

MULTIHEAD WEIGHERS

XP • XM



# Next MBP



MBP, part of the PFM Packaging Machinery Group, is specialised in the designing and manufacturing of multi-head and linear weighers and form-fill-seal type vertical packaging machines.

**Company mission: to study and offer new solutions in packaging, weighing and automation fields.**

MBP's continuous research and experience gained over the years has enabled it to apply state-of-the-art technology and utilise the most modern materials on its products, leading to improvements in terms of reliability and productivity of the machines it produces.

Being a part of the PFM industrial group has also led MBP to develop an integrated after-sales service system divided into: technical consultation, the study of individual solutions, design, continuous verification, and rapid availability of standard spare parts, which have enabled the company to develop and maintain contact with its customers, even after the initial purchase stage.



# Multihead Weighers



## • XP Series

Simple construction and ease of use: these are the distinctive features of the MBP XP series pneumatic multi-head weighers.

The opening and closing of the pre-dosing and weighing pans is performed by an efficient pneumatic system and the extremely simple design of the weigher guarantees high safety operating standards.

The hardware and software systems installed, which reflect the most advanced technology available on the market today, ensure a high degree of weighing accuracy and a high average production rate.

## • XM Series

Total freedom in programming the machine's functions.

The opening and closing of the pre-dosing and weighing pans is controlled by a step motor and so the opening/closing acceleration/deceleration ramp can be programmed according to the product and production rate required.

Each section, complete with pre-dosing and weighing pan and the corresponding mechanical and electronic components, is removable from the front and interchangeable.

The pans are fitted without a return spring.

The operator interface is a high-resolution touch screen panel, which uses easy-to-follow, guided programming software. The machines can be connected on-line for tele-servicing.

Possibility to access and download all the statistical production data.

### **Pneumatic 8-head weighers:**

up to 60 weighing operations per minute. Affordable, precise, reliable and easy to clean. Ideal for users who do not require high production speed, but who do need weighing precision.

### **10-head weighers:**

up to 90 weighing operations per minute. Available in the pneumatic or mechanical version with step motors, complete weigh-head control easily removable, featuring IP 65 protection level.

### **12-head weighers:**

up to 100 weighing operations per minute. Available in pneumatic or mechanical version with step motors, complete weigh-head control easily removable, featuring IP 65 protection level.

**16 heads:** designed for medium/high production rates. Available in the pneumatic and mechanical versions with step motors, with complete, direct extraction of the weighing sections, featuring IP 65 protection level.

### **14-head weighers:**

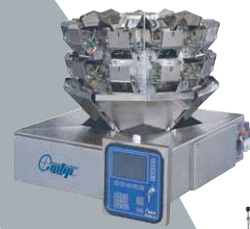
suitable for medium/high output. Ideal for weighing grated cheese and vegetables (Cut Salad). Available in the pneumatic or mechanical version with step motors, complete weigh-head control easily removable, featuring IP 65 protection level.

### **20 head weighers:**

for high production rates. Available in mechanical, pneumatic and IP 65 versions. Can be divided into 2-3 independent sections.

### **24 head weighers:**

for high production rates. Available in mechanical, pneumatic and IP 65 versions. Can be divided into 2-3-4 independent sections.



**8 heads**



**10 heads**



**12 heads**



**14 heads**



**16 heads**



**20 heads**



**24 heads**

# Complete RANGE

COMPLETE RANGE: from 8 to 24 weighing pans.

MBP's experience has led to the development of a large number of integrated systems with multi-head weighers, used for specific requirements. We mention just a few of these: product distribution systems for thermoforming machines or tray sealing machines, friction-prevention systems, noise-reduction systems, specific systems for frozen foods, specific systems for fruit and vegetable and for cheese products, systems for treating fragile products delicately. MBP supplies each industry with the highly specialised requirements it needs.

## > High Performance

HIGH PERFORMANCE: this is the main feature of MBP weighers. Highly accurate weighing, excellent average productivity, perfect vibrators and pans control. The automatic composition system and feedback control of production parameters, together with the solid, balanced mechanical structure of the machine allows for perfect control of weight and average productivity. means operating safety, high performance, total and accurate control, easy cleaning and a high level of reliability.

## > Hygienic

HYGIENIC: The pans and worktops connected to the vibrators are made of AISI 304 or AISI 316 stainless steel, they can be removed manually and are designed without sharp corners so that they can be cleaned thoroughly.

The XP-Step versions are protected against water ingress, can be washed with water and each individual sector can be extracted manually.

The vibrators are protected by an AISI 304 stainless steel hood, which can be removed.

## > Simple

SIMPLE: the XP-Pneumatic and XM-Step both feature simple construction design.

