FUSING

Competence in

Ideas that bond.
Since 1949, we have been writing internationally successful machine history when it comes to subject of bonding, coating, pressing, or molding.

We welcome the opportunity to convince you – visit us at our facility and take the opportunity to find the most suitable solution for you in our Competence Center.

As a family owned enterprise, we see the commitment to combine tradition and innovation – let’s bond!
**FUSING**

Continuous fusing machines
RPS series - E4
- L
- E1
- E2
- E2 Leather
- E4

Discontinuous fusing machines
Options
- Loading belts
- Return belts
- Extension of loading area, sideways hinged
- Shelves
- Light table
- Stacker system
- Double pressure rollers
- Multiflex pressure rollers
- Waistband winders
- Barcode scanner / printer etc.

**LAMINATING**

KFK series - C
- E, EL, X
- XL
- P
- V
- L

Options
- See brochure "Laminating"

**SCATTERING**

PST series - Powder scattering
- Coating line

Options
- See brochure "Scattering"

**PRESSES**

System
- Thermo-molding
- Thermo-stamping
- Thermo-consolidation
- Thermo-transfer

**SERVICES**

- After sales service
- Competence Center for customer trials
- Contract manufacture
- Contract laminating
Compact solutions with the skills of the Great

With the RPS-L series we have successfully managed to transfer knowledge and experience of the big high-efficiency fusing machines into a compact stand-alone version.

Pressure generation is carried out manually and can be infinitely adjusted to all outer fabrics and interlinings.

Silicone coated pressure rollers assure safe and gentle fusing.

Heating elements are connected with the heating plate over the whole area ensuring the required even distribution of heat.

The flexible mounting of the heating plate allows fusing without any drop in temperature even for heavy fabrics. The intelligent, energy-saving insulation protects operators effectively against heat.

Technical data:
- Fusing width (mm): 400
- Voltage (volt): 230
- Connected load (kW): 3.3
- Consumption/h (kW): 2.5
- Speed (m/min.): 1 to 9
- Pressure (N/cm²): 0 to 50

Dimensions L x W x H (mm): 1,660 x 890 x 450
Weight (kg): 140
Fusing machine - continuous

RPS-L600

Illustrations might show special features

Insulation
Heating register
Control

Optional features
Return belt and table

Technical data:

<table>
<thead>
<tr>
<th>RPS-L600</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusing width (mm)</td>
<td>600</td>
</tr>
<tr>
<td>Voltage (volt)</td>
<td>400</td>
</tr>
<tr>
<td>Connected load (kW)</td>
<td>5</td>
</tr>
<tr>
<td>Consumption/h (kW)</td>
<td>4</td>
</tr>
<tr>
<td>Speed (m/min.)</td>
<td>1 to 9</td>
</tr>
<tr>
<td>Pressure (N/cm²)</td>
<td>0 to 35</td>
</tr>
</tbody>
</table>

Dimensions L x W x H (mm) | 1,660 x 1,090 x 450
Weight (kg) | 180
This well-conceived solution is demonstrated through numerous practical details assuring economical and energy-efficient operation. The powerful, yet energy-saving heating system with two control zones (PID) consists of hard-coated heating elements and is designed for longevity through tubular heating elements.

The precise, silicone coated pressure rollers with large diameters assure an even pressure over the complete working surface.

### Technical data:

**RPS-E1**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>700</th>
<th>1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusing width (mm)</td>
<td>700</td>
<td>1,000</td>
</tr>
<tr>
<td>Voltage (volt)</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Connected load (kW)</td>
<td>11</td>
<td>14</td>
</tr>
<tr>
<td>Length of heating zone (mm)</td>
<td>975</td>
<td>975</td>
</tr>
<tr>
<td>Heating power (kW)</td>
<td>10.5</td>
<td>13.5</td>
</tr>
<tr>
<td>Temperature max. (°C)</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Control zones</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Speed (m/min.)</td>
<td>1 to 12</td>
<td>1 to 12</td>
</tr>
<tr>
<td>Pressure (N/cm²)</td>
<td>0 to 50</td>
<td>0 to 50</td>
</tr>
<tr>
<td>Dimensions L x W x H (mm)</td>
<td>3,555 x 1,300 x 1,230</td>
<td>3,555 x 1,600 x 1,230</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>700</td>
<td>800</td>
</tr>
</tbody>
</table>

Particular attention was paid to the ease of use and maintainability. Hinged casings optimize access for cleaning or for replacing tubular heating elements ("Quick change") or bearings.
This system designed for efficiency offers, in addition to comfortable operation for conductive working and effective workflow, the latest generation of controls. Heating modules with three registers and two control zones configured in terms of optimum energy efficiency maintain the temperature within the processing window, even under maximum load.

