

Automatic weighing system

The second generation

Founded in 1970, Lauer is an Italian company specialized in industrial weighing systems. It has developed advanced technologies and know-how in the automatic weighing of powder products as pigments, additives, and

chemicals, as well as single or multi-weighing systems, and equipment for the preparation of compounds and masterbatch, handling and packaging systems. Products, solutions and services from Lauer are destined to technical rubber products, tire, and masterbatch industries.

In response to customers' needs to improve quality and reduce costs in their production, the company launched the second generation of the fully automatic Supersincro weighing system for coloured masterbatch. Supersincro consists in a horizontal automatic weighing system customised according to the different materials stored in silos, hoppers, big-bags, and interchangeable silos and weighed in a variable size bag produced automatically.

Compared to the first generation, Supersincro V2 is characterised by:

- higher productivity, up to one bag every 30 seconds;
- higher accuracy, up to a tolerance of ± 0.1 g;
- higher repeatability, CPK over 1.67;
- higher OEE (Overall Equipment Effectiveness);
- higher flexibility and modularity, thanks to the possibility to customise the configuration and the different sizes of bags; - less labor;
- environment respect, thank to the latest version of components that reduces equipment consumption and footprint;
- lower consumptions, which, using the latest generation of servo motors, are up to 30% lower. ■



At Plast 2023, Lauer proposes the new generation of the Supersincro automatic weighing system.

Plastiblow proposal for Plast

Energy-efficient electric multi-layer extrusion-blow moulding

The PB15ES all-electric blow moulding machine exhibited by Plastiblow at Plast 2023 is now more robust, reliable, and powerful thanks to the recent upgrade of the carriage clamping system on linear guides. The machine is available in both single and double carriage versions, with strokes ranging from 480 to 800 mm and a mould clamping force of 15 tonnes,

allowing very flexible production.

In particular, the Coex3 model with three extruders and a single carriage presented at the show has a 700-mm stroke and a double head for producing 4-litre bottles with handles in a two-cavity mould. The machine, which is also equipped with a scraps recovery line with a volumetric system for dosing and feeding the resins to the three extruders, is intended for a producer of bottles ranging from 55 ml to 2 litres for various sectors such as chemicals, food, cosmetics, oil etc.

Plastiblow develops electric machines for low energy consumption extrusion-blow moulding, capable of co-extruding up to seven layers and using recycled material to produce "green" containers, where the recycled material of the inner layer does not come into contact with the contents because it is between

the two outer layers of virgin material, and where the aesthetic aspect is not compromised. The thickness of the inner layer of recycled plastic represents 60-70% of the total, while the inner and outer layers of virgin material, usually high-density polyethylene, represent around 10-20%.

The decision to exhibit an all-electric co-extrusion multilayer line, which allows the use of recycled plastic in the bottle intermediate layer with minimal energy consumption, confirms the manufacturer commitment to developing processes that conserve resources, limit waste, and reduce environmental impact. Indeed, the reduction of energy consumption, maintenance costs and environmental impact, as well as the implementation of control systems for the remote diagnosis of processes from an Industry 4.0 perspective, characterize the development of all Plastiblow blow moulding machines. ■



The PB15ES Coex3 model exhibited by Plastiblow at Plast 2023.