

PRODUCT GUIDE

Chapter 14

Technical comparison with competitors



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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.

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A.T.E. ENTERPRISES PRIVATE LIMITED

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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Weighting arms for short staple ring frames

Make	TEXParts components	Equivalent TeraSpin component		
Weighting arm for short staple ring frame	PK 2630 SE-6011651	PK 2025-1251331	PK 2025-22R	Application
Loading system	Coiled spring	Coiled spring	Coiled spring	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
Single weighting element (Individual replaceable)	Yes	No	No	
Option for top roller loading	5 on all top rollers	Front : 4 Middle : 2 Rear : 2	Front : 4 Middle : 2 Rear : 2	
Max. top roller load	Front : 20 daN Middle : 18 daN Rear : 20 daN	Front : 18 daN Middle : 14 daN Rear : 16 daN	Front : 22 daN Middle : 14 daN Rear : 16 daN	
Front top roller off-set	Can be adjusted by adjusting front weighting element	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	
Top roller dia.	30/25/30	28/25/28	28/25/28	
Cradle	Ideally recommended for short cradle	Ideally recommended for short cradle	Ideally recommended for short cradle	
Load indicator visible from distance	Yes	No	No	
Arm bar	Round	Round	Round	
Suitable for various compact system	Suessen : Yes	Yes	Yes	
	Toyota Alfa : Yes	Yes	Yes	
	RoCoS : Yes	Yes	Yes	
	Statex : Yes	Yes	Yes	
	H-Fang : Yes	Yes	Yes	
	Ariser : Yes	Yes	Yes	
	Astrosun : Yes	Yes	Yes	
	Adler : Yes	Yes	Yes	
Other attachment	DeChang : yes	Yes	Yes	
	Core Yarn : yes	Yes	Yes	
	Slub Yarn : yes	Yes	Yes	

Make	TEXParts components	Equivalent TeraSpin component		
Weighting arm for short staple ring frame	PK 2025 Plus	PK 2025-1251331	PK 2025-22R	Appication
Loading system	Coiled spring	Coiled spring	Coiled spring	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
Single weighting element (Individual replaceable)	No	No	No	
Option for top roller loading	Front : 6 Middle : 2 Rear : 2	Front : 4 Middle : 2 Rear : 2	Front : 4 Middle : 2 Rear : 2	
Max. top roller load	Front : 21 daN Middle : 14 daN Rear : 16 daN	Front : 18 daN Middle : 14 daN Rear : 16 daN	Front : 22 daN Middle : 14 daN Rear : 16 daN	
Front top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	
Top roller dia.	30/25/30	28/25/28	28/25/28	
Cradle	Ideally recommended for short cradle	Ideally recommended for short cradle	Ideally recommended for short cradle	
Load indicator visible from distance	Yes	No	No	
Arm bar	Round	Round	Round	
Suitable for various compact system	Suessen : Yes	Yes	Yes	
	Toyota Alfa : Yes	Yes	Yes	
	RoCoS : Yes	Yes	Yes	
	Statex : Yes	Yes	Yes	
	H-Fong : Yes	Yes	Yes	
	Ariser : Yes	Yes	Yes	
	Astrosun : Yes	Yes	Yes	
	Adler : Yes	Yes	Yes	
Other attachment	DeChang : yes	Yes	Yes	
	Core Yam : yes	Yes	Yes	
	Slub Yam : yes	Yes	Yes	

Make	TEXParts components	Equivalent TeraSpin component		
Weighting arm for short staple ring frame	PK 2035 Plus	PK 2035-1251784	PK 2035-22R	Appication
Loading system	Coiled spring	Coiled spring	Coiled spring	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
Single weighting element (Individual replaceable)	No	No	No	
Option for top roller loading	Front : 6 Middle : 2 Rear : 2	Front : 4 Middle : 2 Rear : 2	Front : 4 Middle : 2 Rear : 2	
Max. top roller load	Front : 21 daN Middle : 14 daN Rear : 16 daN	Front : 18 daN Middle : 14 daN Rear : 16 daN	Front : 22 daN Middle : 14 daN Rear : 16 daN	
Front top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	
Top roller dia.	35/25/35	35/25/35	35/25/35	
Cradle	Ideally recommended for medium/long cradle	Ideally recommended for medium/long cradle	Ideally recommended for medium/long cradle	
Load indicator visible from distance	Yes	No	No	
Arm bar	Round	Round	Round	
Suitable for various compact system	Suessen : Yes	Yes	Yes	
	Toyota Alfa : Yes	Yes	Yes	
	RoCoS : Yes	Yes	Yes	
	Statex : Yes	Yes	Yes	
	H-Fong : Yes	Yes	Yes	
	Ariser : Yes	Yes	Yes	
	Astrosun : Yes	Yes	Yes	
	Adler : Yes	Yes	Yes	
Other attachment	DeChang : yes	Yes	Yes	
	Core Yarn : yes	Yes	Yes	
	Slub Yarn : yes	Yes	Yes	

Make	TEXParts components	Equivalent TeraSpin component		
Weighting arm for short staple ring frame	PK 2635 SE-6013408	PK 2035-1251784	PK 2035-22R	Application
Loading system	Coiled spring	Coiled spring	Coiled spring	Machine/s: Ring frame with 3-roller-double apron drafting system Process/s: Spinning Raw material/s: Man-made fibres and their blends
Single weighting element (Individual replaceable)	Yes	No	No	
Option for top roller loading	5 on all top rollers	Front : 4 Middle : 2 Rear : 2	Front : 4 Middle : 2 Rear : 2	
Max. top roller load	Front : 20 daN Middle : 18 daN Rear : 20 daN	Front : 18 daN Middle : 14 daN Rear : 16 daN	Front : 22 daN Middle : 14 daN Rear : 16 daN	
Front top roller off-set	Can be adjusted by adjusting front weighting element	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	Fixed (+2 mm). Need to adjust arm bar setting to change the top roller off-set	
Top roller dia.	35/25/35	35/25/35	35/25/35	
Cradle	Ideally recommended for medium/long cradle	Ideally recommended for medium/long cradle	Ideally recommended for medium/long cradle	
Load indicator visible from distance	Yes	No	No	
Arm bar	Round	Round	Round	
Weighting arm for short staple ring frame	PK 2655 SE-6013413	Not available & not require		
Drafting system	3-roller V-draft			Suitabke for ring frame which has bottom roller arrangement suitable for V-draft
Loading system	Coiled Spring			
Single weighting element (Individual replaceable)	Yes			
Option for top roller loading	5 on all top rollers			
Max. top roller load	Front : 20 daN Middle : 18 daN Rear : 18 daN			
Front top roller off-set	Can be adjusted by adjusting front weighting element			
Top roller dia.	30/25/30			
Cradle	Ideally recommended for short cradle			
Load indicator visible from distance	Yes			
Arm bar	Round			

