MH
Horizontal Blender

APPLICATION

The horizontal blender is used to dissolve solid/powder products into a liquid, recirculated in a tank. The blender is limited to the suction of small amount of solids as it has no table for bags and the hopper is smaller than that of the table blender.

OPERATING PRINCIPLE

Horizontal blender is a compact unit, it consists of a centrifugal pump with a venturi system on the suction side and a hopper with a butterfly valve above the venturi to add solid / powder products to the pumped liquid. In this blender, the suction and venturi system are set horizontally. The venturi system and the suction of the pump create a negative pressure at the base of the hopper. When the valve of the hopper opens, the solids are drawn from the hopper and are dissolved in the liquid when they pass through the pump casing. To achieve the best possible dissolution, it is recommended to recirculate the product (batch produc-tion) untill all the solid/powder product is suctioned in and then, when the solid product is completely incorporated into the liquid product, continue recirculating the product for a while.

DESIGN AND FEATURES

Very simple and versatile system for a fast and homogeneous mixing of a wide range of solid
products without any contact with the atmosphere.
Hygienic design.
Single mechanical seal.
ISO 2852 Clamp connections for easy assembly/disassembly.
Cleaning and disinfection without disassemby

TECHNICAL SPECIFICATIONS

Materials

Parts in contact with the product	AISI 304 (1.4404)
Other steel parts	AISI 304 (1.4301)
Gaskets in contact with the product	EPDM

Mechanical Seal

Rotary Part	Silicon carbide (SiC)
Stationary Part	Silicon carbide (SiC)
Gaskets	EPDM

Surface Finish

Internal and hopper	Bright polish Ra ≤ 0,8 μm
Stationary Part	Silicon carbide (SiC)
External, structure and upper base	Matt

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Blender	MH-20	MH-26
Approximate flow	20 m³/h	40 m³/h
Maximum differential height	7 mwc	15 mwc
Maximum solids intake	1.300 kg/h *	2.000 kg/h *
Pump	Hyginox SE20 with impeller Ø130	Hyginox SE26 with impeller Ø145
Motor	3 kW – 3.000 rpm	5,5 kW – 3.000 rpm
Maximum temperature	65ºC	65ºC
Connections (inlet/outlet)	CLAMP	CLAMP
Hopper capacity	25 L	48 L
Hopper valve	Butterfly valve CLAMP	Butterfly valve CLAMP

* Intake of solids may vary depending on their properties.

OPTIONS

Gaskets FPM or PTFE.
Connections DIN, SMS.
Drain port.
Vibrator for hopper.
Pneumatically actuated valve + low level sensor for solids.
Solids upper level sensor .
Control panel for the vibrator, level sensors and automated valve.
Grid for hopper.

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DIMENSIONS ϕJ
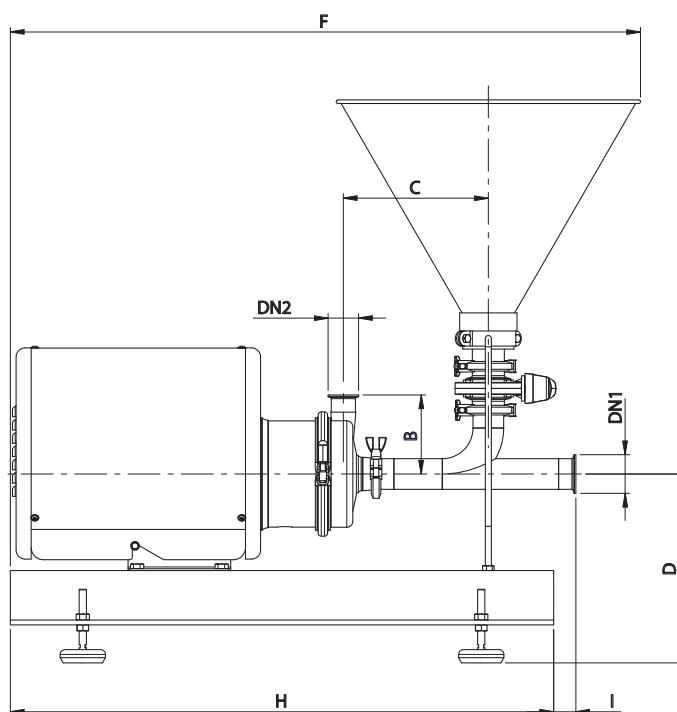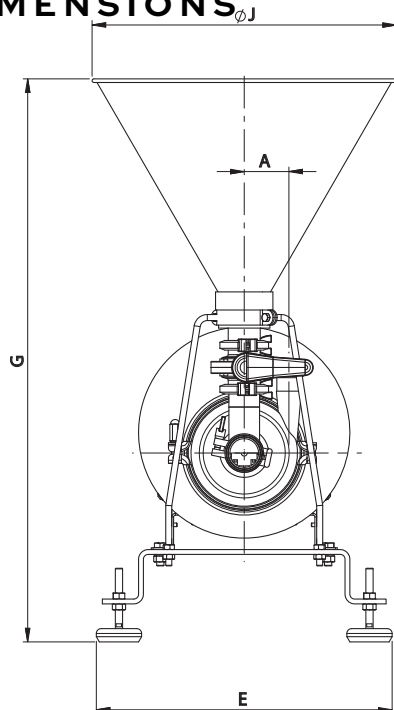
Blender	Hopper volume (l)	kW	DN1	DN2	A	B	C	D	E	F	G	H	I	ØJ	Weight (kg)
MH-20	25	3	CLAMP 2"	CLAMP 1 ½"	74	131	240	313	490	1045	933	900	37	505	88
MH-26	48	5,5	CLAMP 3"	CLAMP 2"	72	145	322	325	490	1185	1060	1200	40	605	103

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