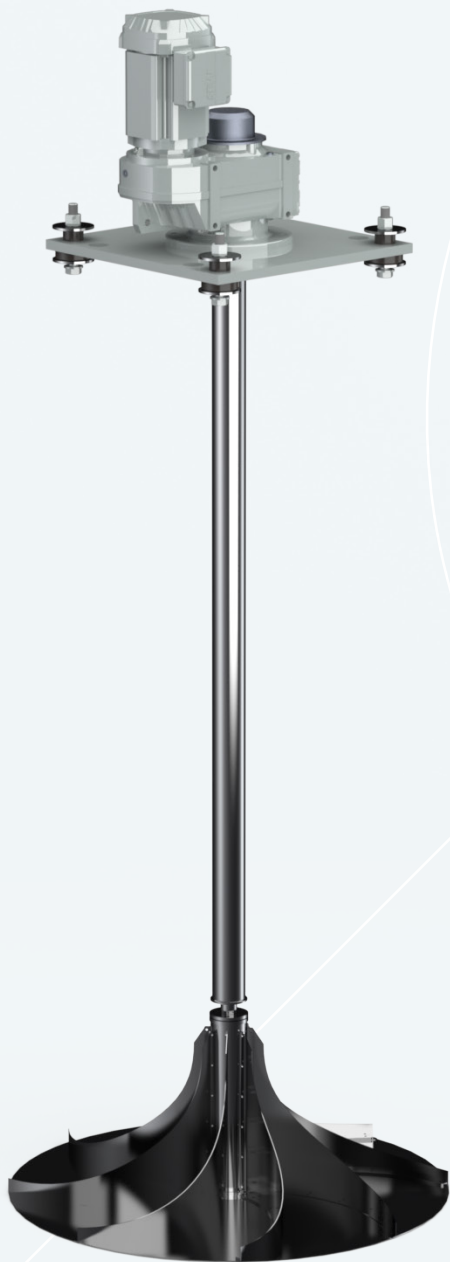


DBS[®] MANUFACTURING

ENGINEERED FIRSTS | BUILT TO LAST



Industrial | Mixers

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DBS MANUFACTURING, INC.

DBS Manufacturing is a successful, privately held business that designs, manufactures, and provides application engineering for products sold to original equipment manufacturers, end users, and municipal and industrial facilities around the world.

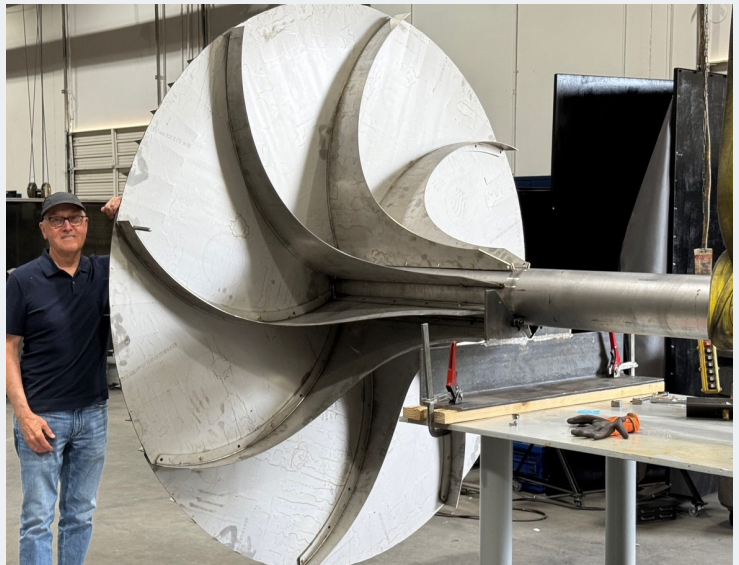
Industrial Mixing

DBS Manufacturing provides custom solutions for many unique, demanding mixing applications. DBS industrial mixers are made for OEM applications, retrofit installations, and custom process equipment.

All DBS equipment is powered by high-efficiency, severe-duty, inverter-duty rated electric motors up to 100-HP. They also come with high-efficiency, severe-duty gear reducers with a high service factor for a long, reliable life.

Pictured is DBS Manufacturing founder Nils Young with the rotor and motor for the largest Hyperbolic Mixer ever built. Fabricated from super duplex stainless steel, the rotor was over 8 ft (2.5 m) in diameter and the shaft was 54 ft (16.5 m) long.

Rotors and drive shafts can be made from corrosion resistant material such as super duplex stainless and nickel and monel alloys for mixing highly corrosive solutions.



HYDROFOIL MIXER

DBS Hydrofoil Mixers can be custom built to meet specifications or replace failed equipment. They are designed for high-efficiency performance with curved blades, which produce strong axial flow with low shear and minimal energy consumption. Special coatings and materials are available upon customer request.