Make	TEXParts components	Equivalent TeraSpin component			
Weighting arm for short staple ring frame	PK 2655 SE-6013417	Not available & not require			Application
Drafting system	3-roller V-draft	Suitable for ring frame which has bottom roller arrangement suitable for V-draft			
Loading system	Coiled Spring				
Single weighting element (Individual replaceable)	Yes				
Option for top roller loading	5 on all top rollers				
Max. top roller load	Front : 20 daN Middle : 18 daN Rear : 18 daN				
Front top roller off-set	Can be adjusted by adjusting front weighting element				
Top roller dia.	35/25/35				
Cradle	Ideally recommended for medium/long cradle				
Load indicator visible from distance	Yes				
Arm bar	Round				

Make	TEXParts components	Equivalent TeraSpin component					Application
Weighting arm for short staple ring frame	PK 2630 SEH	PK S 3220	PK S 3225	PK S 3224	PK S 3226	Application	
Loading system	Coiled Spring	Coiled Spring	Coiled Spring	Coiled Spring	Coiled Spring	Machine/s : LMW/Rieter ring frame with 3-roller-double apron drafting system Process/s : Spinning Raw material/s : Man-made fibres and their blends	
Single weighting element (Individual replaceable)	Yes	Yes	Yes	Yes	Yes		
Cradle & Middle top roller	TEXParts only	TeraSpin only	TeraSpin only	TeraSpin only	TeraSpin only		
Front & rear top roller	TEXParts/LMW/Rieter	LMW	LMW	Front - H-Fang Rear - LMW	Front - LMW SPINPACT Rear - LMW		
Option for top roller loading	5 on all top rollers	5 on all top rollers	5 on all top rollers	5 on all top rollers	5 on all top rollers		
Max. top roller load	Front : 20 daN Middle : 18 daN Rear : 20 daN	Front : 22 daN Middle : 18 daN Rear : 18 daN	Front : 22 daN Middle : 18 daN Rear : 18 daN	Front : 22 daN Middle : 18 daN Rear : 18 daN	Front : 22 daN Middle : 18 daN Rear : 18 daN		
Front top roller off-set	Can be adjusted by adjusting front weighting element	Can be adjusted by adjusting front weighting element	Can be adjusted by adjusting front weighting element	Can be adjusted by adjusting front weighting element	Can be adjusted by adjusting front weighting element		
Top roller dia.	32/25/32	30/25/30	35/25/35	29/25/30	29/25/30		
Cradle	Recommended for short/medium cradle	Recommended for short cradle	Recommended for medium & long cradle	Recommended for short cradle	Recommended for short cradle		
Load indicator visible from distance	Yes	No	No	No	No		
Arm bar	Hexagonal	Hexagonal	Hexagonal	Hexagonal	Hexagonal		
Suitable for various compact system	Suessen : Yes	No	No	No	No		
	Rieter : Don't know	No	No	No	No		
	LMW : Yes	No	No	No	Yes		
	RoCoS : Yes	No	No	No	No		
	Stalex : Yes	No	No	No	No		
	H-Fang : Yes	No	No	Yes	No		
	Ariser : Yes	No	No	No	No		
	Astrosun : Yes	No	No	No	No		
Other attachment	Core Yam : yes	Yes	Yes	Yes	Yes		
	Slub Yam : yes	Yes	Yes	Yes	Yes		

Weighting arms for roving frames

Make	TEXParts components	Equivalent TeraSpin component	
Weigthing arm for roving frames	PK 5025-1259471	Not available & not require	Application
Drafting	3-roller		Machine/s : Roving frame with 3-roller-double apron drafting system Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
Loading system	Pneumatic		
Top roller dia.	28/25/28		
Max. top roller load	Front : 36 daN Middle : 21 daN Rear : 32 daN		
Cradle	Short		
Weigthing arm for roving frames	PK 5035-1259473	Not available & not require	Application
Drafting	3-roller		Machine/s : Roving frame with 3-roller-double apron drafting system Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
Loading system	Pneumatic		
Top roller dia.	35/25/35		
Max. top roller load	Front : 36 daN Middle : 21 daN Rear : 32 daN		
Cradle	Medium/long		
Weigthing arm for roving frames	PK 5025-1259472	Not available & not require	Application
Drafting	4-roller		Machine/s : Roving frame with 4-roller-double apron drafting system Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
Apron roller position	3rd roller		
Loading system	Pneumatic		
Top roller dia.	28/28/25/28		
Max. top roller load	Front : 20 daN 2nd : 31 daN 3rd : 20 daN Rear : 31 daN		
Cradle	Short		

Make	TEXParts components	Equivalent TeraSpin component	
Weighing arm for roving frames	PK 5035-1259474	Not available & not require	Application
Drafting	4-roller		Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	3rd roller		
Loading system	Pneumatic		
Top roller dia.	35/35/25/35		Process/s : Spinning
Max. top roller load	Front : 20 daN 2nd : 31 daN 3rd : 20 daN Rear : 31 daN		Raw material/s : Cotton, man-made fibres and their blends
Cradle	Medium/long		
Weighing arm for roving frames	PK 5025-1260632	Not available & not require	Application
Drafting	4-roller		Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	2nd roller		
Loading system	Pneumatic		
Top roller dia.	28/25/28/28		Process/s : Spinning
Max. top roller load	Front : 31 daN 2nd : 20 daN 3rd : 31 daN Rear : 31 daN		Raw material/s : Cotton, man-made fibres and their blends
Cradle	Short		
Weighing arm for roving frames	PK 5035-6010014	Not available & not require	Application
Drafting	4-roller		Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	2nd roller		
Loading system	Pneumatic		
Top roller dia.	35/25/35/35		Process/s : Spinning
Max. top roller load	Front : 31 daN 2nd : 20 daN 3rd : 31 daN Rear : 31 daN		Raw material/s : Cotton, man-made fibres and their blends
Cradle	Medium/long		

