



cleaning **deburring** edge rounding





The **performance** and **operational range** of the EdgeRacer® speak for themselves. This, together with its clean and compact design, makes the EdgeRacer the perfect deburring machine for every sheet metal processing company.

The EdgeRacer® also sets completely new standards in **energy efficiency**: **Cuts of up to 90%** in energy costs are possible. This is of particular importance in view of the ever increasing energy costs and also means a rapid return on investment.

The certified safe processing of **steel**, **stainless** and **aluminium** sheet in **MIX MODE** makes the machine indispensable in modern sheet metal processing.



**Deburring, cleaning and edge rounding  
of steel, stainless steel, aluminium and titanium sheet.**

It's child's play with the **EdgeRacer®!**

These modular deburring and cleaning machines were specially designed to meet the specific requirements of sheet metal processing in edge rounding and deburring. An extensive range of equipment and accessories allows unlimited tailored solutions!

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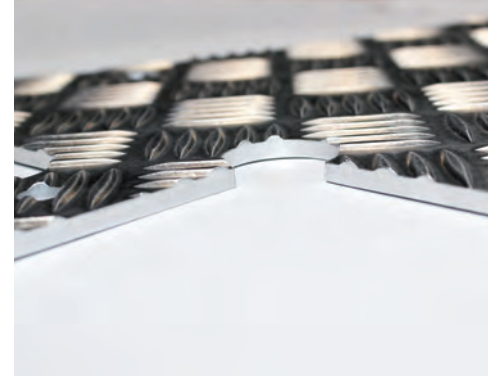
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## Single-sided deburring with the EdgeRacer®

- Precision processing of inner and outer contours
- User defined edge rounding
- Reproducible results
- High throughput rate ( > 300 m<sup>2</sup>/h )
- Gentle to surfaces, even on polishes, brushed and laminated plates
- Oxide layer removal
- Considerable reduction of processing costs
- Setting of grinding heads beneath roller table level possible



» The EdgeRacer enables us to fulfil the quality demands by our customers. «



Setting options of the single-sided EdgeRacer

## Simple edge rounding efficiency the single sided EdgeRacer® – a low-cost solution

The single sided machine was specially developed for all those looking for highly flexible single sided processing at low investment cost. Formed components and various different materials? No problem!



## Clearly structured and intuitive to use the touch screen is standard

It is our policy that machine operation has to be self-explanatory from the start. That's why we pay particular attention to simple handling, enabled by the clearly structured and intuitive user interface. The touch screen is fitted as standard and controls all machine functions.

## Optimal energy efficiency Low costs and high productivity

Did you know that the EdgeRacer® is a true energy saver? You can profit from this as much as the environment does: Extremely low processing costs put you a good step ahead of the competition! Processing costs are generally under 0.01 €/m<sup>2</sup> processed sheet.



Fast diagnostics

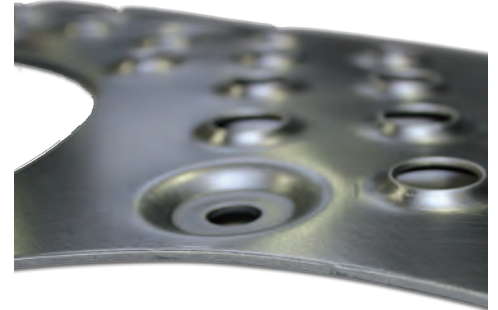
## Facts and figures

<b>Operative width:</b> .....	1,000 / 1,500 / 2,000 mm
<b>Processing speed:</b> .....	100 / 200 / 300 m <sup>2</sup> /h
<b>Component length:</b> .....	min. 380 mm, shorter on pallets
<b>Component thickness:</b> .....	up to 50 mm
<b>Rounding degree:</b> .....	adjustable
<b>Insert height:</b> .....	880 mm + 100 mm
<b>Area required*:</b> .....	1,300 x 2,600 x 2,500 mm
<b>Weight*:</b> .....	approx. 2,600 kg
<b>Electrical connection:</b> .....	3 x 400 V, 50 Hz, 25 kVA
<b>Extraction output required:</b> .....	min. 3,500 cbm/h
<b>Sound level:</b> .....	≤ 60 db

\* Values refer to the EdgeRacer® ER 1500 E

## Double-sided deburring with the EdgeRacer®

- Double-sided deburring, top and bottom in a single run
- Simultaneous surface finishing
- Precision processing of inner and outer contours
- User defined edge rounding
- Reproducible results
- High throughput rate ( > 300 m<sup>2</sup>/h )
- Gentle to surfaces, even on polishes, brushed and laminated plates
- Oxide layer removal
- Considerable reduction of processing costs
- Setting of grinding heads beneath roller table level possible



The process has significantly enhanced our product quality, while at the same time reducing the processing time for deburring by 90%.



## Making sharp edges a thing of the past the double-sided EdgeRacer® – always a good choice

Double sided deburring in a single run – naturally with 100% reproducible results and precision processing of inner and outer contours – that's what you get with the EdgeRacer®!