ELECTRIC MOTOR

A high-efficiency, inverter-duty motor. Applications requiring special motors or higher HP can be accommodated.

GEAR REDUCER

The high-efficiency design of the speed reducer minimizes parasitic power losses and maximizes power transfer to the water. The speed reducer is selected with high service factors, ensuring a calculated lifespan exceeding 100,000 hours.

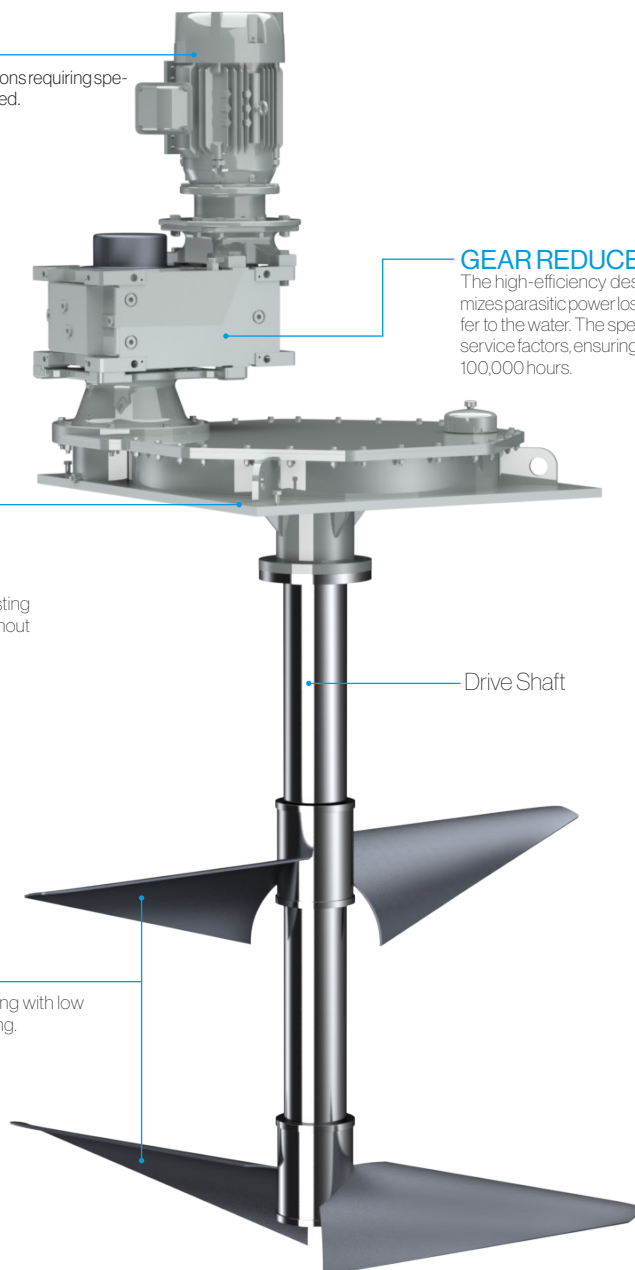
BASE PLATE

Base plates can be customized to match existing infrastructure and allow retrofit installations without major conversion.

