LISSMAC – EINE STARKE MARKE
# MACHINE CONCEPTS

## SBM SERIES
- SBM-XS G1E1
- SBM-M B2
- SBM-M S2
- SBM-M D2
- SBM-L G1S2
- SBM-XL S2B2
- SBM-XL G2S2

## SMD 1 SERIES
- SMD 123 RE
- SMD 133 DRE

## SMD 3 SERIES / SMD 5 SERIES
- SMD 3 S-EDITION
- SMD 3 P-EDITION
- SMD 5

## SMW 5 SERIES
- SMW 5
MACHINE CONCEPTS

THE LISSMAC METAL PROCESSING PRODUCT RANGE COMBINES VARIOUS MACHINE CONCEPTS AND THUS OFFERS AN OPTIMUM SOLUTION FOR EVERY CUSTOMER REQUIREMENT.

>> BOTH SIDES - ONE WORK STEP

In the dry processing method, the highly efficient double-sided processing of all cut contours (outside and inside contours) on sheets is done in only one work process. Double-sided synchronous processing offers highest productivity in the production process of our customers. The processing principle of LISSMAC systems guarantees across the entire working with optimal tool utilisation because the processing of the workpiece is always crossways to the feed direction. The LISSMAC system portfolio comprises three machine series. Depending on customer requirements, the M, L or XL series is used. These series differ in the number of assemblies for workpiece processing.
**SINGLE SIDED - DRY**

The product range of single-sided dry grinding machines includes the particularly economical entry-level models of the SMD 1 series. Their range of applications extends from deburring and all-round edge rounding to the removal of heavy plasma or flame-cut slag.

In the high-performance segment, the freely configurable models of the SMD 5 series show their strengths as real multi-talents for deburring and surface finishing. Thanks to their modular design, innovative technology (e.g. ECS Edge Contour System) and up to 5 processing units, the SMD 5 machines can be flexibly adapted.

**SINGLE SIDED - WET**

The SMW 5-series with its flexible configuration is a wet system for high-end deburring and finishing of sheet metal parts. The modular configuration, innovative technology (e.g. the ECS – Edge contour System) and up to 4 working stations makes the SMW 5-series the ideal solution to meet many different customer requirements.
The SBM series from LISSMAC sets standards in innovative sheet metal processing. In the dry processing method, the highly efficient double-sided processing of all cutting contours (outer and inner contours) on sheet metal takes place in just one work process. Synchronous machining on both sides offers maximum productivity and the best machining results.
SBM-XS 300 G1E1

DEBURRING AND EDGE ROUNDELING ON BOTH SIDES OF SMALL COMPONENTS IN ONE SINGLE PASS

- Extremely space-saving design
- Simple operation
- Processing of long components
- Infeed and outfeed on operator side
- Directionless machining
- Innovative turning station

FURTHER INFORMATION:

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th>SBM-XS 300 G1E1</th>
<th>SBM-XS 300 G1E1 ALU MIX</th>
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<td>Workable material thickness</td>
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<td>1 - 15 mm</td>
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<tr>
<td>Voltage</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
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<tr>
<td>Network structure</td>
<td>3~ PEN / 3~ PE+N</td>
<td>3~ PEN / 3~ PE+N</td>
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<tr>
<td>Total current consumption</td>
<td>13.5 A / 14 A</td>
<td>24 A / 23 A</td>
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<tr>
<td>Total power</td>
<td>7.5 kW / 8.5 kW</td>
<td>14 kW / 15.2 kW</td>
</tr>
<tr>
<td>Insulation class</td>
<td>IP 42</td>
<td>IP 42</td>
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<tr>
<td>Infinitely variable feed speed</td>
<td>0 - 2 m/min</td>
<td>0 - 2 m/min</td>
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<tr>
<td>Weight approx.</td>
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<td>1450 kg</td>
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<tr>
<td>Dimensions (W/D/H)</td>
<td>1300/2300/1900 mm</td>
<td>1300/2300/1900 mm</td>
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</table>
- With a magnetic table designed for part dimensions of 25 x 25 x 1 mm up to maximum 200 x 200 x 15 mm (geometry-dependent)
- With vacuum table for part dimensions of 45 x 45 x 1 mm up to maximum 200 x 200 x 15 mm (geometry-dependent)
- Time consuming turn-over of parts with a second pass is not necessary
- Swinging away of the innovative turning station makes it possible to deburr parts longer than 200 mm
- A higher level of automation ensures an economic and reliable deburring process, also for large quantities of parts
- A high and sustainable deburring quality.
- Dry deburring process (no chemical additives as used in tumblers)
- Small parts are returned to the front of the machine and gathered in a box. No extra walking back and forth for the operator.
- Energy-efficient
- The deburring process ensures an even wear of the belt and brushes across the entire width of the machine
- Fast and simple tool Change
- Simple and intuitive operation of the machine
- Modern, compact machine design