Make	TEXParts components	Equivalent TeraSpin component	
Weighing arm for roving frames	PK 1550-6008948	PK 1500-0962604	Application
Drafting	3-roller	3-roller	Machine/s : Roving frame with 3-roller-double apron drafting system
Loading system	Coil spring	Coil spring	
Top roller dia.	28/25/28	28/25/28 & 35/33/35	
Max. top roller load	Front : 30 daN Middle : 20 daN Rear : 25 daN	Front : 30 daN Middle : 20 daN Rear : 25 daN	Process/s : Spinning
Cradle	Recommended for short cradle	Recommended for short/medium/long cradle	Raw material/s : Cotton, man-made fibres and their blends
Load indicator visible from distance	Yes	No	
Weighing arm for roving frames	PK 1550-6008949	PK 1500-0962602	Application
Drafting	3-roller	3-roller	Machine/s : Roving frame with 3-roller-double apron drafting system
Loading system	Coil spring	Coil spring	
Top roller dia.	35/25/35	35/25/35	
Max. top roller load	Front : 30 daN Middle : 20 daN Rear : 25 daN	Front : 30 daN Middle : 20 daN Rear : 25 daN	Process/s : Spinning
Cradle	Recommended for medium/long cradle	Recommended for medium/long cradle	Raw material/s : Cotton, man-made fibres and their blends
Load indicator visible from distance	Yes	No	
Weighing arm for roving frames	PK 1550-6008947 PK 1500-6024621	PK 1500-0001938	Application
Drafting	4-roller	4-roller	Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	3rd roller	3rd roller	
Loading system	Coil spring	Coil spring	
Top roller dia.	28/28/25/28	28/28/25/28	Process/s : Spinning
Max. top roller load	Front : 15 daN 2nd : 25 daN 3rd : 20 daN Rear : 20 daN	Front : 15 daN 2nd : 25 daN 3rd : 20 daN Rear : 20 daN	
Cradle	Recommended for short cradle	Recommended for short cradle	
Load indicator visible from distance	Yes	No	Raw material/s : Cotton, man-made fibres and their blends
Weighing arm for roving frames	PK 1550-6017295	PK 1500-0001940	Application
Drafting	4-roller	4-roller	Application/s Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	2nd roller	3rd roller	
Loading system	Coil spring	Coil spring	
Top roller dia.	28/25/28/28	28/25/28/28	Process/s : Spinning
Max. top roller load	Front : 30 daN 2nd : 20 daN 3rd : 20 daN Rear : 20 daN	Front : 15 daN 2nd : 25 daN 3rd : 25 daN Rear : 25 daN	
Cradle	Recommended for short cradle	Recommended for short cradle	
Load indicator visible from distance	Yes	No	Raw material/s : Cotton, man-made fibres and their blends

Make	TEXParts components	Equivalent TeraSpin component	
Weighing arm for roving frames	PK 1580-6030302	PK 1500-0962604	Application
Drafting	3-roller	3-roller	Machine/s : Roving frame with 3-roller-double apron drafting system
Loading system	Coil spring	Coil spring	
Top roller dia.	28/25/28	28/25/28 & 35/33/35	
Max. top roller load	Front : 30 daN 2nd : 20 daN Rear : 25 daN	Front : 30 daN Middle : 20 daN Rear : 25 daN	Process/s : Spinning
Cradle	Recommended for short cradle	Recommended for short/medium/long cradle	Raw material/s : Cotton, man-made fibres and their blends
Load indicator visible from distance	Yes	No	
Weighing arm for roving frames	PK 1580-6030307	PK 1500-0962602	Application
Drafting	3-roller	3-roller	Machine/s : Roving frame with 3-roller-double apron drafting system
Loading system	Coil spring	Coil spring	
Top roller dia.	35/25/35	35/25/35	
Max. top roller load	Front : 30 daN 2nd : 20 daN Rear : 25 daN	Front : 30 daN Middle : 20 daN Rear : 25 daN	Process/s : Spinning
Cradle	Recommended for emdium/long cradle	Recommended for medium/long cradle	Raw material/s : Cotton, man-made fibres and their blends
Load indicator visible from distance	Yes	No	
Weighing arm for roving frames	PK 1580-6030393	PK 1500-0001938	Application
Drafting	4-roller	4-roller	Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	3rd roller	3rd roller	
Loading system	Coil spring	Coil spring	
Top roller dia.	28/28/25/28	28/28/25/28	Process/s : Spinning
Max. top roller load	Front : 15 daN 2nd : 25 daN 3rd : 20 daN Rear : 20 daN	Front : 15 daN 2nd : 25 daN 3rd : 20 daN Rear : 20 daN	
Cradle	Recommended for short cradle	Recommended for short cradle	Raw material/s : Cotton, man-made fibres and their blends
Load indicator visible from distance	Yes	No	
Weighing arm for roving frames	PK 1580-6030392	PK 1500-0001940	Application
Drafting	4-roller	4-roller	Application/s Machine/s : Roving frame with 4-roller-double apron drafting system
Apron roller position	2nd roller	3rd roller	
Loading system	Coil spring	Coil spring	
Top roller dia.	28/25/28/28	28/25/28/28	Process/s : Spinning
Max. top roller load	Front : 30 daN 2nd : 20 daN 3rd : 20 daN Rear : 20 daN	Front : 15 daN 2nd : 25 daN 3rd : 25 daN Rear : 25 daN	
Cradle	Recommended for short cradle	Recommended for short cradle	Raw material/s : Cotton, man-made fibres and their blends
Load indicator visible from distance	Yes	No	

Weighting arm for worsted ring frame

Make	TEXParts components	Equivalent TeraSpin component	
Weighting arm for worsted ring frame	PK 6000-1252924	Not available & not require	Application
Loading system	Pneumaic		Machine/s : Worsted ring frame with 3-roller-double apron drafting system
Max. top roller load	Front : 36 daN Middle : 16.8 daN Rear : 33 daN		Process/s : Spinning
Top roller dia.	50/33/50		Raw material/s : Wool and its blend with man-made fibres and dry-spun bast fibres
Weighting arm for worsted ring frame	PK 1660-6009934	PK 1601-01	Application
Loading system	Coil spring	Coil spring	Machine/s : Worsted ring frame with 3-roller-double apron drafting system
Max. top roller load	Front : 35 daN Middle : 15 daN Rear : 30 daN	Front : 35 daN Middle : 15 daN Rear : 30 daN	Process/s : Spinning
Top roller dia.	50/48/50	50/48/50	Raw material/s : Wool and its blend with man-made fibres and dry-spun bast fibres
Load indicator visible from distance	Yes	No	

