



**THERMAL
PRODUCTS INC.**

Engineered Solutions To
Industrial Applications

BRAWN™ MIXER, INC.



TURNING PROCESS PROBLEMS INTO SOLUTIONS



MIXING SOLUTIONS

BRAWNTM MIXER, INC.

• Innovation • Service • Quality • Value

We build mixers that combine quality components and superior features with a competitive price ... You get the absolute best value in mixing equipment available ... You get **BRAWNTM** Mixers. Our mixer designs are inspired by decades of experience in the mixer industry. We have solved countless process problems and confronted every mechanical load variable unique to liquid mixing. Our goal is to provide you with guaranteed solutions.

FEATURES (BD & BGM Series)

- Modular design for interchangeability between direct drive and gear drive.
- All metal housings—high strength aluminum, or the option of stainless steel housings and motors.
- Flexible output coupling isolates the drive from shock loads.
- Lifetime lubrication of gear drives.
- Permanently sealed bearings prevent process contamination.
- A range of optional output speeds, to tackle your specific mixing jobs.
- Handles on portables designed for controllable, repeatable positioning.
- Standard NEMA C-Face motors assure ready availability of replacement motors.
- Energy- saving, AC electric motors with either 115/208-230 V single phase, or 208-230/460 V, 60 Hz, or 190/380 V, 50 Hz, 3 phase, with 1.15 service factor are standard. DC electric, and air motors are also available.
- The **BRAWN** Guarantee of Performance.

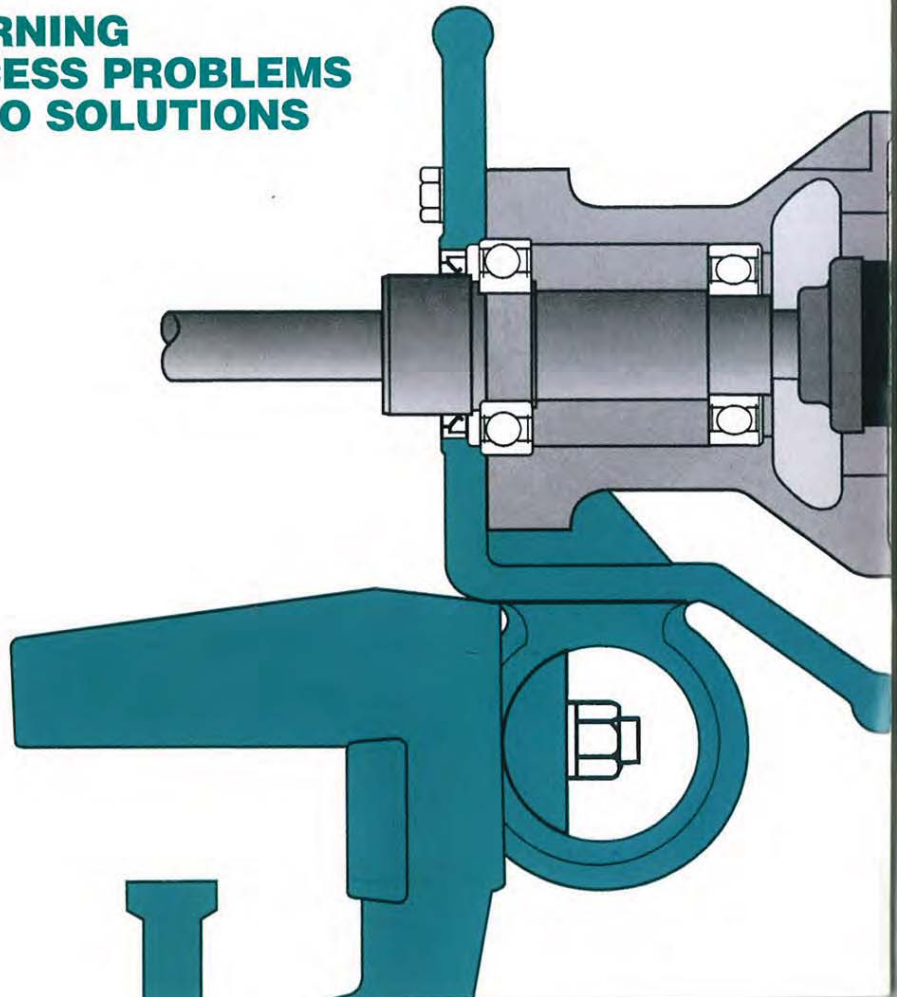
BD Series

These mixers provide unique features to benefit customers with extremely long life and serviceability. The modular construction gives users high-quality, rugged components in a design that allows interchangeability between direct-drive, gear-drive, fixed-mount, or portable-mount mixers. These mixers also offer a high capacity double drive bearing, providing a unique blend of load carrying capacity and smooth, quiet operation.



