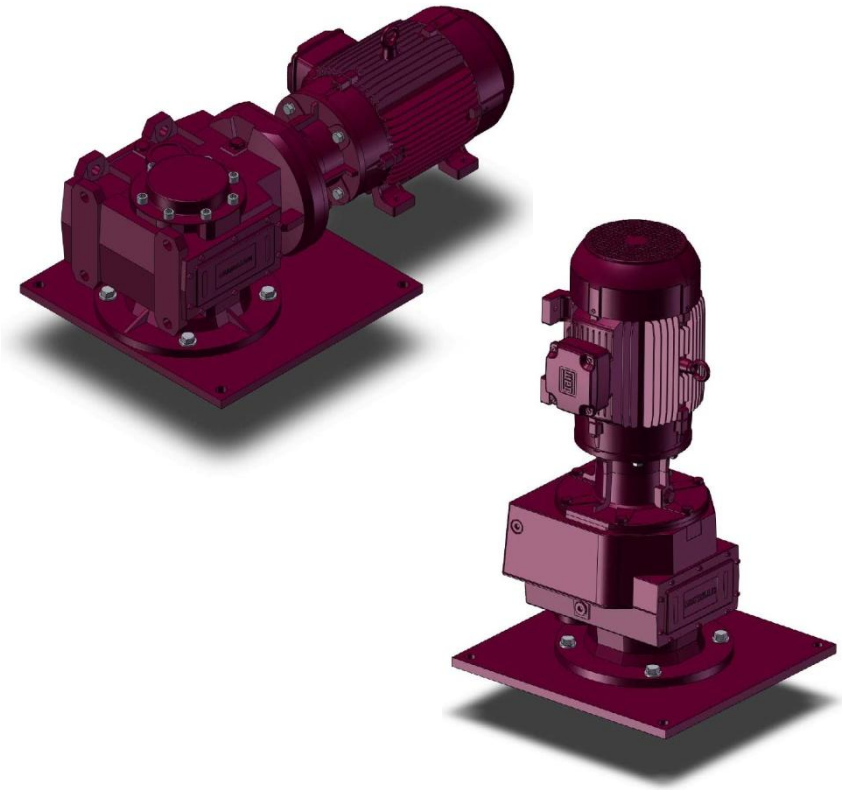
Scomi
EQUIPMENT INC

SCM-AGITATOR
STANDARD



The Scomi Equipment Inc agitator uses an impeller to mix and suspend the solids using both axial and radial flows. Using low shear mixers to suspend and mix mud additives will minimize particle size degradation and polymer shear. Unlike centrifugal pumps or mud guns, the agitator is a relatively low shear, low energy, easy to operate and inexpensive device to maintain.

CANTED BLADE IMPELLER

For most applications, canted blade impellers are suitable. Our canted blade impellers produce a combination of both radial and axial shear in the mud. We have models available in 45º or 60º as well as carbon or stainless steel make.

HYDROFOIL IMPELLER

Hydrofoil impellers produce the most efficient mixing while requiring the least power consumption. The hydrofoil impellers are available in carbon or stainless steel make.

FEATURES & BENEFITS

- The agitator features a rugged cast iron gearbox that houses a helical bevel gearing. Each helical bevel gear stage is 98% efficient. Unlike a typical worm gear set is only 85% efficient, since it loses most of its efficiency through the generation of heat
- Internal gears and bearings are lubricated with mineral oil. When the ambient temperature drops below 23ºF or rises above 140ºF, a synthetic lubricant should be substituted
- A unique feature of the agitator is its lower bearing, which can be maintained from the top of the tank. This feature eliminates the need for in-tank inspections of the lower bearing, and also provides a barrier of grease that can be expunged out of the lower seal. The lower seals are arranged to accommodate the grease pocket and make for a four- tier layer of protection for the gearing. The end result means the lower bearing stays in contact with good, uncontaminated lubricant at all times
- An external oil sight glass has been provided, so the oil level can be checked at a glance
- Vent plugs are supplied and installed in the gearbox housing to maintain a homeostatic internal pressure, which prevents pressure build-up that could blow out an oil sea

