Packaging Machinery

ZC1 Integrated Solution

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The ZC1 integrated solution optimises the weigher-packaging machine combination by making the most of the Series C1 multi-head weigher and the model Zenith vertical packaging machine, which produces pillow packs with three seals and square bases or Steelo Packs (4 side seals).
The ZC1 offers high quality standards which translate into high weighing accuracy, aesthetically perfect packs with easy maintenance, programming and operating safety over time.

Structure: compact, designed to house the 10 and 14-head versions of the Series C1 multi-head weigher. The particularly rigid structure is designed to eliminate vibration and thereby optimise operation of the multi-head weigher.

Hygiene: the ZC1 has been studied in every detail to facilitate cleaning and sanitisation operations.

Flexibility: the ZC1 enables quick and easy format changeovers.
The weigher's software features enable the machine to learn its own parameters thereby reducing intervention time by the operator who only needs to enter data relating to weight and speed.
Extremely short packaging machine forming box and reel replacement times. The particularly advanced software guides the operator through the entering of required data.

Packaging Snacks and Dry Foods

ZC1 Integrated Solution
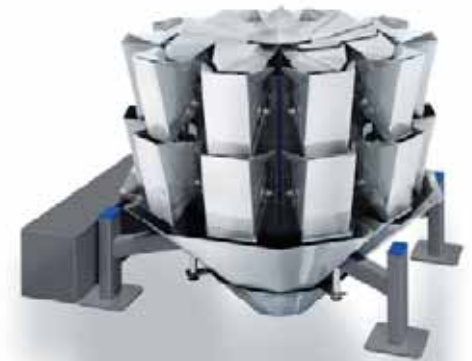
ZC1 Versions
- With Series C1 10 or 14-head multihead weigher.
- Pneumatic.
- Extra Wide (700 mm wide film reel).
- 2-axis Servo with brushless motors.
- 30° tilted versions for fragile products.
- 4-seal stand-up Steelo bags.

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Packaging Machinery

MBP Multihead Weigher C1

Packaging Machinery

Mechanical Features
• Stainless steel tubular frame construction. Single electrical control
  panel constructed in painted steel with IP61 protection rating.
• Central vibrating cone with load cell.
• Vibrating channels constructed from stainless steel.
• Extractable interchangeable dosing head.
• Protective top constructed from stainless steel.
• Pre-dosing end weighing pans made of AISI 304 stainless steel.

Operations
The operator enters the parameters for weight and corresponding
limits, production speed and central plate parameters. The weigher
automatically regulates:
• Individual amplitude and optimum vibration time of lateral
vibrating channels.
• Diversification of weight between the buckets.
• Optimum number of buckets involved in the drop.
• Environmental vibration annulment function is always activated
and adjustable.
The weigher adapts to the product and working environment in
real time. After being learnt, the machine data is systematically
memorised in the specific recipe.

MBP multihead weigher 10-C1

MBP multihead weigher 14-C1

PFM Zenith

Packaging Machine Features
• Structure "Hermetic Box" type steel frame protected against the
  infiltration of dust.
• Control of functions through PLC (latest generation microprocessor).
• Drawing of wrapping material by self-centring "pulling belts" with
  pneumatic opening.
• Control of packaging length using photocell system with print
  registration system.
• Sealing jaws constructed steel with limited size variation.
• Easily interchangeable forming box.
• Self-centring reel-holder shaft.

MBP multihead weigher C1 control panel touch
screen.

MBP Multihead Weigher C1

Software/Hardware Features

Highly developed programming features for eas of operation:

• **AVC System** (Automatic Vibration Control). Automatically adjusts the best operating sequence in terms of amplitude and vibration time so that the exact quantity of product requested by the system is dropped into the Pre-dosing buckets.

• **ARC System** (Automatic Random Control). The weigher automatically identifies how best to control the differences in weight between the individual buckets in order to facilitate the search for the best drop combination and as a result optimise the speed/accuracy ratio.

• **ADC System** (Automatic Drop Control) automatically (or manually) regulates the number of buckets involved in the drop. This function is associated with the ARC function.

• **EVA System** (Environment Vibration Annulment) eliminates low-frequency environmental vibrations.

• The **AVC, ARC, ADC** and **EVA Systems** work together simultaneously. These are highly developed software systems able to simplify machine programming to the maximum. They react in real time to changes in the conditions of the environment and/or product.

• **DSC System** enables consecutive opening of the buckets for the same drop to avoid obstruction in the forming tube.