The XM-Step version has pull-out, interchangeable sections. The XP-Pneumatic version features a low number of installed components, each one optimised and rationalised to perform specific functions.

A wide touch screen panel with easy-to-follow, guided programming software simplifies production parameter entry operations.

They can also be connected on-line for tele-servicing and monitoring of all statistical production data as well as a check control of hardware and software functions:

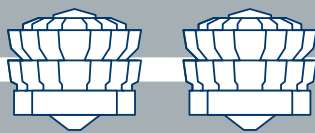
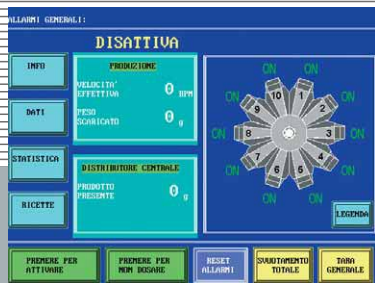
- Average weight
- Standard dimensions
- Number of under-weights/over-weights
- Waste
- Total quantity weighed
- Bar graph showing percentages of correct weights and corresponding levels of under-weights/over-weights



# Advanced Interactive Programming System

The easy-to-follow MBP programming system takes advantage of the excellent software technology interfaced by a high-resolution, colour touch screen panel.

The main production data (set weight, production speed, tolerances) is highlighted on the home page. During the programming stage, the operator is guided through the introduction of all the necessary parameters. Two complementary, selectable feedback systems optimise the data set according to the maximum average production rate possible and maximum weighing accuracy. All the statistical data can be printed out or downloaded onto a PC. The machines can also be connected on-line to carry out tele-servicing. Expert MBP staff can help the operator on-line during the programming stage and provide remote guidance.



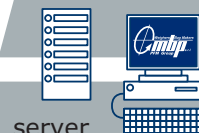
weighers



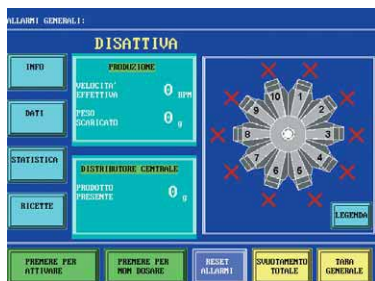
client server



web



server PC

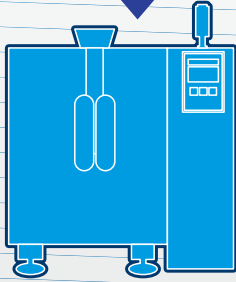


Remote control and maintenance over the network.

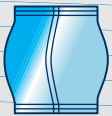
- > Remote control using LAN
- > Remote updating of software
- > Connection to printer using LAN



# PRODUCTION



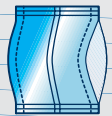
VERTICAL FORM FILL SEAL MACHINES



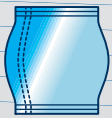
standard pillow bag



pillow bag (with euro hole punch)



pillow bag with gusset



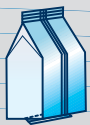
pillow bag with off set vertical seal



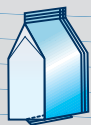
standard pillow bag (zip cross web material)



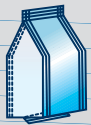
pillow bag with euro hole punch (zip cross web material)



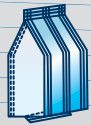
block bottom bag



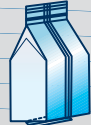
block bottom bag with off set vertical seal



block bottom bag with four vertical seals



block bottom bag with 4 vertical seals



block bottom bag with cross web zip



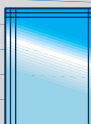
block bottom bag with off set vertical seal and cross web zip



block bottom bag with 4 vertical seals and cross web zip



block bottom bag with off-set 4 vertical seals and cross web zip



3 side seals bag



3 side seals stand-up bag



3 side seals bag with zip in line



3 side seals bag (with euro hole punch on vertical sealing bar)



3 side seals bag with euro hole punch on vertical sealing bar and zip in line



3 side seals bag stand-up (with euro hole punch on vertical sealing bar)



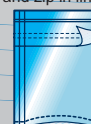
3 side seals stand-up bag with zip in line



3 side seals stand-up bag with euro hole punch on vertical sealing bar and zip in line



flat bag (recloseable)



stand-up bag (recloseable)



flat bag (recloseable) with euro hole punch from two films



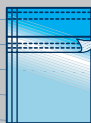
stand-up bag (recloseable) with euro hole punch from two films



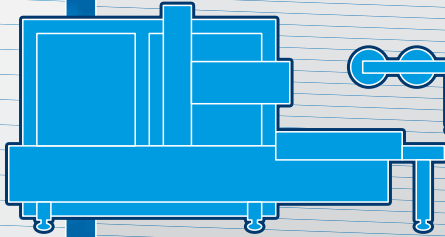
flat bag (recloseable) with euro hole punch - from one film (for dry and heavy products only)