Drive Shaft

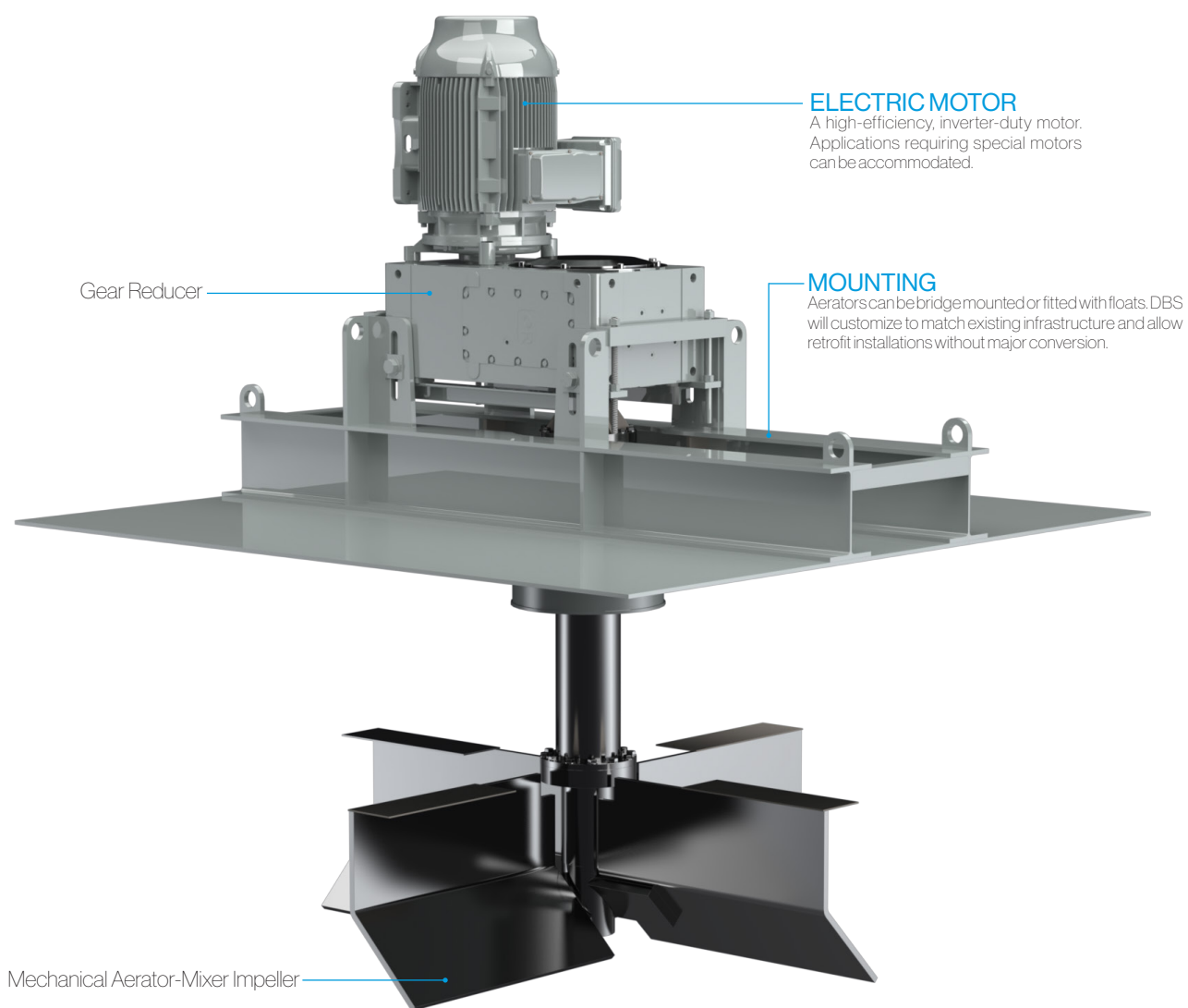
IMPELLER

The hydrofoil impeller delivers high flow mixing with low shear, making it an ideal choice for gentle mixing.



M100 AERATOR-MIXER

The DBS M100 is a 100-HP mechanical aerator and features a severe-duty, VFD compatible motor. To ensure long-term reliability in demanding environments, DBS offers a range of corrosion-resistant options, including galvanized components, stainless steel or brass construction, and specialized protective coatings. This aerator-mixer is used on an enclosed pure oxygen aeration tank.



M340 AGITATOR-MIXER

DBS Agitators are engineered for mixing in demanding industrial environments. This M340 has a 40 HP motor and is configured for an output RPM ranging from 2.5 to 9 RPM. These machines deliver consistent performance, long service life, and reliable operation.

ELECTRIC MOTOR

A high-efficiency, inverter-duty motor. Standard motors are available up to 100 HP. Applications requiring special motors or higher HP can be accommodated.