OPTIONS

[1] Parts slide
[2] Table extension
SBM-M B2

OXIDE LAYER REMOVAL ON BOTH SIDES IN ONE OPERATION

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
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<tr>
<td>Workable material thickness</td>
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<tr>
<td>Load</td>
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<tr>
<td>Voltage</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
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<tr>
<td>Network structure</td>
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<tr>
<td>Dimensions (W/D/H)</td>
<td>3100/1400/1800 mm</td>
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</tbody>
</table>

FURTHER INFORMATION:

- No extraction necessary
- Simple operation
- Uniform tool wear
- Chipless machining
- Compact design

OXIDE LAYER REMOVAL ON BOTH SIDES IN ONE OPERATION

- No extraction necessary
- Simple operation
- Uniform tool wear
- Chipless machining
- Compact design

FURTHER INFORMATION:
• Oxide removal in one single pass on all inside and outside edges of sheet and plate up to 20 mm material thickness
• No need to turn sheets over and running them through the machine again
• Up to 60 % work time savings compared to one-side processing brush machines
• Highest quality during subsequent processing or finishing
• Simultaneous brushing of interior and exterior contours
• All sharp edges blended
• Improved surface quality from removal of rust, scale and dirt
• Protective oil film remains intact
• The cross-machining principle guarantees optimum tool utilisation over the entire working width.
• Simple, intuitive operation
• Faster and simpler tool change within just a few minutes
• Modular and compact in modern machine design - smaller footprint
• Improved work environment - Reduction of dust, dirt and noise

OPTIONS

[1] Special molding for processing of small parts
SBM-M S2

EDGE ROUNding ON BOTH SIDES IN ONE OPERATION

FURTHER INFORMATION:

Quick tool change
High tolerance compensation
Simple operation
Uniform tool wear
Compact design

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<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
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<tr>
<td>Network structure</td>
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<td>3~ PEN / 3~ PE+N</td>
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<td>28 A / 24 A</td>
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<tr>
<td>Total power</td>
<td>15.2 kW / 15.5 kW</td>
<td>15.2 kW / 15.5 kW</td>
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<tr>
<td>Insulation class</td>
<td>IP 42</td>
<td>IP 42</td>
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<tr>
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<tr>
<td>Weight</td>
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<td>2300 kg</td>
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<td>Dimensions (W/D/H)</td>
<td>2800/1400/1800 mm</td>
<td>3300/1400/1800 mm</td>
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</tbody>
</table>
- Deburring and edge rounding of sheet and plate up to 50 mm material thickness
- No need to turn sheets over and running them through the machine again
- Up to 60% work time savings compared to one-side processing grinding machines
- Highest quality during subsequent processing or finishing
- Simultaneous edge rounding of interior and exterior contours
- The cross-machining principle guarantees uniform tool utilisation over the entire working width.
- Protective foil on the sheets is not damaged during machining
- Dry operation
- Simple, intuitive operation
- Each tool unit can be separately electrically operated and adjusted
- Hydraulic belt tension – fast tool change within only a few minutes
- Modular and compact in modern machine design - smaller footprint
- Improved work environment - Reduction of dust, dirt and noise

[1] Special molding for processing of small parts
SBM-M D2

REMOVAL OF SLAG FROM BOTH SIDES IN ONE OPERATION

FURTHER INFORMATION:
- Linking possible
- No extraction necessary
- SMART-GRINDING-APPROVED
- Ergonomic and intuitive operation
- Long tool life
- Chipless machining
- Uniform tool wear
- Compact design