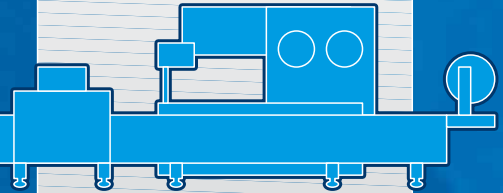
stand-up bag (recloseable) with euro hole punch - from one film - (for dry and heavy products only)



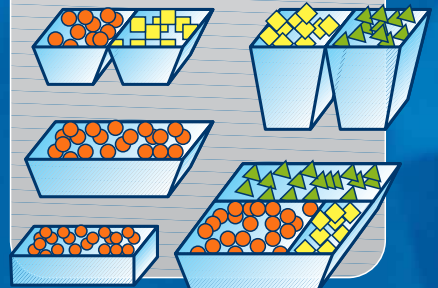
tob pillow bag (recloseable)



CONTAINER PRODUCING MACHINES



HEAT SEALING MACHINES



The multi-head weighers can be used to fill:

- Flowpack packs (vertical form fill seal machines)
- Trays (thermoforming machines)
- Pre-formed trays or cups (heat sealing machines)
- Containers (container producing machines, vertical cartoners)

These machines can also be used for packaging product mixes (up to now four distinct types).

# Industries in which the machines are applied



Multi-head weighing systems are essential where packaging and production require: flexibility, speed, safety, minimum maintenance.

The advantages produced by a multi-head weigher can be summarised as:

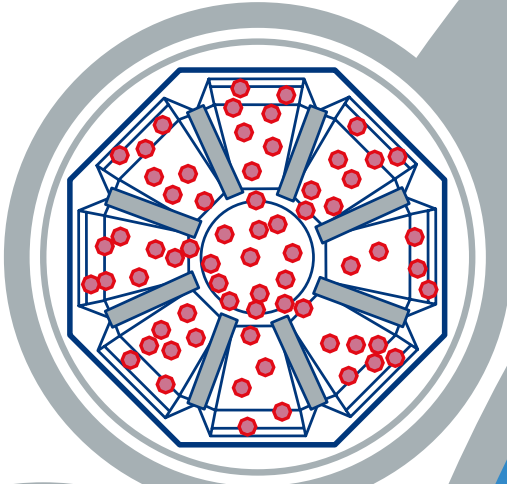
- High overall line speed
- Reduced number of broken products
- High degree of weighing accuracy
- High degree of operating flexibility
- May be used along with existing lines
- Maximum hygiene due to easy sanitation as it is constructed in stainless steel AISI 304 with rounded corners, which protect against water ingress
- Reduction in overall cost of line

Typical applications are:

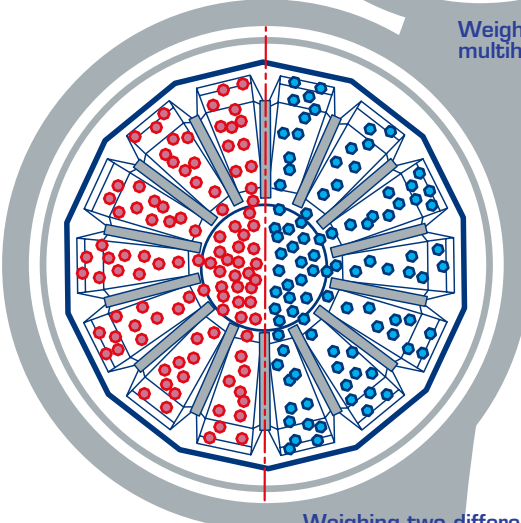
- Sweets (sweets, bubble gum, toffees, candies)
- Snacks (extruded and cut crisps)
- Bakery products (including fragile biscuits)
- Chips
- Mozzarella cheese
- Cheese (finely grated, shredded or cubed)
- Fruit and vegetables (lettuce, radicchio, carrots, potatoes, beetroots, etc.)
- Short cut pasta
- Dried fruit and nuts
- Corn flakes
- Rice
- Spices
- Granular products
- Sticky products
- Fragile products
- Frozen mince meat
- Seafood, mixed fish selection