Top rollers for short staple ring frames

TEXParts top rollers	Equivalent TeraSpin top rollers	Remarks	Application
LP 1202-1263615	LP 302-000684	No grooves on LAR of TEXParts top roller	Top arm : PK 2000 series (TeraSpin & TEXParts) Position/s : Front and rear top roller Machine/s : Short staple ring frame Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
LP 1202-1263620	LP 302-000075	No grooves on LAR of TEXParts top roller	
LP 1002-1249324	LP 302-000684		
LP 1002-1264212	Not available & not require	Top roller for 70 mm spindle gauge	
LP 1002-1248379	LP 302-000075		
LP 1002-1248382	LP 302-000825		
LP 1002-1256898	Not available & not require	Top roller for 90 mm spindle gauge, which is very rare	
LP 1002-0956274	Not available & not require	Top roller for 100 mm spindle gauge, which is very rare	
LP 1002-1264818	Not available	68.4 mm spindle gauge, LAR width is 34 mm, to be used as apron top roller with cots & 32 mm apron width	
LP 1002-1264819	Not available	70 mm spindle gauge, LAR width is 34 mm, to be used as apron top roller with cots & 32 mm apron width	
LP 1002-1248601	Not available	75 mm spindle gauge, LAR width is 34 mm, to be used as apron top roller with cots & 32 mm apron width	Top arm : PK 2000 series (TeraSpin & TEXParts) Position/s : Middle top roller Machine/s : Short staple ring frame Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
LP 1002-1256896	Not available	82.5 mm spindle gauge, LAR width is 34 mm, to be used as apron top roller with cots & 32 mm apron width	
LP 1002-1256897	Not available	90 mm spindle gauge, LAR width is 34 mm, to be used as apron top roller with cots & 32 mm apron width	
LP 1203-1263664	LP S 3681		
LP 1203-1263665	LP S 3751		
LP 1003-1256596	LP 303-000684		Top arm : PK 2000 series (TeraSpin & TEXParts) Position/s : Middle top roller Machine/s : Short staple ring frame Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
LP 1003-1264218	Not available & not require	Top roller for 70 mm spindle gauge	
LP 1003-1256597	LP 303-000075		
LP 1003-1256598	LP 303-000825		
LP 1003-1256599	Not available & not require	Top roller for 90 mm spindle gauge, which is very rare	Position/s : Front and rear top roller as well as apron top roller (with cot) Machine/s : Short staple ring frame Process/s : Spinning Weighting arm/s : Rieter and LMW make pneumatic top arms Raw material/s : Cotton, man-made fibres and their blends
LP 302-0019135	LP 302-000070L		
LP 302-0015895	LP 302-000075L		
LP 302-0019136	Not available & not require	Top roller for 80 mm spindle gauge, which is very rare	
LP 302-0019137	Not available & not require	Top roller for 90 mm spindle gauge, which is very rare	Position/s : Front and rear top roller as well as apron top roller (with cot) Machine/s : Short staple ring frame Process/s : Spinning Weighting arm/s : Rieter and LMW make pneumatic top arms Raw material/s : Cotton, man-made fibres and their blends
LP 302-0010014	LP 302-000070G		
LP 302-0010015	Not available & not require	This is for 75mm gauge, DJ 5 RF, which is very rare now	
LP 302-0010011	LP 302-000080G		
LP 302-0010016	LP 302-000090G		

Top rollers for roving frames

TEXParts top rollers	Equivalent TeraSpin top rollers	Remarks	Application
LP 1015-1253744	Not available & not require	Top roller for 82.5 mm spindle gauge, which is very rare	Top arm : PK 1500 series & 1600-40 (TeraSpin & TEXParts)
LP 1015-1253745	Not available & not require	Top roller for 90 mm spindle gauge, which is very rare	Position/s : Any position other than apron top roller (For PK 1500 series & PK 1600-40 from TeraSpin & TEXParts). All position (TEXParts PK 1550 & PK 1580 top arms)
LP 1015-0025227	Not available & not require	Top roller for 100 mm spindle gauge, which is very rare	
LP 1015-0025228	LP 315-000110		
LP 1015-0025229	Not available & not require	Top roller for 130 mm spindle gauge, which is very rare	Machine/s : Roving frame Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
LP 1017-1256712	Not available & not require	Top roller for 82.5 mm spindle gauge, which is very rare	Position/s : Apron top roller Machine/s : Roving frame
LP 1017-1256713	Not available & not require	Top roller for 90 mm spindle gauge, which is very rare	
LP 1017-0013010	Not available & not require	Top roller for 100 mm spindle gauge, which is very rare	Process/s : Spinning Raw material/s : Cotton, man-made fibres and their blends
LP 1017-0013011	LP 317-000110		
LP 1017-0013012	Not available & not require	Top roller for 130 mm spindle gauge, which is very rare	

Top rollers for worsted ring frames

TEXParts top rollers	Equivalent TeraSpin top rollers	Remarks	Application
LP 1014-1253740	LP 314-000075		Position/s : Front and rear top roller
LP 1014-1253741	LP 314-000825		Machine/s : Worsted ring frame
LP 1014-1253742	Not available & not require	Top roller for 90 mm spindle gauge, which is very rare	Process/s : Spinning
LP 1014-0025222	Not available & not require	Top roller for 100 mm spindle gauge, which is very rare	Raw material/s : Wool and its blends with man-made fibres
LP 1016-1256711	LP 316-000075		Position/s : Middle (apron) top roller
			Machine/s : Worsted ring frame
Not available	LP 316-000825		Process/s : Spinning
			Raw material/s : Wool and its blends with man-made fibres

Cradles for short staple ring frames

TEXParts cradles	Equivalent TeraSpin cradles	Remarks
OH 2122-6020689	OH S 168	
OH 2122-6018321	OH S 175	
OH 2132-6023011	OH S 1681	Cradle with R=39 mm, Gauge : 70 mm
OH 2132-6023589	Not available. Depending on demand (business case) we can think of developing the same.	Cradle with R=39 mm, Gauge : 75 mm.
OH 2022-1247888	OH S 168	
OH 2022-1247887	OH S 175	
OH2022-1247889	Not available & not require	Short cradle for 82.5 mm gauge has almost no demand
OH 2022-1248410	Not available & not require	Short cradle for 90 mm gauge has almost no demand
OH 2142-6020803 (medium active cradle, new design)	OH 131-1275264	Against TEXParts active cradle, ours is fixed cradle. Need to have smart cradle. Spindle gauge : 70 mm
OH 2142-6022727 (medium active cradle, new design)	Not available. Hardly any enquiry received since TeraSpin started	Medim cradle for 75 mm spindle gauge
OH 2042-1250133 (medium active cradle, old design)	OH 131-1275264	Against TEXParts active cradle, ours is fixed cradle. Need to have smart cradle. Spindle gauge : 70 mm
OH 2042-1250134 (medium active cradle, old design)	Not available. Hardly any enquiry received since TeraSpin started	Medim cradle for 75 mm spindle gauge
OH 132-0963671	Not available & not require	Medium cardle for 82.5 mm spindle gauge
OH 122-0963495	OH 121-000684	
OH 122-0963500	Not available & not require	Long cradle for 75 mm spindle gauge
OH 122-0963511	Not available & not require	Long cradle for 82.5 mm spindle gauge

