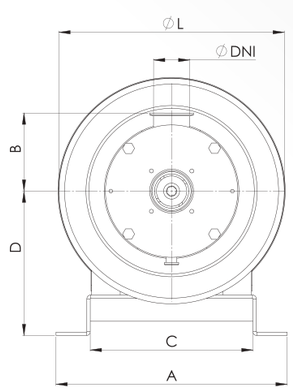
FIM INLINE MIXER

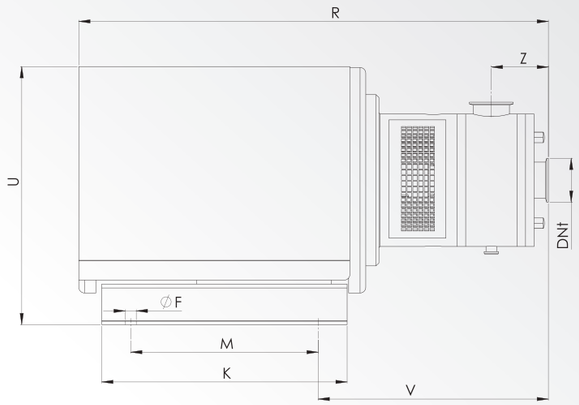
DIMENSIONS

TYPE	Ø DNI	Ø DNt	Z	B	D	E	F	G	H	I	ØJ	ØK	L	M
FIM 30-011	1 1/2"	1 1/2"	70	595	114	175	190	230	325	355	290	15	245	285
FIM 30-040	2"	2"	86	700	140	232	256	300	400	445	350	19	355	410
FIM 30-075	2 1/2"	2 1/2"	86	850	140	252	253	350	450	490	400	19	355	410
FIM 30-185	3	2 1/2"	98	1080	175	310	227	600	700	615	500	19	465	520
FIM 15-220	4"	3"	109	1115	204	310	269	600	700	615	500	19	465	520

CAPACITY

Flow (m^3/h)	Power (kw)	Speed (rpm)
10	1,1	3000
20	4	3000
30	7,5	3000
35	18,5	3000
45	22	1500





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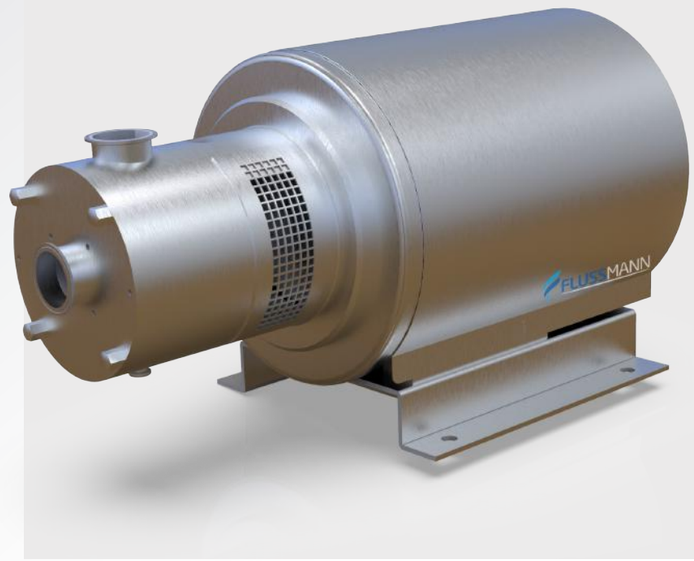

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APPLICATION

- The FIM series of the inline high shear mixers offers a possibility to pump, disperse, homogenize and emulsify products with one and the same equipment.
- These mixers are especially useful in already existing plants.
- They can work with a recirculation tank reaching the best efficiency after several passes of the product through the mixer.
- Milk, beer, chocolate, syrup, cosmetics, fragrance, toothpaste, detergents, shampoo, shoe polish, soaps,Emulsifier, syrup, medicines, Paint, dyes, oil agents, , etc.

MATERIALS

- Parts in contact with the product : AISI 316L
- Other stainless steel parts : AISI 304
- Mechanical seal : C / SiC / EPDM
- Gaskets : EPDM
- Surface finish Ra : ≤ 0.8µm

DESIGN AND FEATURES

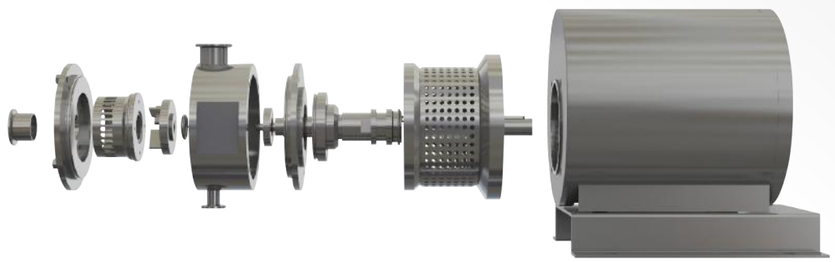
- High shear, particle size reduction to less than 100 microns.
- Hygienic single mechanical seal.
- Various easily interchangeable working heads.
- Completely , easy to clean
- Standard connections: Clamp ISO-2852.
- Motor shroud.

OPTIONS

- Cooled or pressurised mechanical seal.
- Baseplate with antivibration legs.
- Trolley with/without control panel.
- Mirror polish Ra < 0.5 µm for the pharmaceutical applications.
- Other motor protections.

Slotted Head:
High shear and flox rate efficiency

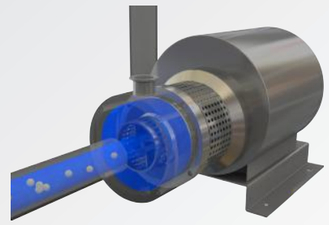
Disintegrating Head:
Higher viscosity products than nay other

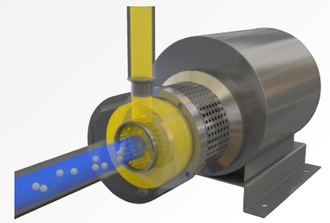


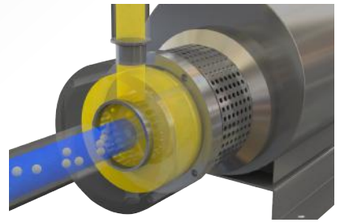
FIM MIXER

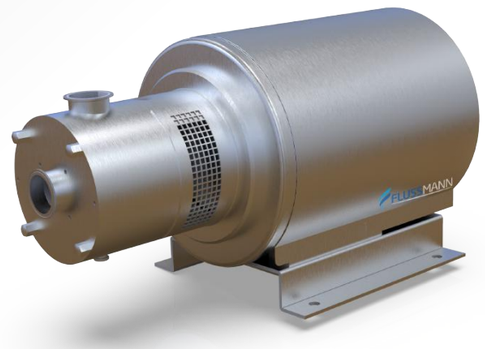
WORKING PRINCIPLE

- It is characterised by a high shear due to an adjusted tolerance between the rotor and the stator and the high speed of the rotor.
- The product is suctioned through the inlet and the rotor pushes it to the stator.
- Passing through the slots of the stator the product is mechanically sheared, the particles are sheared by the rotor at the speed of more than 20 m/s.
- And finally the flow is hydraulically sheared leaving the stator through the slots at a high speed.
- If the viscosity of the product is higher than 200cP, it is recommended to put an auxiliary pump at the inlet of the mixer, and if a high discharge pressure is required, it is necessary to assemble another auxiliary pump.









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