

# Edgex® SDR

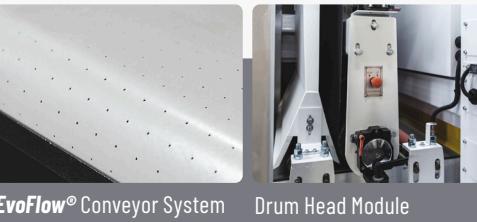
800 mm | 1000 mm | 1300 mm | 1600 mm

The EdgeX-SDR offers precise R2+ edge rounding, ensuring safe handling and excellent results in painting and coating. Its multi-stage abrasive process creates non-directional patterns, minimizing visible scratches and grain, making it ideal for high-contact areas. The smooth, consistent finish also serves as a perfect base for further surface treatments like painting or powder coating.



## Sharp Edges Out, Flawless Finish In

- NDMF Finishing
- Edge Rounding
- DeBurring
- DeSlagging
- De-Oxidizing
- Radius 2+
- Slot Chamfering



## THE EVOTEC® DIFFERENTIATOR

### Automated Abrasive Control

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

### Multi-Layered Safety Protection

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

### AirLock® or MagniLock® System

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

### Intelligent Maintenance Monitoring

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

### Smart Parameter Recall

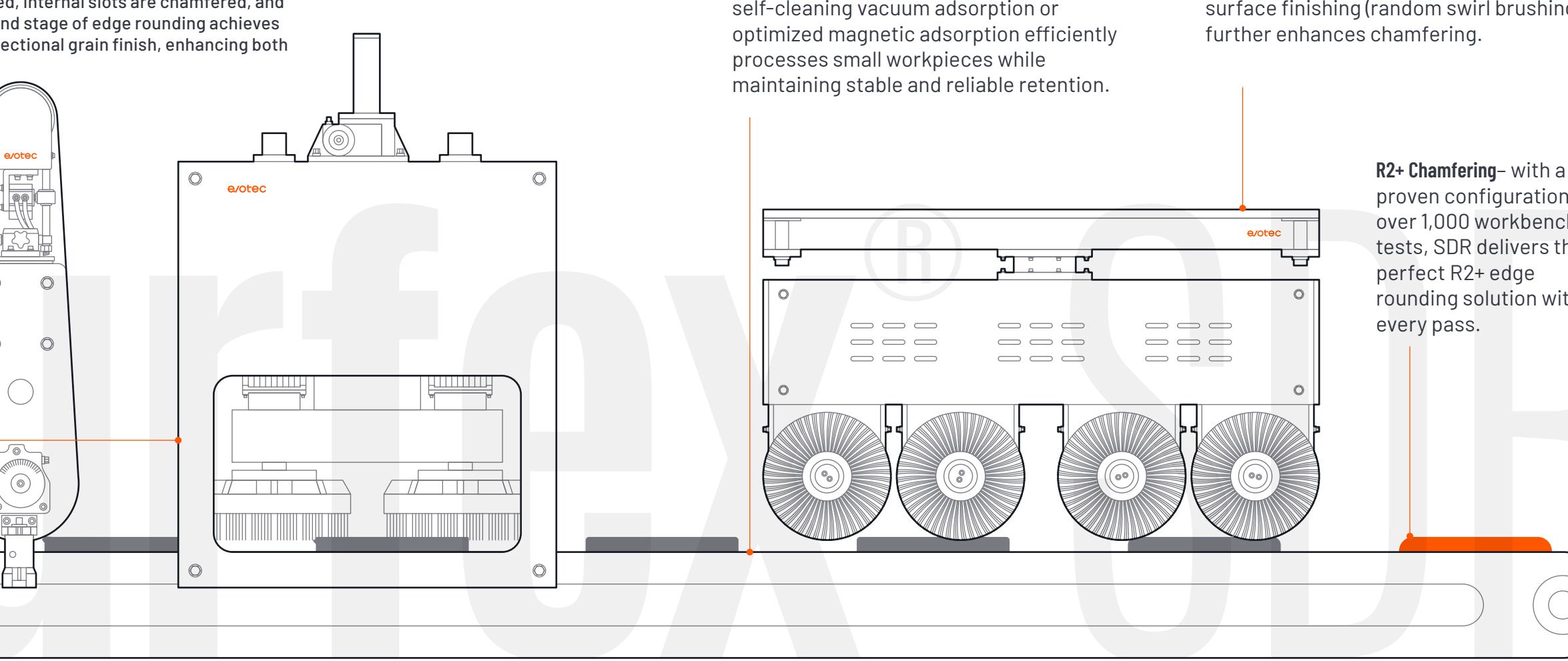
Stores and retrieves pre-programmed process parameters, allowing operators to quickly recall settings for repeatable, high-accuracy processing.

### 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 process begins with vertical burr and slag removal, creating a smooth surface. Next, lateral burrs are removed, internal slots are chamfered, and edges are pre-rounded. Finally, a second stage of edge rounding achieves Radius 2+ edges, followed by a non-directional grain finish, enhancing both safety and coating adhesion.



**EvoFlow Conveyor System** – dual-action self-cleaning vacuum adsorption or optimized magnetic adsorption efficiently processes small workpieces while further enhances chamfering.

**Rotary Brushes** – performs non-directional surface finishing (random swirl brushing) and further enhances chamfering.

## SPECIFICATIONS

Model	SDR 800	SDR 1000	SDR 1300	SDR 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 x L)	50 x 50 mm	50 x 50 mm	50 x 50 mm	50 x 50 mm
Max. Workpiece Height	0.5 - 10 mm	0.5 - 10 mm	0.5 - 10 mm	0.5 - 10 mm
Abrasive Belt Dimensions (L x W)	1900 x 200 mm	2200 x 200 mm	2200 x 320 mm	2200 x 320 mm
Rotary Brushes (Multiple)	300 <sup>2</sup> x 40 (mm. set of 4)	30 <sup>2</sup> x 40 (mm. set of 6)	30 <sup>2</sup> x 40 (mm. set of 8)	30 <sup>2</sup> x 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 x W x H)	3.3 x 1.65 x 2.25 m	3.7 x 1.8 x 2.25 m	4.2 x 2.25 x 2.3 m	4.2 x 2.25 x 2.3 m
Machine Weight	3000 kg	3500 kg	5700 kg	6500 kg
Upstream Processes	Laser cutting, flame cutting, waterjet cutting, NCP cutting, induction heating			
Downstream Processes	Bending, forming, welding, powder coating, painting, and assembly			

## 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 evotec® AirLock® or MagniLock® System

### Dust-removal Workpiece Retention Mechanism

evotec® AirLock® or MagniLock® System

±1 Drum Head

### Flexible Abrasive Module Configuration

Electric Rolling Brush

Conveyor Self-cleaning Module

Revolving Line Solution

Dual-sided Finishing

## 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.

Up Step The  
evotec