Cradles for roving frames

TEXParts cradles	Equivalent TeraSpin cradles	Remarks
OH 5022-6010688	Not available & not require	Short cradle suitable for 90 mm spindle gauge, not in demand
OH 5022-6004092	Not available & not require	Short cradle suitable for 100 mm spindle gauge, not in demand
OH 5022-1259297	OH P 110	For TEXParts cradle LP 315 top roller is suitable for TeraSpin cradle LP 317 top roller is suitable
OH 514-0962745	Not available & not require	Short cradle suitable for 100 mm spindle gauge, not in demand
OH 514-0962746	OH 514-1275261	
OH 514-0962747	Not available & not require	Short cradle suitable for 130 mm spindle gauge, not in demand
OH5042-1259506	OH P 310	For TEXParts cradle LP 315 top roller is suitable for TeraSpin cradle LP 317 top roller is suitable
OH 534-0962765	OH 534-1275268 OH 534-000110	
OH 5245-1260370	OH 524-000110	Long metal cradle for roving frame drafting. Common product
OH 524-0962753	Not available & not require	Long cradle suitable for 82.5 mm spindle gauge, not in demand
OH 524-0962755	OH 524-000110	

Cradles for worsted ring frames

TEXParts cradles	Equivalent TeraSpin cradles	Remarks
OH 2402-1253436	Not available & not require	75 mm spindle gauge active cradle for worsted RF drafting, not much in demand
OH 2402-1253437	Not available & not require	82.5 mm spindle gauge active cradle for worsted RF drafting, not much in demand
OH 554-0962767	OH 554-000075	
OH 6022-1254311	Not available & not require	75 mm spindle gauge, active cradle for worsted RF drafting, suitable for TEXParts pneumatic drafting
OH 6022-1254312	Not available & not require	82.5 mm spindle gauge active cradle for worsted RF drafting, suitable for TEXParts pneumatic drafting

Distance clips for ring frames

TEXParts distance clips	Equivalent TeraSpin distance clips	Application
OLC 0964117 Red	OLC 0964117 Red	
OLC 6011878 Chrome yellow	Not available & need it for fine adjustment	
OLC 0964118 Yellow	OLC 0964118 Yellow	
OLC 0017705 Lilac	OLC 0017705 Lilac	
OLC 0964119 White	OLC 0964119 White	
OLC 6006661 Light Green	Not available & need it for fine adjustment	
OLC 0017627 Grey	OLC 0017627 Grey	
OLC 6006662 Turquoise	Not available & need it for fine adjustment	
OLC 0964120 Black	OLC 0964120 Black	
OLC 6006663 Orange	Not available & need it for fine adjustment	
OLC 0004587 Beige	OLC 0004587 Beige	
OLC 0004588 Green	OLC 0004588 Green	




Distance clips for roving frames




TEXParts distance clips	Equivalent TeraSpin distance clips	Application
OLC 0964102 Red	Not available & need it for fine adjustment	
OLC 0964103 Yellow	Not available & need it for fine adjustment	
OLC 0964104 White	OLC 0964104 White	
OLC 0964105 Grey	OLC 0964105 Grey	
OLC 0964106 Black	OLC 0964106 Black	
OLC 0030491 Orange	OLC 0030491 Orange	
OLC 0964107 Beige	OLC 0964107 Ivory	
OLC 0964108 Green	OLC 0964108 Green	
Not available	OLC 7126 Pink	
OLC 0964109 Blue	OLC 0964109 Blue	
OLC 0964110 Brown	OLC 0964110 Brown	




Distance clips for worsted ring frames

TEXParts distance clips	Equivalent TeraSpin distance clips	Application
OLC 0964120 Black	OLC 0964120 Black	
OLC 6006663 Orange	Not available & need it for fine adjustment	
OLC 0004587 Beige	OLC 0004587 Beige	
OLC 0004588 Green	OLC 0004588 Green	
OLC 0004589 Pink	OLC 0004589 Pink	
OLC 0964123 Blue	Not available	Used in short bottom apron systems with UH 54, for worsted drafting systems with weighting arms type PK 1601 and PK 1660.
OLC 0007685 Black		
OLC 0007686 Biege		
OLC 0007687 Green		
OLC 0007688 Pink		

Different yarn catching devices

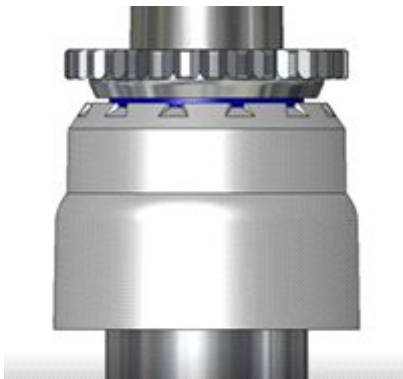
Make	Application	Highlights	Suitable for
Novibra- CROCOdoff 	<ul style="list-style-type: none"> Fibres: all type Yarn counts: > Ne 12 DUI: up to 20 mm Min. ring dia.: > 34 mm 	<ul style="list-style-type: none"> Reduced energy Less maintenance Lower start-up breaks Easily removable & replaceable 	<ul style="list-style-type: none"> LMW, Rieter, Jingwei make of ring frames equipped with autodooffer Medium/Fine count and MMF
Crocodoff Forte 	<ul style="list-style-type: none"> Coarser yarn of cotton, MMF and blends DUI: up to 22.4 mm Min. ring dia.: > 38 mm 	<ul style="list-style-type: none"> Reduced energy Less maintenance Lower start-up breaks Easily removable & replaceable 	<ul style="list-style-type: none"> LMW, Rieter, Jingwei make of ring frames equipped with autodooffer Coarse count and MMF
Novibra- EASYDOFF 	<ul style="list-style-type: none"> All raw materials and yarn counts in short staple spinning Min. ring dia.: > 34 mm 	<ul style="list-style-type: none"> Versatile Easily removable and replaceable Reduced maintenance due to safe catching and cutting of the yarn 	<ul style="list-style-type: none"> KTTM, Zinser, Marzoli

