

### SMX Series Side Entry Mixers

#### ▲ Rugged Design for Heavy Industry

*When top entry mixing is not an option, the SMX Series is the most efficient approach to your mixing needs.*

The SMX Series side entry mixers are your best solution for providing basic sediment and water (BS&W) re-suspension, blending and temperature uniformity in large tanks.

Why? Because they've been engineered to be durable, leak-proof and easy to operate.



### Configuration Options

|                      |                      |  |
|----------------------|----------------------|--|
| <b>Motors</b>        | HP Range: 1 to 75    | ▶ Standard NEMA C-face motor   |
| <b>Gear</b>          | Helical Bevel        | ▶ 97% efficiency, minimum service factor of 1.5, AGMA 13                   |
| <b>Mounting</b>      | ANSI Flange Standard | ▶ Various sizes available  |
| <b>Seals</b>         | Mechanical Seals     | ▶ Single or double mechanical seals available as split seal or cartridge   |
|                      | Stuffing Box         | ▶ A full range of stuffing box configurations and components are available |
| <b>Tank Shut-Off</b> | Optional             | ▶ Designed to be simple to use, and leak-proof                             |
| <b>Impellers</b>     | Dynaflow™            | ▶ A full range available on request  |



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

The Difference?

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

## SMX Series Industrial Agitators

### ▲ Gear Drive <sup>a</sup>

**EFFICIENT PERFORMANCE** With AGMA 13 rated Helical Bevel gears, we attain efficiencies of up to 97%, when compared with traditional right angled gearboxes.

**HEAVY DUTY** Our gearboxes are selected with a minimum 1.5 service factor. When combined with oversized tapered roller bearings, ISO L-10 life will significantly exceed the standard minimum 100,000 hours.

### ▲ Mechanical Seals <sup>b</sup>

**LEAK-PROOF OPERATION** While cartridge seals come standard, other optional configurations include stuffing box, split seals, and double mechanical seals. Have a specific brand in mind? We can install to match what customers have in their plant.

### ▲ Tank Shut-Off System <sup>c</sup>

**SAFETY MEASURE** Designed with easy maintenance in mind. Our unique tank shut-off configuration allows you to seal the tank and easily replace the seals without draining the tank. All tapered faces are wear and corrosion resistant.

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

Impeller selection is key to mixer configuration. Starting with a suitable impeller means that the rest of the mixer can work in balance and provide quality mixing.

**HIGH-EFFICIENCY DYNAFLOW™** These standard airfoil blades are designed to maximize pumping for side entry applications, creating the best blending per horsepower.

**P3B MODIFIED PITCH-BLADE** For higher shear applications, this impeller bridges the higher efficiency of the Dynaflow™ impeller with the more intimate mixing capabilities of a Pitch blade.



d 1 - Dynaflow™ 2 - Modified Pitch

### ▲ Low Maintenance Operation

With the use of synthetic lubricants, gearbox maintenance is limited to oil change service every 20,000 hours.

### ▲ Construction Material

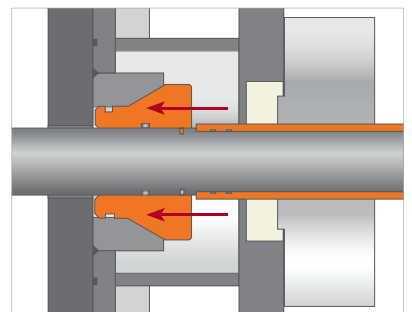
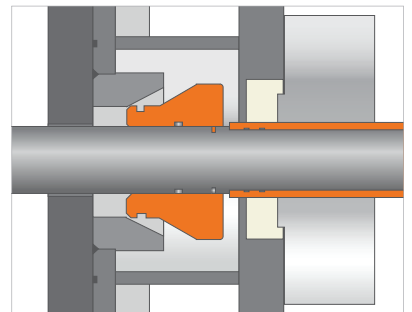
Carbon Steel or Stainless Steel are standard. Other materials or coating options to address issues such as abrasion / corrosion resistance are also available.



a Heavy-Duty Helical Bevel Gearbox



b Split Mechanical Seal



c Tank Shut-Off System

