

# MDI

## 5 HP Barnes Retrofit Grinder Pump Package



Turnkey Replacement Package  
Fully Assembled  
Simple Fast Installation  
Just lower into place!

No Modifications to Existing System  
Operates with same Control Panel  
Superior Pump Performance  
Reliable Operation

The MDI advantages:

Fits into Existing System - No Changes  
Eliminates Existing Problems  
Better Pump Performance - More Flow  
Reduces Service/Maintenance Issues  
Saves Money!

Pump Specifications: **BRG5-21HE**  
5 HP Dual Seal Grinder High Flow Pump  
External Start Components - High Flow

The MDI G5-21HE series centrifugal grinder pumps easily handle residential, light commercial or industrial sanitary waste, reducing it to fine slurry. The G5-21HE pump is designed for use in pressure sewer applications or any piping network.

The recessed vortex impeller design of the G5-21HE grinder pump provides trouble free, non-overloading operation over the entire performance curve.

The modular design provides quick and easy serviceability. The hardened stainless steel grinder assembly provides many years of dependable operation.

The G5-21HI series pump features:

Strong Class F 5 HP motor, 208 / 230 volt, 1-phase

3 support bearings (upper / lower ball, sleeve)

Dual mechanical seals (silicon carbide)

Internal moisture protection

# BRG5-21HE - Features and Benefits

## 1. Triple Sealed Cable Entrance

Stainless steel strain relief cord grip with compression grommet protects outer cord jacket. Epoxy filled inner cord cap with individually soldered wires provide anti-wicking moisture protection to the motor even if power cable is cut or damaged

## 2. Modular Pump Design

Commonality of parts across the Keen product line minimizes the amount of parts required for servicing. Heavy duty ASTM A48, Class 30 cast iron components.

## 3. Strong Motor

Powerful high torque motor for reliable pump operation.

208 / 230 volt, 1-phase Pressed stator securely holds motor and efficiently transfers heat. Class F insulation with overload protection in oil filled chamber for cool operation and long motor life.

## 4. 3-Bearing Support

Motor / Pump shaft securely held with upper and lower ball bearing plus addition sleeve bearing in lower seal chamber. Long 50,000 hour B-10 bearing life.

## 5. Double Mechanical Seal Protection

Dual silicon carbide mechanical shaft seals provide twice the moisture protection for the motor. Dual seals are housed in a secondary oil filled seal chamber. Tougher silicon carbide seals better handles sand, grit and abrasive materials.

## 6. Moisture Detection

Seal leak probe signals alarm in control panel for scheduled maintenance.

## 7. Non-Overloading Hydraulic Design

The recessed centrifugal impeller allows 100% performance curve operation from shut-off to maximum flow without damage to the pump or system. The recessed vortex impeller is out of the passageway of fluid flow, eliminating concerns of blockage or wear.

## 8. Proven Grinder Assembly

Hardened (Rockwell 56-60) stainless steel grinder assembly has 30+ years proven field experience. The reversible grinder ring and grinder impeller effectively reduces solids into a fine slurry, easily passable in a piping system without concerns of clogging. Highly efficient 7,400 cuts per second.

## 9. Barnes Piping Connection (Not Shown)

Made to drop right in!

