

Slow Rotating Mixers (SRM)



PAKZIST MODERN

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Chemicals used in various industries are typically prepared in small tanks before being transferred to the reactor for chemical reactions. These preparation tanks have a capacity range of 100-5000 L and serve the following purposes:

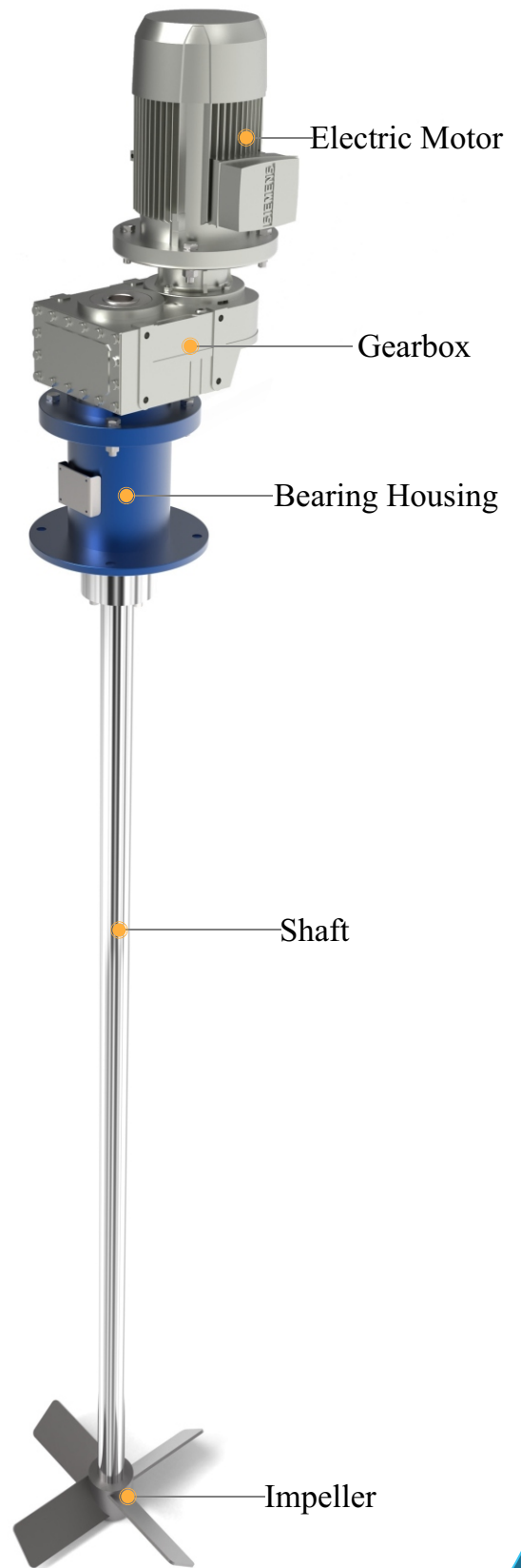
- 1- For dilution;
- 2- Changing the phase of chemicals, for example, solid to liquid;
- 3- Reaching growth stage and maturity of chemicals such as polymerization; and
- 4-Heat transfer.

SRM mixer is an ideal choice for achieving homogeneous solutions in various industries. Its properties can be considered from both dynamic and process perspectives.

In the rotary equipment industry, low rotation speed is directly related to an extended equipment lifetime. This extended lifetime is possible due to a longer lifespan of the bearing system, reduced shaft and impeller abrasion, and reduced temperature gradients.

In terms of the process perspective, reducing the rotation speed offers the following advantages:

- 1-Increased impeller diameter and consequently dead zones reduction in tanks;
- 2-Increasing fluid pumping by the impeller and producing a more homogeneous solution; and
- 3-Cavitation reduction and the corrosions as its result.



Features Of The SRM Series Mixers:

- Suitable for use in tanks of varying sizes, from small to large;
- The operating range of these mixers is from 0.2 to 5 m³;
- Capable of handling fluids with viscosities ranging from 0.5 to 500 centipoises;
- Higher lifetime;



