



Always the Right Solution™

# Moyno® Annihilator™ Series 3 C3A Channel Grinder

## Redesigned with Optimized High Flow Side Rails for Increased Flow and Better Performance

Protecting downstream equipment from being plugged or damaged from large solids is a critical process step that can ensure reductions in expensive repairs and long down times. The objective of increased flow needs to be accomplished without compromising downstream pumps and other equipment. The Moyno Annihilator Series 3 grinder offers these benefits and capabilities already today. Now, the redesigned Annihilator Series 3 C3A channel grinder builds on that design by offering increased flow capabilities that help increase productivity, improve channel management, and simplify maintenance.

### Basic Product Description:

The redesigned C3A grinder improves on the already field proven Moyno Annihilator Series 3 grinder. This high quality, twin-shaft grinder with patented spacer cutters and patent pending shrouded seal ensures that solids in the sludge stream are ground effectively and efficiently. 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 in the unit. The C3A now provides optimized high flow side rails for increased flow capabilities and performance.

The C3A also provides these additional features:

- One Piece Casting Top Plate with Adaptor Cover
- Top Stack Tightening
- Shrouded Seal Design
- Hardened Couplings

### Increased Flow

The redesigned Moyno Annihilator Series C3A channel grinder produces on average 30% more flow when compared to the original Annihilator Series C3 channel grinder. The optimized side rails provide an increase in area where water can easily pass through the unit without allowing solids to pass. The optimized side rails also provide better guidance and delivery of solids through the patented cutters. The Annihilator C3A also boasts more flow capability than comparable JWC Muffin Monster 30000 models.



Model	Current C3 Max. GPM	JWC Muffin Monster * 30000 Max. GPM	Redesigned C3A Max. GPM
M08	275	335	360
M12	425	490	575
M18	725	740	933
M24	1000	1000	1480
M32	1500	1470	2040
M40	2000	2000	2680
M60	3400	N/A	4690

\* Muffin Monster® is a registered trademark of JWC Environmental®. Moyno® is not a distributor or manufacturer for JWC Environmental®.

### Improved Channel Management

The introduction of the optimized high flow side rails now allows for greater flexibility and management of your channel and flow requirements. For users where flow capabilities are a requirement, the C3A allows the user to achieve the same or better flow with a reduction in grinder size. For users that require a specific stack height or are looking to retrofit an existing grinder, the C3A delivers a greater assurance of flow through the process compared to the original C3 design. Finally, users looking to reduce flow bottlenecks in their process without having to expand their channel or plant can use the redesigned C3A to achieve increased flow and productivity.

### Reduction in Head Drop

The C3A grinder now features a lower profile bearing housing design to improve flow through and processing efficiencies. Upstream head is reduced and water back-up is minimized resulting in a decrease in head height.

As an example, users of the existing M24C3 grinder would experience 24.5 inches of upstream head and 5 inches of downstream head. With the introduction of the C3A design, users of the M24 grinder would now experience 17 inches of upstream head while maintaining 5 inches downstream in equivalent environments, resulting in a 7.5 inch reduction in head drop. This head reduction improves the efficiency

and flow through potential of the C3A grinders.

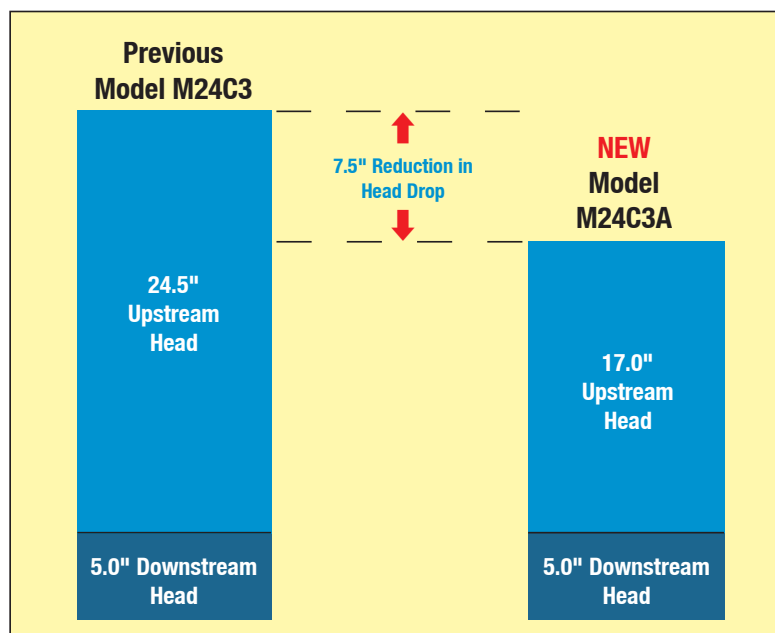
### Retrofit Capable

The redesigned C3A Annihilator grinder is designed to retrofit not only current Annihilator C3 in channel grinders, but also JWC Muffin Monster 30000 units. Current JWC Muffin Monster 30000 users can continue to use their existing motor and drive adapters on the redesigned Annihilator C3A grinder.

### Expands Competitiveness of the Max-Flow™ System

The Max-Flow headworks debris handling system offers a superior

solution to traditional bar rakes and drum screens by offering lower initial and lifetime costs, lower energy requirements, and improved system performance and reliability. 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. The redesigned C3A, with its optimized high flow side rails, builds and expands on the competitive reach of the Max-Flow system. The increase in flow capabilities allows the system to satisfy higher flow requirements when stack height is a requirement.



The new Annihilator Series 3 C3A channel grinder reduces upstream head and water back-up by 30% for improved flow through and processing efficiencies.



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