Silicone coated pressure rollers with large diameters and separate deflection rollers keep the pressure constant over the complete belt width.

The machine is equipped with V2A casings at inlet and outlet, belt cleansing at top and bottom as well as an approx. 100 cm long loading belt for clean and safe operation.

The latest innovative SIEMENS comfort control stands for simple and intuitive operation by means of a large 7” touch screen.

The Ethernet and Profinet connections allow optimal integration within the network.

<table>
<thead>
<tr>
<th>Technical data:</th>
<th>RPS E2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusing width (mm)</td>
<td>1,000</td>
</tr>
<tr>
<td>Voltage (volt)</td>
<td>400</td>
</tr>
<tr>
<td>Connected load approx. (kW)</td>
<td>19</td>
</tr>
<tr>
<td>Length of heating zone (mm)</td>
<td>1,275</td>
</tr>
<tr>
<td>Heating power (kW)</td>
<td>18.2</td>
</tr>
<tr>
<td>Temperature max. (°C)</td>
<td>200</td>
</tr>
<tr>
<td>Control zones</td>
<td>2</td>
</tr>
<tr>
<td>Speed (m/min.)</td>
<td>1 to 12</td>
</tr>
<tr>
<td>Pressure (N/cm²)</td>
<td>0 to 50</td>
</tr>
<tr>
<td>Dimensions L x W x H (mm)</td>
<td>4,105 x 1,580 x 1,250</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>1,200</td>
</tr>
</tbody>
</table>
Fusing machine - continuous

The system, solution oriented to the special tasks in processing leather and leather blanks, preserves this sensitive material through an intelligent temperature control.

Heating areas are optimized such that only a short heating zone heats the leather minimally from the bottom preventing the leather surface from damage.

The sensitive solution for leather applications

Our pressure rollers, with precise gap settings especially designed for thicker foams and new three-dimensional knitted fabric for leather lamination, avoid a too powerful pressing of the three-dimensional material to prevent damage.

A section of the loading belt is equipped with cooling elements and can be connected to an external chiller keeping the once set temperature safe and constant.

Technical data:

- RPS-E2 Leather
  - Fusing width (mm): 1,000, 1,400, 1,800
  - Voltage (volt): 400, 400, 400
  - Length of heating zone (mm): 1,275, 1,275, 1,275
  - Heating power (kW): 18.2, 23.4, 31.5
  - Temperature max. (°C): 200, 200, 200
  - Control zones: 3
  - Pressure (N/cm²): 0 to 50, 0 to 35, 0 to 18
  - Dimensions L x W x H (mm): 4,105 x 1,580 x 1,250, 4,105 x 1,980 x 1,250, 4,105 x 2,380 x 1,250
  - Weight (kg): 1,200, 1,400, 1,600
  - Speed (m/min.): 1 to 12, 1 to 12, 1 to 12
  - Connected load approx. (kW): 18.5, 23.5, 32

Silicone coated Multiflex rollers (optional) for particularly uniform pressure and gentle fusing by means of a larger press area.
The RPS series is completed by this model with an extended heating system and higher heating power. Thus a total of four registers and four control zones are available to meet demanding fusing applications with top quality.

In combination with our own development of a 3D heating system, you achieve optimum quality and efficiency in fusing.

**Technical data:**

<table>
<thead>
<tr>
<th>RPS-E4</th>
<th>1,000</th>
<th>1,400</th>
<th>1,800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusing width (mm)</td>
<td>1,000</td>
<td>1,400</td>
<td>1,800</td>
</tr>
<tr>
<td>Voltage (volt)</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Connected load approx. (kW)</td>
<td>24</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>Length of heating zone (mm)</td>
<td>1,635</td>
<td>1,635</td>
<td>1,635</td>
</tr>
<tr>
<td>Heating power (kW)</td>
<td>23.1</td>
<td>29.7</td>
<td>39.6</td>
</tr>
<tr>
<td>Temperature max. (°C)</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Pressure (N/cm²)</td>
<td>0 to 50</td>
<td>0 to 35</td>
<td>0 to 18</td>
</tr>
<tr>
<td>Speed (m/min.)</td>
<td>1 to 12</td>
<td>1 to 12</td>
<td>1 to 12</td>
</tr>
<tr>
<td>Control zones</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>3D heating system (zones)</td>
<td>4</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Dimensions L x W x H (mm)</td>
<td>4,275 x 1,580 x 1,250</td>
<td>4,275 x 1,980 x 1,250</td>
<td>4,275 x 2,380 x 1,250</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>1,500</td>
<td>1,700</td>
<td>2,000</td>
</tr>
</tbody>
</table>

