# PRODUCT GUIDE

Chapter 4
TeraSpin weighting arms





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Research and Development is a continuous process. Hence, some of the information provided in this PRODUCT GUIDE may have become obsolete with TeraSpin's new developments in technology.

TeraSpin is a business unit of A.T.E. Enterprises Private Limited, a company engaged in the service of the textile industry since 1939. TeraSpin came into existence in 2012 after A.T.E.'s takeover of SKF India's textile spinning component business. Since then it has been innovating and making continual improvements in quality and reliability in the service of spinning mills and machinery manufacturers around the world.

TeraSpin's product range consists of weighting arms, top rollers & cradles for roving frame and ring frame, spindle bearing units and complete spindles for ring frames and doubling frames. TeraSpin also offers customized upgrades for existing ring spinning and roving frames.

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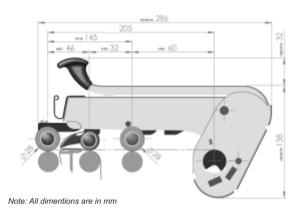


Chapter 4 TeraSpin weighting arms





# PK series of weighting arms for short staple ring frames PK 2025 - 1251331



## Combination of cardle and top rollers

Cradle	Top roller at front and back position	Apron top roller	Recommnded top apron size (mm)@	Fibre length (mm)
OH 62-1275254	LP 302-000684	LP S 3681		Cotton
OH 62-12/5254	LP 302-000664	LP 303-000684		– Up to 45
011 0 400		LP S 3681	¤	Man-
OH S 168	LP 302-000684	LP 303-000684	37 x 28 x 0.9	made
011 00 4075007	. 5 000 000075	LP S 3751		– Up to
OH 62-1275267	LP 302-000075	LP 303-000075		

Roller	Bottom		Top roller			
position	roller ø (mm)#	Cot ø (mm)^	Load in daN			
Front	25 - 27	28	6* and 10	14	18	
Middle (with apron)	25 - 27	25	10	14	-	
Rear	25 - 27	28	12	16	-	

# Dia. of bottom rollers depends on machine manufacturers

 Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply

@ Apron is not in the scope of supply

\* For partial load reduction please refer page no. IX-15 to IX-17

Done can use apron of different thickness

# Application/s

Machine/s : Short staple ring frame with 3-roller-double

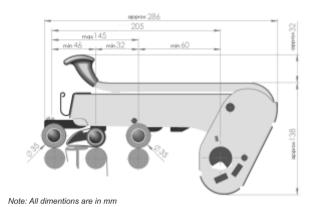
apron drafting system

Process/s : Spinning

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



#### PK 2035 - 1251784



## Combination of cardle and top rollers

Cradle	Top roller at front and back position	Apron top roller	Recommended top apron size (mm)@	Fibre length (mm)
OH 131 -1275264	LP 302- 00068	LP S 3681 LP 303- 000684	41.5 x 28 x 0.9	45- 54
OH 121-000684	LP 302- 000684	LP S 3681 LP 303- 000684	51.7 x 28 x 0.9	55 - 60

Roller			Top rolle	r	
position	roller ø (mm)#	Cot ø (mm)^	Load in daN		
Front	27 - 30	35	6* and 10	14	18
Middle (with apron)	25 - 27	25	10	14	-
Rear	27 - 30	35	12	16	_

# Dia. of bottom rollers depends on machine manufacturers

^ Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply

@ Apron is not in the scope of supply

\* For partial load reduction please refer page no. IX-15 to IX-17

m One can use apron of different thickness

# Application/s

Machine/s : Ring frame with 3-roller-double apron

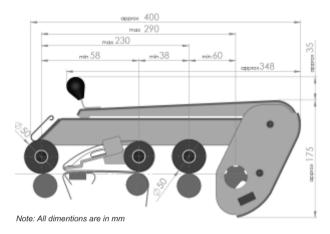
drafting system

Process/s : Spinning

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



# PK series of weighting arms for worsted ring frames PK 1601-01



## Combination of cardle and top rollers

Cradle	Top roller at front and back position	Apron top roller	Recommended top apron size (mm)@	Fibre length (mm)
OH 554 -000075	LP 314- 000075	LP 316- 000075	84.1 x 32 x 1	Upto 200

