



Always the Right Solution™

Moyno® Grinders



Moyno® Sets the Standard in Grinding Equipment

The Moyno line of grinders meets the broad needs of any industry requiring solids reduction or waste conditioning. The diverse line of grinders ensures that Moyno has the right equipment to meet your challenge.

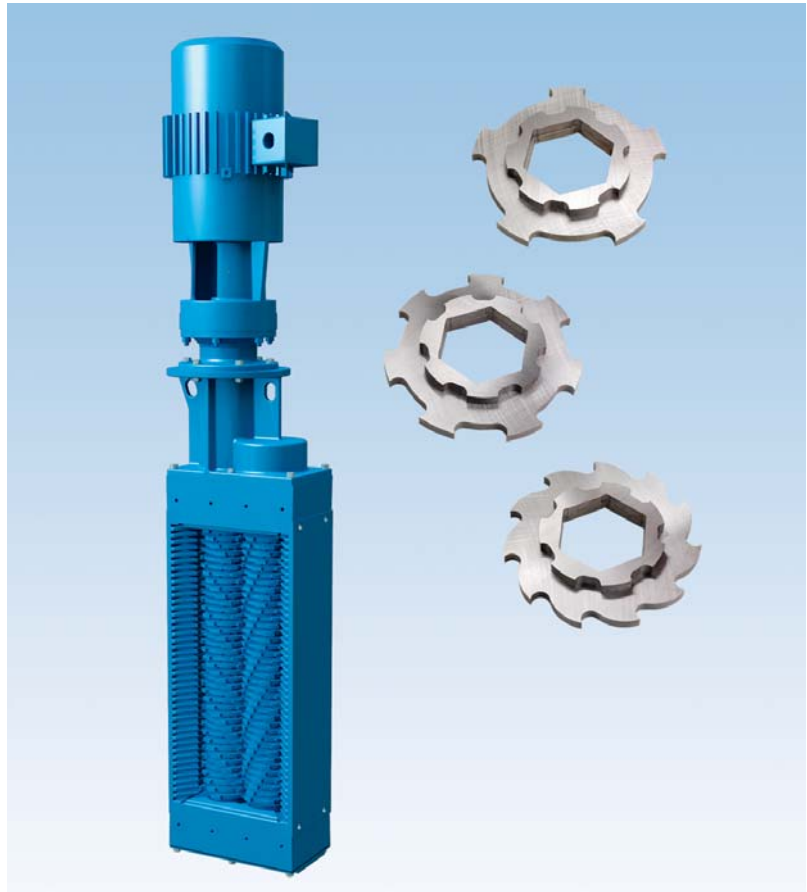
Moyno® Annihilator™

The Moyno Annihilator utilizes the field-proven counter-rotating, hexagonal shaft design with intermeshing cutters and spacers. The Annihilator vastly increases the cutting capabilities of other commonly available twin shaft grinders by utilizing cutting teeth on the spacers, thereby improving the cutting efficiency while decreasing the particle size processed through the unit. This patented design also eliminates the greatest cause of failure of conventional units — that of stringy material wrapping around the spacers, causing seal failure, mechanical seizure and ultimately, shaft fracturing.

The drive components and the cutter cartridge can be removed from the flange housing of the Series 4 design as one assembly. Replacement cutter cartridge assemblies are available for quick replacement and minimal downtime. The Moyno Annihilator also retrofits other twin shaft grinder units. It has the same dimensions and same piping configurations but with far superior performance.

