



## **FVM VERTICAL MIXER**

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**YOUR SOLUTION PARTNER**

A decorative graphic element in the bottom left corner consisting of overlapping diagonal stripes in blue and grey.



## FVM VERTICAL MIXER

### APPLICATION

The FVM series of the high shear vertical mixers present a solution for the processes of dispersion, emulsifying, homogenisation and disintegration of solids in a wide range of products in the food processing, cosmetics, pharmaceutical and fine chemistry industries.

### WORKING PRINCIPLE

The high speed and adjusted tolerances between the rotor and the stator result in high suction potential, the product is suctioned from the bottom of the tank and driven to the centre of the head.

The product is suctioned from the lower part of the head and the rotor thrusts it radially.

Passing through the openings of the stator the product is mechanically sheared. the particles are sheared by the rotor at 20 m/s.

### OPTIONS

- Circulation propeller.
- Downthrust propeller.
- Disintegrating head.
- Upper suction head.
- Motor shroud.
- Other motor protection

### MATERIALS

- Parts in contact with the product : AISI 316L
- Bearing support : GG 25
- Mechanical seal Gaskets : SiC/C/EPDM

### DESIGN AND FEATURES

- High shear, particle size reduction to less than 100 microns.
- Various types of interchangeable heads.
- Slotted head (standard).
- Motors: IEC B5, IP55, F-class insulation



Circulation propeller.



Downthrust propeller.

**FVM-5**

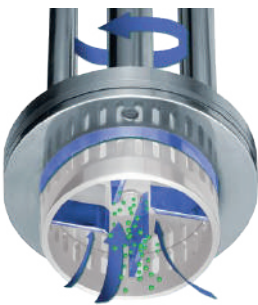
This head is the most popular combination high shear and flow rate efficiency

**FVM-6**

This head is suitable for use with higher viscosity products than any other head design

**FVM-7**

This head used for low viscosity products.



This head is the most popular combination high shear and flow rate efficiency



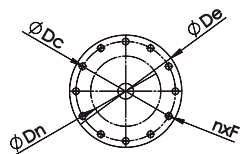
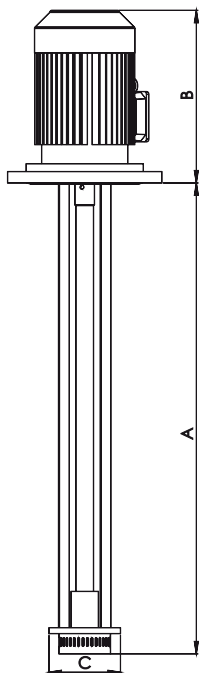
The product is sheared as it is forced through the stator by the rotor



A vigorous flow is generated below the liquid surface



The product is returned radially through the stator screen opening at high velocity



#### FVM VERTICAL MIXER

##### DIMENSIONS

TYPE	Ø DN	Ø De	Ø Dc	n*f	A	B	Ø C
FVM 30-011	150	285	240	8xØ18	750	258	125
FVM 30-040	200	340	295	8xØ18	850	355	170
FVM 30-075	250	395	350	12xØ22	1200	435	185
FVM 30-185	250	395	350	12xØ22	1400	525	210

##### CAPACITY

1 cpu	3000 cpu	additional ag.	Power (kw)	Speed (rpm)
300	100	200	1,1	3000
500	300	400	4	3000
1000	750	900	7,5	3000
1500	1000	1200	18,5	3000



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