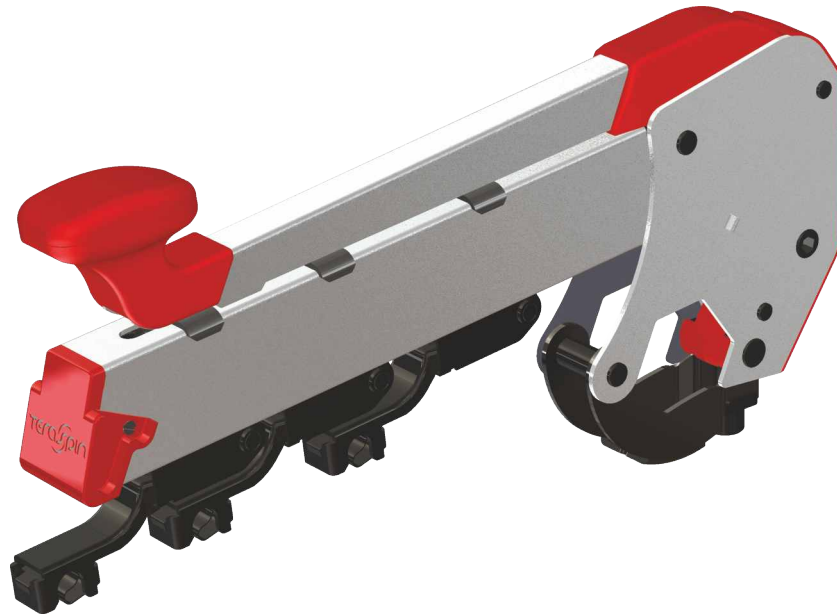




## Flexi Weighting Arms PK S 3200 Series for short staple ring frames



Precision components for spinning machines

Quality • Reliability • Innovation

## Flexi Weighting Arms PK S 3200 Series

Spinning mills use pneumatic weighting arms and/or mechanical (spring loaded) weighting arms on their ring frames. **Spring loaded mechanical weighting arms are usually preferred as they are maintenance free and also more reliable** in handling most textile fibers. As **spring loaded weighting arms** do not use compressed air, they **do not consume energy**. Hence, these weighting arms offer a **more sustainable solution** compared to pneumatic weighting arms. The yarn quality is also better and more consistent over a period of time.

Ring frames originally equipped with pneumatic weighting arms may be switched over to mechanical weighting arms that can handle all fibres with ease and better operating performance. With no compressors, hoses, etc., mechanical weighting arms save a sizeable recurring operations and maintenance cost! However, the one time cost of such conversions was a major deterrent for spinning mills to make a decision switch over.

TeraSpin's Flexi weighting arms address these challenges. The PK S 3200 series Flexi weighting arm for short staple ring frames offers maximum flexibility and can be retrofitted onto the existing arrangement of a mill's ring frames with existing drafting components. This enables the most economical changeover from pneumatic drafting systems to the more reliable and flexible mechanical drafting.

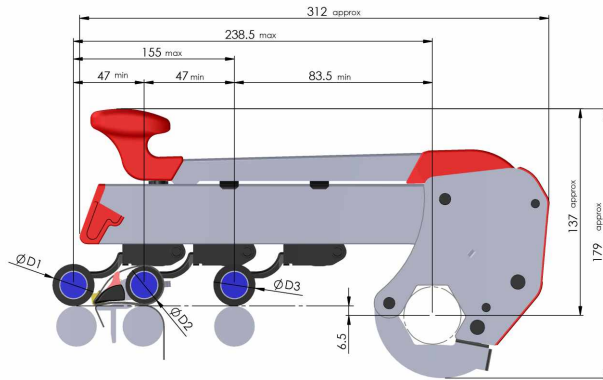
## **Features**

- Fits on the existing hexagonal tube of a pneumatic drafting system
- Accommodates the existing top rollers
- Easy height (pressure) setting
- Consistent reliable loading through helical springs
- Options of 5 different loads on each top roller
- Easily replaceable weighting elements
- Adjustable front roller offset

