

# The **UNICAGEAR** Value Proposition

Feature	Value
Industrial Design	High-strength materials and robust part design mean trouble-free performance in your most critical of applications. No problematic mechanical seals, no overhung bearing loads mean increased MTBF and MTBPM.
Materials of Construction	All wetted components are completely non-metallic. Standard pump components satisfy a broad range of highly corrosive and/or toxic services. No expensive alloys that can corrode and wear.
Dry Run Capabilities	Allows for up to 30 minutes of safe-running during system upset conditions where a suction valve has been shut or supply tank emptied. Many other pump designs cannot tolerate such conditions without catastrophic damage.
Sealless Design	No mechanical seal to wear and leak. Zero leakage of hazardous or regulated chemicals. No expensive seal flush systems required for double mechanical seals.
Front-Pullout Design	All typical wear components can be easily replaced by removing the front cover only. No need to disconnect piping or motor connections. Reduced pump down-time for repair or scheduled maintenance.
Minimal Number of Parts	Advanced design utilizes a fraction of the parts used in other pump technologies. Fewer parts make it easier to inventory, maintain and service.
Patented Housing Insert	Transfers wear from center housing to the insert. 100% renewable performance with the change of a KOPKit. No need to replace expensive center housings to achieve “as-new” performance.
Efficiency	Ideally suited for low flow operation where centrifugal pumps perform inefficiently and can experience cavitation, increased radial loads and unstable flow.
Ease of Inventory	Limited options and universal components make this the ideal pump to inventory. “Standard” pumps can be used for nearly all your applications, regardless of fluid characteristics and motor horsepower.
Cost Savings	When compared to centrifugal pumps, Eclipse has a smaller installed footprint, lower required horsepower and shipping weight. This means dramatic costs savings throughout the life of the pump.
Solution to an Unfulfilled Need	THE PRODUCT for handling clean fluids at flows up to 20gpm and 150psi differential pressure. This pump thrives in applications where centrifugal pumps and other positive displacement pumps continue to fall short of customer expectations.

# TUNICAGEAR

**Universal Flanges**  
Standard housing mates to both DIN and ANSI flange connections.

**Non-Metallic Containment Can**  
Eliminates heat rise and magnet inefficiencies due to Eddy Current losses; common to metallic pumps.

**Universal Motor Adapter**  
Fits both IEC and NEMA motors.

**Housing Liner**

Patent pending liner protects housing from wear. Allows as-new performance with the change of a KOPkit.

**Heavy Duty Bearings**

Designed with large wear areas to accommodate hydraulic loads. Special materials and patent pending features allow dry-run capabilities.

**Nut Carrier Plates**

Combines six parts into two. Service the pump with a single wrench

**Modular Magnet Hubs**

Only 1 magnet per pump size, with multiple hubs for different motor sizes. Allows easy inventory and application flexibility.

**Single Piece Gear/Shaft Assembly**

Eliminates retaining rings and keys. Non-metallic shafts for corrosive services.

**Fully Encapsulated Magnets**

For maximum corrosion resistance, molded-in spline design allows magnet to "float" within the can. Magnet will self-align with no extra fasteners. No axial loads induced on the shaft.

**Tolerance O-Ring**

Maintains proper internal clearances, tolerant of axial wear or thermal expansion.

**Rigid Pump Base**

Corrosion resistant and robust for optimum pump support in harsh environments. Slotted holes fit multiple motor frame feet for easy retrofitting in existing installations.

