

Compact stirrer SM

For tasks involving the stirring of aqueous products in small drums, we recommend a fast-running stirrer of type SM.

Construction

The stirring shaft is fitted directly to the drive with a hub coupling. The stirrer can be mounted onto a container using the motor's IEC flange. Alternatively the stirrer can be mounted using a clamp on the motor foot, suitable for mounting on traverses or stirrer stands; available on request.

Drives

The three phase standard motors are available in all common voltages and 50 or 60 Hz. Standard motors are in protection class IP55. Explosion proof motors according to ATEX standards are available on request. The drive bearings are permanently lubricated and require no maintenance. Motor speeds: 3000, 1500, 1000 and 750 rpm (at 50 Hz) are available in all stirrer sizes. Pole changeable motors available. ns.

Mixer shafts

The mixer shafts are dimensioned for continuous operation. The standard shaft is made of highly corrosion resistant SS 316 Ti. Other shaft materials or coatings can be ordered according to the application. Flanged- or quick-change-couplings can also be delivered on request. Each mixer shaft is tested and protocolled for true running in our works. Stirrer speeds are dimensioned with sufficient distance from the shaft's critical speed.

Stirring devices

Stirrers are fitted with interchangeable threeblade propellers, fixed to the shaft either directly threaded or with a hub and grub screws. Other devices such as dispersing discs, flatblade propellers or turbine-propellers can be quoted and dimensioned according to the application. For pass-through operation of the mixer occurring when filling and emptying of the vessel, propellers can be fitted with stabilising rings.

Materials

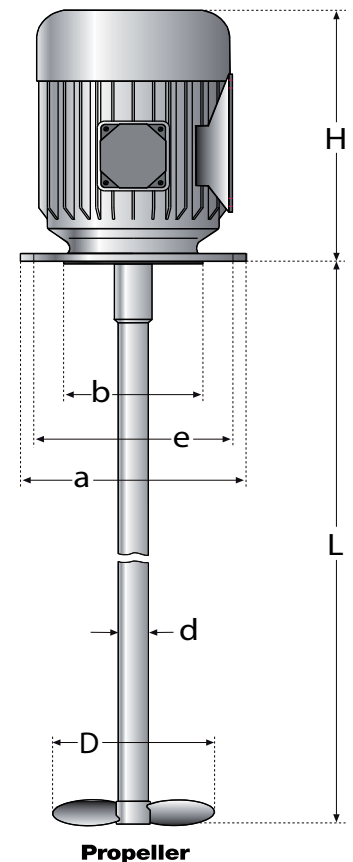
The mixer shafts and mixer elements are all made of stainless steel (316Ti) or unalloyed steel with PE-, hard rubber or PVDF-coating. Motor casing are painted silver with 2 component paint. Other RAL colours on request.

Stirrer mounting and shaft seals

The standard version of the FLUKO High Speed Mixer Typ SM is constructed for operation in open or closed non pressurised vessels. The mounting is made directly onto a counter flange. On request a motor flange/foot construction can be supplied. Various seals are available for the stirrer. From simple lip seals integrated into the mounting flange to mechanical seals or stuffing boxes mounted in special seal housings with or without pressurised quench systems. For mixer shaft-lengths over 1800 mm an additional shaft bearing in a special bearing-housing is available.



SM	Type		Output Data				Dimensions in mm							
	Motor rating kW **	Speed rpm	Through-put m ³ /h	Volume of the vessel, approx. from to, m ³ /h	L. max.	d	D	a for IEC Norm *	e	b	s 4 x s	H	approx. weight (kg) with L max	
12,6	0,12	1000	220	0,2	900	20	100	140	115	95	9,5	190	6,5	
18,4	0,12	1500	160		900	20	80	160	115	95	9,5	190	6,5	
12,8	0,18	750	340	0,2	900	20	150	200	165	130	11,5	205	12	
18,6	0,18	1000	260		900	20	125	160	130	110	9,5	182	9	
25,4	0,25	1500	200	0,5	900	20	100	160	130	110	9,5	182	9	
25,8	0,25	750	550	0,3	1000	25	175	200	165	130	11,5	220	22	
25,6	0,25	1000	450		900	20	150	160	130	110	9,5	205	10	
37,4	0,37	1500	260	0,8	900	20	125	160	130	110	9,5	205	10	
37,8	0,37	750	770	0,5	1100	25	200	200	165	130	11,5	220	25	
37,6	0,37	1000	740		900	20	175	200	165	130	11,5	205	12	
55,4	0,55	1500	400	1,2	1000	20	125	200	165	130	11,5	205	12	
55,8	0,55	750	1120	0,8	1100	25	200	200	165	130	11,5	275	28	
55,6	0,55	1000	740		900	25	175	200	165	130	11,5	220	14	
75,4	0,75	1500	680	2,0	1000	25	125	200	165	130	11,5	220	14	
75,8	0,75	750	1120	1,1	1300	30	225	250	215	180	14,0	305	36	
75,6	0,75	1000	1000		1200	30	200	200	165	130	11,5	250	22	
110,4	1,1	1500	1100	2,5	1300	30	175	200	165	130	11,5	250	22	
110,8	1,1	750	1600	1,5	1300	30	250	250	215	180	14,0	305	55	
110,6	1,1	1000	1500		1200	30	200	200	165	130	11,5	275	25	
150,4	1,5	1500	1100	3,5	1300	30	175	200	165	130	11,5	275	25	
150,8	1,5	750	2030	2,0	1300	30	275	250	215	180	14,0	305	78	
150,6	1,5	1000	1560		1400	35	225	250	215	180	14,0	275	30	
220,4	2,2	1500	1540	5,0	1500	35	200	250	215	180	14,0	275	30	
220,8	2,2	750	2030	3,0	1500	40	275	300	265	230	14,0	355	86	
220,6	2,2	1000	2100		1400	35	250	250	215	180	14,0	325	55	
300,4	3,0	1500	2240	8,0	1500	35	225	250	215	180	14,0	305	33	
300,8	3,0	750	2540	4,0	1500	40	300	300	265	230	14,0	415	94	
300,6	3,0	1000	2700		1600	40	275	300	265	230	14,0	355	78	
400,4	4,0	1500	2240	10,0	1500	35	225	250	215	180	14,0	325	55	
400,6	4,0	1000	3550	5,0	1600	40	275	300	265	230	14,0	415	86	
550,4	5,5	1500	3200	15,0	1800	40	250	300	265	230	14,0	415	78	
550,6	4,0	1000	3800	6,0	1600	40	300	300	265	230	14,0	415	94	
750,4	5,0	1500	4200	20,0	1800	40	275	300	265	230	14,0	415	90	



Propeller



Dispersing disc

* other flange sizes on request
** drive power up to 45 kW

Other variants

Type	Version	Application
SMD	Seal housing	Sealed against pressure and vacuum
SML	Bearing housing	Additional bearing of long shaft mixers
SMLD	Bearing and seal housing	Long shafts with seals