<table>
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<td>Load</td>
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<td>Voltage</td>
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<td>Network structure</td>
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<tr>
<td>Total current consumption</td>
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<tr>
<td>Total power</td>
<td>7.7 kW / 7.9 kW</td>
</tr>
<tr>
<td>Insulation class</td>
<td>IP 42</td>
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<tr>
<td>Infinitely variable feed speed</td>
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<td>2100 kg</td>
</tr>
<tr>
<td>Dimensions (W/D/H)</td>
<td>3100/1400/1800 mm</td>
</tr>
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</table>
- Two-side slag removal of plasma and thermal cut sheets up to 120 mm
- Saving of tool costs incurred by mechanical deslagging – no time-consuming and expensive grinding
- Two-side slag removal saves the time intensive turning of the often very heavy workpieces or machining of parts twice
- Up to 60% work time savings compared to one-side processing machines
- Modular and compact in modern machine design - smaller footprint
- Dry operation
- The cross-machining principle guarantees uniform tool utilisation over the entire working width.
- Upper and lower assemblies separated can be adjusted or turned on and off electrically
- Innovative tooling and material feed system allows for optimum handling of burrs and uneven surface of pieces
- Maximum productivity while maintaining machining quality
- Improved work environment - Reduction of dust, dirt and noise

OPTIONS

[1] Bar code scanner for SBM Siemens S7
[2] Wireless thickness caliper ME 5000 (Siemens S7)
[3] ID-key switch (for Siemens S7 PLC)
[4] Special molding for processing of small parts
SBM-L G1S2

DEBURRING AND EDGE Rounding ON BOTH SIDES IN ONE OPERATION

<table>
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<th>SBM-L 1500 G1S2</th>
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<td>2000 mm</td>
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<td>Workable material thickness</td>
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<td>0.5 - 50 mm</td>
<td>0.5 - 50 mm</td>
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<tr>
<td>Load</td>
<td>300 kg/rm</td>
<td>300 kg/rm</td>
<td>300 kg/rm</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
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<tr>
<td>Network structure</td>
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<td>3<del>PEN / 3</del>PE+N</td>
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<td>Total current consumption</td>
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<td>43.7 A / 40.8 A</td>
</tr>
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<td>Total power</td>
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<td>19.2 kW / 20.4 kW</td>
<td>19.2 kW / 20.4 kW</td>
</tr>
<tr>
<td>Insulation class</td>
<td>IP 42</td>
<td>IP 42</td>
<td>IP 42</td>
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<tr>
<td>Infinitely variable feed speed</td>
<td>0-4 m/min</td>
<td>0-4 m/min</td>
<td>0-4 m/min</td>
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<td>3300/1500/1800 mm</td>
<td>4000/1500/1800 mm</td>
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</table>

FURTHER INFORMATION:
- Energy saving
- Compact design
- Uniform tool wear
- Widest range of applications
- Up to 2 m working width
- Quick tool change
- Fast positioning of all units
- SMART-GRINDING-APPROOFED
- Uniform tool wear
- Energy saving
- Uniform tool wear
- Widest range of applications
- Up to 2 m working width
- Quick tool change
- Fast positioning of all units
- SMART-GRINDING-APPROOFED
- Deburring and edge rounding of parts up to 50 mm material thickness
- Removal of spots on the sheet metal surface
- Processing both sides of the parts simultaneously eliminates the need of turning heavy parts and processing them for a second time
- Simultaneous deburring and edge rounding of interior and exterior contours
- Dry operation
- Simple, intuitive operation
- The processing units can be individually adjusted or turned on and off electrically.
- Maximum productivity while maintaining machining quality
- The cross-machining principle guarantees optimum tool utilisation over the entire working width.
- Faster and simpler tool change within just a few minutes
- Modular and compact in modern machine design - smaller footprint
- Improved work environment - Reduction of dust, dirt and noise
- SMART-Features (optional): Automatische Werkzeugverschleißkompensation, Automatische Blechdickenmessung, Barcode-Scanner, uvm.