*Working on three lanes simultaneously with different temperatures allows the possibility of fusing openly or sandwich. For each lane, the temperature profile can be controlled via 4 separately controllable zones. Thus, a total of 12 SPS controllable zones are achieved.
In order to increase efficiency and productivity in the fusing machine and to relieve the operators, the modern fusing machine can be upgraded with loading belts.

The big advantage of loading belts is the preparation of the parts to be fused on a stationary loading belt which can be started and stopped by each operator individually through toggle levers.

Example: RPS-E4 1800 with loading belts and stacker

Loading belt - the ergonomic workplace supplement
Our stacker system offers further relief for the operators. After a systematic loading in lanes of the parts to be fused, these parts can be stacked fully automatically after the fusing process.

Parts to be fused can be up to 1,650 mm long and for particularly wide parts it is possible to connect two neighboring lanes up to a maximum of 5 lanes.

The sum of lane widths adds up to total working width.

Technical data:

<table>
<thead>
<tr>
<th>M-AST version</th>
<th>M-AST 700</th>
<th>M-AST 1000</th>
<th>M-AST 1400</th>
<th>M-AST 1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width (mm)</td>
<td>700</td>
<td>1,000</td>
<td>1,400</td>
<td>1,800</td>
</tr>
<tr>
<td>Stacker lanes (number)</td>
<td>1 to 2</td>
<td>1 to 3</td>
<td>3 to 4</td>
<td>4 to 5</td>
</tr>
<tr>
<td>Stacking height max. (mm)</td>
<td>180</td>
<td>180</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>Voltage (volt)</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Connected load (kW)</td>
<td>1.5</td>
<td>2.5</td>
<td>3.5</td>
<td>4</td>
</tr>
<tr>
<td>Compressed air (bar)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Dimensions L x W x H (mm)</td>
<td>2,395 x 1,180 x 1,100</td>
<td>2,950 x 1,480 x 1,100</td>
<td>2,950 x 1,880 x 1,100</td>
<td>2,950 x 2,280 x 1,100</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>250</td>
<td>300</td>
<td>450</td>
<td>510</td>
</tr>
</tbody>
</table>
Modular solutions for standardized tasks

We solve particular tasks for thermo fusing by means of semi and fully automatic fusing presses. Almost all requirements and individual solutions can be customized in this scope.

AHV-Bm

Technical data:

- **Press area (mm)**:
  - Type 1260: 1,200 x 600
  - Type 1280: 1,200 x 800
  - Type 1370: 1,300 x 700
  - Type 1380: 1,300 x 800
  - Type 1470: 1,400 x 700
  - Type 1480: 1,400 x 800
  - Type 1670: 1,600 x 700

- **Pressure (N/cm²)**:
  - Type 1260: 0 - 9
  - Type 1280: 0 - 7
  - Type 1370: 0 - 7
  - Type 1380: 0 - 6
  - Type 1470: 0 - 6
  - Type 1480: 0 - 6
  - Type 1670: 0 - 6

- **Press force approx. (t)**:
  - Type 1260: 8
  - Type 1280: 8
  - Type 1370: 8
  - Type 1380: 8
  - Type 1470: 8
  - Type 1480: 8
  - Type 1670: 8

- **Connected load approx. (kW)**:
  - Type 1260: 19
  - Type 1280: 21
  - Type 1370: 20
  - Type 1380: 23
  - Type 1470: 24
  - Type 1480: 23
  - Type 1670: 27

- **Stroke (mm)**:
  - Type 1260: 60
  - Type 1280: 60
  - Type 1370: 60
  - Type 1380: 60
  - Type 1470: 60
  - Type 1480: 60
  - Type 1670: 60

