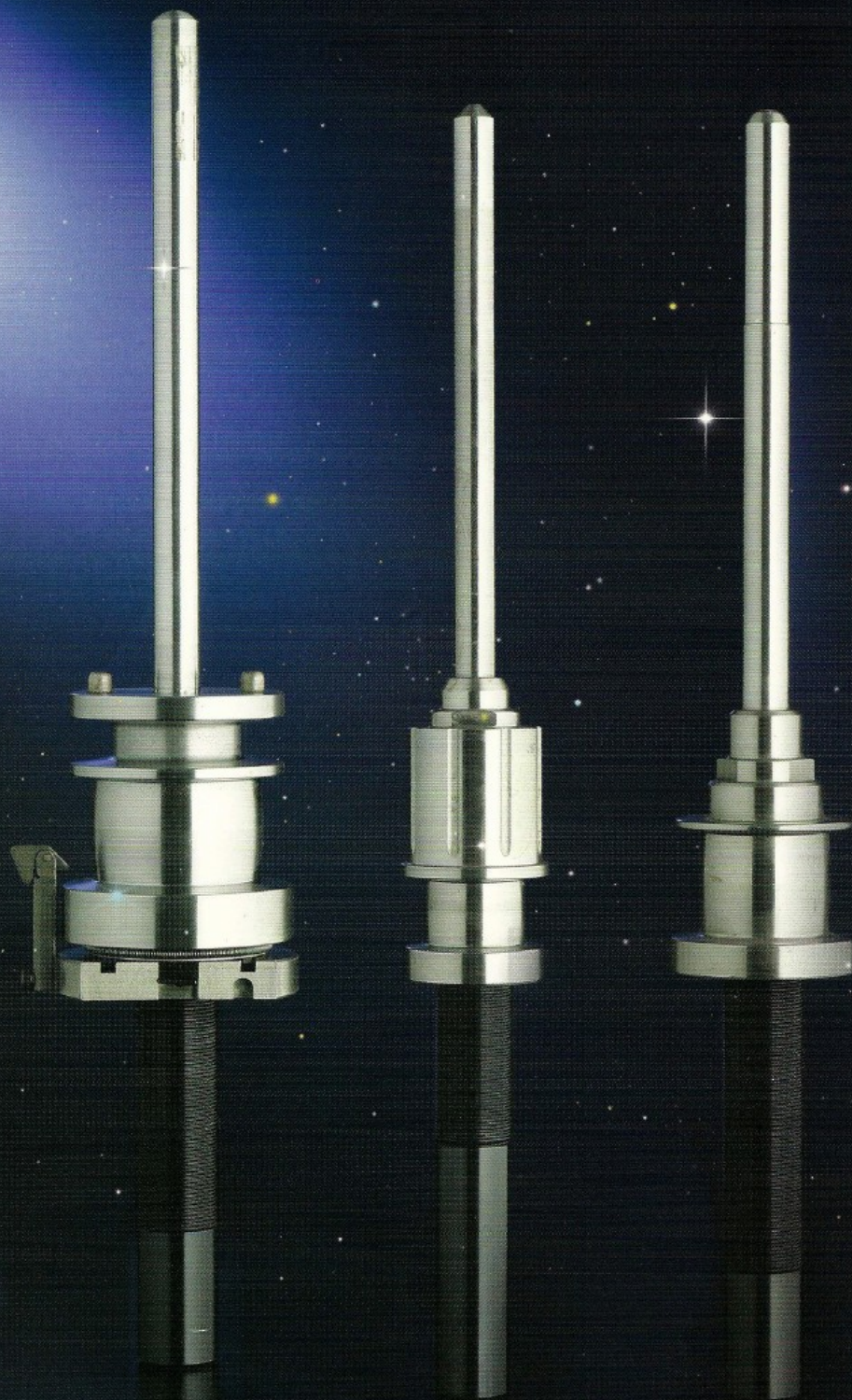


TOOPRATS

Top Technology, Top Quality, Top Service  
We are supply not only Spindles, but also our name and spirit