OPTIONS

1. Tool wear compensation SBM-L Siemens S7
2. Bar code scanner for SBM Siemens S7
3. Wireless thickness caliper ME 5000 (Siemens S7)
4. ID-key switch (for Siemens S7 PLC)
5. Special molding for processing of small parts
SBM-XL S2B2

EDGE Rounding ON BOTH SIDES AND OXIDE LAYER REMOVAL IN ONE OPERATION

**FURTHER INFORMATION:**

- Separate oxide layer removal possible
- Separate edge rounding possible
- SMART-GRINDING-APPROOVED
- Ideal preparation for coating
- Energy saving

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>SBM-XL 1500 S2B2</th>
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<td><strong>Workable material thickness</strong></td>
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<tr>
<td><strong>Load</strong></td>
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<tr>
<td><strong>Voltage</strong></td>
</tr>
<tr>
<td><strong>Network structure</strong></td>
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<tr>
<td><strong>Total current consumption</strong></td>
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<tr>
<td><strong>Total power</strong></td>
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<tr>
<td><strong>Insulation class</strong></td>
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<tr>
<td><strong>Infinitely variable feed speed</strong></td>
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<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Dimensions (W/D/H)</strong></td>
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</tbody>
</table>
Deburring and edge rounding of parts up to 120 mm material thickness
- Processing both sides of the parts simultaneously eliminates the need of turning heavy parts and processing them for a second time
- Simultaneous deburring and edge rounding on interior and exterior contours
- Dry operation
- Simple, intuitive operation
- The processing units can be individually adjusted or turned on and off electrically.
- Maximum productivity while maintaining machining quality
- The cross-machining principle guarantees optimum tool utilisation over the entire working width.
- Faster and simpler tool change within just a few minutes
- Modular and compact in modern machine design - smaller footprint
- Improved work environment - Reduction of dust, dirt and noise
- For repeated customer requirements, processing parameters can be called up quickly and easily through predefined programs.
- Up to 60 % work time savings compared to one-side processing grinding machines

OPTIONS

1. Tool wear compensation SBM-XL Siemens S7
2. Bar code scanner for SBM Siemens S7
3. Wireless thickness caliper ME 5000 (Siemens S7)
4. ID-key switch (for Siemens S7 PLC)
5. Special molding for processing of small parts
SBM-XL G2S2

DEBURRING AND EDGE ROUNDED ON BOTH SIDES IN ONE OPERATION

FURTHER INFORMATION:

- Solid construction
- SMART-GRINDING-APPROOFED
- High tolerance compensation
- High load capacity
- Slag downwards
- Powerful grinding units
- No turning of the components necessary

### TECHNICAL DATA

<table>
<thead>
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<th>SBM-XL 1500 G2S2</th>
<th>SBM-XL G2S2</th>
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</table>
Edge rounding and oxide removal of laser cut parts
- Two-side edge rounding and oxide removal saves the cost intensive turning of often very heavy workpieces or machining of parts twice
- Consistent edges on all outside and inside contours
- Dry operation
- Simple, intuitive operation
- The processing units can be individually adjusted or turned on and off electrically.
- Maximum productivity while maintaining machining quality
- The cross-machining principle guarantees optimum tool utilisation over the entire working width.
- Faster and simpler tool change within just a few minutes
- Modular and compact in modern machine design - smaller footprint
- Improved work environment - Reduction of dust, dirt and noise
- For repeated customer requirements, processing parameters can be called up quickly and easily through predefined programs.
- Up to 60 % work time savings compared to one-side processing grinding machines

OPTIONS

- Tool wear compensation SBM-XL Siemens S7
- Bar code scanner for SBM Siemens S7
- Wireless thickness caliper ME 5000 (Siemens S7)
- ID-key switch (for Siemens S7 PLC)
- Special molding for processing of small parts
The product range of single-sided dry grinding machines includes the particularly economical entry-level models of the SMD 1 series. Their range of applications extends from deburring and all-round edge rounding to the removal of heavy plasma or flame-cut slag.
SMD 123 RE

