The Jakob Müller Group

Müller researches, develops, engineers and manufactures top technology — from individual subsystems to entire system solutions, including programming, warping, weaving, knitting, dyeing, finishing and making-up of narrow fabrics, webbings, labels and knitted goods.

Application areas
- Clothing
- Underwear
- Sports/leisure wear
- Footwear
- Furniture/household textiles
- Medicine
- Transport
- Conveyors and drives
- Electronics
- Building electronics
- Field technology

Narrow fabric weaving and make-up
- Product range for producing all narrow fabrics
- Complete machine range for warp patterning with dobby or jacquard shedding
- All-embracing system solutions:
  - warping
  - pattern creation
  - narrow-fabric weaving
  - dyeing and finishing
  - photo-optics quality inspection
  - winding, spooling, rolling and layering narrow fabrics
  - Making-up narrow technical textiles

Narrow-fabric warp knitting with weft insertion
- Complete machine range for:
  - knitted goods from very simple to extremely complex designs
  - virtually unlimited repeat lengths
  - Patterning versatility and unexcelled flexibility
  - proven Müller compound needle
  - technology for runproof products
  - Top output capacities:
    - greater knitting width
    - top running speeds

Label weaving
- Complete system solutions developed specially for label production:
  - pattern creation
  - label sampling
  - label weaving
  - label cutting and folding
  - Systems for labels with woven or cut edges
  - Machines with highest speeds and minimum space requirement (needle, rapier and air technology)
  - Product range to satisfy all qualitative and quantitative requirements

Your benefits as Müller customer
- Technology from one source where the emphasis has been on nothing else than narrow fabric manufacturing equipment for more than 110 years.
- Collaboration with a supplier employing over 1000 people exclusively in the production of tape and narrow fabric machinery.
- System solutions for your entire production — all from one source, one partner.
- Machines of robust, compact design, engineered to embody the latest technological advances.
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Warp knitting machine with weft insertion

RASCHELINA® RD3.8

for elastic and non-elastic articles

Fascination of Ribbons and Narrow Fabrics
Innovation in Machinery

Jakob Müller AG Frick
5070 Frick, Switzerland
Telefon +41 62 8655 111
Fax +41 62 8655 777
www.mueller-frick.com
**General features**

The use of logically designed mechanisms and components, which embody long years of mechanical engineering experience and development work, facilitates harmonious movement sequences and their exact synchronisation. All precision parts are manufactured using top grade materials and guarantee high operational reliability and product quality. The machine layout offers the operating personnel easy handling and access to every area. Numerous technical and technological advantages in combination with versatility allow universal application. Spun yarns and twistless filaments can be employed in the weft without problems. Short setting-up times and a variety of alternative items of equipment predestine the RD3.8 for small and medium-sized orders.

**Precise, low-maintenance drives**

Both the main drive and the drives of the partial and long weft bars are distinguished by ease of maintenance and precision at high speeds.

The direct drive of the main shaft and needles is connected on the right hand side to the drive of the chain drum, while the long weft bar and the elastic pick bar drive are linked on the left. The chain drum controls up to 8 weft bars mechanically. The profile-milled, steel chain links ensure smooth running and precise laying even at high speeds. Two long weft bars for variable fabric widths are cam-driven. The elastic pick bar drive is mounted on a separate shaft, allowing excellent access and facilitating stroke and timing adjustments.

**Loop forming elements**

Patent needles offer high running performance, they may be used in the fine yarn count range with synthetic yarns and, because of their design, exclusively for closed loops.

**Applications**

- Women's underwear
- Men's underwear
- Technical articles
- Bandaging

**Options**

- Rubber transport with feeding from up to 3 delivery systems
- Warp thread supply from the cone creel or with positive drive
- Positive weft thread transport system
- Partial warp beam let-off for rubber, weft and warp with electronic drive or mechanical brake
- Ribbon transport, whether at the side or behind the machine
- Thermosetting

**Technical data**

<table>
<thead>
<tr>
<th>Useful width (mm)</th>
<th>420</th>
<th>630</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of weft bars max.</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>– drive left</td>
<td>long pick 60, 90 mm</td>
<td>2</td>
</tr>
<tr>
<td>elastic</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>– drive right</td>
<td>from pattern chain</td>
<td>2 – 5</td>
</tr>
<tr>
<td>with additional pushers</td>
<td>2 – 8</td>
<td>2 – 8</td>
</tr>
<tr>
<td>Gauge needles/cm needles/inch</td>
<td>4 / 5.5 / 6 / 7 / 8 / 10</td>
<td>15</td>
</tr>
<tr>
<td>Number of warp guide bars</td>
<td>1, equipped with guide needle segments</td>
<td></td>
</tr>
<tr>
<td>Fabric take-off with regulator</td>
<td>2.7 – 14.4 loops/cm</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>3 x 400 V – 50 Hz</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>without thermosetting 1.5 kW (3 bars)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>without thermosetting 3.0 kW (8 bars)</td>
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</tr>
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This side view shows various possible machine configurations. The space required depends on the particular specification.

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