BDF DIRECT DRIVE
PLATE MOUNT

TURNING PROCESS PROBLEMS INTO SOLUTIONS



BGM Series

The BGM Series offers a compact, high capacity, helical gear reduction. The drive shaft is independently supported with two sealed, permanently lubricated bearings. NEMA C-Face motors from 1/3 to 5 HP are standard. Other motor options include DC with variable speed control, explosion-proof or air. *Best of all, the BGM utilizes the same modular design, with all metal housings, as the BD Series.* This means lower total cost for a mixer of superior quality and features.

BGM GEAR DRIVE
CUPPLATE MOUNT

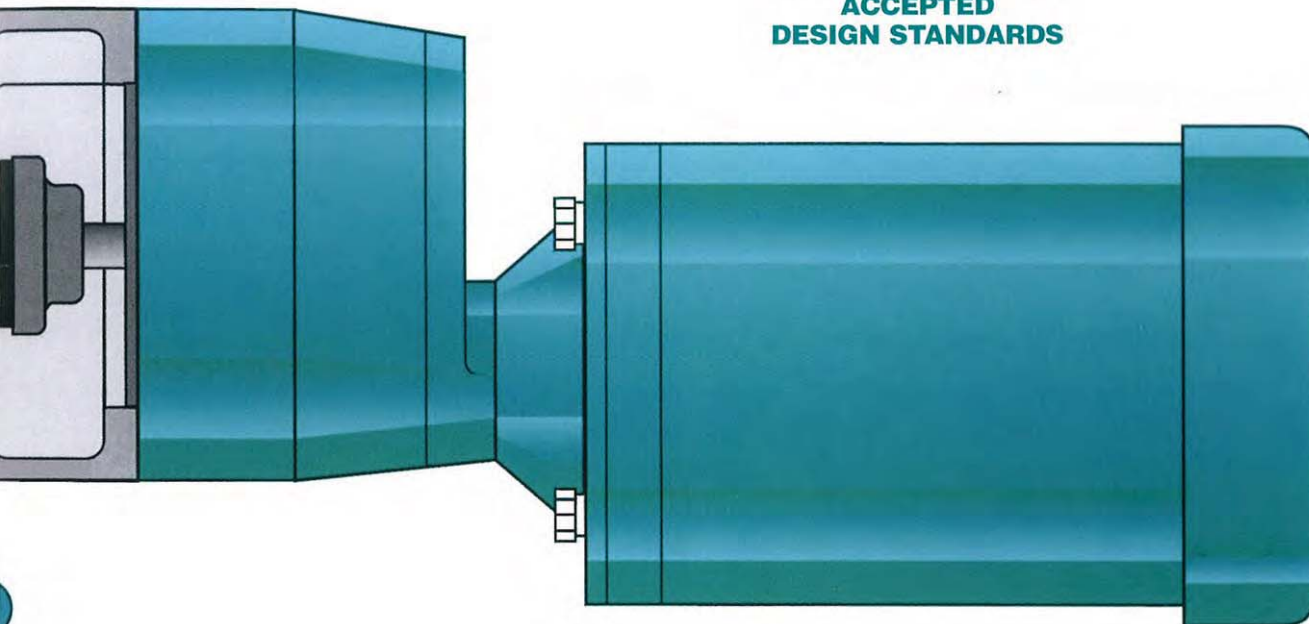


BDF and BGMF Series (Closed Tank Models)

Sealed tank applications are no problem for BRAWN'S BDF and BGMF models. In fact, BRAWN utilizes the modular design concept here as well, in order to maximize the options while minimizing the cost. Once you identify your process requirements, allow BRAWN Mixer Inc. to show you the best and most cost effective way to achieve the required solution. A wide variety of stuffing box and mechanical seal options are pre-engineered for quick delivery. See back cover.

BDF DIRECT DRIVE
WITH
MECHANICAL SEAL

**BRAWN MIXERS
ARE BUILT TO
INTERNATIONALLY
ACCEPTED
DESIGN STANDARDS**





OPTIONS

Mechanical Seals



Single Mechanical seals may be equipped with a sanitary gland, for food or pharmaceuticals.

Sanitary Fittings



Many BRAWN Mixers can be equipped with a sanitary fitting mount like this one.

