

# V2 SERIES GRINDER PUMPS

## PENTAIR PATENTED AXIAL CUTTER TECHNOLOGY

Pentair Patented Axial Cutter Technology has been engineered to be resilient and avoid most wastewater system clogs, delivering reliability and ease to you, your employees and community.

An axial cutter design consists of a rotating unit attached to the motor shaft that rotates with the impeller as the motor is running, and a fixed cutter plate with inlet holes or slots that allow the passage of fluid into the wet end. The cutting action is between the leading edge of the rotating cutter and the inlet of the stationary cutter plate. When the object is pulled into the inlet of the stationary cutter plate, the cutting of the solids takes place. As the item is being pulled through the inlet, the rotating cutter passes over the opening, slicing the object, and pushes the remaining of the material away so that it can be cut again. This action prevents any large mass from building up and clogging the inlet.

The rotating cutter has broad round edges that create a scissor action between it and the straight inlet slots of the stationary cutter plate. This method of cutting uses significantly less torque, reducing the load and wear on the motor, and extending its life.

Keep up with the demands of an ever-changing wastewater system by considering grinder pumps with resilient and effective axial cutters that help avoid most clogging issues. **For more information on our V2 Series Grinder Pumps, visit [pentair.com/vseries-grinders](http://pentair.com/vseries-grinders)**



## PRODUCT COMPARISON

Let's take a look at a side by side comparison of the features between Pentair Myers® V2 Series Grinder Pump and Liberty Pumps® LSG200 Series. The information on Liberty Pumps comes from publicly available literature on their website.

Both pumps are 2 HP (horsepower) solids-handling grinder pumps for sewage applications.

	Pentair Myers V2 Series Grinder Pump	Liberty Pumps LSG200 Series	Pentair Myers Value
<b>Cutter Technology</b>	Patented Axial Cutter Technology	V-Slice® Cutter Technology	Axial cutter grinds debris into smaller pieces and pushes larger pieces away, avoiding clogs in the cutter.
<b>Seal Leak Probe</b>	Yes	No	True early warning of water leaks. Control panel activates warning light.
<b>Oil-Filled Motor</b>	Yes	Yes	High torque start/run capacitor for single or three-phase motors. Starts each time under heavy loads.
<b>Advanced Hydraulics (Single-stage)</b>	Yes	No	Simpler design with less chance for failure.
<b>SST Impeller</b>	Yes (Semi-Open)	Yes (Semi-Open)	Semi-open for clog resistance.
<b>Rotor Shaft</b>	Heavy 416 SST	300 Series SS	Corrosion resistant. Reduces shaft deflection for long pump life.
<b>Discharge Orientation</b>	1-1/4 NPT Vertical	1-1/4 FNPT Horizontal	Cast Iron vertical flanged discharge. Matches existing Pentair Myers grinder pump rail systems.
<b>Lower Ball Bearings</b>	Yes (Double Row)	Yes	Absorbs both axial and radial loads for increased durability.
<b>Shaft Seals</b>	Yes (Double Mechanical)	Yes	In oil-filled seal chamber for continuous lubrication and superior motor protection.
<b>Cable Entry System</b>	Yes	Yes	Cable jacket sealed by compression fitting. Individual wires double sealed against water entry.
<b>Cast Iron</b>	Yes	Yes	Pump volute, motor and seal housing built with high quality gray cast iron.
<b>Paint</b>	Waterborne hybrid acrylic/alkyd	Powder Coated Tough™	Provides corrosion and chemical protection.

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