Make	Application	Highlights	Suitable for
<p>Rieter- SERVOGRIP</p> 	<ul style="list-style-type: none"> ▪ Made for Rieter ring frames only 	<ul style="list-style-type: none"> ▪ Reduced fibre fly ▪ Reliable and rapid doffing ▪ Less maintenance 	<ul style="list-style-type: none"> ▪ Only Rieter
<p>TeraSpin- SYC</p> 	<ul style="list-style-type: none"> ▪ Short staple fibres ▪ Yarn counts: > Ne 30s ▪ Max. DUI: 20 mm ▪ Min. ring dia.: 36 mm ▪ Opening and closing speeds: 12500 rpm and 6000 rpm 	<ul style="list-style-type: none"> ▪ Minimum yarn used for clamping ▪ Special cutter for yarn cutting ▪ No accumulation of residual yarn ▪ Reduced start-up breaks ▪ Less labour for cleaning the unit ▪ Improved ring frame productivity ▪ Long service life 	<ul style="list-style-type: none"> ▪ LMW, Rieter, Jingwei make of ring frames equipped with autodoffer ▪ Medium to fine count
<p>Texparts Spinnfinity</p> 	<ul style="list-style-type: none"> ▪ Short staple fibres ▪ Yarn counts: Ne 7 to Ne 150 ▪ Max. DUI: 22 mm ▪ Min. ring dia.: > 36 mm ▪ Opening and closing speeds: 7300 rpm and 2500 rpm ▪ Min. spinning speed: 10000 rpm 	<ul style="list-style-type: none"> ▪ Less energy consumption: light construction ▪ Superior design: Ensures dust resistance ▪ Reduced maintenance ▪ Improved ergonomics - easy cleaning ▪ Reduced yarn waste ▪ Spinnfinity can be locked into a cleaning position and gently cleaned with compressed air 	<ul style="list-style-type: none"> ▪ LMW, Rieter, Jingwei make of ring frames equipped with autodoffer ▪ Coarse count and MMF

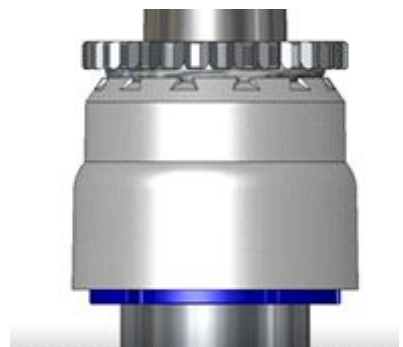
Make	Application	Highlights	Suitable for
<p>LMW HLLD/ HLED</p> 	<ul style="list-style-type: none"> ▪ All types of staple fibres ▪ Yarn counts: > Ne 10s ▪ Max. DUI: 22 mm ▪ Min. ring dia.: > 36 mm ▪ Aluminum holder with fingers and steel cutter blade ▪ Hook Lock Low Decibel (HLLD), HLED spindles with less vibration & noise 	<ul style="list-style-type: none"> ▪ Less energy consumption: lighter and tighter components ▪ Simple design to run and clean ▪ Higher yarn waste on velcro or knurling part 	<ul style="list-style-type: none"> ▪ KTTM, Zinser, Marzoli, Chinese, LMW
<p>KTTM-Velcro & Cutter</p> 	<ul style="list-style-type: none"> ▪ All types of staple fibres ▪ Yarn counts: > Ne 10s ▪ Max. DUI: 22 mm ▪ Min. ring dia.: > 36 mm ▪ Aluminum body with serrated ring and steel cutter blade 	<ul style="list-style-type: none"> ▪ Less energy consumption: lighter and tighter components ▪ Simple design to run and clean ▪ Higher yarn waste on velcro or knurling part 	<ul style="list-style-type: none"> ▪ KTTM, Zinser, Marzoli, Chinese, LMW
<p>Novibra- EASYDOFF</p> 	<ul style="list-style-type: none"> ▪ All types of staple fibres ▪ Yarn counts: > Ne 10s ▪ Max. DUI: 22 mm ▪ Min. ring dia.: > 36 mm ▪ Knurling on the wharve portion with serrated aluminium ring and steel cutter blade 	<ul style="list-style-type: none"> ▪ Less energy consumption: lighter and tighter components ▪ Simple design to run and clean ▪ Higher yarn waste on velcro or knurling part 	<ul style="list-style-type: none"> ▪ KTTM, Zinser, Marzoli, Chinese, LMW

Technical comparison of SYC with other equivalent products

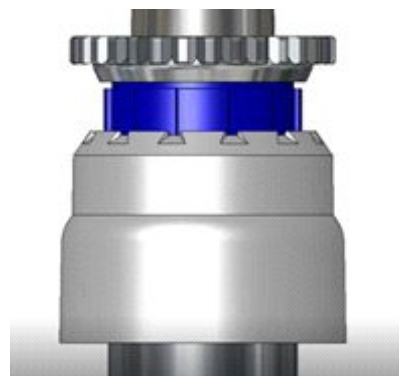
TEXParts ZWU (Sero Under Winding)



- TEXParts ZUW (Zero Under Winding)
- Opening during running condition

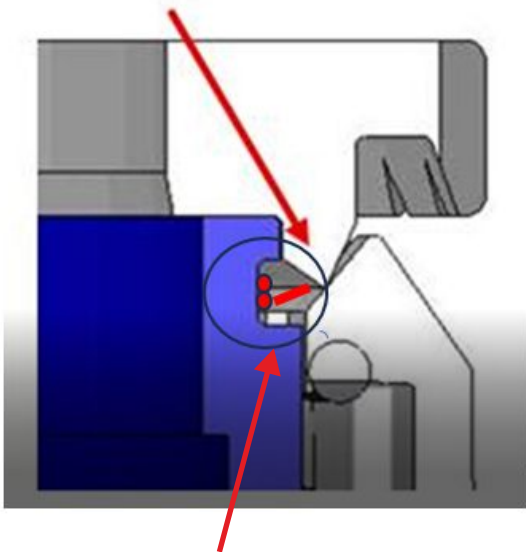


- TEXParts ZUW (Zero Under Winding)
- Closed condition when machine is stopped



- TEXParts ZUW (Zero Under Winding)
- Fully open condition for cleaning

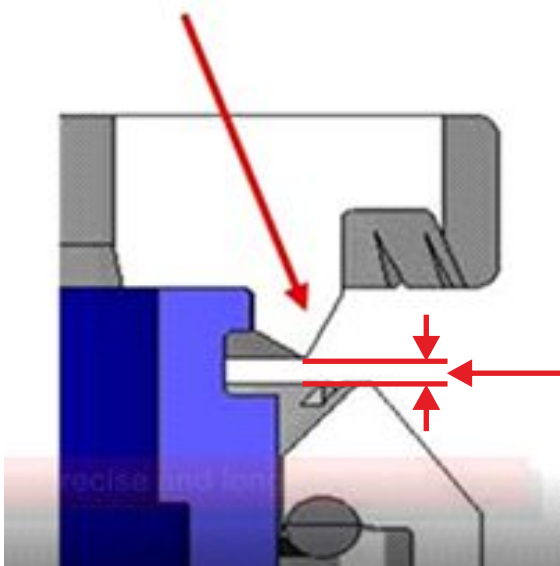
TEXParts ZWU (Sero Under Winding)