## **Benefits**

- Minimal investment and better payback
- Consistent loads delivering consistent yarn quality
- Ease of installation and retention of existing components
- Ease in maintenance – no pressure checking/ losses due to compressor and change of cot diameters
- Flexibility to handle wide variety of fibres/yarn counts to suit today's fashion industry demand
- Attractive price:performance ratio
- Longer reliable service life
- Contributes to your initiative of sustainable solutions in the textile industry

## Weighting arm PK S 3220 (suitable for short cradle & existing top rollers)



Note: All dimensions are in mm  
Depending on ring frame configuration & customized requirement, TeraSpin will suggest the scope of supply

### Application/s

Machine : Short staple ring frame with 3-roller double apron drafting system

Process : Spinning

Raw material/s: Cotton, man-made fibres and their blends

# Diameter (Ø) of bottom rollers varies with machine make

^ Top roller cot diameter (Ø) indicates the diameter (Ø) of newly mounted cots & they are not in the scope of supply

@ Aprons are not in the scope of supply

▣ One can use aprons of different thicknesses

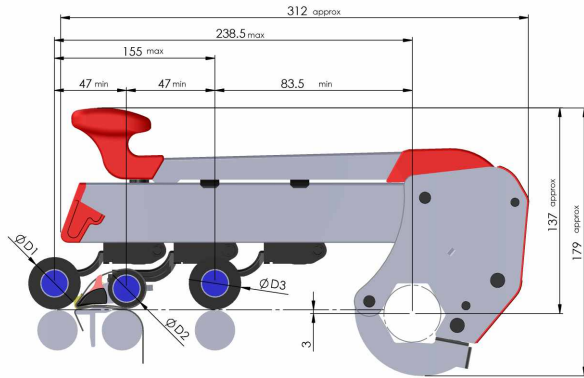
\* Apron top roller comes with polymer sleeve, diameter (Ø) 25 mm

### Combination of cradles and top rollers

| Cradles       | Top rollers at front position | Top rollers at rear position | Apron top rollers        | Recommended top apron size (mm) <sup>®</sup> | Fibre length (mm)                        |
|---------------|-------------------------------|------------------------------|--------------------------|--|--|
| OH 62-1275254 | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 | 37 x 28 x 0.9 <sup>▣</sup>                   | Cotton – Up to 45<br>Man-made – Up to 40 |
| OH S 168      | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 |  |  |
| OH 62-1275267 | LP 302-000075L                | LP 302-000075L               | LP S 3753, LP 303-000075 |  |  |
| OH S 175      | LP 302-000075L                | LP 302-000075L               | LP S 3753, LP 303-000075 |  |  |
| OH S 1681     | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 | 39.7 x 28 x 0.9 <sup>▣</sup>                 |  |

| Roller position     | Bottom roller Ø (mm) # | Weighting element | Top roller              |             |    |    |    |    |
|---------------------|------------------------|-------------------|-------------------------|-------------|----|----|----|----|
|                     |                        |                   | Cot Ø (mm) <sup>^</sup> | Load in daN |    |    |    |    |
| Front               | 27 – 30                | WE S 3220         | D1 = 30                 | 10          | 13 | 16 | 19 | 22 |
| Middle (with apron) | 25 – 27                | WE S 3310         | D2 = 25*                | 10          | 12 | 14 | 16 | 18 |
| Rear                | 27 – 30                | WE S 3520         | D3 = 30                 | 10          | 12 | 14 | 16 | 18 |

## Weighting arm PK S 3225 (suitable for medium/long cradle & existing top rollers)



Note: All dimensions are in mm

Depending on ring frame configuration & customized requirement, TeraSpin will suggest the scope of supply

### Application/s

Machine : Short staple ring frame with 3-roller-double apron drafting system

Process : Spinning

Raw material/s: Man-made fibres and their blends

# Diameter (Ø) of bottom rollers varies with machine make

^ Top roller cot diameter (Ø) indicates the diameter (Ø) of newly mounted cots & they are not in the scope of supply