• **Production statistics** complete with all necessary data.

• Can be connected to **Ethernet** to view, download and print statistical data, send/receive recipes and software or for teleservice via Internet.

• Front **USB memory stick** to memorise upload/download software, recipes, upgrades.

• **Can-Open** type hardware configuration.

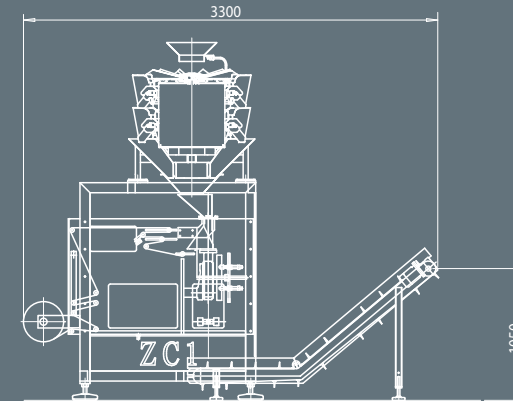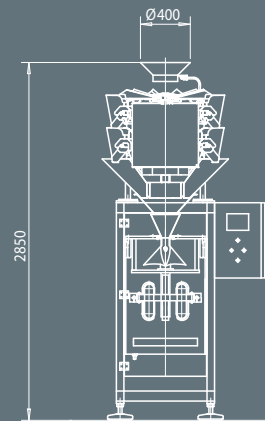• Active matrix colour **touch screen** type display, 8" industrial PC.
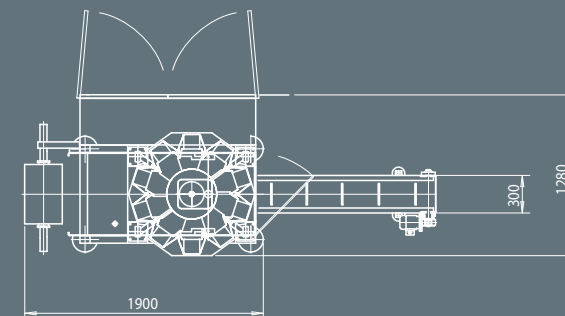
Forming box detail.

Examples of packaged products.

Packaging Machinery

Technical Data

Model:	ZC1	ZC1 Servo	ZC1 EW	ZC1 EW Servo
Reel width:	500 mm	500 mm	700 mm	700 mm
Crimper Width:	250 mm	250 mm	350 mm	350 mm
Production speed:	60 ppm	80 ppm	40 ppm	80 ppm
Flat bag dimensions:	L 230 - H 300 mm	L 230 - H 300 mm	L 330 - H 400 mm	L 330 - H 400 mm
Max volume:	4 lt.	4 lt.	8 lt.	8 lt.
Structure:	painted	painted	painted	painted
PLC:	Siemens	Siemens	Siemens	Siemens
Function:	Pneumatic	2 axis Brushless	Pneumatic	2 axis Brushless
Steelo Bag version:	-	-	●	●
30° tilted version:	●	●	●	●

Machine Layout

PFM Group: a Network of Packaging Solutions

PFM Packaging Machinery is an industrial group made up of nine companies: the Italian parent company, **PFM Packaging Machinery**, which works alongside the **UK PFM LTD**, Canadian **PFM Corporation USA & Canada**, and German **PFM Germany** companies. **BG Pack SPA**, which is based in Bergamo, specialising in the manufacture of special packaging machines for recloseable packs. **MBP**, based in Mantua, specialise in the production of multi-head weighers and vertical packaging machines thereby completing the range offered by **PFM**. Last in order of acquisition is **SPS Italiana Pack Systems**, which has come back into the hands of those who founded the company after exchanging ownership a number of times: this Company from Novara manufacture automatic handling and packaging machines for baked goods and biscuits, chocolate bars and wafers. In 2006 **PFmeccanica** was founded to form a new production centre for mechanical components. In November 2007 **PFM Russia** was founded, the new commercial and logistic base for the Eastern European markets. An extremely high level of specialisation of the individual manufacturing units, perfect integration between the individual technical departments, which also remain independent, Vision 2000 organisation of marketing and after-sales areas, are a few of the factors which have helped the Group achieve major results: 280 employees and a turnover of 64 million Euros in 2007. The **PFM Group** meets all the requirements of flexible packaging in all the food and non food industries and has made a major name for itself on the world market.

PFMGroup
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