

# Ring Travelers and Rings

Long-staple spinning

Premium travelers  
for lubricated rings

# OUTSTANDING

ADVANTAGES

# Long-Staple Ring Travelers

## Close Tolerances

Bräcker manufactures the most reliable and precise ring travelers available on the market. Made of first grade materials, they are available in various profiles with consistent surface characteristics.

## Maximum Productivity

Bräcker expertise in application technology leads to innovative product solutions with added value for the customer.

## Eco-Friendly Production

Sustainable work practice ensures eco-friendly manufacturing and coloration of nylon travelers in state-of-the-art production facilities.



# Long-Staple Ring Travelers

## Steel J and HZ series

### Spinning fine and medium yarn counts

The steel travelers J and HZ are specifically designed for spinning worsted, semi-worsted yarns and draw twisting of filament yarns. Manufactured according to ISO 96-2, they come in different shapes to cover a wide range of applications, be it wool, acrylics, cashmere or blends.

### Steel J traveler for conical rings



Type	CST	CST B	KST
Shape	Straight back	Convex back	Straight back
Application	Fine yarns	Fine to medium worsted yarns	Coarse worsted yarns
Highlight	Prevents contact between the lower ring radius and the traveler for an easy start up	Special traveler shape for yarn quality and longer life	Optimal shape for bulky yarn

### Steel HZ traveler for vertical rings



Type	CST Express	RP CST Express	CST BS
Shape	Special toe shape	Inclined head	Special head shape
Application	Fine worsted, synthetic filament and sewing threads	Worsted, sewing threads and man-made fibers	Woolen and twisting of fibers
Highlight	Easy traveler insertion and removal in PSM rings	More area for passage preventing yarn damage	Convex back to perfectly match rings with straight race way

## STEELTEX J and HZ series

### Spinning carpet yarns, draw twisting of filaments and abrasive fibers

With their special hardened steel inserts, the STEELTEX travelers handle high delivery speeds and abrasive fiber materials. Available from ISO 63 to ISO 20 000, these travelers prevent filament damages and demonstrate exceptional lifetime.



Type	CS
Shape	Steel insert for yarn passage area
Application	Twisting of filaments and abrasive fibers
Highlight	Special hardened "Topdur" steel inserts for longer lifetime, even with abrasive yarns

## NYLTEX J and HZ series

### Spinning and twisting of coarse yarn counts, ply and glass fibers

Polyamide (nylon) has a higher coefficient of friction than steel. This means NYLTEX travelers can create adequate sufficient yarn tension with lower traveler weights.

Available in weight range of ISO 20 to 25 000, they come in two qualities: Lubridur and Lubridur R.



Type	CE/CER	CLE/CLER
Shape	Optimized for better gliding	Large head area for easy yarn passage
Application	Finer to medium yarn counts	Bulky coarse yarn counts
Highlight	Normal, low yarn path Available in reinforced	Increased, wide yarn path Available in reinforced

### Lubridur

Fine structured compound for increased gliding properties, Lubridur is used for twists with normal abrasion tendency and for twisting and doubling of delicate yarns.

### Lubridur R (reinforced)

Compound reinforced with glass fibers, Lubridur R prevents pull-off of the traveler at start and increases the wear resistance.

## NYLTEX F series

### Spinning wet flax

Available from ISO 50 to ISO 1 400, F series travelers are specifically designed to spin wet flax.



Type	Fi2	FZ	FU and FG
Shape	Special toe shape	Inclined head	Special head shape
Application	For S and Z twist	Z twist	For S and Z twist
Highlight	-	Applicable for dry spinning	Applicable for dry spinning



# OUTSTANDING

ADVANTAGES

# Long-Staple Rings

## Outstanding Sliding Behavior

Bräcker long-staple rings ensure best running behavior and long life, through optimal lubrication.

## Consistent Yarn Quality

The long-staple rings from Bräcker benefit from a polished surface, resulting in low roughness and thus, consistent yarn quality.

## Optimal Ring/Traveler Contact Area

Bräcker offers the perfect combination of ring travelers and rings to ensure good heat conductivity and allow high-speed production.



# Long-Staple Rings

## Profiles

### Conical

The conical profile of the ring allows a perfect matching with J-shaped travelers to spin wool, acrylic, cashmere and blends in the medium to coarse yarn count range.

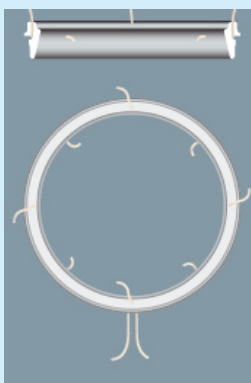


### Vertical

Vertical profile rings available in both HZ and HZ-BS forms, suitable for twisting with steel, NYLTEX and STEELTEX travelers.



## Ring lubrication



**Spinning of long-staple fibers requires lubricated spinning rings.**

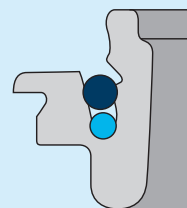
**Ring heights 9.1 and 11.1**

4 + 4 lubrication points,  
2 wick exits

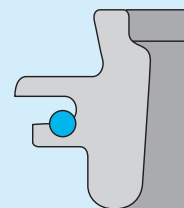
**Ring height 17.4**

6 + 6 lubrication points,  
4 wick exits

### Lubrication system



S. E. lubricating system  
(external wick)



S. I. lubricating system  
(internal wick)

● Wick ● Rubber

# Long-Staple Ring Material

## Chrome steel rings

Solid steel rings are produced from first grade ball bearing steel, hardened and polished for smooth traveler running. Well-adapted lubrication systems guarantee long traveler and ring life.

### Characteristics

- Raw material: exclusively 100 cr6 (DIN 1.3505) ball bearing steel with special composition
- Ring profile with conical/concave running path allowing a perfect match with J travelers
- Vibro-polished ring surface with low roughness for a smooth traveler run and low yarn hairiness
- Proven lubricating system with 100% selected wool wicks assuring a uniform and even yarn tension

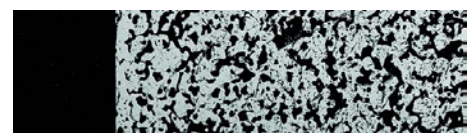


## Sinter metal rings


Porous sintered metal rings are impregnated with high grade lubricating oil. With increasing temperatures generated by the traveler, the oil expands and protrudes to the ring surface and lubricates the traveler over the full contact surface. The oil supply is provided by wicks, located on the outer ring side.

### Characteristics

- Selected sintered material with high hardness ensures long service life
- Uniform porosity ensures proper oil flow
- Low surface roughness for a perfect running of the traveler and consistent yarn tension
- Special rings available for use with steel travelers, made to order



Structure of sinter metal



**Bräcker AG**  
Obermattstrasse 65  
CH-8330 Pfäffikon-Zürich  
T +41 44 953 14 14  
sales@bracker.ch

**Bräcker S.A.S.**  
132, Rue Clemenceau  
FR-68920 Wintzenheim  
T +33 389 270007  
sales@bracker.fr

[www.bracker.ch](http://www.bracker.ch)

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3573-v1 en 2303