Roller	Bottom	Top roller				Weighing
position	roller ø	Cot ø	Load in daN		element	
•	(mm)#	(mm)^	Black	Green	Red	
Front	32-35	50	20	27	35	MD 5
Middle (with apron)	27-30	48*	9	12	15	XR 5-1
Rear	32-35	50	20	25	30	ME 5

- # Dia. of bottom rollers depends on machine manufacturers
- Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply
- \* Top apron roller as recessed roller. For details please refer page no. IX-50 to IX-51
- @ Apron is not in the scope of supply
- Done can use apron of different thickness

#### Application/s

Machine/s : Worsted ring frame with 3-roller-double apron

drafting system

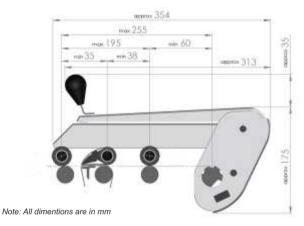
Process/s : Spinning

Raw material/s: Wool and its blend with man-made fibres and

dry-spun bast fibres



# PK series of weighting arms for roving frames PK 1500-0962604



## Combination of cardle and top rollers

Cradle	Fibre length (mm)	Bottom roller ø (mm) #	Top cot ø (mm) **	Recommended top apron size (mm)@
OH 514-1275261	Up to 44 max.	27 - 30	28/25*/28	37 X 40 X 0.9
OH 534-1275268	45 - 54	30 - 32	35/33*/35	48 X 40 X 0.9
OH 534-000110	45 - 54	30 - 32	33/33/33	40 \ 40 \ 0.9
OH 524-000110	55 - 60	30 - 32	35/33*/35	57.2 X 40 X 0.9

Polymer medium cradle OH 534-0001275268 and metal medium cradle OH 534-000110 are interchangeable

Roller	Weighing	Top r	oller load in	n daN
position	element	Black	Green	Red
Front	ME 5	20	25	30
Middle (with apron)	XM 5-1	10	15	20
Rear	RG 5	15	20	25

Top roller at front and back position	Apron top roller
LP 315-000110	LP 317-000110

- # Dia. of bottom rollers depends on machine manufacturers
- \*\* Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply
- @ Apron in not in the scope of supply
- It is recommended to keep the cot diameter on lower side (up to 0.3 mm less) to allow free rotation of aprons
- m One can use apron of different thickness

# Application/s

Machine/s : Roving frame with 3-roller-double apron

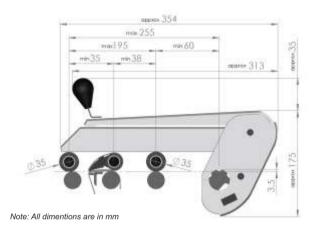
drafting system

Process/s : Spinning

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



#### PK 1500-0962602



## Combination of cardle and top rollers

Cradle	Fibre length (mm)	Bottom roller ø (mm) #	Top cot ø (mm) **	Recommended top apron size (mm)@
OH 514-1275261	Up to 44 max.	30	35/25*/35	37 X 40 X 0.9
OH 534-1275268 OH 534-000110	45 - 54	30 - 32		43.5 X 40 X 0.9
OH 524-000110	55 - 60	30 - 32	35/25*/35	52.7 X 40 X 0.9

Polymer medium cradle OH 534-1275268 and metal medium cradle OH 534-000110, are interchangeable.

Roller	Weighing	Top r	oller load in	n daN
position	element	Black	Green	Red
Front	ME 5	20	25	30
Middle (with apron)	XM 5-1	10	15	20
Rear	RG 5	15	20	25

Top roller at front and back position	Apron top roller
LP 315-000110	LP 317-000110

- # Dia. of bottom rollers depends on machine manufacturers
- \*\* Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply
- @ Apron in not in the scope of supply
- It is recommended to keep the cot diameter on lower side (up to 0.3 mm less) to allow free rotation of aprons
- m One can use apron of different thickness