DEBURRING / EDGE ROUNING / FINISHING

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**COMPACT DESIGN**

- Energy-saving and quiet, as no vacuum is required
- Directionless machining
- Components from small to large
- Effective/optimal conveyor belt cleaning

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**FURTHER INFORMATION:**

- Ergonomic and intuitive operation
- Directionless machining
- Energy-saving and quiet, as no vacuum is required
- Components from small to large
- Effective/optimal conveyor belt cleaning

---

**TECHNICAL DATA**

<table>
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<tr>
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<td>Total power</td>
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<tr>
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<td>0.5 - 8 m/min</td>
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<td>1750 kg</td>
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<tr>
<td>Dimensions (W/D/H)</td>
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</tr>
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• Versatile entry-level machine
• Removal of burrs (laser/punching/plasma-cutting)
• Two rotary wheels for consistent edge rounding and uniform surface finishing
• Surface polish without complex set-up work
• Suitable for steel, stainless steel, and aluminum
• Suitable for parts with up-forms
• Touch panel for intuitive operation
• Individual aggregates can be operated independently of each other
• Stepless grinding belt speed
• Quick and easy tool change
• Space efficient footprint

OPTIONS

Conveyor belt cleaning
SMD 133 DRE

SLAG REMOVAL / EDGE ROUNding

TECHNICAL DATA

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<th>SMD 133 DRE</th>
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</table>

FURTHER INFORMATION:

- Cost-effective machining
- Ergonomic and intuitive operation
- High stock removal rate
- Cool grinding / hardly any heat input into the workpiece
- Directionless machining
- Compact design

SLAG REMOVAL / EDGE ROUNding

- Directionless machining
- Compact design
- High stock removal rate
- Cool grinding / hardly any heat input into the workpiece
- Ergonomic and intuitive operation
- Cost-effective machining

FURTHER INFORMATION:

- Cost-effective machining
- Ergonomic and intuitive operation
- High stock removal rate
- Cool grinding / hardly any heat input into the workpiece
- Directionless machining
- Compact design

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SMD 133 DRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width max.</td>
<td>950 mm</td>
</tr>
<tr>
<td>Workable material thickness</td>
<td>3 - 100 mm</td>
</tr>
<tr>
<td>Load</td>
<td>300 kg/rm</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
</tr>
<tr>
<td>Network structure</td>
<td>3-PEN / 3-PE+N</td>
</tr>
<tr>
<td>Total current consumption</td>
<td>51.4 A / 51.4 A</td>
</tr>
<tr>
<td>Total power</td>
<td>23.5 kW / 23.9 kW</td>
</tr>
<tr>
<td>Insulation class</td>
<td>IP 42</td>
</tr>
<tr>
<td>Infinitely variable feed speed</td>
<td>0.5 - 8 m/min.</td>
</tr>
<tr>
<td>Weight</td>
<td>2900 kg</td>
</tr>
<tr>
<td>Dimensions (W/D/H)</td>
<td>1595/2665/1906 mm</td>
</tr>
</tbody>
</table>
- Removing slag, deburring and edge rounding in one throughfeed pass, saves time.
- The mechanical removal of slag by power-pins gives long tool life and reduces grinding costs enormously.
- A soft, large diameter, contact roller, enables to process warped parts and accepts thickness tolerances.
- Our 2 rotary heads give a perfectly even edge rounding.
- Both mild- and stainless steels can be processed.
- Intuitive controls make it easy to operate the machine.
- Individual operation of each head.
- High quality and solid construction.
- The optimum accessibility of the machine enables easy tool change, cleaning and maintenance.
- The compact construction of the machine requires limited floor space.