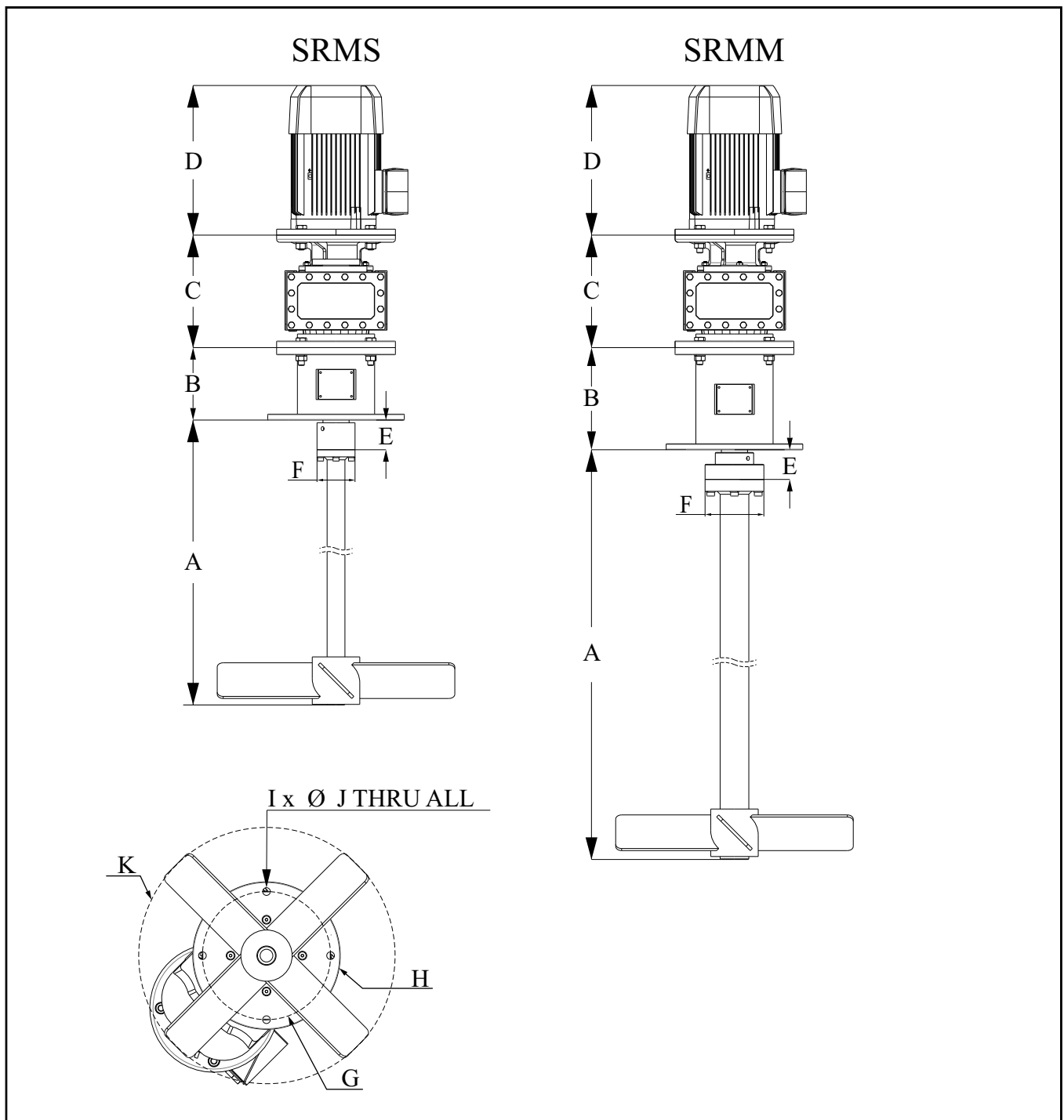
- Electrostatic housing painting;
- Suitable for use with explosion-proof electric motors;
- Split and direct shafts can be ordered;
- Produces minimal vibration and run-out during operation.
- Designed for 24/7 operation;
- These mixers can be ordered with ETFE and PE coatings, which have a high resistance against corrosive fluids.

Identity Code of SRM Mixers

Mixer Selection	
SRM	Slow Rotation Mixers
Mixer Version Indicator	
S	Small
M	Medium
Tank Capacity Indicator	
A	220 Liters
B	250 Liters
C	300 Liters
D	350 Liters
E	500 Liters
F	800 Liters
G	1000 Liters
H	1500 Liters
I	2000 Liters
J	2500 Liters
K	3000 Liters
L	4000 Liters
Impeller Type Selection	
1	Propeller With Zero Pitch
2	Pitch Blade Turbine
3	Saw Blade
Wet Parts Material	
S4	SS 304
S6	SS 316L
S8	Super Duplex SS
Powder Coating	
0	N/A
P	Polyethylene
T	ETFE
Electric Motor Selection	
A	IP 55 (STANDARD)
B	EX db IIB zone1
C	EX db IIC zone1
D	EX eb IIC zone1
E	EX ec zone2
Motor Supply	
1	Single PHASE 220/230 VAC
3	Three PHASE 230/400 VAC
Shaft Connection Type	
DC	Direct Coupling
FC	Flange Coupling
Housing Coupling Type	
1	Flange Type
2	Clamp Type
Housing Coating	
C1	Polyester
C2	Epoxy
C3	3 Layer Coating
Gearbox Selection	
U	SIEMENS
V	NORD
X	BREVINI
U	SIEMENS
V	NORD
X	BREVINI



Dimensional Drawing of SRM Mixers



Mixer Model	Motor Frame Size	Speed Range RPM	A	B	C	D	E	F	G	H	I	J	K
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SRMS	IEC80/90/100	20 ~ 400	600~1600	122	190	252/297/335	50	64	200	230	4	12(M10)	200~400
SRMM			1200~3000	172				99					250~600