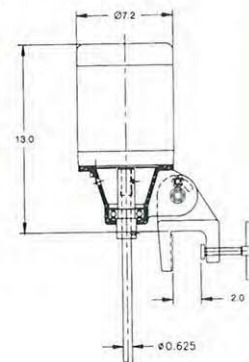
Impellers



A wide range of standard and custom impellers in a variety of sizes and configurations are available to your specifications and requirements.

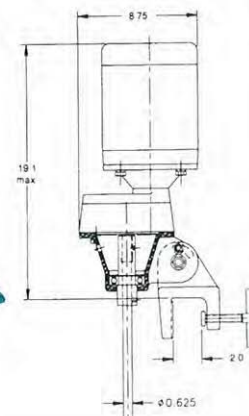
LD /SD Series

The LD/SD Series includes both single-phase and three-phase 1/3 HP motor options. Air powered and variable speed models are available. They are designed to mix water like fluids in volumes up to 200 gallons (757 liters), or up to 75 gallons (284 liters) of 250 centipoise. These high speed mixers provide a combination of high shear with good flow for low volume applications. The LD can be supplied with a drum adapter and folding impeller for entry through a 2" drum bung. The SD can be provided with a sanitary mount.

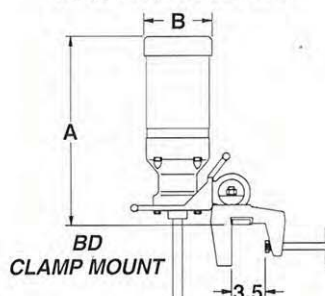


LG/SG Series

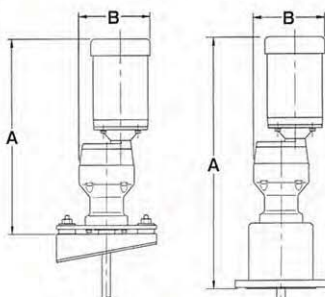
The LG/SG Series are gear drive mixers designed for mixing water like fluids up to 500 gallons (1893 liters), or up to 50 gallons (189 liters) of a 2000 centipoise material. It's a step up from the LD/SD in mixing capacity, but maintains the same affordable features. Available in either single or three-phase AC electric or with air motors or DC variable speed motors. Fixed speed models operate at a speed of 430 RPM. The SG adds the benefit of an oversize drive bearing, which provides for longer shaft lengths in deeper tanks.



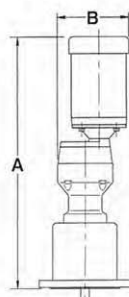
RIGID SHAFT COUPLING



BD
CLAMP MOUNT



BGMF
PLATE MOUNT



BGMF
CLOSED TANK

DIMENSION TABLE BD/BGM

MODEL	A	B	Weight*
	Min. Max.	Min. Max.	Min. Max.
BD	18.5"	7.2"	46 lbs
	22"	8.5"	79 lbs
BGM	23"	9.6"	69 lbs
	26.1"	10.2"	99 lbs
BDF Plate Mount	17.5"	7.2"	39 lbs
	23"	8.5"	94 lbs
BGMF Plate Mount	21.7"	9.6"	66 lbs
	27"	10.6"	131 lbs
BDF Closed Tank	25"	7.2"	71
	34"	8.5"	128 lbs
BGMF Closed Tank	30"	9.6"	97
	39"	10.6"	152 lbs