### The double sided EdgeRacer optimal results in a single run

The double sided EdgeRacer® is the perfect solution for strongly formed components and precision double sided edge rounding and deburring. This is the first machine of its kind worldwide in series production offering double-sided deburring with reproducible results even on 3D processing. The setting of the brushes above and below the components can be individually adjusted for ensuring optimal results.

## How it's done –

### Process description

The EdgeRacer® was specially constructed for the even edge rounding and deburring of outer and inner contours in sheet metal and plane parts. The parts to be processed are laid on the transport roller table in front of the machine and fed into the EdgeRacer®. In a single run the top and bottom surfaces are simultaneously processed, so that the finished parts can be fed directly on to the next production step.



Everything at a glance:  
The menu of the  
double-sided EdgeRacer®

### Facts and figures

<b>Operative width:</b>	1,000 / 1,500 / 2,000 mm
<b>Processing speed:</b>	100 / 200 / 300 m <sup>2</sup> /h
<b>Component length:</b>	min. 380 mm, shorter on pallets
<b>Component thickness:</b>	up to 50 mm
<b>Rounding degree:</b>	adjustable
<b>Insert height:</b>	880 mm + 100 mm
<b>Area required*:</b>	2,300 x 2,600 x 2,500 mm
<b>Weight*:</b>	approx. 4,000 kg
<b>Electrical connection:</b>	3 x 400 V, 50 Hz, 25 kVA
<b>Extraction output required:</b>	min. 5,000 cbm/h
<b>Sound level:</b>	≤ 65 db

\* Values refer to the EdgeRacer® ER 1500 D



## Sheet metal cleaning with the Washer

- Compact, space-saving design
- Double-sided cleaning and drying in a single run
- Parts are immediately ready for further processing
- Parts are optimally prepared for later application
- High flexibility: Use either interlinked or as a stand-alone machine
- Can be used either before or after deburring
- Connection in existing line possible
- High throughput rate
- Low investment costs
- Low operating costs

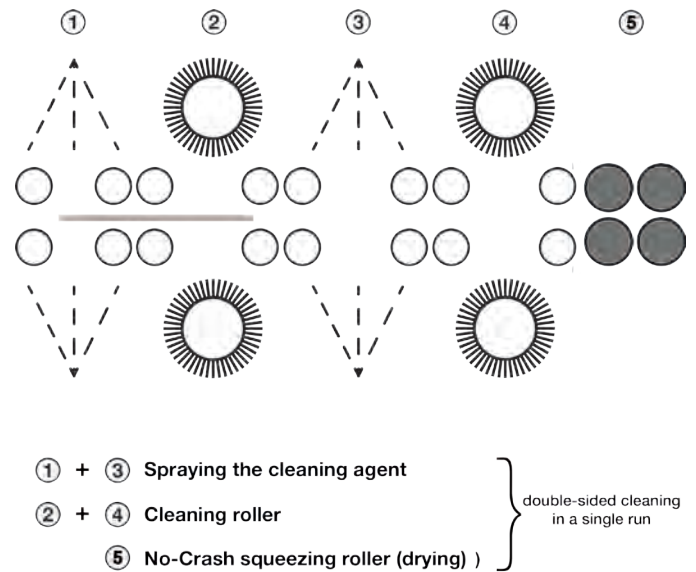




## Compact and flexible the Washer – a clean solution

Of particular interest to those customers processing punched and fine-blanked parts: Our sheet metal cleaning machine the Washer. Compact design, high flexibility and low investment cost are convincing features of this high performance through-feed cleaning machine.

The Washer is the first compact cleaning machine of its kind operating in through-feed process. The real strength of the machine becomes apparent in interaction with the Edge-Racer®: Even double plane formed components can be easily cleaned. Interlinking the machines saves valuable time and resources while maintaining the accustomed high quality.



Sheet in typical uncleaned state



Sheet after cleaning

## How it's done – Process description

The parts to be cleaned are laid on the transport roller table and fed into the machine. In two following steps the cleaning agent is sprayed on and allowed to work for a short period. This is followed by the mechanical cleaning process. The wringer rolls remove any residual water, allowing the cleaned, dried and perfectly prepared parts to be directly further processed.\* In a final step the parts can also be immediately treated.

