




OTTEVANGER
PROCESS SOLUTIONS


Micro Dosing Unit (MDU)

Technical Datasheet



Modular
build 

Very high
accuracy 

wide range of
applications 

Micro Dosing Unit

A modular build high accuracy dosing system

The Micro Dosing Unit (MDU) is a modular build high accuracy dosing system suitable for a wide range of different applications. It is also an easy expandable system in case needed.

Built with a robust, hygienic frame, the MDU integrates the bin hoppers and dosing elements seamlessly. The main weigher hopper is equipped with a double butterfly valve for a complete seal, protecting it from external influences. The MDU can support a silo block of up to 8m³ on its own frame. For larger volumes, additional external support is required for the silo block.

Unique Benefits

What sets the MDU apart from conventional dosing and weighing methods is its flexibility and wide range of applications. In addition to its high dosing and weighing accuracy, this system can operate with multiple screws (up to 4) simultaneously, significantly reducing the process cycle time. The MDU is suitable for various applications, including compound feed, grains and seeds, pet food, aquafeed, premixes, and concentrates.

	Standard	Options	
Weigher	Main Weigher	Small	Large
Dosing Volume Total (l)	1000	15	30
Dosing Volume per Screw (l)	1000	7,5	10
Weighing Range (kg)	500	15	30
Screws	High accuracy	High capacity	
Material	Pom-C	S235 or SS304	
Capacity (m3/h)	3,6	9	
Control Range	1:1000	1:1000	
Average Absolute Dosing Deviating			
With Small Weigher*	1	10	
With Large Weigher	1	10	
With Main Weigher**	10	25	

* 1000g batch weight

** 5000g batch weight

Specifications

The MDU can be modularly configured with:

- ✓ 8 dosing screws
- ✓ 8 agitators
- ✓ Up to 4 Internal weighers*
- ✓ 1 main weigher
- ✓ Total weight ± 4500 kg

* Maximum 4 small internal weighers or 2 large internal weighers. Different combinations are also possible for example 2 small internal weighers and 1 large internal weigher.

Additionally, the MDU can be equipped with a fully configurable cell block with up to 8 cells.

