

I Application

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

I Operating principle

The 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 product to the pumped liquid. In this blender, the suction and venturi system are set horizontally.

The venturi system and the suction of the pump creates 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 casing of the pump.

To achieve the best possible dissolution, it is recommended to recirculate the product (batch production) until all the solid/powder product is sucked in and then, when the solid product is completely incorporated into the liquid product, continue recirculating the product for a while. In some cases, it can be used in-line depending on the solid product to add and the required level of dissolution.

I Design and features

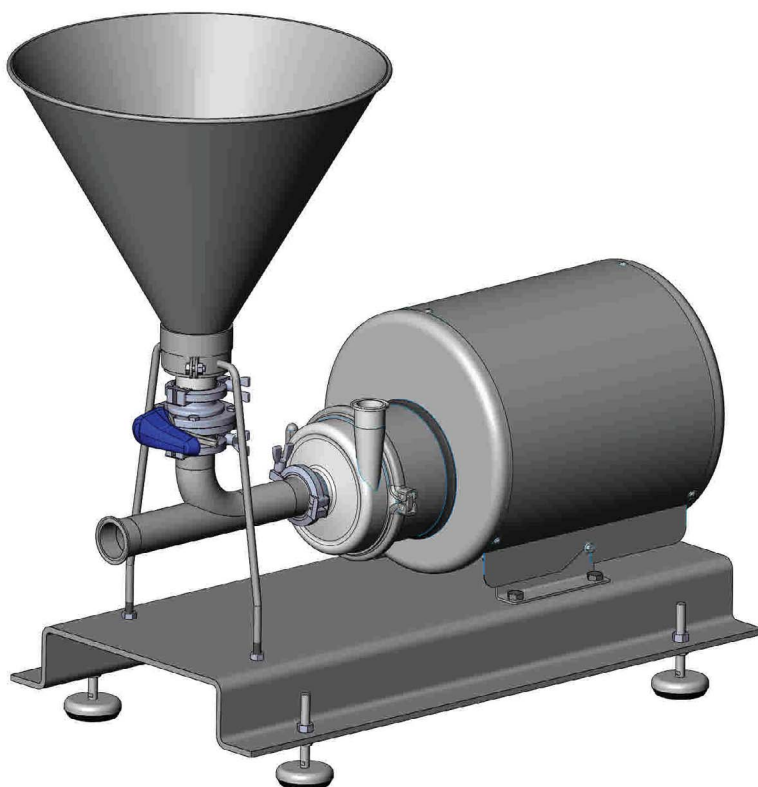
Very simple and versatile equipment for a fast and homogeneous mixing of a wide range of solid products without any contact with atmosphere.

Hygienic design.

Single mechanical seal.

ISO 2852 Clamp connections for easy assembly/disassembly.

Cleaning and disinfection without disassembling the unit.



I Materials

Parts in contact with the product	AISI 316L
Other metal parts	AISI 304
Gaskets	EPDM in compliance with FDA
Mechanical seal	SiC / SiC / EPDM
Internal surface finish	$Ra \leq 0.8 \mu m$
External surface finish	Bright polish
Baseplate surface finish	Matt

I Options

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

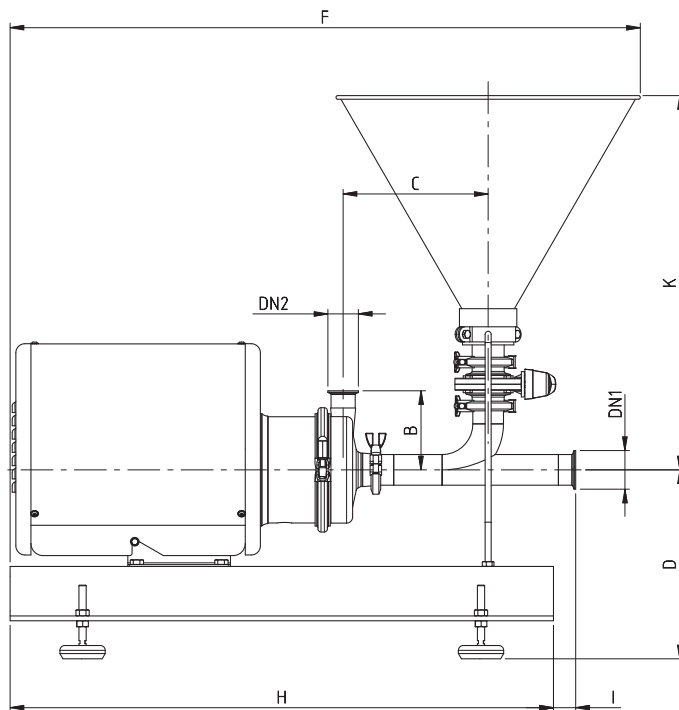
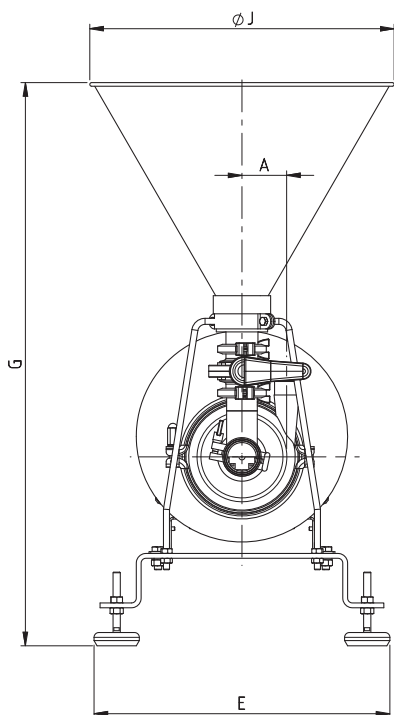
I Technical specifications

Blender	MH-20	MH-26
Approximate flow rate	20 m ³ /h	40 m ³ /h
Max. differential height	7 mwc	15 mwc
Max. solids intake	1300 kg/h *	2000 kg/h *
Pump	Hyginox SE20 with Ø130 impeller	Hyginox SE26 with Ø145 impeller
Motor	3 kW - 3000 rpm	5.5 kW - 3000 rpm
Max. temperature	65°C	65°C
Connections (inlet/outlet)	CLAMP	CLAMP
Hopper capacity	25 L	48 L
Hopper valve	CLAMP butterfly valve	CLAMP butterfly valve

* Intake of solids may vary depending on their properties.



I Dimensions



Model	Hopper capacity (L)	kW	DN1	DN2	A	B	C	D	E	F	G	H	I	ϕJ	Weight (kg)
MH-20	25	3	CLAMP 2"	CLAMP 1 1/2"	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



The information is for guidance only. We reserve the right to modify any material or feature without notice in advance. Photos are not binding. For further information, please, consult our web site.

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F Iso/MH20/MH26. I. EN-0914