### Spindle Bearing Units HD Insert With Bolster

#### Application :

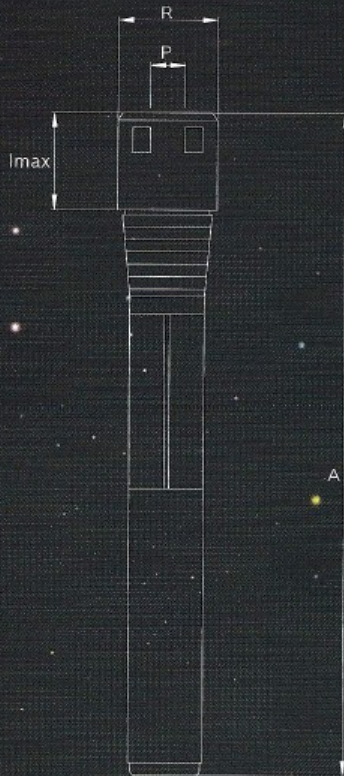
Spindle Bolster HD for twisting and spindles to operate with or without ring and traveller with high speeds and all kinds of load from light to very heavy.

### Spindle Bearing Units HK Insert Without Bolster

#### Application :

Spindle Bolster HK for twisting and pinless working with or without ring and travella with light to medium loads and high speeds.





### Bolster Without Insert Chart

→ HK1 / HK21 / HK3 / HK35 / HK44 / HK45

· Execution for application in double – twist – spindles

Types Ref. no	Dimensions In mm					Foot-Shape	Weight Kg
	A	R	P	Q	IMAX		
HK 01	141.5	16.0	6.8	4.50	26.5	A	0,107
HK 21	141.5	17.5	7.8	4.50	20.5	A	0,112
HK 03	158.0	21.7	8.8	5.50	15.5	A	0,147
HK 35	158.0	21.7	8.8	5.50	15.5	A	0,147
HK 44 1	158.0	21.7	8.8	8.45	15.5	B	0,140
HK 44 2	173.5	23.8	10.0	6.45	16.5	B	0,214
HK 45	173.5	23.8	10.0	6.45	16.5	B	0,190



CONICAL FOOTSTEP SHAPE WITH BLADE TIP



CYLINDRICAL FOOTSTEP SHAPE WITH TAPERED BLADE

### Bolster With Insert Chart

→ HD1 / HD21 / HD30 / HD33 / HD440 / HD55 / HD66 / HD77

· Execution for bigger footstep bearing diameter, for application in double – twist – spindles,

· Execution with special damping spring for spinning and twisting with suppressed yarn balloon



Types Ref. no	Dimensions In mm							Foot-Shape	Weight Kg
	A	P	Q	H	H1	H2	M		
HD 01	147.5	6.8	4.50	57.5	34.0	34.0	M22 x 1.5	A	0,219
HD 21	148.0	7.8	4.50	57.5	28.0	28.0	M22 x 1.5	A	0,228
HD 30	162.5	8.8	5.50	61.5	25.5	25.5	M25 x 1.5	A	0,342
HD 33	146.0	8.8	5.45	66.0	54.0	54.0	M25 x 1.5	B	0,313
HD 44	178.5	10.0	6.45	100.0	31.0	31.0	M27 x 1.5	B	0,468
HD 55	188.0	12.0	7.95	115.0	36.0	36.0	M32 x 1.5	B	0,734
HD 66	229.0	14.0	8.95	144.5	28.5	28.5	M35 x 1.5	B	0,927
HD 68	229.0	14.0	10.95	144.5	28.5	28.5	M35 x 1.5	B	0,930
HD 77	273.0	16.0	10.95	123.0	40.5	40.5	M40 x 1.5	B	1,750
HD 88	350.0	20.0	14.95	80	190	80	M45 x 1.5	B	2,630

Spindle for  
Twisting, Winder, Ring Spinning,  
DTY Rope and ETC.

- \* Best and long performance
- \* Low noise and vibration
- \* Low maintenance costs

