

SlagMaster® HSR

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 Slag Hammer Module Drum Head Module Rotary Brushes Module 270° 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

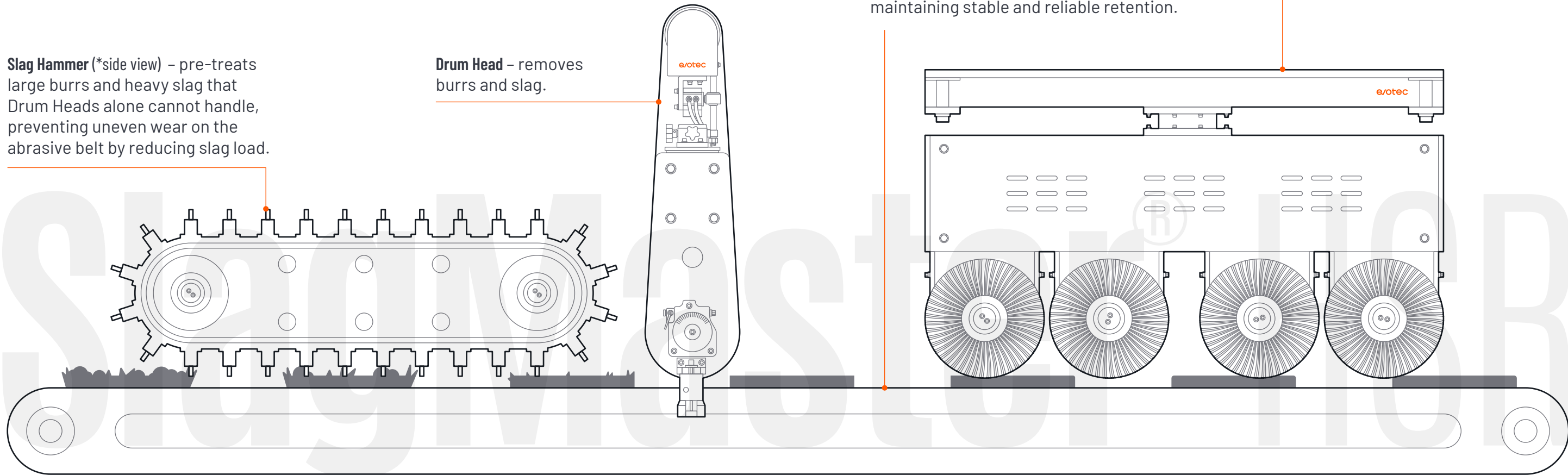
Designed for seamless deployment, evotec® machines require no complex setup—just plug them in, power up, and start processing immediately.

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, waterjet cutting, NTC punching, and die casting		
Downstream Processes	Bending, forming, welding, powder coating, painting, and assembly		

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The
evotec.

HEADQUARTERS

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Disclaimer: The data regarding dust extraction efficiency and energy savings are based on internal testing and experiments conducted at evotec® 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.

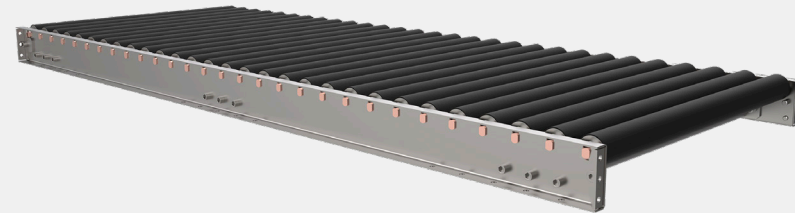
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evotec® Three Core Technologies



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.



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

The The EvoFlow® Conveyor System ensures precise workpiece retention using either AirLock® Vacuum Retention or MagniLock® Magnetic Holding. AirLock® features powerful suction and a self-cleaning dust system to securely hold small workpieces, maintaining a clean operation. Alternatively, MagniLock® uses high-strength NdFeB magnets for superior retention of ferrous materials and includes an integrated cleaning system to ensure consistent performance.



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 M² 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	2k +	8 +	1.8k +	2 +	100 +
manufacturing facility	machines delivered yearly	global offices	employees worldwide	technology centers	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

SHEET METAL FINISHING

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

