

LIAD

Weighing and Control Systems Ltd.



BatchSave Gravimetric Batch Blender

www.liad.co.il

BatchSave

LIAD's BatchSave is a compact, effective, and very reliable gravimetric batch blender, and provides extremely accurate and optimal blends. It is easy to use and works perfectly with injection molding, extrusion or blow molding machines.

How it works

Each material is fed separately into a weighing hopper, and the amounts are constantly checked by the controller against the predefined values. The weighed material is then dispensed into the mixing chamber, which delivers a homogenous blend.

Advantages:

- Up to 6 materials (4 materials with pneumatic valve and 2 materials with screw feeding)
- Up to 600 Kg/h
- Up to 5.5 kg batch
- Up to 99 recipes



Material hoppers

The BatchSave can incorporate up to 4 hoppers for main materials using free fall feeding via pneumatic valve, and up to 2 hoppers for additives via screw feeding. All material hoppers include outlets for easy emptying and fast material changes, and transparent windows to allow visual inspection.



Weighing hopper

Using a single load cell, the weighing hopper is designed to guarantee exceptionally high accuracy of $\pm 0.1\%$. The hopper is fully removable and allows simple maintenance and cleaning.



Mixer

The unique design of the effective mixer has no stagnation areas, assuring superior and homogeneous blending. The mixer can be fully removable without pellet leakage for simple and quick cleanout.

BatchSave

Construction

The modular construction guarantees high flexibility, enabling selection of the desired number of components. The BatchSave has been designed so that it can be simply installed directly on the processing machine or on a special stand to feed one or more machines.

A wide transparent door enables access to all parts as well as visual inspection of the system's operation. A safety micro switch prevents operation if the door is open.

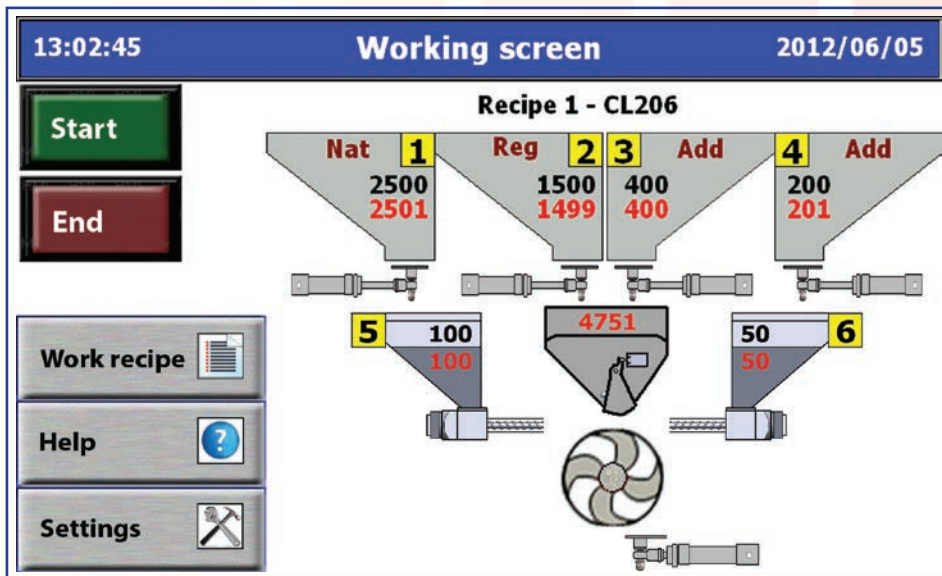
Control

The sophisticated PLC controller monitors the overall operation of the system.

Every batch is followed by an automatic recalibration and error correction if necessary, assuring extreme accuracy of the blending process.

The user-friendly touch screen facilitates easy setting, operation, and monitoring.

The controller is compatible with MODBUS over TCP/IP communication, and can seamlessly interface with LIAD-View monitoring PC software.



Options

- Loading control, integrated with central vacuum system
- Venturi loaders support
- Floor stand to feed one or more machines
- Mixed material bin with pneumatic slide gate discharge
- Level sensors for the material hoppers

Technical Data

- Power supply: 3x380V, 50 Hz
- Air consumption: 0.3 m³/hr
- Air pressure: 6 bar
- Dimensions: L=1368 x W=747 x H=1218 mm
(with 6 material hoppers, without floor stand or hopper loaders)



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