

# DYNAMIX MD2

## FIXED-TANK DISPERSER MIXER WITH DOUBLE SHAFT

DYNAMIX MD2 fixed-tank disperser mixers are machines designed for the dispersion and mixing of medium- and high-viscosity products. They are installed on mezzanine platforms and engineered and built to operate under demanding industrial conditions. The processing cycle takes place inside closed tanks, either suspended on mezzanines or positioned at floor level.

Equipped with a double shaft, configurable with a scraping anchor and also available in a vacuum version, they are able to meet any production requirement thanks to a wide range of motors up to 250 kW. This allows the processing of products with viscosities ranging from 40,000 to 310,000 cP and batch sizes of up to 13,000 liters



## ADVANTAGES

- Innovative Industry 4.0-enabled technology designed to optimize business processes in terms of management time, costs, and quality
- Continuous process monitoring through an integrated PLC
- Automated integration into the production flow and with the company ERP system
- Efficient recipe management, high product repeatability, and reduced production waste
- Minimization of failures and unplanned downtime through predictive maintenance indicators
- Remote assistance for immediate customer support

## TECHNICAL FEATURES

High-speed dispersion unit featuring:

- Heavy-gauge sheet-metal head with anti-vibration reinforcements and protective housing
- Belt-and-pulley or coaxial transmission
- Shaft support with high-efficiency ball bearings
- High-speed side dispersion shaft in AISI 304 stainless steel
- Serrated Turbo-type impeller in AISI 304 stainless steel
- Intermediate serrated Cowles-type impeller in AISI 304 stainless steel
- Impeller height adjustable by sliding the head during mixing

Second shaft unit featuring:

- Shaft support with high-efficiency ball bearings
- AISI 304 stainless steel shaft with Turbo or Cowles dispersion impellers, or three-blade mixing impellers, or anchor scraper with adjustable blades, all in AISI 304 stainless steel
- Shaft geared motor with coaxial transmission (when equipped with three-blade mixing impellers or anchor scraper)
- Belt-and-pulley transmission (when equipped with Turbo or Cowles dispersion impellers)
- Open-top or welded container with dished bottom, cylindrical vertical-axis construction in AISI 304 stainless steel
- Multiple powder and liquid feeding systems integrable into the cover
- Electronic speed control via inverter
- Also available in ATEX version

## INDUSTRY 4.0 READY

- Integrated PLC
- Intuitive touch-screen operator interface
- Network connectivity

## INDUSTRY 4.0 OPTIONAL

- Wi-Fi operator control panel
- Router for remote assistance
- Latest-generation MISURA software
- Predictive maintenance indicators
- OEE (Overall Equipment Effectiveness) indicators
- Dashboard with digital analog-style gauges
- Software interface with the customer's ERP system

## CONFIGURATIONS

Modello	Doppio abero	Doppio albero con ancora raschiante RI	Coperchio fisso semplice	Coperchio fisso bombato per versione sottovuoto SV
Modello F	X		X	
Modello RI		X	X	
Modello SV	X			X
Modello RI-SV		X		X

## OPTIONALS

- Hydraulic lifting via electric pump integrated into the control unit
- Servo-ventilated motor for forced cooling of the dispersion unit motor
- Reinforced container with cooling jacket and external insulation for heating
- Container inner wall mirror-polished or lined with wear-resistant material
- Product temperature sensor integrated into the dispersion shaft
- Level sensor (encoder)
- Foam sensor
- Safety pressure switch
- Work cycle duration timer
- Possibility of product discharge under overpressure for vacuum-version machines
- Cup-type impeller, replacing the Cowles impeller, suitable for high-viscosity and high-density products containing quartz or sand
- Weighing platform integrated into the container anchoring system
- Washing system:
  - Rotating spray heads mounted on the cover
  - Motorized immersion lance with rotating spray head