



PROCESS MIXERS

A-403J

DIRECT DRIVE MIXER



GEAR DRIVE and DIRECT DRIVE

For waste treatment neutralization, blending two or more liquids, or mixing liquids with solids

TYPICAL APPLICATIONS:

WASTE TREATMENT
FOOD PROCESSING
COSMETICS
CHEMICAL MANUFACTURING
PHARMACEUTICALS
PAINTS AND INKS

- For tank sizes to 4500 gallons
Pumping rate to 4500 GPM
- Single or dual propeller configurations
- Variable speed drive available for shear sensitive liquids
- Mixers for special applications available. Consult Sales Department

16

SPECIFICATIONS

Motor: 1750 RPM, TEFC electric or air operated

Gear housing: Heavy wall A-356-T6 heat-treated cast aluminum - polished before painting.

Mounting: Universal C-clamp (standard) or rigid cup plate mount.

Shaft: 5/8" - 1 1/2" diameter 316L stainless steel, centerless ground and polished for vibration-free operation.

Dual chuck set screws allow for shaft removal without disassembling mixer.

Propellers: Square pitch, 3 blade marine propellers or high efficiency impeller — 316L stainless steel.



Do not use on flammables or in a combustible atmosphere.
Consult Sales Dept. for mixers designed for this purpose.



SERFILCO DIRECT DRIVE MIXERS utilize a precision-bored shaft chuck connected directly to a 56C frame motor. Permanently lubricated chuck support bearing and elastomeric lip seal with garter spring means no contamination from lubricants and no maintenance. Operating RPM is 1750.

SPECIFICATIONS

MODELS	PUMPING RATE ¹ (GPM)	APPROX. TANK SIZE (GAL)	PROPELLER			SHAFT			MOTOR
			TYPE	DIAMETER (IN)		DIA (IN.)	STD LGTH (IN.)	OPT. LGTH (IN.)	HP
				SINGLE	DUAL				
SMD1025	230	up to 250	JP3	4.0	3.5	5/8"	42"	-	0.25
SMD1050	325	200-400	JP3	4.5	4.0	5/8"	42"	54"	0.5
SMD1010	445	250-500	JP3	5.0	4.5	5/8"	30"	-	1.0
SMD3010	445	300-600	JP3	5.0	4.5	1"	38"	50"	1.0
SMD3015	590	500-800	JP3	5.5	5.0	1"	38"	50"	1.5
SMD3020	770	600-1000	JP3	6.0	5.0	1"	38"	50"	2.0

¹ Data based on 100 CPS viscosity and specific gravity approximately equal to 1.0.

TO ORDER, use Price Code Number

FOR DIRECT DRIVE MODEL, SELECT MIXER, SINGLE OR DUAL PROPELLER AND MOTOR FROM TABLES BELOW.

EXAMPLE: Mixer + Propeller + Motor = Model = Price Code No.
 SMD3010 + 1 + 1 PHASE = SMD3010-1-G1.0 = 50-1241G

BASIC MODEL		PROPELLER				MOTOR					
MODELS	PRICE CODE NO	SINGLE PROP		DUAL PROP		115-230/1/60		230-460/3/60		AIR	
		MODEL	PCN	MODEL	PCN	MODEL	PCN	MODEL	PCN	MODEL	PCN
SMD1025	50-121	-1	1	-2	2	-G.25	G	-H.25	H	-AIR	R
SMD1050	50-122					-G.50		-H.50			
SMD1010	50-123					-G1.0		-H1.0			
SMD3010	50-124					-G1.0		-H1.0			
SMD3015	50-125					-G1.5		-H1.5			
SMD3020	50-126					-		-H2.0			

Direct Drive motor height -17½"

Air Drive height - 12"

OPTIONAL	ADD TO MODEL	PCN
Cup Plate Mount	-C	O-CM
Optional Length - Direct Drive	-OL	O-LD

NOTE: When the tank height is greater than 1¼ times the tank diameter, dual propellers should be used to assure complete mixing. The second propeller is generally located midway between the bottom propeller and the liquid surface. See Technical Bulletin TA-105 for selection guidelines.



SERFILCO DOUBLE REDUCTION HELICAL GEAR DRIVE MIXERS, AGMA quality 8, provide smooth, quiet performance. Mixer operating speed is 350 RPM. Heavy duty design offers more mixing capability than any other portable mixer. SMG40 models have integral motor / gear reducer. SMG50 models have separate motor and gear reducer.

SPECIFICATIONS

MODELS	PUMPING RATE ¹ (GPM)	APPROX. TANK SIZE (GAL)	PROPELLER			SHAFT			MOTOR
			TYPE	DIAMETER (IN)		DIA (IN.)	STD LGTH (IN.)	OPT. LGTH (IN.)	HP
				SINGLE	DUAL				
SMG4012	1230	750-1200	JP3	12.0	—	1"	38"	62"	1.0
SMG4013	1564	1200-1750	JP3	13.0	—	1"	38"	62"	1.0
SMG4014	1954	1500-2500	JP3	14.0	12.0	1"	38"/62" ²	62"/74" ²	1.0
SMG5015	2713	2000-3000	SC3	14.3	—	1.5"	68"	80"	1.5
SMG5020	3632	3000-4000	SC3	16.5	—	1.5"	68"	80"	2.0
SMG5030	4445	3500-4500	SC3	17.1	14.3	1.5"	68"	80"	3.0

¹ Data based on 100 CPS viscosity and specific gravity approximately equal to 1.0.

² Shorter length for single prop; longer length for dual prop

TO ORDER, use Price Code Number

16

FOR GEAR DRIVE MODEL, SELECT MIXER, SINGLE OR DUAL PROPELLER AND MOTOR FROM TABLES BELOW.

EXAMPLE: Mixer + Propeller + Motor = Model = Price Code No.
 SMG4014 + 1 + 1 PHASE = SMG4014-1-G1.0 = 50-1331G

BASIC MODEL		PROPELLER				MOTOR			
MODELS	PRICE CODE NO	SINGLE PROP		DUAL PROP		115-230/1/60		230-460/3/60	
		MODEL	PCN	MODEL	PCN	MODEL	PCN	MODEL	PCN
SMG4013	50-132	—	—	-G1.0	-H1.0				
SMG4014	50-133	-2	2	-G1.0	-H1.0				
SMG5015	50-134	—	—	-G1.5	-H1.5				
SMG5020	50-135	—	—	—	-H2.0				
SMG5030	50-136	-2	2	—	-H3.0				

Motor and gear box length - 22"

OPTIONAL	ADD TO MODEL	PCN
Cup Plate Mount	-C	O-CM
Optional Length - Gear Drive	-OL	O-LG