

# DYNAMIX MD

## FIXED-TANK DISPERSER MIXER WITH SINGLE SHAFT

DYNAMIX MD fixed-tank disperser mixers are machines designed for the dispersion and mixing of low- and medium-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 single shaft, and configurable with a scraper and in vacuum versions, they are able to meet a wide range of production requirements thanks to a broad selection of motors up to 250 kW. This allows the processing of products with viscosities ranging from 1,000 to 200,000 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
- Special design allowing easy maintenance of the drive system

## TECHNICAL FEATURES

- Heavy-gauge sheet-metal head with anti-vibration reinforcements and protective housing
- Belt-and-pulley or coaxial transmission
- Hydraulic lifting system with electric pump integrated into the control unit
- Shaft support with high-efficiency ball bearings
- High-speed 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
- Bottom serrated Turbo-type impeller (reduced size) in AISI 304 stainless steel to facilitate product discharge during packaging
- Impeller height adjustable by sliding the head during mixing
- 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	Albero singolo	Albero singolo con raschiatore interno motorizzato a doppio braccio 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

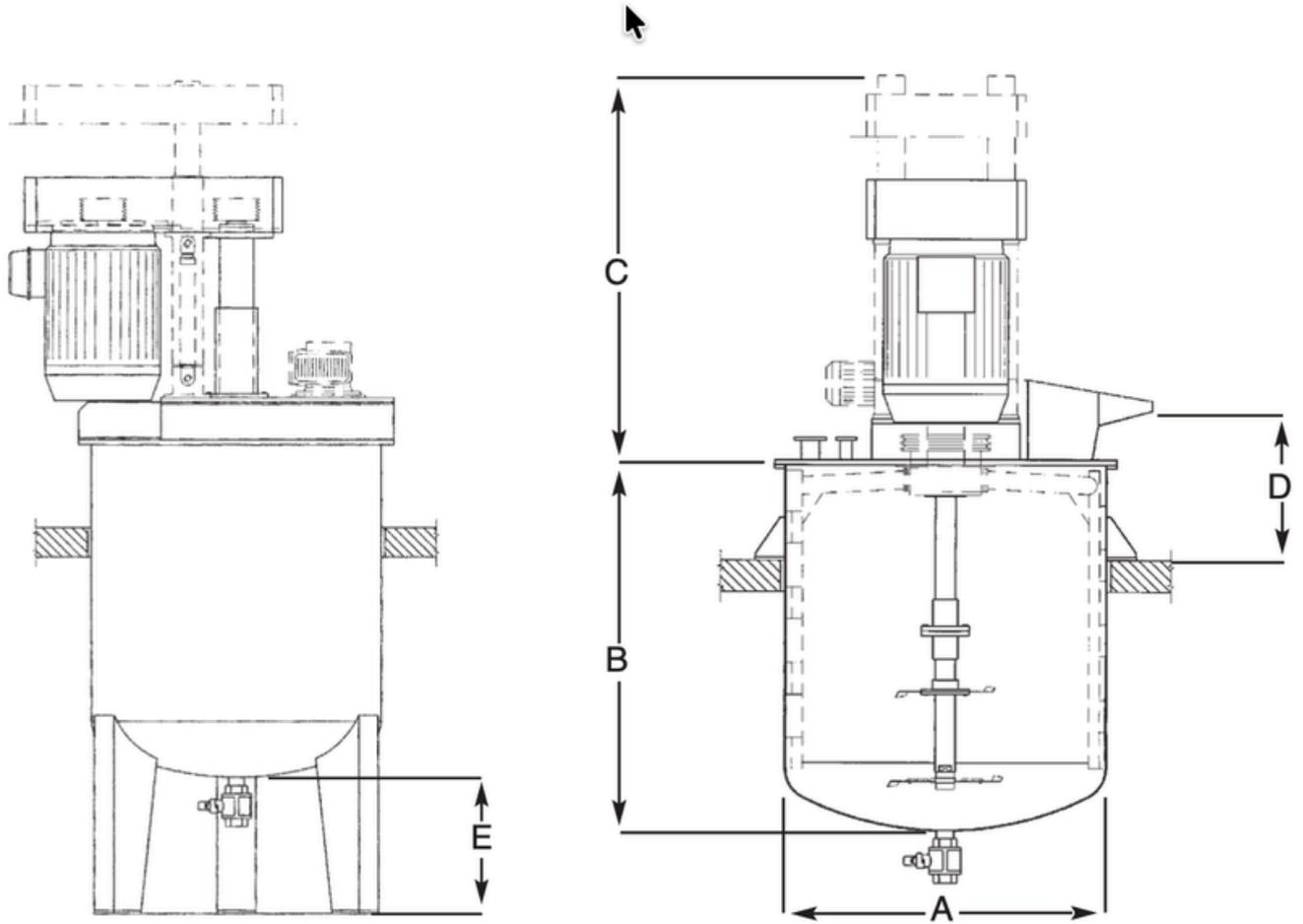
- Motorized internal double-arm scraper in AISI 304 stainless steel, featuring high torsional-strength profiles, mounted on the gearbox output shaft and operating over the entire container surface
- Servo-ventilated motor for forced cooling of the main motor
- Reinforced container with jacket for cooling and external insulation for heating
- Truncated-cone-shaped container
- Container inner wall mirror-polished or lined with wear-resistant material
- Product temperature sensor integrated into the 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:
  - with rotating spray heads mounted on the cover
  - with motorized immersion lance and rotating spray head

## TECHNICAL DATA

Modello	Potenza motore principale		Potenza motore sollevamento testata		Potenza motore raschiatore		Potenza motore pompa per vuoto		Portata pompa per vuoto	Giri al minuto	Diametro girante (mm)	Volume utile massimo (lt)
	Kw	Hp	Kw	Hp	Kw	Hp	Kw	Hp				
MD 30	22	30	1,5	2	1,5	2	2	2,7	63	0-1500	270-320	800
MD 40	30	40	1,5	2	1,5	2	2	2,7	63	0-1500	320-350	1000
MD 50	37	50	1,5	2	2,2	3	2	2,7	63	0-1500	350-380	1200
MD 60	45	60	1,5	2	2,2	3	2	2,7	63	0-1500	380-400	1500
MD 75	55	75	1,5	2	2,2	3	2	2,7	63	0-1500	430-450	1700
MD 100	75	100	2,2	3	3	4	2,7	3,6	100	0-1100	500-520	2000
MD 125	90	125	2,2	3	3	4	2,7	3,6	100	0-1100	570-600	2500
MD 150	110	150	2,2	3	5,5	7,5	5,5	7,4	165	0-1100	600-650	3000
MD 180	132	180	4	5,5	5,5	7,5	5,5	7,4	165	0-1100	650	3800
MD 220	160	220	4	5,5	5,5	7,5	5,5	7,4	165	0-950	700	4800
MD 270	200	270	4	5,5	5,5	7,5	7,5	10	250	0-950	750	5500
MD 335	250	335	4	5,5	5,5	7,5	7,5	10	250	0-950	750	6500

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**DIMENSIONS**



**APPLICATIONS**

Paints, water-based paints, thick coatings, glues, mastics, plastics, sealants, cosmetic products, epoxy products, inks, packaging inks, adhesives