*Less Shaft and Impeller

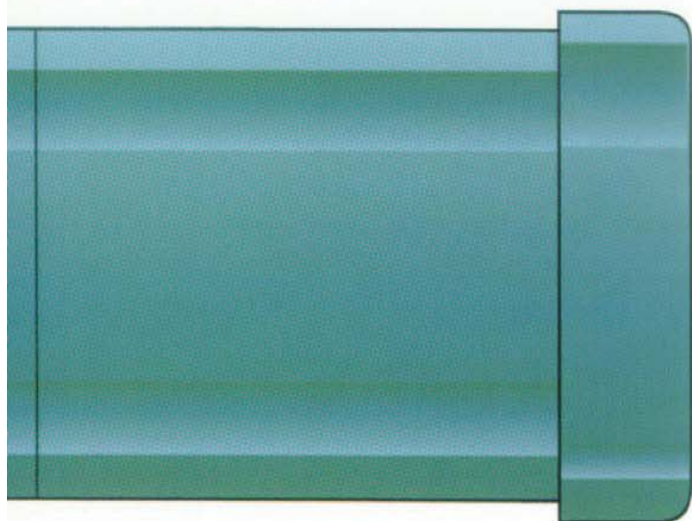
**BRAWN MIXERS
ARE BUILT TO
INTERNATIONALLY
ACCEPTED
DESIGN STANDARDS**



**BD DIRECT DRIVE
CLAMP MOUNT**



**BD STAINLESS
DIRECT DRIVE
CLAMP MOUNT**



**MIX &
MATCH**

**MODULAR
DESIGN
FOR
INTERCHANGEABILITY
BETWEEN
DIRECT DRIVE
AND
GEAR DRIVE**

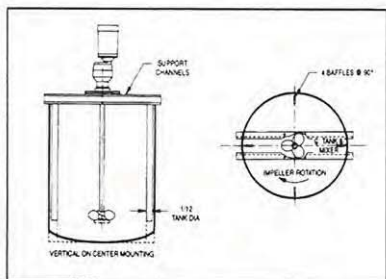
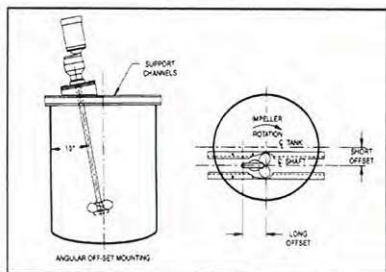
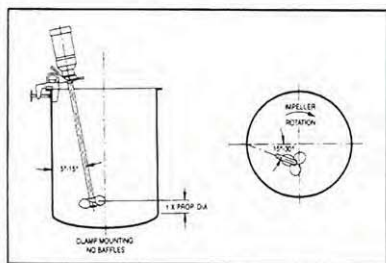


MIXING SOLUTIONS

Positioning/Mounting

Successful liquids mixing is a result of utilizing a correctly specified mixer *plus* the proper application of the mixer with the vessel. Mixers may be mounted by a variety of means.

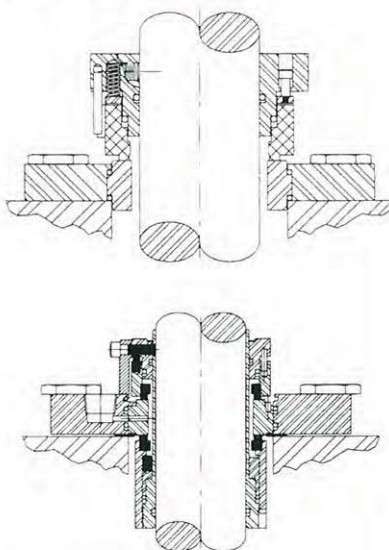
Many applications can be effectively mixed without tank baffles. To do this the mixer must be properly offset to position the shaft and impeller(s) to create top to bottom mixing without swirl. To achieve optimum mixing, the location of the impellers should generally be as illustrated. Centering, or locating incorrectly may produce a swirling effect and most likely a vortex. Except when wetting out powders, vortexing should usually be avoided.



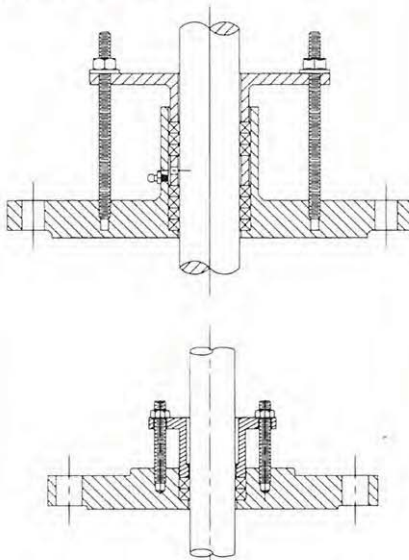
Baffled tanks should have their mixers mounted on center with the shaft in a vertical position.

Options/Variations

Mechanical Seals



Stuffing Boxes



The above are among the most popular of many seals options offered by BRAWN.

BRAWN...

Your Full Line Mixer Resource

BRAWN makes a full line of mixers to meet all your mixing needs. Call us for mixers up to 200 HP or if your process requires all stainless or corrosion resistant drives. Ask for the name of the BRAWN Sales Engineer in your area.



BRAWN GUARANTEE

BRAWN MIXER guarantees that in the case of failure due to faulty material or workmanship we will repair or replace the defective equipment for the first year after shipment. Furthermore, BRAWN will provide in writing a guarantee corresponding exactly with that of any other mixer manufacturer's guarantee when presented with written verification and a purchase order for the corresponding mixer.



BRAWN MIXER, INC. was founded in 1993.

Your BRAWN Representative:

BRAWN™
MIXER, INC.