OPTIONS

[1] Special molding for processing of small parts.
In the high-performance segment, the versatile models of the SMD 3 series are convincing. The range of applications extends from slag removal, deburring and uniform edge rounding up to a radius of 2.0 mm to surface finishing and small parts machining. The range is completed by the SMD 5 series. The freely configurable models show their strength as real multi-talents for deburring and surface finishing.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>SMD 335 REE</th>
<th>SMD 335 RER</th>
<th>SMD 345 REER</th>
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</thead>
<tbody>
<tr>
<td>Working width max.</td>
<td>1350 mm</td>
<td>1350 mm</td>
<td>1350 mm</td>
</tr>
<tr>
<td>Workable material thickness</td>
<td>1 - 120 mm</td>
<td>1 - 120 mm</td>
<td>1 - 120 mm</td>
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<tr>
<td>Load (1)</td>
<td>500 kg/rm</td>
<td>500 kg/rm</td>
<td>500 kg/rm</td>
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<tr>
<td>Voltage</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
</tr>
<tr>
<td>Network structure</td>
<td>3<del>PEN / 3</del>PE+N</td>
<td>3<del>PEN / 3</del>PE+N</td>
<td>3<del>PEN / 3</del>PE+N</td>
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<td>Total current consumption</td>
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<td>76.5 A / 76.5 A</td>
<td>86.2 A / 86.2 A</td>
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<tr>
<td>Total power</td>
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<td>37.5 kW / 37.5 kW</td>
<td>41.9 kW / 41.9 kW</td>
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<tr>
<td>Insulation class</td>
<td>IP 42</td>
<td>IP 42</td>
<td>IP 42</td>
</tr>
<tr>
<td>Infinitely variable feed speed</td>
<td>0.3 - 8.0 m/min</td>
<td>0.3 - 8.0 m/min</td>
<td>0.3 - 8.0 m/min</td>
</tr>
<tr>
<td>Weight</td>
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<td>5200 kg</td>
<td>5800 kg</td>
</tr>
<tr>
<td>Dimensions (W/D/H)</td>
<td>2170/3300/2260 mm</td>
<td>2170/3800/2260 mm</td>
<td>2170/3800/2260 mm</td>
</tr>
</tbody>
</table>

Specifications apply to the basic machine (PowerGrip-belt), without vacuum table/magnetic track /load with vacuum table 300 kg/rm

**FURTHER INFORMATION:**

- Versatile for all customer requirements - from R2 edge rounding to finishing
- Uniform edge rounding and multi-directional finish thanks to several brush heads
- 40% higher tool contact for outstanding results on edges
- Processing of very small workpieces by PowerGrip belt, magnetic track or vacuum table
- 30% less installation spaces thanks to space-saving design of the units
- Possibility of automation & integration in production lines

**OUTSTANDING RESULTS ON THE EDGE AND ON SURFACE**

- 40% higher tool contact for outstanding results on edges
- Uniform edge rounding and multi-directional finish thanks to several brush heads
- Possibility of automation & integration in production lines
Versatile for all customer requirements - from R2 edge rounding to finishing
- Uniform edge rounding and multi-directional finish thanks to several brush heads
- Creation of high-end grinding patterns and strong edge rounding
- Processing of sheets with coating, laser foil, imprints or punched-out holes
- Suitable for processing various materials including steel, stainless steel and aluminium
- Simultaneous processing of different material thicknesses is possible (E-units)
- The thought-out design of the rotary heads ensure an even processing result over the whole working width.
- Maximum tool contact with the workpieces for perfect edge rounding up to 2 mm radius
- Efficient processing of small parts (down to 50x50 mm), whatever the geometry of the pieces
- Stationary machine table - Constant table height for ergonomic work
- Intuitive operation thanks to clear touch panel
- Fast machine setting by automatic positioning of the tool axes.
- Program memory takes care of automatic machine settings and reproducible processing results
- Fast tool-changing system keeps set-up times to a minimum
- Optimal machine accessibility facilitates cleaning and maintenance
- Window in the machine doors allows to monitor the process
- Appropriate options and features for individual customer requirements

**S-EDITION: AVAILABLE CONFIGURATIONS**

- Brush infeed table
- Magnetic track 400 mm
- Vacuum table
- Automatic conveyor belt cleaning
- Conveyor belt cleaning brush
- EMZR - electro-motor positioning grinding head
- Bar code scanner
- Wireless thickness caliper ME 5000
- 1D-key switch

