INDUSTRY4.0
ready

MCNEXUS

- ✓ Best in dosing at extremely low dosage rates
- ✓ Highly advanced optical pellet detection system
- ✓ Completely 3D printed body
- ✓ Recipes storage function
- ✓ 8" full color touch screen
- ✓ Industry 4.0 ready

MCNEXUS

The revolutionary patented MCNexus is the new standard for dosing extreme small amounts of masterbatch. It is an ultra-compact dosing unit, able to dose pellet by pellet masterbatches or additives in various shapes and sizes. The working principle is simple. A standard compressed air supply creates vacuum via an air cartridge. A dosing disc captures the individual pellets piece by piece. Optional feature on the MCNexus is a mini hopper loader or a mounting bracket for air components (Air on Deck). Finally, the pellet is discharged with the same compressed air. Result: counting pellets with 100% accuracy.

To reduce the number of components the MCNexus is manufactured by 3D printing. This gives the opportunity to customize the connection to the production machine. The MCNexus is only about 200 mm long, so it will fit on any small scale machine. It is suitable for high precision injection molding, including medical, automotive, and electronics, as well as low-rate extrusion. Ultraconcentrated colors and additives now become easy to dose.

"Everybody knew it was impossible, until someone came along who didn't."

Benefits

Extremely accurate dosing

The dosing disc doses the additive pellet by pellet according to the calculated production capacity, making it possible to dose at ultralow ranges up to 5 pellets per second.

User-friendly

Anyone can operate the MCNexus by means of the Movacolor touch screen controller (MCTC). This controller enables the user to work with recipes and monitor the dosage with MCSmart Software.

Easy mounting

The MCNexus is designed in a way that makes it easy to install the unit on all Movacolor neckpieces, by means of a special platform. This platform enables you to easily drain the machine as well.

Specifications

AIR CONSUMPTION
20 liter/minute maximum in continuous operation

AIR SUPPLY
Compressed air 2-5 Bar

APPLICATIONS
non-repelletized regrinds

CAPACITY
Weighing bin 1.2 liters

COMMUNICATION
Modbus TCP/IP, Profibus***, Profinet***, OPC/UA***

Data logging options
SQL database

DATA STORAGE
Internal memory (static changes), MCSmart datalogging software (dynamic changes), 1,000 recipesstora

External communication
Standaard PC link using TCP/IP or Modbus-TCP protocol

Hopper size
6L

INPUT SIGNALS
Start input: potential free, 24 VDC. Extrudertacho (0-30 VDC)

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

OUTPUT SIGNALS
Alarm, warning, run, valve (for hopper loader control),2x0-10 VDC** or 4-20 mA**
Optional extra two analog inputs and two analog outputs (0-10 VDC or 4-20 mA)

POWER CONSUMPTION
150 Watt maximum

POWER SUPPLY
230 VAC, 50 Hz or 115 VAC, 60 Hz

Recipe functionality
Upload recipes to controller

System requirements
Windows 7, Windows 8, Windows 10

Trouble shooting options
Full remote operation

View options (summary)
Status overview multiple units

NUMBER OF COMPONENTS
Removable weighing bin and mixing chamber

LEADERS IN DOSING TECHNOLOGY