evotec® THE STEP UP

SlagMaster® HSR

SHEET METAL FINISHING

Heavy Slag Removal with Edge Perfection
and Non-Directional Surface Finishing

Heavy-Duty Support Structure

20-30% Energy Savings

3rd Gen Abrasives

99% Dust Removal Efficiency

Evotec® Three
Core Technologies

EvoFlow® Conveyor System
– Fixed in Place. Perfect in Finish.

The EvoFlow Conveyor System ensures precise workpiece retention with AirLock Vacuum Retention for small parts or MagniLock Magnetic Holding for ferrous materials, both featuring integrated cleaning for consistent performance. Its high-durability rubber belt lasts 50% longer than industry standards, reducing maintenance and ensuring reliable, long-term operation.

EvoGrit® 3.0 Abrasives
– Engineered for Toughness. Built to Last.

EvoGrit 3.0 Abrasives are engineered for maximum durability, delivering consistent, high-quality finishes across all Evotec sanding and brushing heads. Designed for long-lasting use, these abrasives reduce the frequency of replacements, cutting operational costs. Available in exclusive configurations for Drum Heads, Rotary Brushes, and Top Brushes, they provide precise deburring, slag removal, and flawless surface finishes with every pass.

EvoTrack® MCS
– Intelligent Control. Precision Execution.

EvoTrack MCS powers Evotec's automation, ensuring precise parameter recall, real-time monitoring, and optimized processes. Adaptive automation adjusts abrasives and belt tracking for consistent performance, while smart memory recall stores parameters for repeatable results. With Predictive maintenance, the system minimizes downtime by providing proactive alerts, maximizing uptime and efficiency.

Efficiency that Empowers

Evotec combines over 42 years of industry expertise with cutting-edge automation to redefine deburring, edge rounding, and surface finishing. With an 800,000 M^2 super factory, a global workforce of 1,800+ professionals, and dedicated R&D centers, Evotec is built for high-performance manufacturing. Our global presence spans offices in Germany, Turkey, Hungary, Hong Kong, Mainland China, Japan, the United States, Mexico, and Brazil, enabling us to deliver precision and innovation across the world.

800k+ M^2
manufacturing facility

2k +
machines delivered yearly

8 +
global offices

1.8k +
employees worldwide

2 +
technology centers

100 +
dedicated R&D engineers

The Step Up

We empower manufacturers to work smarter, not harder. By automating repetitive tasks and streamlining workflows, we free up time for what truly drives progress —creativity, innovation, and precision engineering. Our intelligent systems ensure every edge is perfected, every surface refined, and every process optimized, delivering efficiency without compromise.

"Bringing in the SlagMaster HSR was one of the best upgrades we've made. The difference in part quality and processing speed has been huge—we're seeing cleaner edges, less rework, and faster turnaround times. It's exactly what we needed to keep up with demand."

Robert Chang, Production Supervisor, Titan Heavy Industries

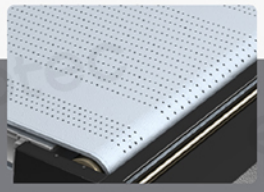
SlagMaster® HSR

800 mm | 1000 mm | 1300 mm

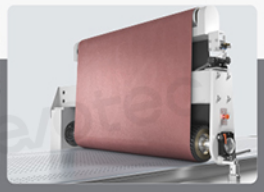
When conventional deburring and deslagging machines fall short, the SlagMaster HSR takes over. Designed for extreme-duty applications, it effortlessly tackles the heaviest slag and most stubborn burrs that standard systems cannot handle. With precision-engineered technology, it not only removes severe imperfections but also ensures smooth, refined edges—delivering parts that are fully prepped for the next stage of fabrication.

Engineered for the Toughest Burrs and Slag

NDMF Finishing | Edge Rounding | DeBurring | DeSlagging | De-Oxidizing



EvoFlow® Conveyor System



Drum Head Module

Rotary Brushes Module

Slag Hammer Module

190° Rotary Console

THE EVOTEC® DIFFERENTIATOR

Automated Abrasive Control

Automatically adjusts abrasive compensation, belt balancing, and tracking correction, ensuring consistent precision and efficiency with every pass.

AirLock® or MagniLock® System

Dual-action self-cleaning vacuum adsorption or optimized magnetic adsorption efficiently processes small workpieces while maintaining stable and reliable retention.

Smart Parameter Recall

Stores and retrieves pre-programmed process parameters, allowing operators to quickly recall settings for repeatable, high-accuracy processing.

Multi-Layered Safety Protection

Includes auto power cut-off, anti-pinch mechanisms, and a rapid 4-second emergency braking system, providing enhanced workplace safety.

Intelligent Maintenance Monitoring

AI-powered real-time monitoring providing intelligent maintenance alerts to maximize uptime and efficiency.

Instant Operational Readiness

Designed for seamless deployment, Evotec machines require no complex setup—just plug them in, power up, and start processing immediately.