**OPTIONS**
**SMD 3 P-EDITON**

**HIGHEST-END EDGE ROUNGING**

- Versatile for all customer requirements - from R2 edge rounding to finishing
- Uniform edge rounding and multi-directional finish thanks to several brush heads
- 40% higher tool contact for outstanding results on edges
- Processing of very small workpieces by PowerGrip belt, magnetic track or vacuum table
- 30% less installation spaces thanks to space-saving design of the units
- Possibility of automation & integration in production lines

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**FURTHER INFORMATION:**

- Versatile for all customer requirements - from R2 edge rounding to finishing
- Uniform edge rounding and multi-directional finish thanks to several brush heads
- 40% higher tool contact for outstanding results on edges
- Processing of very small workpieces by PowerGrip belt, magnetic track or vacuum table
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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th></th>
<th>SMD 335 REE</th>
<th>SMD 345 REER</th>
<th>SMD 335 DRE</th>
<th>SMD 345 DREE</th>
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<tbody>
<tr>
<td>Working width max.</td>
<td>1350 mm</td>
<td>1350 mm</td>
<td>1350 mm</td>
<td>1350 mm</td>
</tr>
<tr>
<td>Workable material thickness</td>
<td>1 - 120 mm</td>
<td>1 - 120 mm</td>
<td>1 - 120 mm</td>
<td>1 - 120 mm</td>
</tr>
<tr>
<td>Load</td>
<td>500 kg/rm</td>
<td>500 kg/rm</td>
<td>500 kg/rm</td>
<td>500 kg/rm</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
<td>400 V, 50 Hz / 480 V, 60 Hz</td>
</tr>
<tr>
<td>Network structure</td>
<td>3<del>PEN / 3</del>PE+N</td>
<td>3<del>PEN / 3</del>PE+N</td>
<td>3<del>PEN / 3</del>PE+N</td>
<td>3<del>PEN / 3</del>PE+N</td>
</tr>
<tr>
<td>Total current consumption</td>
<td>58.9 A / 59 A</td>
<td>87.6 A / 87.6 A</td>
<td>56 A / 55.6 A</td>
<td>68.1 A / 67.7 A</td>
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<tr>
<td>Total power</td>
<td>26.9 kW / 26.9 kW</td>
<td>41.9 kW / 41.9 kW</td>
<td>25.5 kW / 25.5 kW</td>
<td>30 kW / 30 kW</td>
</tr>
<tr>
<td>Insulation class</td>
<td>IP 42</td>
<td>IP 42</td>
<td>IP 42</td>
<td>IP 42</td>
</tr>
<tr>
<td>Infinitely variable feed speed</td>
<td>0.3 - 8.0 m/min</td>
<td>0.3 - 8.0 m/min</td>
<td>0.3 - 8.0 m/min</td>
<td>0.3 - 8.0 m/min</td>
</tr>
<tr>
<td>Weight</td>
<td>5000 kg</td>
<td>5300 kg</td>
<td>6000 kg</td>
<td>5300 kg</td>
</tr>
<tr>
<td>Dimensions (W/D/H)</td>
<td>2170/3300/2260 mm</td>
<td>2170/3800/2260 mm</td>
<td>2170/3800/2260 mm</td>
<td>2170/3800/2260 mm</td>
</tr>
</tbody>
</table>

Specifications apply to the basic machine (PowerGrip-belt), without magnetic track.
- Reduced tool costs by mechanical slag removal; no expensive grinding necessary
- Cool grinding - hardly any heat entry into the workpiece
- Warpage and tolerance compensation by large, soft contact roller
- Perfect edge rounding up to 2 mm radius
- Suitable for processing various materials including steel, stainless steel and aluminium
- Simultaneous processing of different material thicknesses is possible (E-units)
- The thought-out design of the rotary heads ensure an even processing result over the whole working width.
- Maximum tool contact with the workpieces for perfect edge rounding up to 2 mm radius
- Efficient processing of small parts (down to 50x50 mm), whatever the geometry of the pieces
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- Intuitive operation thanks to clear touch panel
- Fast machine setting by automatic positioning of the tool axes.
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- Fast tool-changing system keeps set-up times to a minimum
- Optimal machine accessibility facilitates cleaning and maintenance
- Window in the machine doors allows to monitor the process
- Appropriate options and features for individual customer requirements

