



Steel Belt Systems

Extrusion & Powder Coating Division

MRS Vertical Pre-mixer

Application:

Vertical pre-mixers are designed for quick mixing, normally between 8 minutes and 12 minutes, of the components of powder coating recipe so that a homogenous mixture can be fed into the extruder.



MRS-series Vertical Pre-mixers



MRS50 Vertical Pre-mixer for small production

Main Technical Parameters:

Model	Volume (L)	Capacity (kg/tank)	Main Motor power (kW)	Overturning motor power (kW)	Voltage and Frequency	Mixing high and low speed (rpm)	Air Pressure
MRS50	50	30	5,5	0.25	400V - 50Hz	1400	6 bar
MRS300	300	210	15 - 22	0.55	400V - 50Hz	284 - 183	6 bar
MRS600	600	420	21 - 35	1.5	400V - 50Hz	212 - 106	6 bar
MRS1000	1000	700	33 - 55	1.5	400V - 50Hz	115 - 58	6 bar
MRS2000	2000	1400	132	3	400V - 50Hz	60 - 34	6 bar

Important Note: SBS Steel Belt Systems can also supply pre-mixers with ATEX 22 components, installed on the mixing head (main motor, jacks, encoder, proximity safety switches, PT100)

MRS Vertical Pre-mixer

Main Characteristics:



A mixing head with special blade made of hardened stainless steel; all the surfaces in touch with the material are made in stainless steel. The mixing head is equipped with proximity safety switches and it has a temperature control by chilled water circulation through the jacket created in the mixing head (maximum operating pressure 0.9 bar)



Lifting and locking system composed by electrical screw jacks



Mixing head drive composed by AC motor and high power gear reducer



Mixing head rotation till maximum 180° to optimize mixing efficiency



Tank with cone shape, made of carbon steel; the tank is **equipped with stainless steel butterfly discharge valve** and supporting trolley with four wheels. Surface in contact with the product is manufactured in stainless steel.

- Automatic over tilting system
- Mechanical and electrical safety protections
- Main Electrical control Panel assembled in a box with IP54 protection and with PLC model Siemens S7 - 1200, complete with touch panel control



Degassing system for exhaust powder

CONTACTS

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