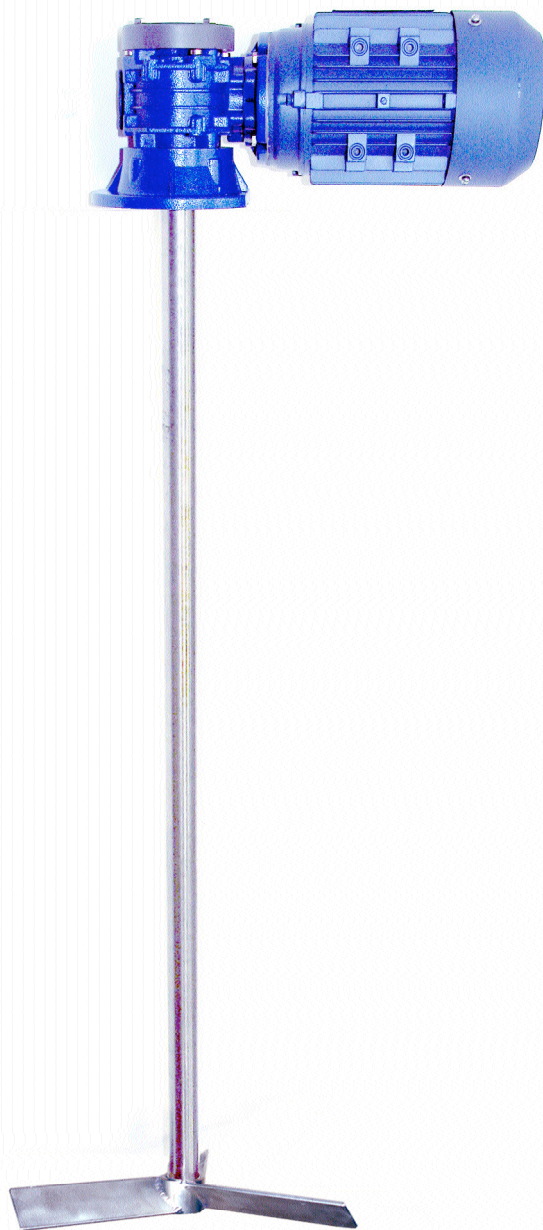




Geared Mixers Worm



The GMW range of mixers are of simple design and construction intended for light or medium duty use in the Effluent and Water Treatment Industry.

Featuring angle gearboxes where the motor is at 90° to the drive shaft with a worm geared drive from the motor. This provides a low installed height with the weight of the motor kept low which is useful when used with our range of dosing tanks.

The gearboxes are flange mounted with T.E.F.C. electric motors ranging from 0.18 kW to 3.0 kW. to IP55 specifications. Standard mains supply being 415V, three phase with the smaller mixers being available with 240V, or 110V motors. For hazardous area use flameproof Ex-D motors can be fitted to order.

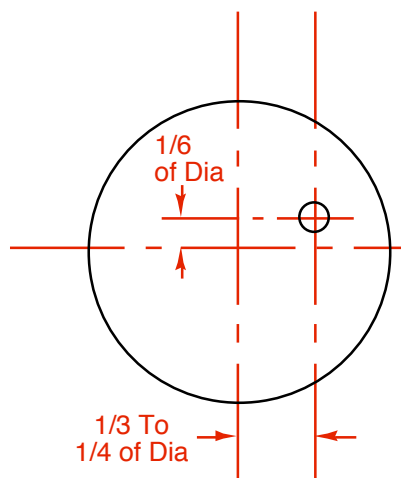
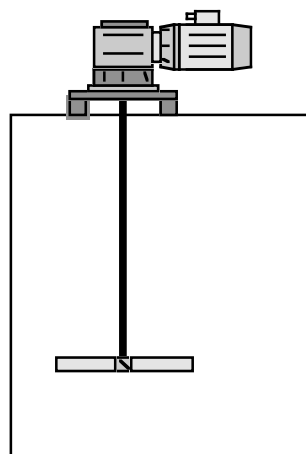
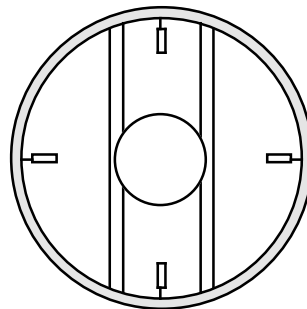
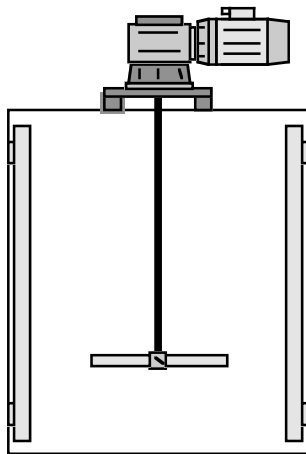
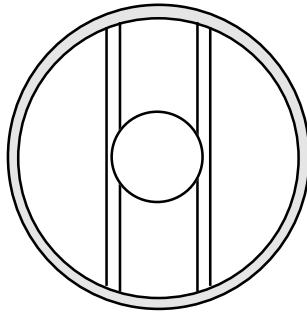
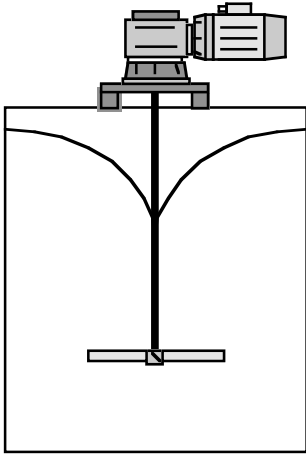
All the units have stainless steel shafts and propellers. The propellers being of the flat 3 blade type.

For vessels which are deeper than their diameter we can supply two impellers on the same shaft these mixers usually run at the lower speed ratio.

Also available are plastic coated propellers and shafts to provide greater chemical resistance when required.

MODEL								
Part No	GMW 01	GMW 11	GMW 2	GMW 21	GMW 3	GMW 31	GMW 4	GMW 41
Motor Supply	415v 240v	415v 240v	415v --	415v --	415v --	415v --	415v --	415v --
kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2	3.0
Speed RPM	140	280	140	280	95	190	70	140
Flange Dia mm	140	140	160	160	200	200	250	250
Hole Dia mm	4x9.5	4x9.5	4x9.5	4x9.5	4x14	4x14	4x14	4x14
PCD	115	115	130	130	165	165	215	215
Plate Hole mm	97	97	112	112	132	132	182	182
Prop Dia mm	250	250	300	300	400	400	500	500

Typical Installations



Geared Mixers

Installed with the shaft mounted vertically on the centre line of a vessel without baffles. With rotation clockwise when looking down the shaft so fluid is pushed down the vessel. This installation creates a circular vortex suitable for wetting light powders which normally tend to float but are drawn into the vortex. This position is not recommended for other types of mixing.

Installed with the shaft mounted vertically on the centre line of the vessel. Fitted with four strip baffles mounted vertically 90° apart with rotation clockwise when looking down the shaft so fluid is pushed down the vessel. This installation creates a turbulent fluid regime ideal for most mixing applications. Baffles should be approximately 1/12 the diameter of the vessel and spaced out 1" from the wall.

Installed with the shaft mounted vertically off centre without baffles with rotation clockwise when looking down the shaft so fluid is pushed down the vessel. The exact position depends upon the particular application and tank size. Provides good mixing without baffles. This technique places the propeller in a position which provides an acceptable flow pattern but inferior to a fully baffled tank.

AWE

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