@ Aprons are not in the scope of supply

▣ One can use aprons of different thicknesses

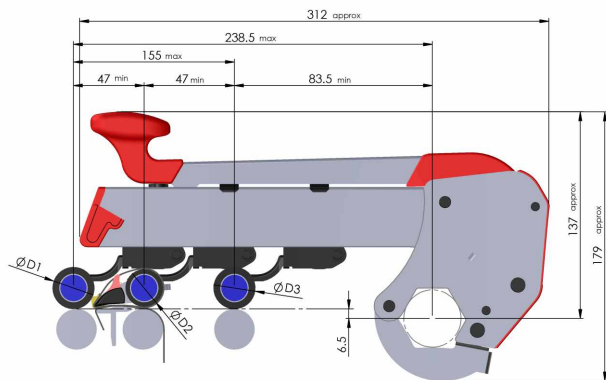
\* Apron top roller comes with polymer sleeve, diameter (Ø) 25 mm

### Combination of cradles and top rollers

| Cradles        | Top roller at front position | Top roller at rear position | Apron top rollers        | Recommended top apron size (mm) <sup>®</sup> | Fibre length (mm) |
|----------------|------------------------------|-----------------------------|--------------------------|--|-------------------|
| OH 131-1275264 | LP 302-000070L               | LP 302-000070L              | LP S 3683, LP 303-000684 | 41.5 x 28 x 0.9 <sup>▣</sup>                 | 45 - 54           |
| OH 121-000684  | LP 302-000070L               | LP 302-000070L              | LP S 3683, LP 303-000684 | 51.7 x 28 x 0.9 <sup>▣</sup>                 | 55 - 60           |

| Roller position     | Bottom roller Ø (mm) # | Weighting element | Top roller              |             |    |    |    |    |
|---------------------|------------------------|-------------------|-------------------------|-------------|----|----|----|----|
|                     |                        |                   | Cot Ø (mm) <sup>^</sup> | Load in daN |    |    |    |    |
| Front               | 30                     | WE S 3220         | D1 = 32-35              | 10          | 13 | 16 | 19 | 22 |
| Middle (with apron) | 27 - 30                | WE S 3410         | D2 = 25*                | 10          | 12 | 14 | 16 | 18 |
| Rear                | 30                     | WE S 3520         | D3 = 32-35              | 10          | 12 | 14 | 16 | 18 |

## Weighting arm PK S 3224 (suitable for H-Fang Compact)



Note: All dimensions are in mm

Depending on ring frame configuration & customized requirement, TeraSpin will suggest the scope of supply

### Application/s

- Machine : Short staple ring frame with 3-roller double apron drafting system
- Process : Spinning
- Raw material/s: Cotton, man-made fibres and their blends

# Diameter (Ø) of bottom rollers varies with machine make

^ Top roller cot diameter (Ø) indicates the diameter (Ø) of newly mounted cots & they are not in the scope of supply

@ Aprons are not in the scope of supply

▣ One can use aprons of different thicknesses

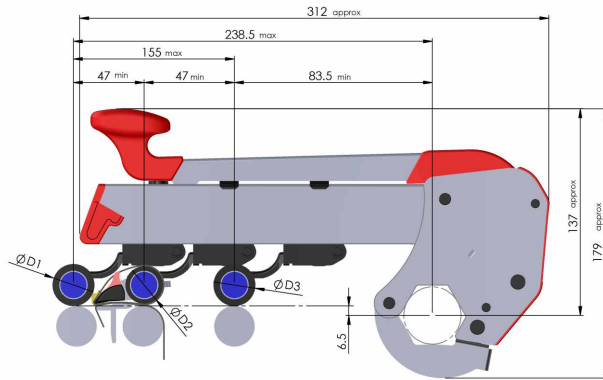
\* Apron top roller comes with polymer sleeve, diameter (Ø) 25 mm

