SU ring and traveller system

For synthetics and their blends
The SU ring/traveller system is suitable for the processing of synthetics (PAC, CV, PES) and yarn blends (pre-condition is, however, a significant proportion of synthetics) in the medium to coarse yarn count range. In some cases where conical, lubricated rings are in use, they can be replaced by the SU ring/traveller system.

The design features:
- Large contact area between ring and traveller reduces the specific pressure
- Optimum heat dissipation traveller to ring

The advantages:
- No lubrication required (as against conical rings; not suitable for pure wool)
- Consistent yarn tension, therefore better and more even yarn quality
- No thermal fibre damages
- Increased life cycle of travellers and rings
- Higher spindle speeds
- Lower yarn breakage rate
- No yarn stain

Traveller finish

The following finishes are available:
- SAPHIR (diffusion finish) for all kind of fibres
- STARLET (special nickel plating) for fibres with special softening agent and when working in aggressive environment

### Travellers for SU rings

<table>
<thead>
<tr>
<th>Type</th>
<th>Shape</th>
<th>Wire section</th>
<th>ISO No.</th>
<th>Applications</th>
<th>Ne</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU-B</td>
<td>drh</td>
<td>31.5 - 400</td>
<td>Acrylics Polyester</td>
<td>12 - 36</td>
<td></td>
</tr>
<tr>
<td>SU-B</td>
<td>r</td>
<td>35.5 - 280</td>
<td>Acrylics</td>
<td>10 - 24*</td>
<td></td>
</tr>
<tr>
<td>SU-BM</td>
<td>drh</td>
<td>35.5 - 280</td>
<td>Acrylics Polyester Viscose</td>
<td>20 - 50</td>
<td></td>
</tr>
<tr>
<td>SU-BF</td>
<td>udr</td>
<td>28 - 90</td>
<td>Viscose</td>
<td>28 - 50</td>
<td></td>
</tr>
</tbody>
</table>

* for fibres with strong fibre finish

### Traveller inserting tool

Easy and economic traveller change with the well proven Bräcker STRAP SU travellers and the RAPID inserting tool.
Setting of traveller cleaner

Fibres can accumulate and wrap on the exterior side of the traveller, depending on the type of fibre. This can be avoided to a great extent with the traveller cleaner developed by Bräcker. The setting must be made respective of the traveller profile and weight used.

SU rings

The foot of the SU ring is designed with a supporting area to prevent unthreading of the yarn during the doff process. For certain ring spinning machines an additional supporting ring is compulsory.

Ring dimensions

- Inner diameter 42 mm to 45 mm
  (48 mm, 51 mm and 54 mm are possible)
- Seating diameter depending on existing ring rail

Ring finish

The well proven Bräcker TITAN finish is standard for all applications. Other finishes on request only.

Application

Traveller weights (in mg, SU travellers have no „numbers“)

The recommended weight depends on various factors such as spinning geometry, spinning speed, fibre softening agent etc. The final traveller weight should be selected through trials.
Starting procedure after doffing

Function of support area and the support ring

The supporting area, respectively the supporting ring, prevent slip off of the yarn during any movements of the ring rail while the spindles are not running and hence, the yarn is not under permanent tension.

Recommended starting procedure

General: start spindle whenever possible as soon as the traveller is on the lowest winding position on the spinning tube.