

# Offline Dosing Unit

## MCBalance Expansion

The MCS Offline Dosing Unit is an expansion of the MCBalance Gravimetric Dosing Unit, meticulously designed to cater primarily to the medical clean-room market.

What makes this Dosing Unit different from the rest, is that it is mounted away from the production process, but still delivers the expected precision while eliminating the high-risk tasks associated with working on top of injection moulding machines or extruders. This not only ensures greater accuracy but also reduces the influence of vibrations on the dosing process, enhancing overall operational efficiency and safety.

The Off-line dosing add-on simplifies the dosing process by bringing it to ground level and transporting the dosed material through a hose to the material inlet.

### Features

- ▶ Minimise high risk work on top of the production machine
- ▶ Perform material changes with ease on ground level
- ▶ Ideal for heavy vibrating production machines
- ▶ Save time on maintenance
- ▶ Transport capacity up to 32 kg/h
- ▶ Configurable with a 6, 12 or 15L Hopper
- ▶ Positioned on a movable trolley or frame

### Capacity

- ▶ Transport capacity up to 32 kg/h
- ▶ Transport height up to 5 meters
- ▶ Transport length up to 10 meters

### Accuracy

- ▶ Up to 0,02% - with automatic material calibration

### Process

- ▶ Injection molding, Extrusion, Blow moulding, Compounding

### Configuration

- ▶ Configurable with a 6, 12 or 15L hopper
- ▶ Positioned on a movable trolley
- ▶ Configurable with 1-3 MDS Balances
- ▶ Part of the Movacolor modular dosing concept

### Communication

- ▶ Modbus TCP/IP, Profibus, Profinet, OPC/UA
- ▶ Integrated hopper loader control
- ▶ Alarm, Warning, Run
- ▶ 2x0-10 VDC or 4-20 mA Potential free
- ▶ 24VDC or extruder tacho (0-30VDC)

### Operation

- ▶ 8" full colour touch screen controller
- ▶ Internal memory for static changes
- ▶ Logging software for dynamic changes
- ▶ Store up to 1000 recipes
- ▶ Multilingual

### Power

- ▶ Supply: 95-250 VAC, 50/60 Hz by integrated automatic voltage selector
- ▶ 4-6 Bar compressed air VTRF3-3
- ▶ Consumption: 150 Watt maximum, 2,8 l/h during transporting

### Materials

- ▶ Masterbatch & Virgin

### Design

- ▶ Modular, Stainless steel
- ▶ Receiving neckpiece with deairing filter
- ▶ Heavy-duty flexible hose



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+44 (0) 1827 265 800

info@summitsystems.co.uk

www.summitsystems.co.uk

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