

MCContinuous Blender

Unique modular in-line blender system

Advanced blending systems are often seen as complete plant engineered solutions. Movacolor has developed a unique modular system that allows you to put together a full gravimetric continuous blending system. Up to 15 components can be controlled from one controller. These systems can be installed on one extruder or on multiple co-extruders, creating a control platform for multiple continuous blenders in one system.

The system grows with your future needs. New components can easily be integrated without changes to the controller.

The MCContinuous Blender covers most of the available materials like granulates, regrinds, powders and liquids. All this in one system, with one standard controller and integrated loader control.

All the benefits of a continuous blender are suddenly within your reach. Our experience with in-line gravimetric dosing helps you to achieve the required accuracy for all your components, directly on the extruder.



Features

- Capacities up to 2,000 kg/h. Fully gravimetric
- Modular system: granulates, regrinds, powders and liquids
- Handles up to 15 components
- Multiple continuous blenders on one standard controller
- High accuracy and direct response to recipe change
- Integrated loader control
- Can be extended or modified easily for future needs



Modular control system

The 8" full color touch screen controller can control up to 15 components on either one extruder or divided over several co-extruders. Standard software can be configured on the spot and systems can be expanded without additional controller changes.

Different materials handled

All standard Movacolor gravimetric units can be integrated into one blending system, able to dose granulates, regrinds, powders and liquids in the configuration you wish.



MOVACOLOR LEADING INNOVATOR IN DOSING TECHNOLOGY

For almost three decades, Movacolor has been dedicated to coloring the world in a sustainable way. We do so by developing high-precision gravimetric and volumetric dosing systems. Our knowledge, experience and innovation capabilities are invested in a comprehensive portfolio of user-friendly products. These work easily and effortlessly together in advanced systems that conserve additives, increase production flexibility and deliver excellent results.

MContinuous Blender

Technical specifications

CAPACITY

Maximum 2,000 kg/h*

APPLICATION

Extrusion

NUMBER OF COMPONENTS

Maximum 15 components on single or multiple co-extrusion lines

COMMUNICATION

Modbus TCP/IP, Profibus**, Profinet**

DATA STORAGE

Internal memory (static changes), MCLan data logging software (dynamic changes), 500 recipes storage function

POWER SUPPLY

95-250 VAC, 50/60 Hz. By integrated automatic voltage selector

POWER CONSUMPTION

150 Watt maximum (per component)

LANGUAGES

English, German, Dutch, French, Hebrew, Turkish, Chinese, Thai, Japanese, Russian, Italian, Czech, Portuguese, Spanish, Indonesian, Polish, Korean, Hungarian, Swedish, Romanian***

OPERATION

8" full color touch screen display

INPUT SIGNALS

Start input: potential free, 24 VDC or extruder tacho (0-30 VDC)

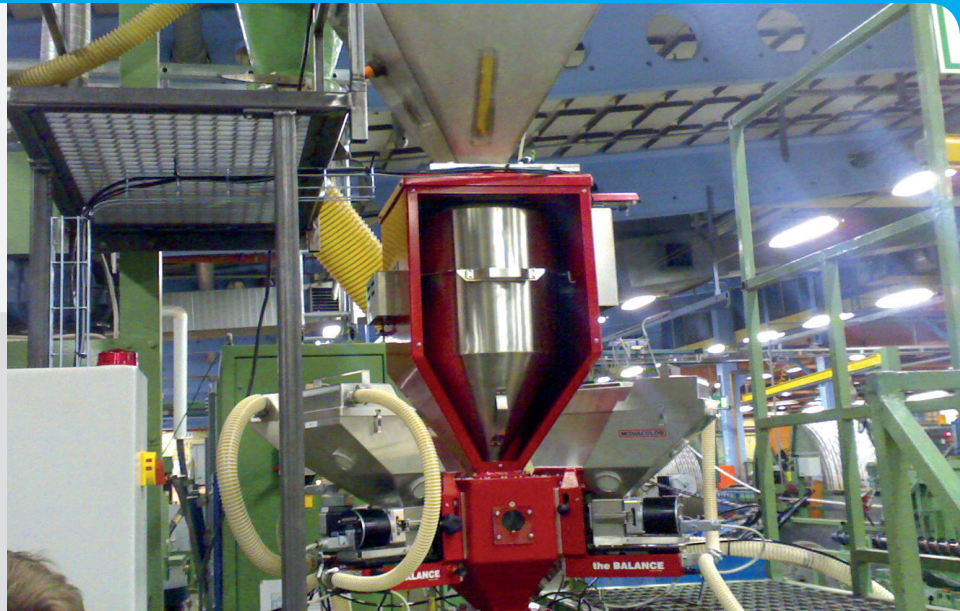
OUTPUT SIGNALS

Alarm, warning, run, valve (for hopper loader control), 2x0-10 VDC** or 4-20 mA**

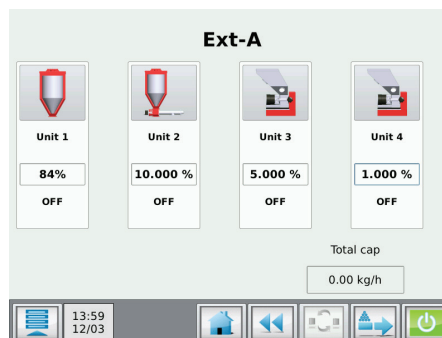
* measured with a bulk density of 0.8 kg/dm³

** optional

*** additional languages on request



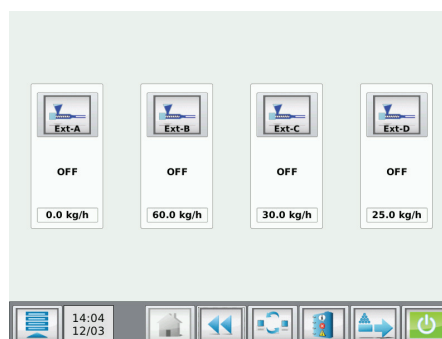
Example 1



Four component blender for full feed extruder. Maximum 1,300 kg/h.

- Main material max. 1,000 kg/h
- Re grind max. 300 kg/h
- 1 x additive max. 100 kg/h
- 1 x additive max. 40 kg/h

Example 2



Four co-extruders with each one MCWeight + two MCBalance.

Maximum 500 kg/h.

- 2 x additive max. 40 kg/h