CONFIGURATION

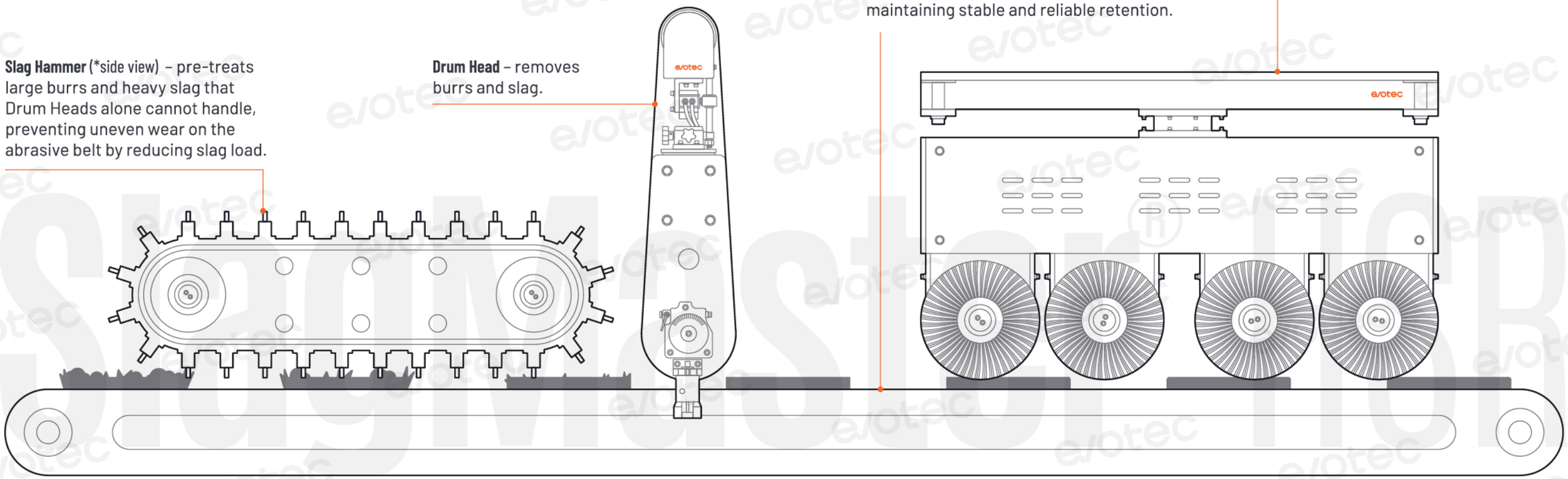
The SlagMaster HSR follows a strategic process to maximize efficiency and protect critical components. Heavy slag is removed first to prevent damage to the sanding belt, ensuring a controlled load for precise surface refinement. Next, burrs are smoothed, and edges are rounded, leaving a uniform, non-directional finish—ready for flawless downstream processing.

Slag Hammer (*side view) – pre-treats large burrs and heavy slag that Drum Heads alone cannot handle, preventing uneven wear on the abrasive belt by reducing slag load.

Drum Head – removes burrs and slag.

EvoFlow Conveyor System – dual-action self-cleaning vacuum adsorption or optimized magnetic adsorption efficiently processes small workpieces while maintaining stable and reliable retention.

Rotary Brushes – performs edge rounding and applies non-directional grain finishing (random swirl brushing).



CUSTOMIZATION CAPABILITIES

Evotec machines offer a range of configurable options, allowing manufacturers to adapt their equipment for specific processing needs. From dust extraction to modular abrasive configurations, each customization enhances performance and optimizes workflow efficiency.

Wet Extraction System	Optional add-on
Dust-removal Workpiece Retention Mechanism	Evotec AirLock® or MagniLock® System
Flexible Abrasive Module Configuration	±1 Drum Head
Conveyor Self-cleaning Module	Electric Rolling Brush
Dual-sided Finishing	Revolving Line Solution

SAMPLES

Processable Materials: Stainless and carbon steel

See the precision and consistency of Evotec's finishing solutions in the samples above. We tailor our finishing solutions to meet the unique requirements of each production line, ensuring optimal results for various materials and applications. Connect with our sales team to discuss your specific needs and request a sample run to experience the Evotec difference firsthand.

SPECIFICATIONS

Model	HSR 800	HSR 1000	HSR 1300
Max. Workpiece Width	800 mm	1000 mm	1300 mm
Conveyor Belt Speed	1 - 7 m/min	1 - 7 m/min	1 - 7 m/min
Max. Table Load Capacity	300 kg	500 kg	700 kg
Min. Workpiece Size (W × L)	50 × 50 mm	50 × 50 mm	50 × 50 mm
Max. Workpiece Height	0.5 - 100 mm	0.5 - 100 mm	0.5 - 100 mm
Abrasive Belt Dimensions (L × W)	1900 × 820 mm	2200 × 1020 mm	2200 × 1320 mm
Deslagging Pin Size	Φ10×60 mm	Φ10×60 mm	Φ10×60 mm
Electrical Input	400 V | 50 Hz 120 A	400 V | 50 Hz 150 A	400 V | 50 Hz 240 A
Rated Power Consumption	39 kW	50 kW	79 kW
Machine Dimensions (L × W × H)	3.3 × 1.65 × 2.25 m	3.7 × 1.85 × 2.25 m	3.7 × 2.25 × 2.3 m
Machine Weight	3000 kg	3500 kg	4500 kg
Upstream Processes	Laser cutting, flame cutting, water-jet cutting, NTC punching, and die casting		
Downstream Processes	Bending, forming, welding, powder coating, painting, and assembly		

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HEADQUARTERS

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Disclaimer: The data regarding dust extraction efficiency and energy savings are based on internal testing and experiments conducted at our factory. These values represent estimated performance under standard operating conditions. Actual performance may vary depending on specific usage, maintenance, and environmental factors.

The Evotec AirLock® is designed for processing copper, aluminum, stainless steel, and carbon steel. To ensure proper holding, the minimum workpiece size must be at least 50 × 50 mm, with no perforations, holes, or slots, and a maximum thickness of 3 mm. For the Evotec MagniLock®, the minimum processable workpiece size is ≥ 10 × 10 mm.

To ensure continuous improvement, specifications, features, configurations, and product designs are subject to change without prior notice. Evotec reserves the right to modify machine designs, components, and technical details to enhance efficiency, durability, and overall functionality. For the latest specifications and customization options, please contact our team.

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