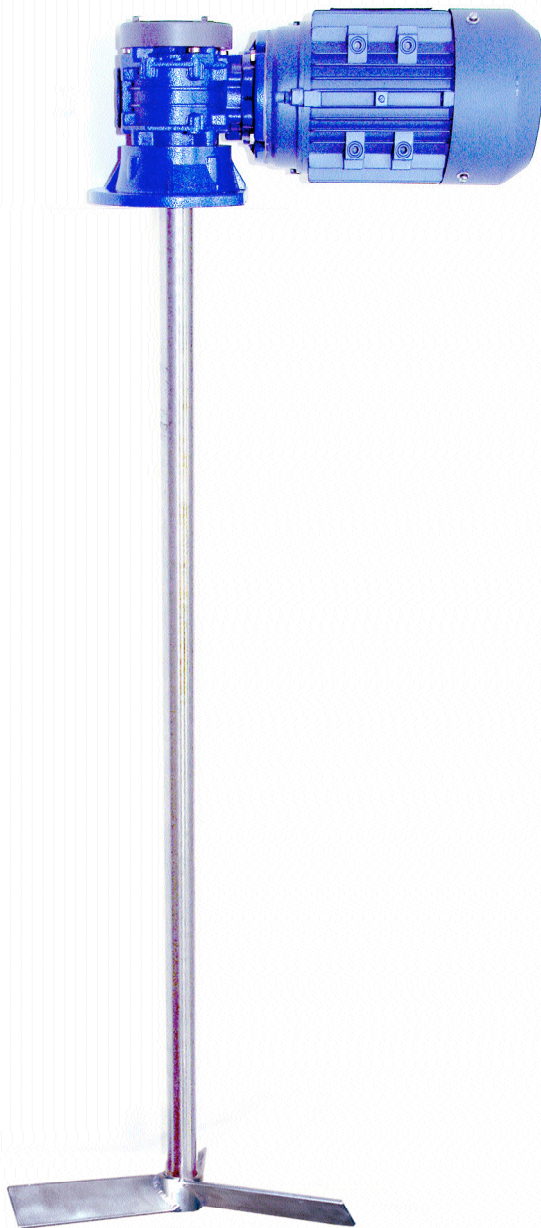




CHEMICAL SUPPORT SYSTEMS

DESIGN / ENGINEER / MANUFACTURE / INSTALL



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 90o 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.

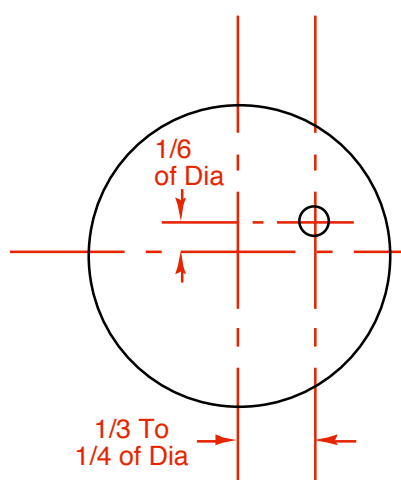
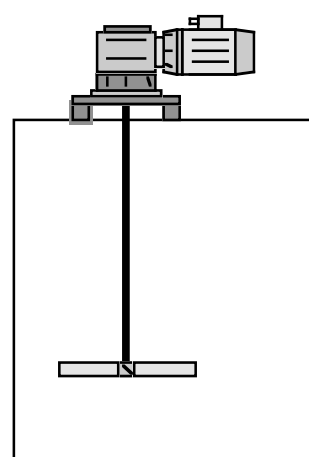
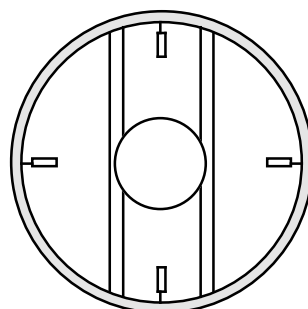
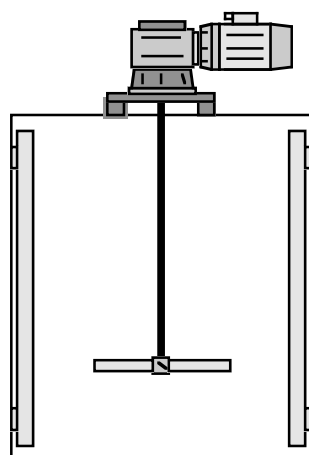
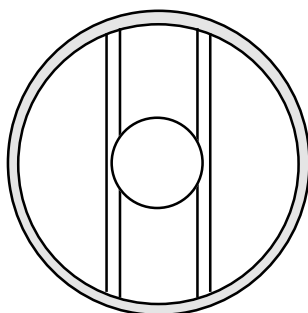
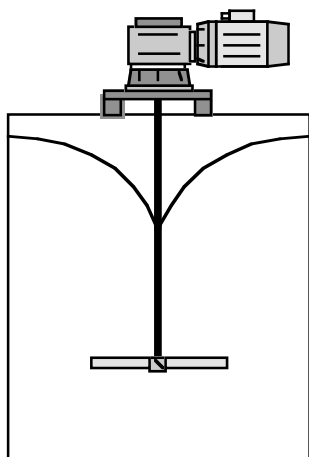
All the units have stainless steel shafts and propellers. The propellers being of the flat 3 blade type.

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.