High-Efficiency Gear Reducer

GEAR BEARING

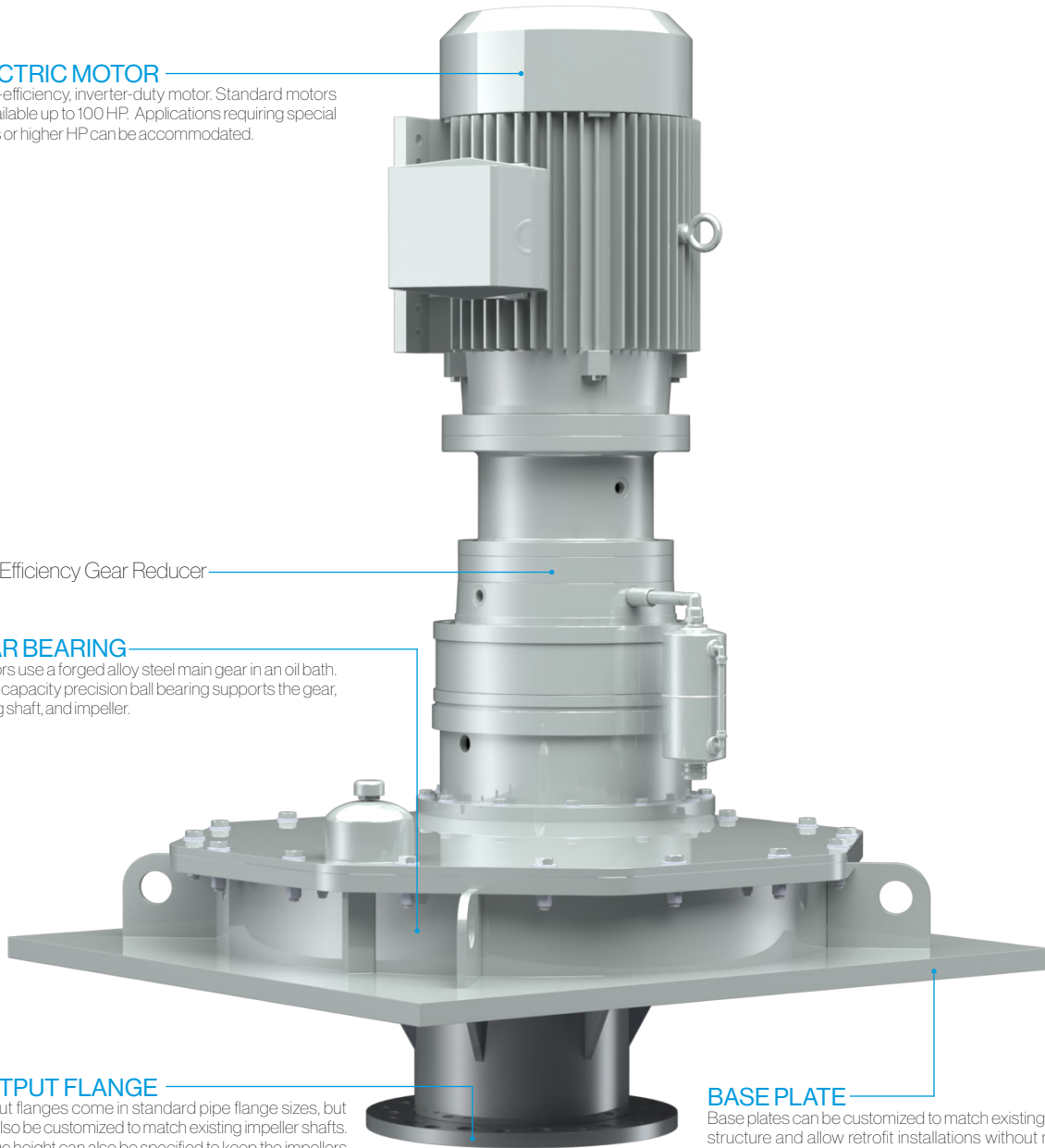
Agitators use a forged alloy steel main gear in an oil bath. A high-capacity precision ball bearing supports the gear, rotating shaft, and impeller.

OUTPUT FLANGE

Output flanges come in standard pipe flange sizes, but can also be customized to match existing impeller shafts. Flange height can also be specified to keep the impellers at the same depth after upgrading.

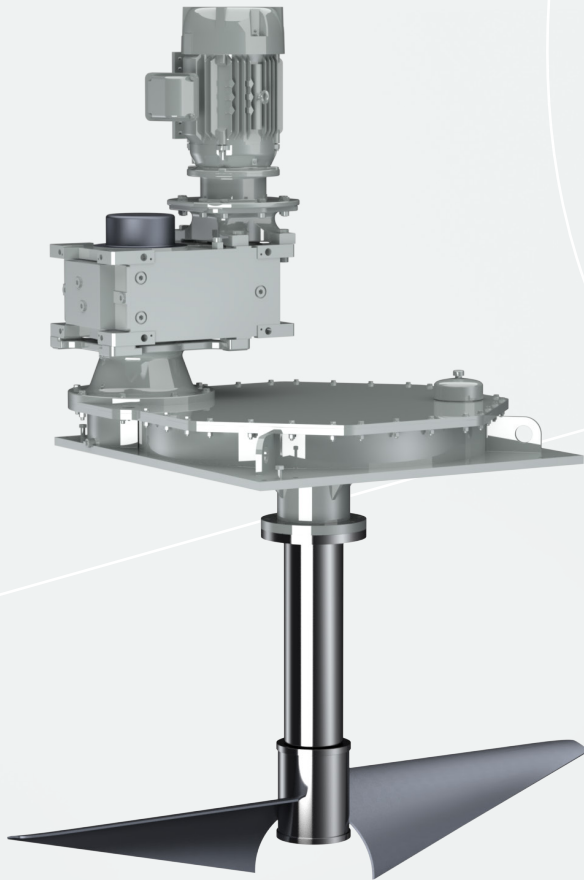
BASE PLATE

Base plates can be customized to match existing infrastructure and allow retrofit installations without major conversion.



DBS[®] MANUFACTURING

- Clarifier & Thickener Drives
- Hyperbolic Mixers
- Low-Speed Surface Aerators
- Rotary Distributor Center Mechanisms



Industrial Mixing

M-SERIES
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