## Application/s

Machine/s : Roving frame with 3-roller-double apron

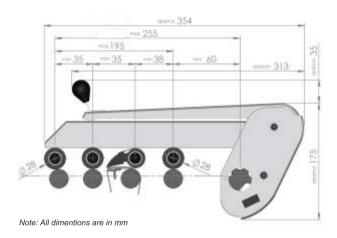
drafting system

Process/s : Spinning

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



#### PK 1500-0001938



# Combination of cardle and top rollers

Cradle	Fibre	Bottom	Top	Recommended
	length	roller ø	cot ø	top apron
	(mm)	(mm) #	(mm) **	size (mm)@
OH 514-1275261	Up to 44 max.	27 - 30	28/28/25*/28	37 X 40 X 0.9

Roller	Weighing	Top roller load in daN		daN
position	element	Black	Green	Red
Front	XR 5	9	12	15
2 <sup>nd</sup>	RG 5	15	20	25
3 <sup>rd</sup> (with apron)	XM 5-1	10	15	20
Rear	XM 5	10	15	20

Top roller at front, 2 <sup>nd</sup> and back position	Apron top roller
LP 315-000110	LP 317-000110

- # Dia. of bottom rollers depends on machine manufacturers
- \*\* Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply
- @ Apron in not in the scope of supply
- It is recommended to keep the cot diameter on lower side (up to 0.3 mm less) to allow free rotation of aprons
- Dome on use a proper of different thickness

# Application/s

Machine/s : Roving frame with 4-roller-double apron

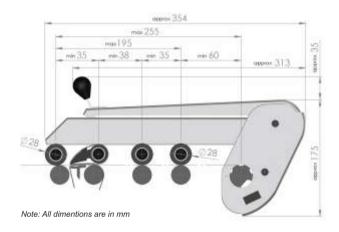
drafting system

Process/s : Spinning

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



#### PK 1500-0001940



## Combination of cardle and top rollers

Cradle	Fibre	Bottom	Top	Recommended
	length	roller ø	cot ø	top apron
	(mm)	(mm) #	(mm) **	size (mm)@
OH 514-1275261	Up to 44 max.	27 - 30	28/25*/28/28	37 X 40 X 0.9

Roller	Weighing	Top roller load in daN		daN
position	element	Black	Green	Red
Front	ME 5	20	25	30
2 <sup>nd</sup> (with apron)	XM 5-1	10	15	20
3 <sup>rd</sup>	RG 5	15	20	25
Rear	RG 5	15	20	25

Top roller at front, 3 <sup>rd</sup> and back position	Apron top roller
LP 315-000110	LP 317-000110

- # Dia. of bottom rollers depends on machine manufacturers
- \*\* Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply
- @ Apron in not in the scope of supply
- It is recommended to keep the cot diameter on lower side (up to 0.3 mm less) to allow free rotation of aprons
- Dome on use a proper of different thickness

# Application/s

Machine/s : Roving frame with 4-roller-double apron

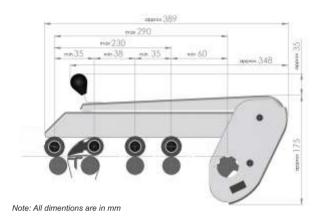
drafting system

Process/s : Spinning

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



#### PK 1600-40



### Combination of cardle and top rollers

Cradle	Fibre length (mm)	Bottom roller ø (mm) #	Top cot ø (mm) **	Recommended top apron size (mm)@
OH 514-1275261	Up to 44 max.		28/25*/28/28	37 X 40 X 0.9
OH 534-1275268 OH 534-000110	45 - 54	27 - 32	35/33*/35/35	48 X 40 X 0.9
OH 524-000110	55 - 60		35/33*/35/35	57.2 X 40 X 0.9

Roller	Weighing	Top roller load in daN		daN
position	element	Black	Green	Red
Front	ME 5	20	25	30
2 <sup>nd</sup> (with apron)	XM 5-1	10	15	20
3 <sup>rd</sup>	XM 5	10	15	20
Rear	XM 5	10	15	20

Top roller at front, 3 <sup>rd</sup> and back position	Apron top roller
LP 315-000110	LP 317-000110

- # Dia. of bottom rollers depends on machine manufacturers
- \*\* Top roller cot dia. indicates the dia. of newly mounted cots and they are not in the scope of supply
- @ Apron in not in the scope of supply
- It is recommended to keep the cot diameter on lower side (up to 0.3 mm less) to allow free rotation of aprons
- One can use apron of different thickness

#### Application/s

Machine/s : Roving frame with 4-roller-double apron

drafting system

Process/s : Spinning

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



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