



MCNexus

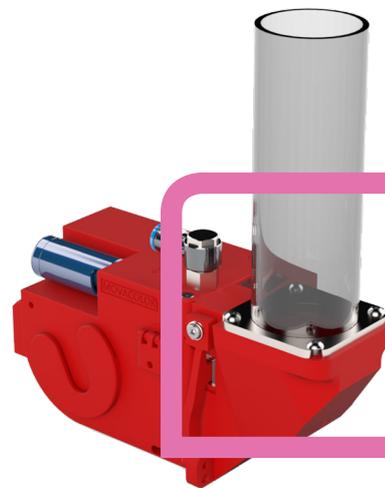
Optometric high precision dosing

The revolutionary MCNexus is the new standard for dosing extreme small amounts of masterbatch. It is an ultra-compact dosing unit, able to dose 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.

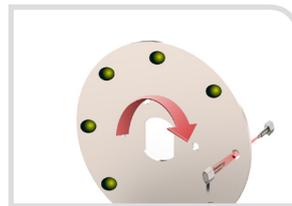
The MCNexus is only about 200 mm long, so it will fit on any small scale machine. It is suitable for high precision injection molding, including medical, automotive, and electronics, as well as low-rate extrusion. Ultraconcentrated colors and additives now become easy to dose.

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



Features

- 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



Extremely accurate dosing

The dosing disc doses the additive pellet by pellet according to the calculated production capacity, making it possible to dose at ultra-low 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.



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.

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.

MCNexus

Technical specifications

CAPACITY

0.15 kg/h (up to 5 pellets per second)*

APPLICATIONS

Injection molding, extrusion and batch dosing

COMMUNICATION

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

DATA STORAGE

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

AIR SUPPLY

Compressed air 2-5 Bar

AIR CONSUMPTION

20 liter/minute maximum in continuous operation

POWER SUPPLY

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

POWER CONSUMPTION

150 Watt maximum

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 tachometer (0-30 VDC)

OUTPUT SIGNALS

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

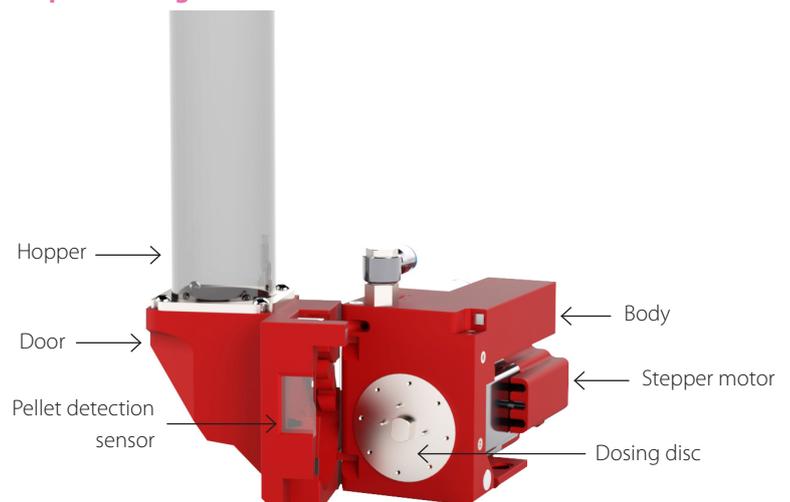
* measured with material with a constant pellet size

** optional

*** additional languages on request



Principal drawing



Dimensions