Features and Benefits

- Protects downstream equipment from being plugged or damaged from large solids, thus reducing expensive repairs and down time



- Slow rotating cutters work best on large and dense solids
- Improved cutting efficiency with over double the cutting edges
- High flow side rails on Series 3 C3A provide an increase in flow through for greater efficiency
- Mechanical seal mounted on a separate stainless steel sleeve for easy and quick replacement
- Seal cartridge offers reliable operation with less downtime
- Cutter cartridge consists of one assembly for quick replacement
- One-piece flange housing on Series 4 ensures quick and easy repair with no flange bolts to disconnect
- Various drive, housing, cutter, spacer/cutter and shaft options for application versatility

Moyno® Max-Flow Annihilator™ Grinder System

Installing and maintaining equipment to protect the downstream pumps, valves and process equipment in wastewater treatment plants and its lift stations can be expensive and environmentally challenging. Bar rakes and screens and drum screen grinders all have their cost and performance disadvantages.

The Moyno® Max-Flow Annihilator™ Grinder System is a custom engineered headworks debris handling system that protects downstream pumps, valves and process equipment in wastewater treatment plants and their lift stations. The cost-effective, low maintenance Moyno Max-Flow

Annihilator Grinder System can be used in place of bar rakes and screens as well as drum screen grinders for enhanced performance.

The Max-Flow system contains two or more Annihilator grinders mounted side-by-side in a stainless steel retrieval frame in the headworks of a waste treatment system. They can be installed in an in-line or a staggered or offset design to accommodate a variety of channel widths.

The frame is engineered-to-order and pre-fabricated. It includes guide rails to permit the independent retrieval of each grinder for easy maintenance. Steel panels can also be inserted in place of a grinder to divert the flow to the remaining grinders during



maintenance, eliminating the need for costly diversion or by-pass channels. Stainless steel or FRP control panels can be installed to control the operation of each grinder independently using manual or automated control systems.

Features and Benefits

- Fewer maintenance issues than bar rakes, bar screens, and drum screens
- Lower maintenance costs
- Lower initial costs than competing technologies
- Lower energy usage since all grinders in the system don't need to operate continuously
- Better performance in reducing the particle size of debris floating through the waste treatment system
- Better environmental choice since all processing of debris is done underground in the lift station

Moyno® Edge™ Grinder Cartridge

When the grinder cartridge fails in your in-line or uni-body Muffin Monster® grinder, you now have an alternative. Instead of purchasing a new or refurbished replacement grinder cartridge from JWC Environmental®, you can purchase a new one from Moyno.

The Moyno Edge grinder cartridges have been specifically designed to fit within the Muffin Monster® grinder housing, allowing you to retain and use your existing gear reducer, motor, and control panel. Moyno stocks the Moyno Edge grinder cartridges at most of its North American regional distributors, and can ship it quickly to minimize your downtime.

The Edge includes a patent pending shrouded, dry running, hard face seal; and bolt-on shaft collars instead of snap rings. You will not find all of these design advantages on competing products. Moyno backs its products with a full one year warranty against defects in materials and workmanship.

While the performance of your equipment is critical and the quality of your customer experience is important, the cost of replacement parts is also a consideration. The Edge is priced lower than the original equipment replacement cartridges.

Features and Benefits

- Easy installation with no special equipment, tools, adapters, modifications, training, or procedures required
- Fast delivery for minimal downtime
- Longer product life resulting from Moyno's high quality, careful attention to product design, material selection, manufacturing workmanship, and product testing
- Responsive customer support with an extensive distributor network of trained customer service personnel and experienced service technicians
- Cost savings due to lower pricing levels



Moyno® Pipeliner

The Moyno Pipeliner provides effective solutions to the time consuming and costly problems of ragging and inconsistent particle size frequently associated with handling solids in wastewater treatment processes.