### Combination of cradles and top rollers

| Cradles       | Top rollers at front position | Top rollers at rear position | Apron top rollers        | Recommended top apron size (mm) <sup>®</sup> | Fibre length (mm)                        |
|---------------|-------------------------------|------------------------------|--------------------------|--|--|
| OH 62-1275254 | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 | 37 x 28 x 0.9 <sup>▣</sup>                   | Cotton – Up to 45<br>Man-made – Up to 40 |
| OH S 168      | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 |  |  |
| OH 62-1275267 | LP 302-000075L                | LP 302-000075L               | LP S 3753, LP 303-000075 |  |  |
| OH S 175      | LP 302-000075L                | LP 302-000075L               | LP S 3753, LP 303-000075 |  |  |
| OH S 1681     | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 | 39.7 x 28 x 0.9 <sup>▣</sup>                 |  |

| Roller position     | Bottom roller Ø (mm) # | Weighting element | Top roller              |             |    |    |    |    |
|---------------------|------------------------|-------------------|-------------------------|-------------|----|----|----|----|
|                     |                        |                   | Cot Ø (mm) <sup>^</sup> | Load in daN |    |    |    |    |
| Front               | 27 – 30                | WE S 3220         | D1 = 30                 | 10          | 13 | 16 | 19 | 22 |
| Middle (with apron) | 25 – 27                | WE S 3310         | D2 = 25*                | 10          | 12 | 14 | 16 | 18 |
| Rear                | 27 – 30                | WE S 3520         | D3 = 30                 | 10          | 12 | 14 | 16 | 18 |

## Weighting arm PK S 3226 (suitable for LMW Spinpack)



Note: All dimensions are in mm  
Depending on ring frame configuration & customized requirement, TeraSpin will suggest the scope of supply

### Application/s

Machine : Short staple ring frame with 3-roller double apron drafting system

Process : Spinning

Raw material/s: Cotton, man-made fibres and their blends

# Diameter (Ø) of bottom rollers varies with machine make

^ Top roller cot diameter (Ø) indicates the diameter (Ø) of newly mounted cots & they are not in the scope of supply

@ Aprons are not in the scope of supply

□ One can use aprons of different thicknesses

\* Apron top roller comes with polymer sleeve, diameter (Ø) 25 mm

### Combination of cradles and top rollers

| Cradles       | Top rollers at front position | Top rollers at rear position | Apron top rollers        | Recommended top apron size (mm) <sup>®</sup> | Fibre length (mm)                        |
|---------------|-------------------------------|------------------------------|--------------------------|--|--|
| OH 62-1275254 | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 | 37 x 28 x 0.9 <sup>□</sup>                   | Cotton – Up to 45<br>Man-made – Up to 40 |
| OH S 168      | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 |  |  |
| OH 62-1275267 | LP 302-000075L                | LP 302-000075L               | LP S 3753, LP 303-000075 |  |  |
| OH S 175      | LP 302-000075L                | LP 302-000075L               | LP S 3753, LP 303-000075 |  |  |
| OH S 1681     | LP 302-000070L                | LP 302-000070L               | LP S 3683, LP 303-000684 | 39.7 x 28 x 0.9 <sup>□</sup>                 |  |

| Roller position     | Bottom roller Ø (mm) # | Weighting element | Top roller              |             |    |    |    |    |
|---------------------|------------------------|-------------------|-------------------------|-------------|----|----|----|----|
|                     |                        |                   | Cot Ø (mm) <sup>^</sup> | Load in daN |    |    |    |    |
| Front               | 27 – 30                | WE S 3220         | D1 = 30                 | 10          | 13 | 16 | 19 | 22 |
| Middle (with apron) | 25 – 27                | WE S 3310         | D2 = 25*                | 10          | 12 | 14 | 16 | 18 |
| Rear                | 27 – 30                | WE S 3520         | D3 = 30                 | 10          | 12 | 14 | 16 | 18 |



Manufactured by:



**A.T.E. ENTERPRISES PRIVATE LIMITED**

(Business Unit: TeraSpin)

Survey no. 251, Sarkhej Bavla Highway (N.H. no. 8A), Village: Sari

Taluka: Sanand, Ahmedabad 382 220, Gujarat, India

T: +91-2717-699061 E: sales@teraspin.com W: www.ategroup.com/teraspin

CIN: U51503MH2001PTC132921

Marketed and sold by:



**A.T.E. ENTERPRISES PRIVATE LIMITED**

T: +91-22-6676 6100

E: poacc@ategroup.com

W: www.ategroup.com