2 rounds of yarn inside the cavity
(shown inside the black circle)

Cross section in closed condition when m/c is stopped

- Yarn is gripped only at entry & exit point of yarn (when yarn enters inside the device for winding & after completing 1-2 round when it exit from the device)
- Winding of 1-2 round of yarn is inside the cavity & it is not gripped anyway



Cross section in open condition when m/c is running

Actual opening to wind the yarn at the end of the doff & for exit of this yarn during next doff

- TEXParts new SPINNFINITY also has the same design concept. Only they have used weights instead of balls to exert centrifugal force on the springs
- Yarn grip is poor as yarn is being gripped at entry & exit point
- With more round of yarn, it is difficult for yarn to come out

Novibra CROCOdoff

Closed - yarn clamped



Yarn length over the circumference gets reduced as yarn takes zig-zag path when the device is closed

Open - yarn released



Yarn gets wind straight in open condition

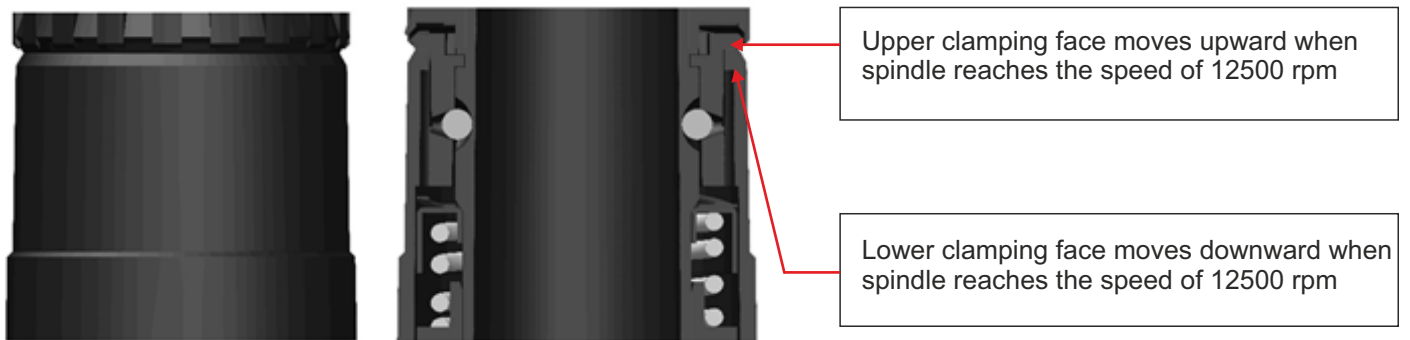
- With more than 1 round, yarn will not be able to adjust in zig-zag path & will not allow device to close which will result in high start-up breaks

TeraSpin Samrt Yarn Catcher (SYC)

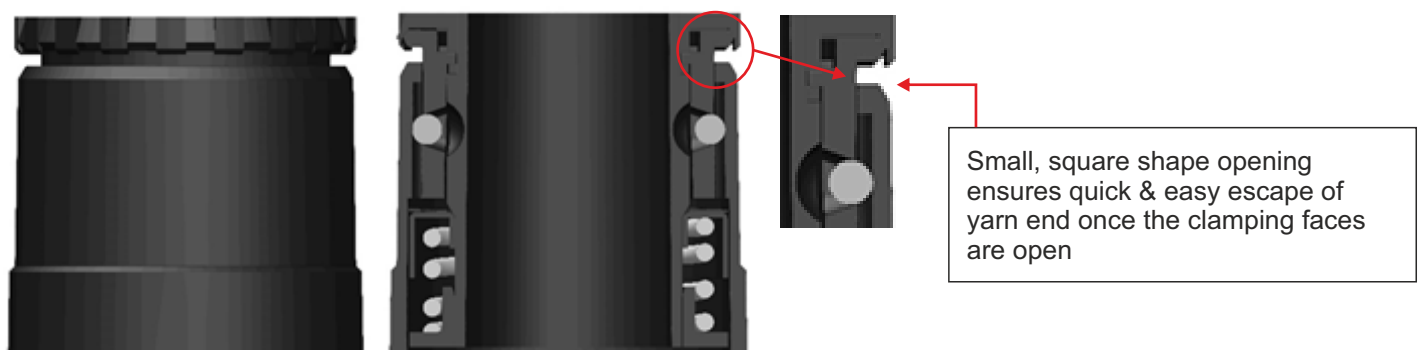
Advantages:

- No accumulation of residual yarn - flat annular clamping faces, enables the yarn to move out of device easily by the centrifugal forces. i.e no resistance when the device is open at high spindle speeds.
- Reliable clamping - both the clamping surfaces can align with each other due to springs.

Close Condition



Open Condition



Cleaning Condition



Condition during manually cleaning
operation (max opening)

