

### DMX 4000 Series

#### Utility for Your Process

The DMX 4000 is a utility mixer designed for high torque, single purpose applications. With a range of shaft and impeller options, we engineer and build these units to give you a custom solution at an economical "off-the-shelf" price.

The DMX 4000 Series is economically built, without stripping out the quality essentials. Auxiliary bearing included.

- ▶ Plate, flange or clamp mounted, the DMX 4000 can be adapted to suit your tank
- ▶ Permanently lubricated gearbox, minimizing maintenance costs
- ▶ External bearing, extending positive hold
- ▶ High flow, efficient Dynaflow™ impeller standard
- ▶ Mix it right with our Solution Assurance, available on the DMX 4000 Series



### Configuration Options

<b>Motors</b>	HP Range: ½ to 1	▶ Electric, TEFC, Single or 3 Phase
<b>Gear Reduction</b>	5:1, 10:1, 21:1	▶ Low RPM mixing with substantial torque available
<b>Mounting</b>	Clamp, Plate and Flange	▶ Adaptable to any type of tank
<b>Impellers</b>	Dynaflow™, P4 Pitch, Radial	▶ A full range enables your mixer to deliver perfect mixing quality
<b>Materials</b>	316SS, Custom Coatings	▶ All wetted parts material 316SS Standard, specialized coatings for added corrosion / abrasion resistance



#### THE DYNAMIX SOLUTION ASSURANCE

We provide performance-guaranteed solutions designed for your PRODUCT, PROCESS, and ENVIRONMENT.

# At Dynamix, we provide you with a SOLUTION, not just a mixer.



## The Difference?

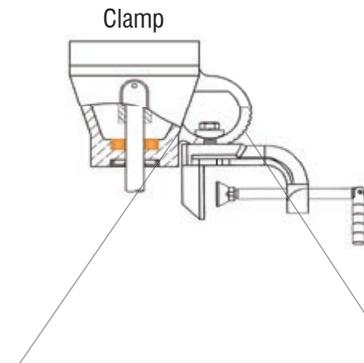
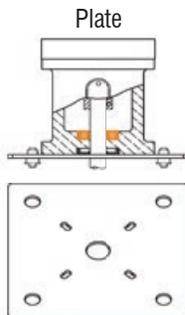
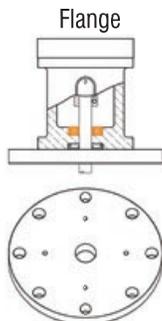
We consider your **Product**, **Process**, and **Environment**.

Our commitment to this is embodied by our **Solution Assurance** – our process guarantee.

## DMX 4000 Series Features

### ▲ Mounting Options

**FLEXIBILITY** We offer Pedestal Mount, Flange Mount, Plate Mount, and Clamp Mount.



### ▲ Auxiliary Bearing Configuration <sup>a/b</sup>

**DURABILITY** Most light duty mixers support their shaft with a narrow positive hold created by two small bearings in the drive unit. These were not designed to absorb agitator shaft deflection and withstand the excessive torque created by overhung loads. Dynamix uses an external, 1" auxiliary bearing in both Clamp Mount and Pedestal Mount options. The large external bearing transfers the positive hold lower on the shaft, creating a wide grip which isolates the load from the motor. The expanded positive hold increases the load capacity and durability of the mixer.

Do not accept aluminum as a clamp mount material. The clamping mount maintains substantial stress to endure the loads of mixing. We use cast steel for our clamp. This ensures secure mounting and long mixing life.

**CONTAMINATION** The mounts shown above include use a pedestal configuration to separate the gearbox from the output shaft. All gearboxes are grease lubricated (not oil), which reduces the potential for lubrication to follow the shaft into your application. Dynamix has added additional protection with a Double Lip Seal at the output end of the mount.

### ▲ Customizable Impellers <sup>c</sup>

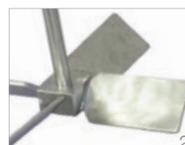
**OPTIMIZED MIXING** Impeller selection is a key point of any mixer configuration. Starting with the right impeller means the rest of the mixer can work in balance and provide quality mixing. Issues such as uniformity, area of influence, shear, solid suspension, and many others are addressed by the impeller selection.



**a** Clamp Mount directional ball joint pivots on two axes allowing mixing precisely where it is needed. Indexed to lock mixing position.



**b** Auxiliary bearing avail. with clamp mount (shown) and pedestal mount to limit overhung loads on drive.



**c** 1-Dynaflow™  
2-Pitch  
3-Radial

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