



Surfex SSR

Surfex[®] SSR

SHEET METAL FINISHING

High-Performance Deburring System with
Non-Directional Surface Finishing



Heavy-Duty
Support Structure



20-30%
Energy Savings



3rd Gen
Abrasives



99%
Dust Removal Efficiency

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.



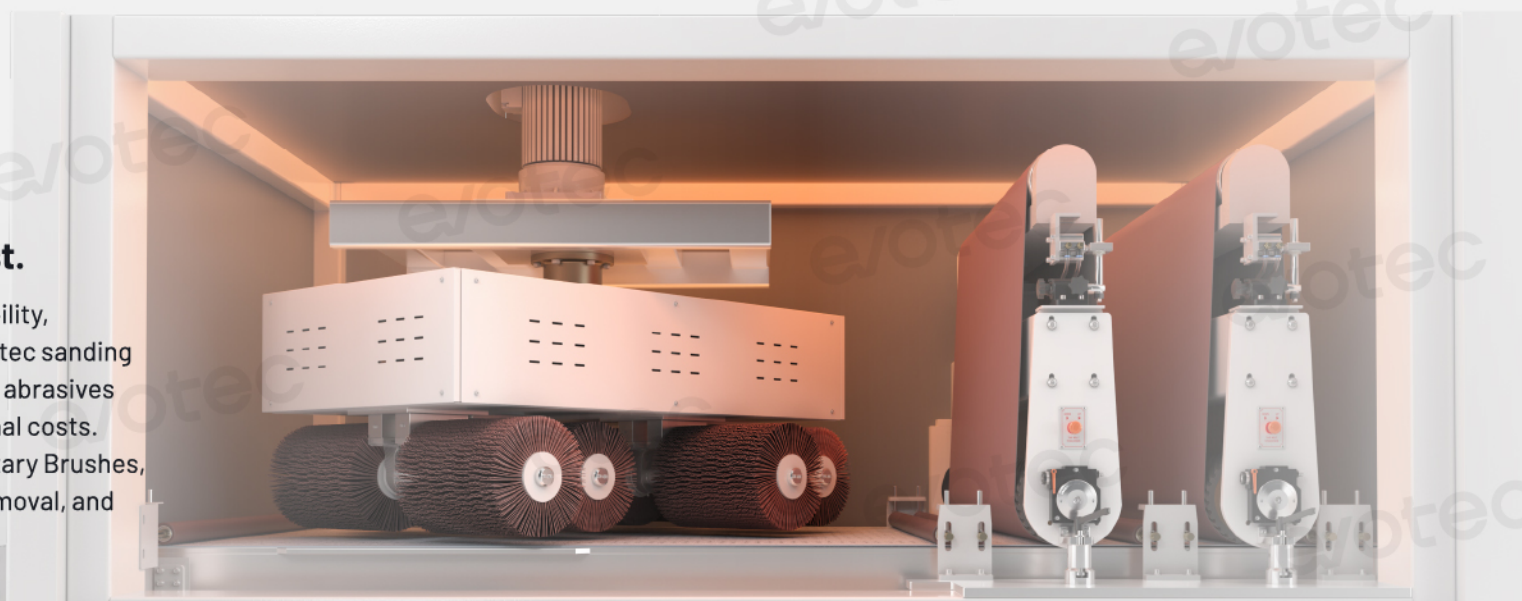
EvoFlow® Conveyor System – Fixed in Place. Perfect in Finish.

The 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.



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+ M²

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.

"The Evotec machine has really raised the bar for us. It gives us the precision and finish we need for the U.S. and European markets, and the surface finishes and edge rounding come out flawless every time. We're setting a new standard for quality."



Carlos S., Production Manager, Miller & Sons Metalworks

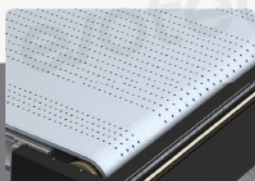
Surfex[®] SSR

800 mm | 1000 mm | 1300 mm | 1600 mm

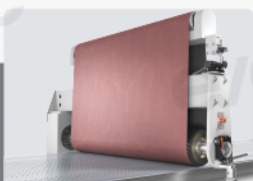
Designed for exceptional surface finishing, the Surfex SSR delivers a flawless NDMF (non-directional grain finish) surface treatment while efficiently removing large burrs and slag. With consistent edge rounding and micro-burr removal, it enhances paint adhesion, reduces post-processing, and improves overall product quality. Built for efficiency and reliability, it helps manufacturers achieve premium finishes while streamlining production.