Spindle bearing unit for regular spindles

Make	Novibra	TEXParts	TeraSpin		
Model	HPS 68	CS 1	HF-1	HF-100	HF S 681
Elastic bearing	Single elastic bearing	Single elastic bearing	Single elastic bearing	Single elastic bearing	Single elastic bearing
Footstep	Cylindrical footstep with spherical tip	Cylindrical footstep with spherical tip	Conical footstep	Conical footstep	Spheropoint footstep
Guide bush	Cylindrical guide bush	Cylindrical guide bush which causes more friction & hence higher oil temperature inside the bolster	No cylindrical guide bush	No cylindrical guide bush	Cylindrical guide bush
Spiral tube	Spiral centering tube to support foot step	Centering & spring element to support foot step	Spiral centering tube to support foot step	Spiral centering tube to support foot step	Spiral centering tube to support foot step
Oil temperature	Don't know	In running condition spindle oil temp. inside the bolster is 1degree C more than HF-100	In running condition spindle oil temp. inside the bolster is 1 degree C less than CS 1	In running condition spindle oil temp. inside the bolster is 1 degree C less than CS 1	
Technology	Comparatively new technology	Comparatively new technology	Comparatively old technology	Comparatively old technology	Equivalent to CS 1 & HP S 68
Neck bearing dia. (inner)	6.8 mm	6.8 mm	6.8 mm	6.8 mm	6.8 mm
Min. wharve dia.	18.5 mm	18.5 mm	18 mm	18 mm	18 mm
Blade length	100 mm	100 mm	120 mm	100 mm	100 mm
Absorption of axial load	Not available	Not available	Axial compression spring below footstep to absorb axial load	Axial compression spring below footstep to absorb axial load	
Max. mechanical speed	25000 rpm	25000 rpm	22000 rpm	25000 rpm	25000 rpm
Tube length	180 -260 mm	180 - 260 mm	180 - 210 mm	180 - 200 mm	
Yarn count	Ne 14s-100s	Fine to Coarse yarn application (Ne 20s to 80s)	Ne 20s & finer	Ne 30s & finer	
Benefit to the customer			Power saving with 18 mm wharve dia. only	Power saving with 18 mm wharve dia. only	
Noise level				at 18000 rpm 72.3 dB	
				at 21000 rpm 75.7 dB	
				at 24000 rpm 75.5 dB	

Spindle bearing unit for silent spindles

Make	Novibra	TEXParts	TeraSpin	LMW
Model	NASA HPS 68	CS 1S	HF S 682	HLLD
Elastic bearing	Double elastic bearing	Double elastic bearing	Double elastic bearing	Double elastic bearing
Footstep	Cylindrical footstep with spherical tip	Cylindrical footstep with spherical tip	Spheropoint footstep	Cylindrical footstep with spherical tip
Guide bush	Cylindrical guide bush	Cylindrical guide bush	Cylindrical guide bush	Cylindrical guide bush
Spiral tube	Spiral centering tube to support foot step	Centering & spring element to support foot step	Spiral centering tube to support foot step	Spiral centering tube to support foot step
Oil temperature	Don't know	Don't know		Don't know
Technology	Comparatively new technology	Comparatively new technology	Equivalent to NASA HP S 68, CS 1S & HLLD	Comparatively new technology
Neck bearing dia. (inner)	6.8 mm	6.8 mm	6.8 mm	6.8 mm
Min. wharve dia.	18.5 mm	18.5 mm	18 mm	18.5 mm
Blade length	100 mm	100 mm	80 mm	100 mm
Absorption of axial load	Not available	Not available		Not available
Max. mechanical speed	30000 rpm	30000 rpm	30000 rpm	30000 rpm
Tube length	180 - 260 mm	180 - 260 mm		Don't know
Yarn count	Ne 14s & finer	Fine & medium yan application (Ne 30s to 80s)		At presnt offering for all yarn counts
Benefit to the customer	Low noise			
Noise level	at 18000 rpm 69.6 dB			at 18000 rpm 71 dB
	at 21000 rpm 67.5 dB			at 21000 rpm 71.7 dB
	at 24000 rpm 70.9 dB			at 24000 rpm 78.6 dB

Spindle bearing unit for energy saving spindles

Make	Novibra	TEXParts	TeraSpin	LMW
Model	LENA	Eshape spindle	HF S 562	HLED
Elastic bearing	Double elastic bearing		Double elastic bearing	
Footstep	Cylindrical footstep with spherical tip		Spheropoint footstep	
Guide bush	Cylindrical guide bush		Cylindrical guide bush	
Spiral tube	Spiral centering tube to support foot step		Spiral centering tube to support foot step	
Oil temperature	Don't know			
Technology	Latest technology		Equivalent to LENA, Eshape spindle & HLED	
Neck bearing dia. (inner)	5.8 mm		5.6 mm	
Min. wharve dia.	17.5 mm		17 mm	
Blade length	80 mm		80 mm	
Absorption of axial load	Not available			
Max. mechanical speed	30000 rpm		30000 rpm	
Tube length	180 - 210 mm			
Yarn count	Ne 30s & finer			
Benefit to the customer	Less power consumption			
Noise level				

Spindle bearing unit for heavy spindles

Make	Novibra			TEXParts	TeraSpin	
Model	L HPS 68	HPS 68/3	NASA HPS 68/3	CS 21 12	HF-21	HF-21C
Elastic bearing	Single elastic bearing	Single elastic bearing	Double elastic bearing	Single elastic bearing	Single elastic bearing	Single elastic bearing
Footstep	Cylindrical footstep with spherical tip	Cylindrical footstep (3 mm) with spherical tip	Cylindrical footstep (3 mm) with spherical tip	Cylindrical footstep with spherical tip	Conical footstep	Conical footstep
Guide bush	Cylindrical guide bush	Cylindrical guide bush	Cylindrical guide bush	Cylindrical guide bush	No cylindrical guide bush	No cylindrical guide bush
Spiral tube	Spiral centering tube to support foot step	Spiral centering tube to support foot step	Spiral centering tube to support foot step	Centering & spring element to support foot step	Spiral centering tube to support foot step	Spiral centering tube to support foot step
Oil temperature	Don't know	Don't know	Don't know	Don't know	Don't know	Don't know
Technology	Comparatively new technology	Comparatively new technology	Comparatively new technology	Comparatively new technology	Comparatively old technology	Comparatively old technology
Neck bearing dia. (inner)	6.8 mm	6.8 mm	6.8 mm	7.8 mm	7.8 mm	7.8 mm
Min. wharve dia.	18.5 mm	18.5 mm	18.5 mm	20.2 mm	20.2 mm	22.2 mm
Blade length	Don't know	100 mm	100 mm	120 mm	120 mm	120 mm
Absorption of axial load	Not available	Not available	Not available	Not available	Axial compression spring below footstep to absorb axial load	Axial compression spring below footstep to absorb axial load
Max. mechanical speed	20000 rpm	25000 rpm	30000 rpm	22000 rpm	20000 rpm	18000 rpm
Tube length	220 - 280 mm	180 - 260 mm	180 - 260 mm	Up to 280 mm	Up to 270 mm	Up to 300 mm
Yarn count	Ne 4.5s - 30s	Ne 40s -100s	Ne 14s & finer	Coarse count application (Ne 20s & coarser)	Ne 20s & coarser	Ne 20s & coarser
Benefit to the customer		Less power consumption	Low noise & less power consumption			
Noise level						



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