RINGS AND TRAVELLERS.
RING SPINNING.

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WE LIVE TEXTILE.
Saurer Components is a world-leading supplier of components for filament and staple fiber spinning applications. With its headquarters in Fellbach, Germany, the group has five established brands; Accotex, Daytex, Fibrevision, Temco and Texparts and prides itself on supplying high-quality, reliable component products to the textile industry.

Saurer Components has approximately 1 000 employees world-wide with manufacturing facilities and sales offices in the Americas, Europe and Asia. Via a network of experienced representatives it ensures prompt service and close contact with customers in spinning mills as well as leading machine manufacturers.
Running Performance at its best

Rings and Travellers are the dominant elements in the ring spinning process. Key to success is the reduction of the friction coefficient to the lowest level possible. At this point you will get the perfect balanced spinning geometry – that means the spinning tension is on a constant balanced level.

The reduction of friction will be achieved if the rings and travellers establish a symbiosis. Therefore the Saurer Components’ R&D focused on the ideal combination of rings and travellers.

The aspired ideal friction stands for:
- Higher traveller speed
- Lower working temperature
- Extended ring and traveller life time
- Avoidance of yarn tension peaks
- Better yarn quality (reduction of hairiness)
- Reduction of end breaks

Furthermore the ideal friction strikes the balance between:
- Traveller drive angle to ring
- Traveller weight
- Traveller and ring geometry
- Traveller and ring coating
- Ring positioning
Texparts Rings

**Benefits**

- **Highest contour accuracy**
  - No variation in ring sizes
  - Perfect roundness means no vibration during spinning

- **Outstanding flexibility due to new design**
  - High speed spinning
  - All fibre materials and yarn types
  - Vast yarn count range

Texparts Travellers

**Benefits**

- **One Design with different coatings**
  - Optimized balance between traveller speed, lifetime and quality due to the smart design and coating

- **Universal suitability**
  - No time-consuming and complex management of diverse types
  - Time saving on every lot or traveller change
  - A reduction of the spare parts on stock

- **The perfect symbiosis of Rings and Travellers**
  - The perfect combination of the ideal ring and traveller had been already been defined
  - The hub from traveller to ring is at an ideal angle

**Service**

Recommendations are available for our customers. A questionnaire with all relevant factors for the different ring and traveller types simplifies your selection. The sales engineers provide support at any time.
### Recommendation of use

#### Spinning geometry

<table>
<thead>
<tr>
<th>Traveller speed (in m/s)*</th>
<th>42</th>
<th>40</th>
<th>38</th>
<th>36</th>
<th>32</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yarn Count (in Ne)</td>
<td>6</td>
<td>7</td>
<td>10</td>
<td>12</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td>Ring Diameter (in mm)</td>
<td>45/42</td>
<td>36/34</td>
<td>51/48</td>
<td>40/38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flange Type</td>
<td>Flange 1</td>
<td>Flange 1/2</td>
<td>Flange 2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Maximum values, depending on material type and roving quality
In perfect balance

Several parameters have a direct influence on the spinning geometry, defined as the spinning tension at constant balanced level. The table above shows practical data on traveller speed, yarn count, ring diameter and flange type.

**Traveller Driving Angle**
The statement – as wider the driving angle as lower the friction – has generality.

The symbiosis of Rings and Travellers ensure:
- A wide traveller driving angle for an increasing traveller speed
- Less stress peaks
- Reduction of end breaks
- Higher yarn quality due to the reduced hairiness

These advantages are the direct effect of the perfect combination of Texparts Rings and Travellers.

**Driving Angle of 67 °**
Conventional rings and travellers

**Driving Angle of 68 °**
Conventional rings and travellers

**Driving Angle of 77 °**
Texparts Rings and Travellers
Coatings

Ring Coating

The ring and traveller system in the short staple spinning process operates “dry”. Fiber debris from the yarn along with natural fiber waxes like cotton pectin or spinning oil from man-made fibers are accumulated on the traveller / ring system. The degree and the quality of accumulation depend on the ring coating, traveller shape and coating, besides others.

The Texparts Ring Coating Mach 1 includes:

**Deposit function**
The deposit function supports the lubrication.

**Orange skin**
The orange skin function reduces the contact area between ring and traveller. This ensures less friction and thus an extended serviceable life.

Benefits

- **No running-in time**
- **Longer serviceable life for ring and traveller**
- **Consistent smooth running behavior**
Traveller Coating

Compared to conventional travellers the Texparts Traveller Coating enables reduced running-in time. During the running-in phase of the traveller the system will be lubricated by the fiber.

There are two traveller types for different running speeds available:

**Marathon**
Chemical deposit plating for compact yarn and for all applications in which longer lifetime is required. The optimum quality for a higher performance.

**Sprint**
Nickel plated traveller for all standard applications. Excellent service life time, smooth yarn path and good heat dissipation are the main features.

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**Benefits**

- Extend ring and traveller life time
- Increasing and stable yarn quality
- End breaks at standard level
## Texparts Travellers

<table>
<thead>
<tr>
<th>Type</th>
<th>Flange</th>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 2 hf</td>
<td>Flange 2</td>
<td>15 - 10/0</td>
<td>Texparts Travellers are suitable for all kind of fiber material. The selection of the best type for your yarn and application is accomplished through the traveller number. If a required traveller number is not listed please contact us.</td>
</tr>
<tr>
<td>CP 1 hf</td>
<td>Flange 1</td>
<td>5 - 15/0</td>
<td></td>
</tr>
<tr>
<td>CC 1 hf</td>
<td>Flange 1</td>
<td>5 - 23/0</td>
<td></td>
</tr>
<tr>
<td>CC 1/2 hf</td>
<td>Flange 1/2</td>
<td>2 - 30/0</td>
<td></td>
</tr>
</tbody>
</table>

According to the running speed all travellers are available as marathon or sprint type.

## Texparts Rings

### Flange 1 (b = 3.2 mm)

<table>
<thead>
<tr>
<th>Ring dimensions [mm] d * D * h</th>
</tr>
</thead>
<tbody>
<tr>
<td>32<em>51</em>10</td>
</tr>
<tr>
<td>35<em>51</em>10</td>
</tr>
<tr>
<td>35<em>54</em>10</td>
</tr>
<tr>
<td>36<em>51</em>10</td>
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<tr>
<td>36<em>54</em>10</td>
</tr>
<tr>
<td>38<em>51</em>10</td>
</tr>
<tr>
<td>38<em>54</em>10</td>
</tr>
<tr>
<td>38<em>60</em>10</td>
</tr>
<tr>
<td>40<em>51</em>10</td>
</tr>
<tr>
<td>40<em>54</em>10</td>
</tr>
<tr>
<td>42<em>51</em>10</td>
</tr>
</tbody>
</table>

- D = fitting ø
- h = ring height
- h_s = fitting height
- b = flange width
- d = inside ring ø

### Flange ½ (b = 2.6 mm)

<table>
<thead>
<tr>
<th>Ring dimensions [mm] d * D * h</th>
</tr>
</thead>
<tbody>
<tr>
<td>32<em>51</em>10</td>
</tr>
<tr>
<td>35<em>51</em>10</td>
</tr>
<tr>
<td>35<em>54</em>10</td>
</tr>
</tbody>
</table>

### Flange 2 (b = 4.1 mm)

<table>
<thead>
<tr>
<th>Ring dimensions [mm] d * D * h</th>
</tr>
</thead>
<tbody>
<tr>
<td>42<em>54</em>10</td>
</tr>
</tbody>
</table>

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