



**CLEVELAND**  
**MIXER**  
EST. 1940

**CLEVELAND MIXER**  
4 Heritage Park Rd.  
Clinton, CT 06413

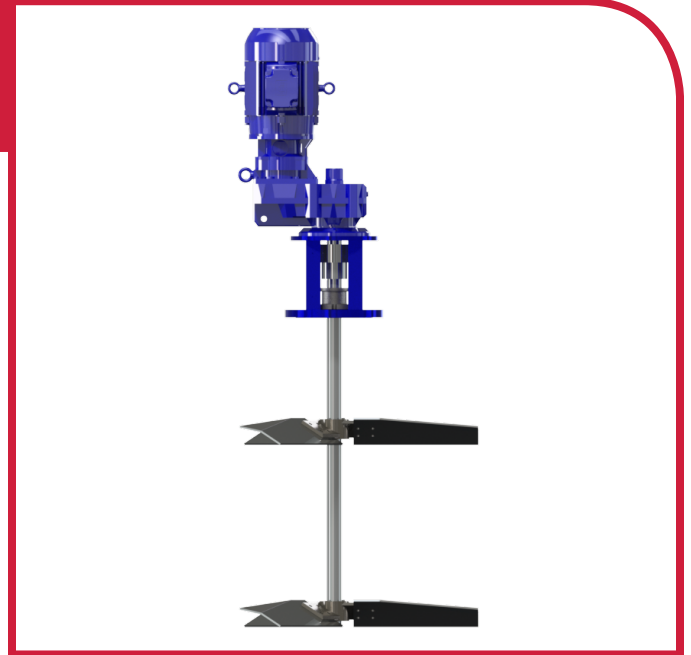
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## MTD TOP ENTRY MIXER

### MTD SERIES

- » **DESIGNED** for applications from 1,000 to 200,000 gallons.
- » **BROAD RANGE** of output ratios, output shaft diameters and features.
- » **ENHANCED** rigid gear reducer design supports long, cantilevered impeller shafts without compromising longevity or reliability.



### **SUPER ROBUST, EXCEPTIONALLY RELIABLE**

The Cleveland Mixer MTD series features a high efficiency — up to 98% — parallel shaft gear reducer. While most mixing can easily overload ordinary, commercial gear reducers, the MTD's ultra rigid, single piece, high density, cast iron housing creates the foundation of bearing strength for long life of trouble free service. Oversized gussets at each bearing location and oversized bearings enable the MTD to bear the high bending and torque loads that are typical with most mixing applications.

Our MTD product line is designed for the harshest process conditions. All selections are rated for AGMA III conditions — continuous operation under extreme shock loading.

The product range is from 1 HP to 75 HP with output shaft diameters from 1.25 to 4.50 inches. Mixing volumes up to 200,000 gallons can be handled with generous design margins — all in a compact and efficient package. The product line has nine different sizes which offer B10 bearing lives in excess of 100,000 hours as a minimum.

The MTD series also offers a unique bearing and shaft support pedestal that allows the impeller shaft to re-

main in place while the gear reducer is removed from service for overhaul. The MTD top entry mixer is designed per your application demands. High efficiency hydrofoil impellers, radial and axial flow impellers are offered. Additionally, we can offer gas dispersion, up flow, counter flow and high shear blades depending on the needs of your application.

Like our other top entry agitators, we back our products with a 3 year mechanical warranty and a process guarantee.

### **RESILIENT, CUSTOM DESIGN**

Near silent operation from high tensile and case hardened steel gear wheels. Gearing is hardened to 62 HRC that is impervious to shock. Gear teeth flanks are hobbed and ground. Unique heat shrunk high speed pinion gear that does not flex and guarantees precise tooth matching. High tensile strength gear reducer casting.

Open and closed tank options. Single and double mechanical seals, dry or lubricated: your application, designed for high runout and vapor space condition.



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Wide variety of commercially available c-face mounted motors for ease installation, maintenance and low cost. For select applications, an integrated gear motor is available.

Nearly silent operation and 95+% efficient, helical gearing. Rigid high speed pinion mount for less vibration and more bearing life. First service interval is 15,000 hours.

Minimum 60-62 Rockwell hardness for all gearing. Gearing made from high tensile steel that is case hardened.

Engineered and optimized for your application, impellers are optimized from 7 different families, (high efficiency, axial flow, high solidity ratio, radial flow, gas dispersion, solids suspension and high shear).

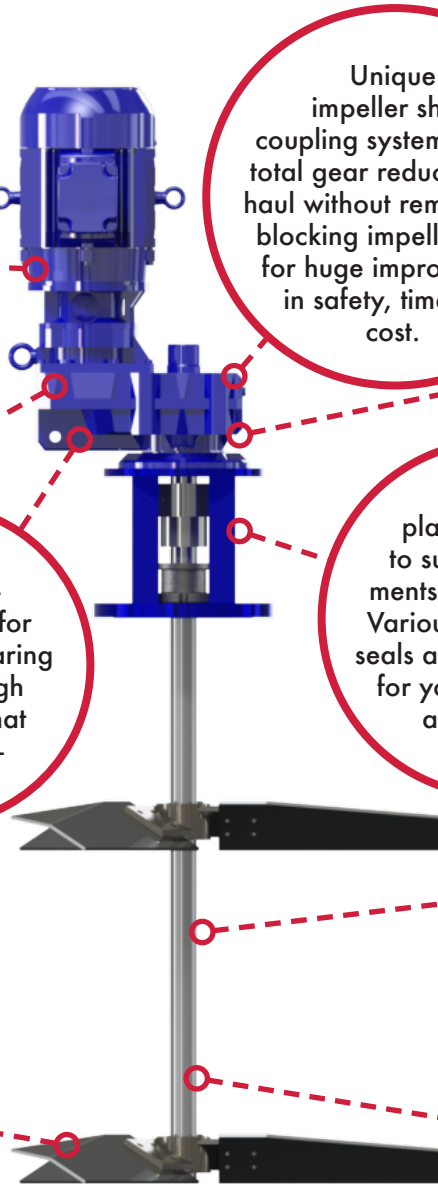
Unique impeller shaft coupling system allows total gear reducer overhaul without removing or blocking impeller shaft for huge improvement in safety, time and cost.

Very high mechanical and thermal HP service factors. All gear reducer selections are based on AGMA III conditions, continuous duty, severe shock load.

Mounting plates available to suit the requirements of your facility. Various impeller shaft seals are also available for your closed tank applications.

Pump shaft quality impeller shafts resulting in greatly reduced system vibration.

Minimum 3.0 service factor for impeller shafts for superior durability.



**Why choose Cleveland Mixer for all your fluid process applications?**

- » **APPLICATION ENGINEERING**—your process goals are our top priority
- » **DESIGN FLEXIBILITY**—let our engineering team create solutions for you
- » **INDUSTRY LEADING DURABILITY** and 3 year guarantee

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