Features and Benefits

- The Pipeliner design consists of a single shaft rotating a headstock
- The headstock contains tungsten carbide-tipped cutting edges running against a hardened tool steel shearplate

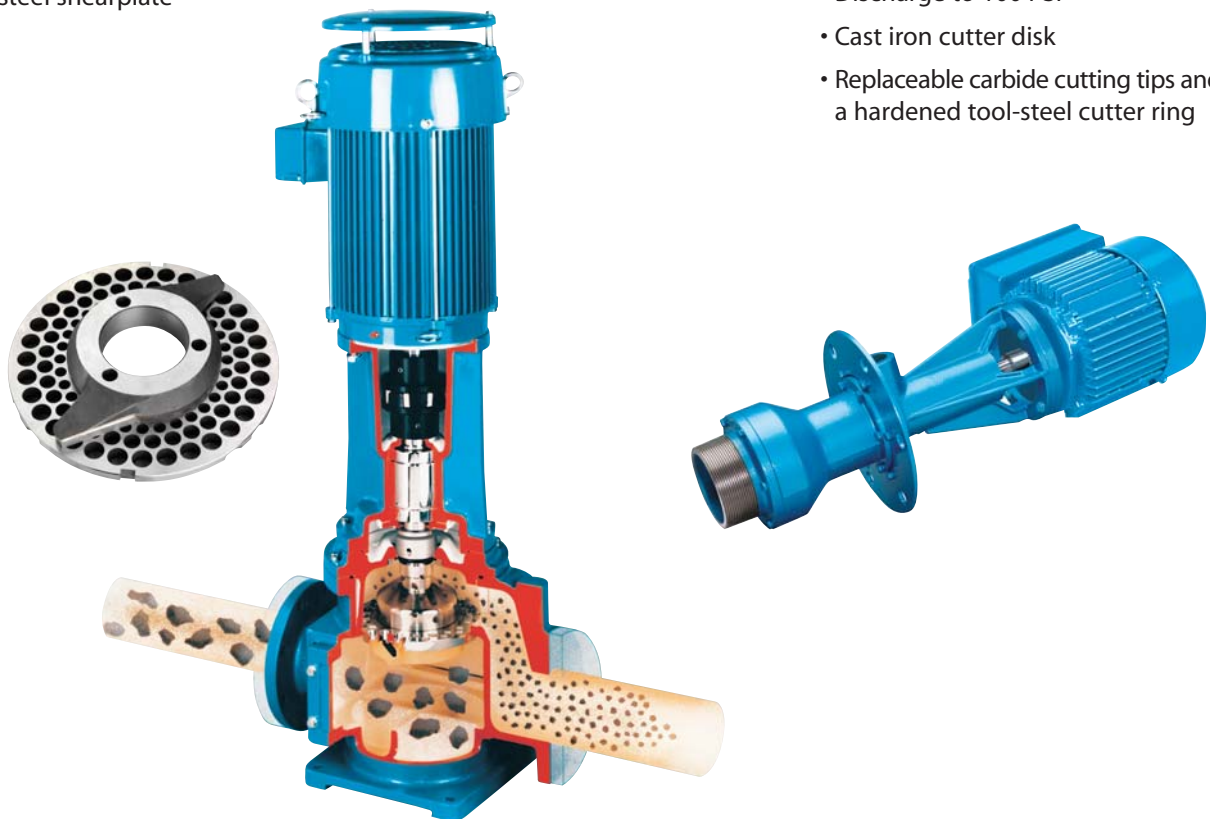
- Headstock, shearplate and body casting designs minimize jamming and eliminate the need for expensive anti-jamming devices
- Single mechanical seal with silicon carbide faces
- Simple, efficient design needs minimal maintenance
- Exclusive Quick-Change Cartridge Assembly is simple to separate from the Pipeliner

Moyno® 500 Grinder Pump

Moyno 500 Grinder Pump offers constant, uniform, non-pulsating flow that provides low shearing action for minimum degradation of shear-sensitive materials and low velocity capabilities for effective pumping of viscous fluids.

Features and Benefits

- Compact, lightweight utility pump
- Eliminates excessive operating noise
- Flow rates to 15 GPM
- Discharge to 100 PSI
- Cast iron cutter disk
- Replaceable carbide cutting tips and a hardened tool-steel cutter ring



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Bulletin 135-D

Printed in U.S.A.

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