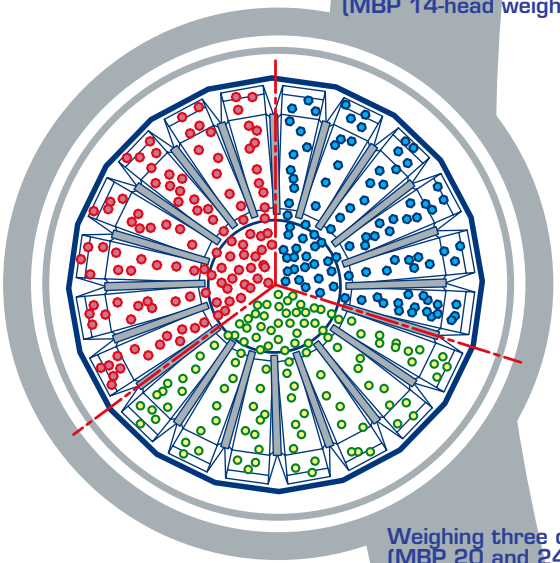




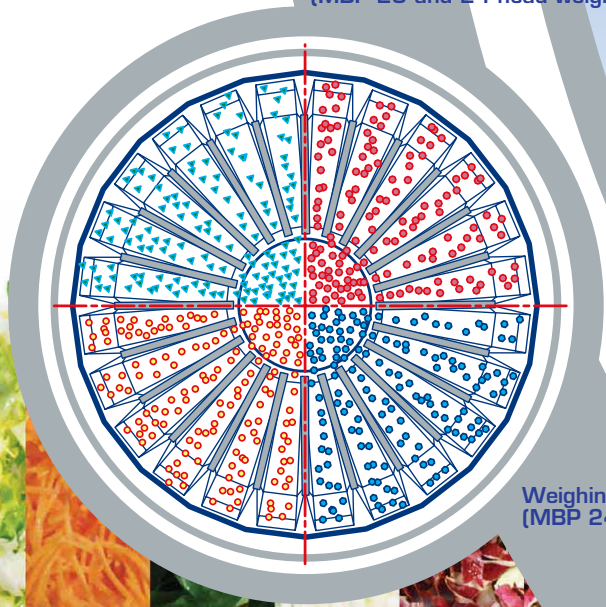
Weighing the same products (MBP multihead weighers, whole range)



Weighing two different products (MBP 14-head weighers)



Weighing three different products (MBP 20 and 24 head weighers)



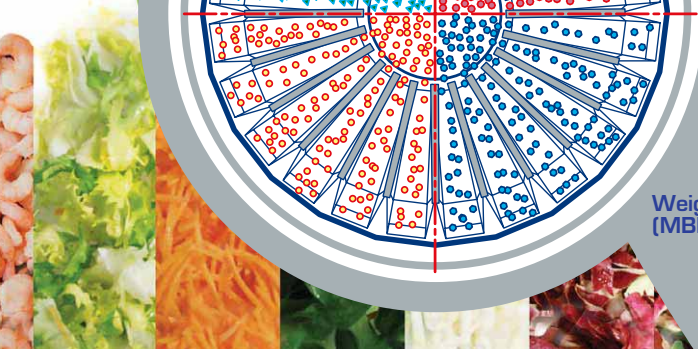
Weighing four different products (MBP 24-head weighers)



# Multi Product Capability

The 14 and 16 head models can be divided into two independent sections. The 20-24 head models can be divided respectively into 2-3 and 4 sections.

The MBP hardware and software systems enable each section to be run independently both in terms of weight and type of product.



	No. of pans	Version	Max weighing capacity	Speed (p/m)	Pan width	Volume	
SM/8-XP	8	Pneumatic	2500 gr	50	140-160 mm	2,5-3 litres	
SM/10-XM Step	10	Step Motor	2500 gr	80	140-160 mm	2,5-3 litres	
SM/10-XP	10	Pneumatic	2500 gr	80	140-160 mm	2,5-3 litres	
SM/12-XM Step	12	Step Motor	2500 gr	90	140-160 mm	2,5-3 litres	
SM/12-XP	12	Pneumatic	2500 gr	90	140-160 mm	2,5-3 litres	
SM/14-XM Step	14	Step Motor	2500/5000 gr	110	120-140-215 mm	2-2,5-5,5 litres	Twin
SM/14-XP	14	Pneumatic	2500/5000 gr	110	120-140-215 mm	2-2,5-5,5 litres	Twin
SM/16-XM Step	16	Step Motor	2500	120	120 mm	2 litres	Twin
SM/16-XM	16	Pneumatic	2500	120	120 mm	2 litres	Twin
SM/20-XM Step	20	Step Motor	2500	140	120 mm	2 litres	Div 2-3 scts
SM/20-XP	20	Pneumatic	2500	140	120 mm	2 litres	Div. 2-3 scts
SM/24-XM-Step	24	Step Motor	2500	180-200	120 mm	2 litres	Div. 2-3-4 scts
SM/24-XP	24	Pneumatic	2500	180-200	120 mm	2 litres	Div. 2-3-4 scts

Accessories: modem for on-line connection, printer, PC connection system.



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