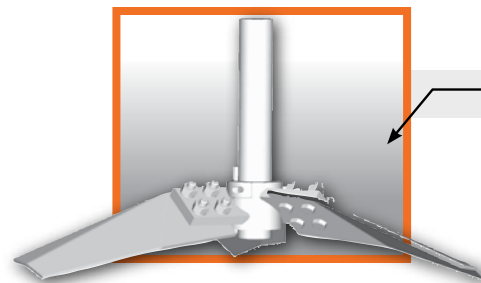




Impellers

Philadelphia Mixing Solutions, Ltd. has a broad range of durable, efficient impeller designs for axial, radial, or mixed flow to meet your specifications. A sampling is shown below.



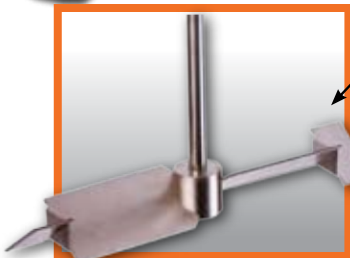
Low Solidity Hydrofoil (LS)

For low viscosity fluids, solids suspension, blending, flocculation. The most flow efficient impeller for low viscosity. Maximizes flow with ability to add shear options.



Modified High Solidity Hydrofoil (MHS)

For medium and high viscosity blending, high concentration solids suspension, gas dispersion. Both up pumping and down pumping capabilities. The most flow efficient impeller for high viscosity.



CounterFlow Impeller

For viscous fluids, polymerization and emulsification processes. Especially suited for application with high viscosity/shear thinning and water-like fluids in the same vessel. Extremely energy efficient. Eliminates stagnant zones in the vessel.



Talon Low Speed Surface Aerator

Superior performance for oxygenation and mixing. Improves effluent quality. Energy efficient.



Phone: **1-800-95-MIXER**
Phone: **+44 (0)1635 275300**
www.philamixers.com



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The RAVEN™ 3800 Series Mixer Drive

A Longer Lifetime With Maximum Efficiency

PEOPLE

PROCESS

PRODUCTS

PERFORMANCE



Specifically designed to withstand heavy-duty loads. Built for maximum life at the highest efficiency and backed by our 50+ years of experience.

Raven™ 3800 Series



The rugged Raven mixer drive is a high quality performer built for virtually any application, from critical to routine. This superior mixer drive withstands corrosive and caustic environments, high temperatures, harsh conditions, and fluctuating loads.

Developed to handle even the most rigorous processes, the Raven mixer drive incorporates the latest design advantages and improvements to ensure proper results for all your mixing operations. The Raven mixer drive provides long, reliable and trouble free service.

PILOTED C-FACE MOTOR MOUNT DESIGN

No need for high-speed motor alignment or shimming

- Highly efficient and durable C-Face piloted motors.
- Eliminates foot mounted alignment issues.
- Vertical lifting lugs provide safe motor installation.

GUARDIAN PACKAGE

Innovative tool for your oil maintenance program

- Provides simple, fast, accurate oil sampling.
- Desiccant filter prohibits moisture and contaminants at the front end.
- Helps reduce maintenance costs by minimizing wear from contaminated oil.

SHAFT DESIGNS

Minimum output shaft deflection minimizes wear failures

- Output shaft is engineered with drive sleeve allows maximum shaft and material configurations.
- Unique dry well designs and end covers minimize leak paths and vibration from motor output speed variations.
- "Hollow Quill" design available.

PINIONS AND GEARS

Precision gearing with minimum AGMA 10 quality

- Carbonized, ground helical gears provide quiet operation with greater shock load capacity.
- Precision lapped spiral bevel low speed gear set provides smooth operation.
- Bevel gear straddles low speed bearings, minimizing gear deflections.

BEARINGS

Bearings effectively handle overhung and fluctuating loads to ensure reduced bearing and mixer failure.

- Pre-lubricated with minimum B-10 rating of 100,000 hours.
- Precision taper roller bearings are factory set for accuracy.
- Oversized output shaft bearings handle high shock and large overhung loads.

MIXER HOUSING

Manufactured to ensure durable, reliable, and safe operation

- Closed grain cast iron construction for strength.
- Precision machined and validated to maximize bearing life.
- Designed to drain completely during oil changes.
- Safe 3-point lifting pattern.
- Inspection windows allow convenient internal inspection without removing motor or end plate.

Quill shaft design with pedestal mount



Solid shaft design with pedestal mount



Solid shaft design with base plate