Unmatched Deburring and Surface Perfection



EvoFlow[®] Conveyor System



Drum Head Module



Rotary Brushes Module



EvoGrit[®] 3.0 Abrasives



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

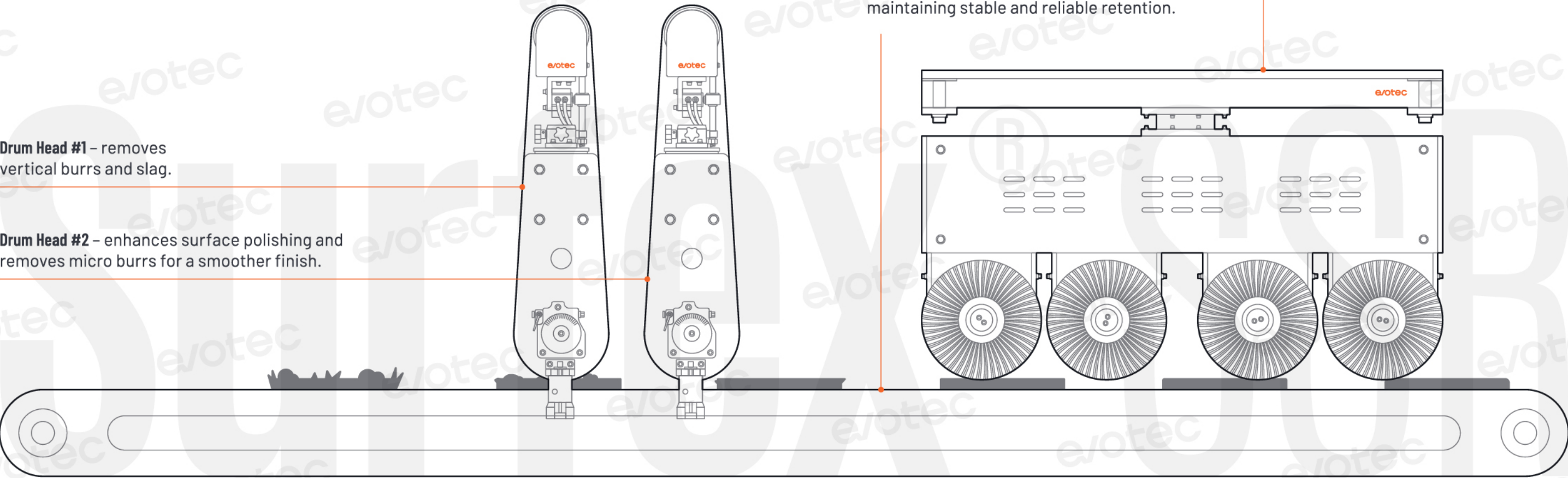
The multi-stage process begins with aggressive material removal, ensuring a smooth, clean surface, before refining it to a consistent, high-quality finish. With enhanced efficiency and precision, it optimizes downstream processes like coating, painting, and assembly.

Drum Head #1 – removes vertical burrs and slag.

Drum Head #2 – enhances surface polishing and removes micro burrs for a smoother finish.

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.



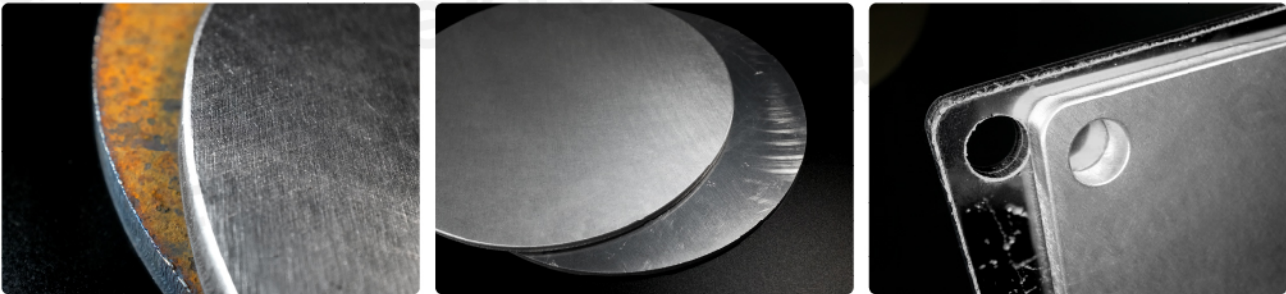
CUSTOMIZATION CAPABILITIES

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 steel, carbon steel, aluminum, brass and cold plate



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	SSR 800	SSR 1000	SSR 1300	SSR 1600
Max. Workpiece Width	800 mm	1000 mm	1300 mm	1600 mm
Conveyor Belt Speed	0.5 - 7 m/min	0.5 - 7 m/min	0.5 - 7 m/min	0.5 - 7 m/min
Max. Table Load Capacity	300 kg	500 kg	700 kg	700 kg
Min. Workpiece Size (W × L)	50 × 50 mm	50 × 50 mm	50 × 50 mm	50 × 50 mm
Max. Workpiece Height	0.5 - 100 mm	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	2200 × 1320 mm
Rotary Brushes (Multiple)	300 ² × 40 (mm. set of 4)	300 ² × 40 (mm. set of 6)	300 ² × 40 (mm. set of 8)	300 ² × 40 (mm. set of 8)
Electrical Input	400 V 50 Hz 120 A	400 V 50 Hz 150 A	400 V 50 Hz 240 A	400 V 50 Hz 270 A
Rated Power Consumption	39 kW	50 kW	79 kW	88 kW
Machine Dimensions (L × W × H)	3.3 × 1.65 × 2.25 m	3.7 × 1.85 × 2.25 m	4.2 × 2.25 × 2.3 m	4.2 × 2.25 × 2.3 m
Machine Weight	3000 kg	3500 kg	5700 kg	6500 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			



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 $\geq 10 \times 10$ 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.