\* Residual soiling is possible, depending on the initial degree

## Facts and figures

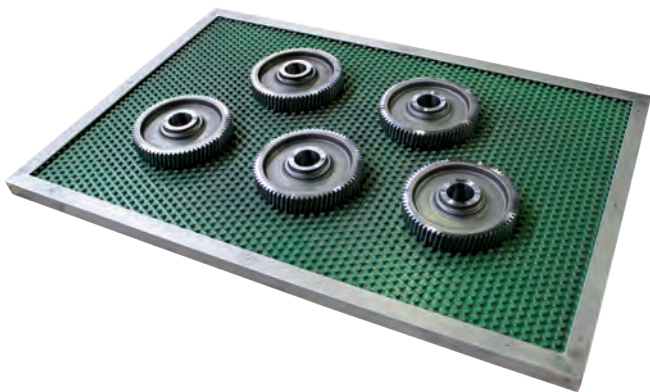
- Operative width:** . . . . . 1,000 / 1,500 / 2,000 mm
- Processing speed:** . . . . . 350 / 500 / 700 m<sup>2</sup>/h
- Component length:** . . . . . min. 380 mm, shorter on pallets
- Component thickness:** . . . . . up to 50 mm
- Insert height:** . . . . . 880 mm + 100 mm
- Area required\*:** . . . . . 1,250 x 2,600 x 2,500 mm
- Weight\*:** . . . . . approx. 2,000 kg
- Electrical connection:** . . . . . 3 x 400 V, 50 Hz, 40 kVA
- Sound level:** . . . . . ≤ 72 db

\* Values refer to sheet metal cleaning machine Washer W 1500

# Component processing

## Customised solutions multifunctional systems

Providing »customised solutions« means for us adapting our established concepts to the specific demands and requirements of the client. The resulting modules can be readily selected according to the given application.

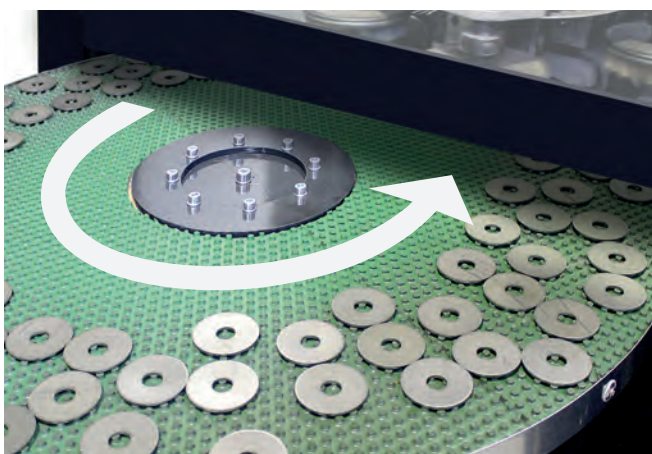


### The component carrier

The component carrier was designed for the trouble-free processing of small parts: These can be placed on the pallet and then processed in the machine, ensuring optimal results without any risk of disturbing the through-flow.

### The component conveyor

The component conveyor was designed for the fully automatic processing of larger quantities of small parts and can be readily inserted into the EdgeRacer® as required. As with the pallet a special high-grip surface ensures safe transport of the parts through the process.



### The rotary table

The newly developed rotary table effectively upgrades the EdgeRacer® to fulfil your own specific requirements in small part processing. The table rotates through a lateral slot in the machine door, which has the advantage that the standard through-feed process can continue undisturbed. The rotary table allows simultaneous small part processing on the EdgeRacer® without interrupting the operating process.

# A great selection of sophisticated tools

## Grinding systems for every application

rapid change – always ready

- Flexible, high-tech ceramic strips
- Long service life
- User defined cuts and lengths
- Double-sided processing of thin metal sheet with a single grinding head optionally
- Optional tools for oxide layer removal



## Service



## The Service-Train perfectly prepared

The service train is the key to perfect organisation. The tool trolley offers storage for changeover sets, keeping them organised and perfectly prepared for ensuring the shortest possible changeover times.



## Tailored to your needs

In the interest of further enhancing your processing efficiency we also offer a range of additional equipment, such as:

- dust extraction systems,
- material handling systems,
- transport rollers.

All according to your requirements.





## REQUIREMENTS SPECIFICATIONS

**I am interested in the following solution for future-proof deburring:**

**EdgeRacer® E-Serie** (single-sided deburring) \_\_\_\_\_

**EdgeRacer® D-Serie** (double-sided deburring) \_\_\_\_\_

desired processing width \_\_\_\_\_  mm

**EdgeRacer® Washer** (double-sided sheet metal cleaning) \_\_\_\_\_

desired cleaning width \_\_\_\_\_  mm

**Small parts deburring** (< 210 x 310 mm)

Workpiece pallet \_\_\_\_\_

Workpiece conveyour belt \_\_\_\_\_

Workpiece turntable \_\_\_\_\_

**I am interested in processing the following materials:**

steel  stainless steel  aluminium  titanium  other: \_\_\_\_\_

**Dust extraction available?** NO  YES

**I require further information on**

Transport rollers \_\_\_\_\_

Material Handling Systems \_\_\_\_\_

Service-Train \_\_\_\_\_

**I require individual consultation** NO  YES

**I would like to test my own samples on the EdgeRacer®** NO  YES

**Please send me a quotation** NO  YES

Comments / Notes \_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

Company

\_\_\_\_\_

Contact person

\_\_\_\_\_

Phone / E-Mail