

ME-6100 RE

Recirculation Tank Bottom Mixer



APPLICATION

The range of high shear ME-6100 RE recirculation tank bottom mixers is a highly hygienic solution for the processes of dispersion, emulsion, homogenisation and disintegration of solids for a large number of products in the food, cosmetic, pharmaceutical and fine chemicals industries. This head of the recirculation mixer is designed to recirculate all the product in order to achieve better product homogenisation throughout the tank, meaning the mixing is not limited to the bottom of the tank. They can be used in open or closed tanks, at atmospheric pressure or under pressure/vacuum. Recirculation tank bottom mixers are particularly indicated for operating with anchor type agitators or a counter-rotating agitators

OPERATING PRINCIPLE

The ME-6100 RE recirculation tank bottom mixer range can pump the product, recirculating it inside the tank, or rather using the mixer to empty or transfer the product.

This model of mixers uses a specifically designed head, as they have a closer-fitting rotor-stator unit, where the product passes through the unit and it gets fully flooded. The rotor's high speed combined with the adjusted tolerance between the rotor and the stator causes a powerful suction effect on the product, which pushes it to the periphery of the head where it can be pumped outwards.

The design of the mixer is fully drainable via the eccentric port connection.

DESIGN AND FEATURES

- High shear, particle size reduction to less than 100 microns.
- Access to the mechanical seal from the inside of the tank.
- Single sanitary mechanical seal.
- Possibility to replace the stator without disassembling the mixer.
- Different models of stators are easily interchangeable.
- Motors: IEC B5, IP 55, F-class insulation.
- Easy cleaning and sterilisation (CIP/SIP).
- Slotted head.

TECHNICAL SPECIFICATIONS

Materials

Parts in contact with the product	1.4404 (AISI 316L)
Other steel parts	1.4301 (AISI 304)
Gaskets in contact with the product	EPDM
Mechanical seal	C/SiC/EPDM

Surface finish

Internal	$Ra \leq 0,8 \mu m$
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OPTIONS

Flushed mechanical seal.

Pressurised mechanical seal or double mechanical seal.

Disintegrating stator.

Fine screen stator.

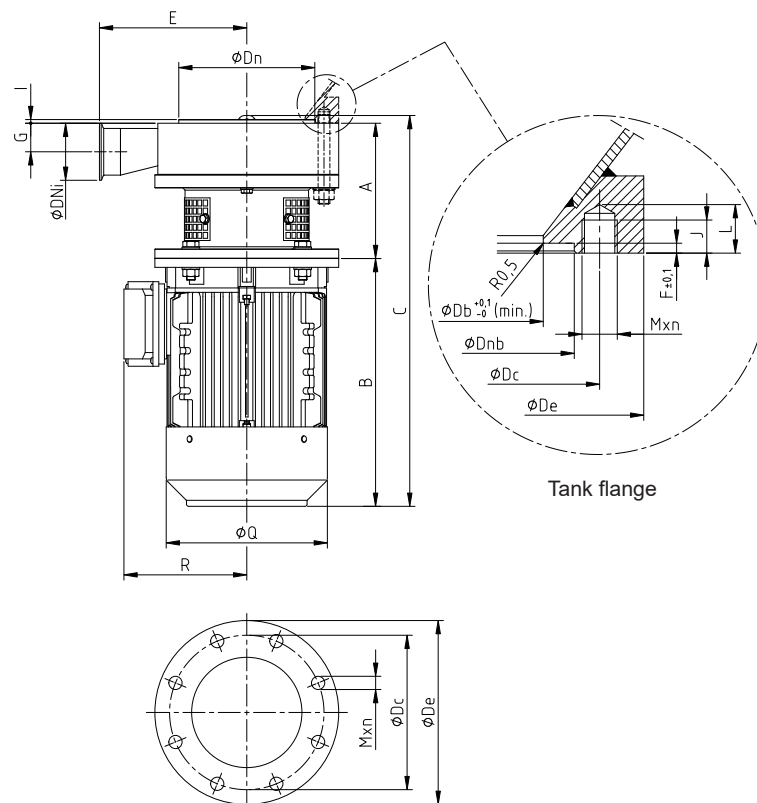
Bare shaft construction for big size models and transmission by pulleys and belts.

$Ra \leq 0.4 \mu m$ surface finish for pharmaceutical applications.

Motors with other protections.

Drain port.

DIMENSIONS



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Model	Motor	A	B	C	E	F	G	I	J	L	ØQ	R	Tank flange						kg		
													Mxn	ØDb	ØDc	ØDe	ØDn	ØDnb		ØDni	
ME-6103 RE	T-90	146	290	455	120		23,5		15	20	180	145	M10x4	122	165	200	148	149	1½"	40	
ME-6105 RE	T-112	184	340	535	200		39		15	21	220	170	M16x4	159	210	250	185	186		65	
ME-6110 RE	T-132	201	380	595		4,5		5			265	190								115	
ME-6125 RE	T-160	245	540	810	240		40				315	250								180	
				885					20	27	360	265	M16x8	227	300	330	264	265		260	
ME-6130 RE	T-180	299	615	925	290		88								285	365	400	320	321	4"	280

Dimensions in mm

QUICK SELECTION TABLE

Approximate selection table. The selection can vary according to the application.

Model	Motor			Tank Volume [L]	
	Size	Power [kW]	Speed [rpm]	3000 cP	Additional agitation 3000 cP
ME-6103 RE	T-90	2,2	3000	100	300
ME-6105 RE	T-112	4		300	750
ME-6110 RE	T-132	7,5		750	1500
ME-6125 RE	T-160	18,5		1000	2000
ME-6130 RE	T-180	22	1500	1200	2200
				1500	2500