- **Temperature max. (°C)**:
  - Type 1260: 220
  - Type 1280: 220
  - Type 1370: 220
  - Type 1380: 220
  - Type 1470: 220
  - Type 1480: 220
  - Type 1670: 220

**Fusing press with modular extendable loading tray, bridge-type construction for high pressures (pict. shows two machines)**

**FUSING PRESSES**

discontinuous
APV

<table>
<thead>
<tr>
<th>Technical data:</th>
<th>Type 2525</th>
<th>Type 3530</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press area (mm)</td>
<td>250 x 250</td>
<td>350 x 300</td>
</tr>
<tr>
<td>Press force standard at 8 bar air (kN)</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Standard cylinder diameter (mm)</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Stroke (mm)</td>
<td>160</td>
<td>160</td>
</tr>
</tbody>
</table>

Options and add-ons:
- Press force increased at 8 bar air (kN): 14, 14
- Stronger cylinder diameter (mm): 160, 160
- Extended stroke (mm): 160 (250), 160 (250)
- Press plate electrically heated up to 40°C: 250, 250
- Press plate electrically heated up to 40°C: 400, 400
- Press plate connectable to tempering media (oil/water) up to 40°C: 200, 200

Compact vertical pneumatic press can be used as a laboratory or transfer printing press and can be individually configured as a cooling press, heating press, or molding press with special tool fixing device.

APM series

<table>
<thead>
<tr>
<th>Technical data:</th>
<th>Type 5040</th>
<th>Type 7040</th>
<th>Type 1040</th>
<th>Type 8050</th>
<th>Type 1150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press area (mm)</td>
<td>500 x 400</td>
<td>700 x 400</td>
<td>1,000 x 400</td>
<td>800 x 500</td>
<td>1,100 x 500</td>
</tr>
<tr>
<td>Pressure (N/cm²)</td>
<td>0 - 7</td>
<td>0 - 5</td>
<td>0 - 3.5</td>
<td>0 - 3.3</td>
<td>0 - 2.5</td>
</tr>
<tr>
<td>Power consumption (kW)</td>
<td>2</td>
<td>3</td>
<td>3.5</td>
<td>3.8</td>
<td>5</td>
</tr>
<tr>
<td>Voltage (volt)</td>
<td>230</td>
<td>230</td>
<td>230</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>145</td>
<td>155</td>
<td>170</td>
<td>180</td>
<td>220</td>
</tr>
</tbody>
</table>

Compact, automatic press with two-hand operation optionally with heated bottom plate and exhauste.

- Bottom press plate: with silicone pad
- Molding tool fixing device: on request
Established and proven options for higher productivity and comfort

Our in-house developed options increase safety and profitability while relieving the operator as much as possible.

It is our goal to develop together with you the ideal and most efficient configuration for your fusing application. We take pleasure in comprehensively advising you – let us know your preferences.
Our decade long accumulated know-how is incorporated into the production and finishing process of our conveyor belts. Only top-quality materials are used which have been proven in elaborate test procedures. We take pleasure in comprehensively advising you regarding the selection of different thicknesses and surface requirements.

Welding and bonding of PTFE coated conveyor belts in fusing machines or laminating lines demand very specific requirements for temperature control and endurance. The adjustable temperatures from 20°C to 450°C are electronically controlled. Extensive insulation and optimized weight facilitate the handling.

Technical data:

<table>
<thead>
<tr>
<th></th>
<th>SG 55-180RG-L</th>
<th>SG 55-180RG-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (volt)</td>
<td>230</td>
<td>230</td>
</tr>
<tr>
<td>Heating power (W)</td>
<td>1,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Temperature max. (°C)</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td>Temperature accuracy</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Material</td>
<td>red brass</td>
<td>red brass</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>3.4</td>
<td>3.4</td>
</tr>
</tbody>
</table>

Timer function
- no
- yes

Welding area (mm)
- 55 x 180

Our gentle cleaning and care agents are adapted to our machines’ requirements.
Together we are able to configure your ideal machine concept during free initial trials. Visit our Competence Center.

We look forward to the challenge.

System solutions for bonding technique for
- Garment industry
- Textile industry (textile lamination, powder coating...)
- Technical textiles (powder coating, impregnation...)
- Automotive interior and acoustics
- Composites (honeycomb sandwich sheets, fiber reinforced composites...)
- Medical (consolidate, calibrate, membrane foil coating...)

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