with pre-defined label designs. Several fast and reliable standard reports, including packing lists, packing over- and underweight and checkweighing are offered with Innova Packing Lite.

### System Set-Up



More packing stations can be added

## Innova packing

The Innova Packing system is an advanced packing and labeling solution with full inventory, order processing and palletizing capabilities.

Innova Packing supports the Marel range of scales and terminals, ranging from simple stand-alone scales where minimal operator input is required to advanced IPC terminals where the operator can manage orders and pallets and key in various product parameters. With Innova packing it is possible to design pack-, pallet- and order labels using a visual label designer and attach individual or composite database fields to label fields. The system also supports printing reports instead of labels when, for example, an order is completed.

The Innova Packing system includes advanced order processing capabilities meaning that a product can be packed to orders selected by the operator, or the system can automatically select an order based on order status and priority. Products not matching any orders can be recorded to inventory. All product parameters, including weight limits, pallet sizes, prices, expiry dates and label texts, can be overridden based on the selected order.

Packs can be assigned to pallets when they are recorded. Pallet information can be printed on pack labels, and pallet labels are automatically printed when the pallets are completed. Alternatively, pallets can be built afterwards by scanning individual pack labels. The system comes with a comprehensive set of pre-defined operations and additional ones can be customized and plugged in on-site.



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