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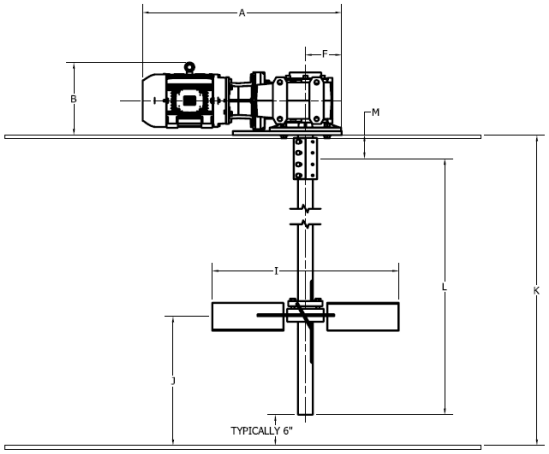
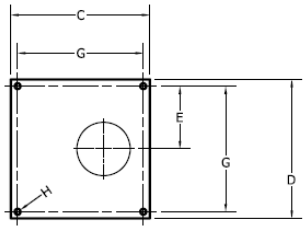
HORIZONTAL AGITATORS

Models	A	B	C	D	E	F	G	H	I	J	Tank Depth	Shaft Length
SCM-HAG5	32″ (813mm)	12-11/16″ (322mm)	21″ (533mm)	21″ (533mm)	9-1/2″ (241mm)	7″ (178mm)	19″ (483mm)	7/8″ (22mm)	See Note 1	See Note 2	K-M-6	4-5/16″ (110mm)
SCM-HAG7	36-1/16″ (916mm)	13-5/16″ (338mm)	21″ (533mm)	21″ (533mm)	9-1/2″ (241mm)	7″ (178mm)	19″ (483mm)	7/8″ (22mm)			K-M-6	4-5/16″ (110mm)
SCM-HAG10	38-7/16″ (976mm)	14-1/16″ (357mm)	21″ (533mm)	21″ (533mm)	9-1/2″ (241mm)	7″ (178mm)	19″ (483mm)	7/8″ (22mm)			K-M-6	4-5/16″ (110mm)
SCM-HAG15	40-7/8″ (1,038mm)	14-15/16″ (379mm)	21″ (533mm)	21″ (533mm)	9-1/2″ (241mm)	7″ (178mm)	19″ (483mm)	7/8″ (22mm)			K-M-6	4-5/16″ (110mm)
SCM-HAG20	45-1/2″ (1,156mm)	16-3/16″ (411mm)	21″ (533mm)	21″ (533mm)	9-1/2″ (241mm)	7-7/8″ (200mm)	19″ (483mm)	1-1/8″ (29mm)			K-M-6	5-5/8″ (143mm)
SCM-HAG25	47-9/16″ (1,208mm)	17-15/16″ (456mm)	21″ (533mm)	21″ (533mm)	9-1/2″ (241mm)	7-7/8″ (200mm)	19″ (483mm)	1-1/8″ (29mm)			K-M-6	5-5/8″ (143mm)

Note 1- *Recommend height fro impellers blades is 0.75 x Impeller diameter (off bottom of tank).*
Note 2 – *Measured from top of structure supporting agitator to tank bottom.*





Mounting Pattern

VERTICAL AGITATORS

Scomi offers a full range of vertical agitators from 5 HP to 25 HP.
Please CALL for dimensions.

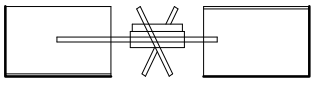
IMPELLER FLOW RATES

Impeller Diameter	Pump at 60 rpm	50 at 50rpm	Required Horsepower	Impeller Diameter	Pump at 60 rpm	50 at 50 rpm
28	2,375	2,212	3	42	10,584	8,468
30	3,288	2,721	5	45	13,018	10,415
36	5,682	4,702	7.5	48	15,799	12,640
40	7,795	6,451	10	50	17,457	13,965
42	9,023	7,468	15	55	23,403	18,722
44	10,375	8,586	20	60	30,550	24,440
48	13,470	11,147	25	65	39,006	31,204

We can assist in choosing the impeller size and material type that is best suited for your application.

Hydrofoil Impeller

Canted Impeller



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