P-EDITION: AVAILABLE CONFIGURATIONS

- Brush infeed table
- Magnetic track 400 mm
- [1] Vacuum table
- Automatic conveyor belt cleaning
- EMZR - electro-motor positioning grinding head
- Bar code scanner
- [3] Wireless thickness caliper ME 5000
- [4] 1D-key switch
SMD 5

DEBURRING / EDGE ROUNding / OXIDE LAYER REMOVAL / FINISHING

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>SMD 5</th>
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</thead>
<tbody>
<tr>
<td>Working width</td>
<td>1350 / 1650 mm</td>
</tr>
<tr>
<td>Workable material thickness</td>
<td>0.5 - 160 mm</td>
</tr>
<tr>
<td>No. of heads</td>
<td>2 – 5</td>
</tr>
<tr>
<td>Compressed air</td>
<td>6.0 bar</td>
</tr>
<tr>
<td>Abrasive belt length</td>
<td>2620 mm</td>
</tr>
</tbody>
</table>

VERSATILE USE FOR ALL CUSTOMER REQUIREMENTS – FROM DEBURRING, EDGE ROUNding TO FINISHING

FURTHER INFORMATION:

- Freely configurable up to 5 units
- Can be optionally equipped with abrasive belt, planetary head, top brush or barrel brush units
- Programme storage possible
- Small parts processing using a vacuum table or magnetic track
- Interchangeable cassette system allows flexible adaptation of the machine configuration
· Surface machining or deburring of workpieces up to 160 mm sheet metal thickness
· Freely configurable – individually customised to the customer’s requirement
· High quality surface finish
· Simultaneous deburring of interior and exterior contours
· Dry machining
· Simple, intuitive operation
· The processing units can be individually adjusted or turned on and off electrically.
· Maximum productivity while maintaining machining quality
· Faster and simpler tool change within just a few minutes
· Modular and compact in modern machine design - smaller footprint
· Improved work environment - Reduction of dust, dirt and noise
· Can be used for a wide variety of materials – e.g., metals, plastics, rubber, etc.

OPTIONS

[1] Wireless thickness caliper ME 5000 (Siemens S7)
[2] Brush outfeed table
[5] Special molding for processing of small parts
The freely configurable wet-grinding models of the SMW 5 series are particularly convincing due to precise-fit machining for high-quality components and material mix. Thanks to the modular design and up to four machining units, these machines can also be flexibly adapted to changing customer requirements.
TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SMW 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width</td>
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<tr>
<td>Workable material thickness</td>
<td>950 / 1350 / 1850 mm</td>
</tr>
<tr>
<td>No. of heads</td>
<td>0.5 - 120 mm</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V, 50 Hz</td>
</tr>
<tr>
<td>Network structure</td>
<td>3~ PEN / 3~ PE+N</td>
</tr>
<tr>
<td>Insulation class</td>
<td>IP 42</td>
</tr>
</tbody>
</table>

FURTHER INFORMATION:
- Corrosion protection after machining
- No extraction necessary
- Safe machining of explosive materials
- Unique finishing
- Planetary head unit: consistent rounding, even wear
- SMART-GRINDING-APPROOFED
- Programme storage possible
- Processing of mixed material and oily pieces
- Ergonomic and intuitive operation
- No heat input
- Short set-up times with material mix
- Time saving operation when deburring and finishing in one pass
- Maximum protection when mixing critical parts such as aluminium, magnesium or titanium.
- No material contamination gives high quality parts, reduces tool change times and avoids re-work
- The cool process reduces the heat development in your parts
- Greasy parts can effectively be processed in a wet machine
- Wet grinding gives excellent results
- The dust free process keeps the working area clean for the operator and reduces health risks
- Clean parts after processing
- Intuitive operation via touch panel
- The efficient, external filtration unit gives long life of coolant and optimum working results. Besides this it provides maximum flexibility in the layout and easy access.

OPTIONS

| 1 | Wireless thickness caliper ME 5000 (Siemens S7) |
| 2 | Brush outfeed table |
|    | KSS filter unit |