Evolution
MOTION SOLUTIONS

REXROTH PROFILED BALL RAIL – RUNNERBLOCK INTERCHANGE

SIZE 35 FNS – 1651-314-20 (2% Pre-Load)   Rail PN: 1605-304-31-XXXX(T1=XX) 4m Max
SIZE 35 FNS – 1651-394-20 (0% Pre-Load)   Rail PN: 1605-304-31-XXXX(T1=XX) 4m Max
STANDARD FLANGED RUNNER BLOCKS REPLACING THK
DOCUMENT: 05-EVOLUTION-REXROTH-THK-IX-FNS35 (Flanged, Normal, Standard Height)

Rexroth	**THK SHS**	**THK HSR**

	Rexroth 1651-314-20	THK SHS35C	THK HSR35A	THK HSR35B	THK HSR35C	THK HSR35CB
Overall Width [mm]	100	100	100	100	100	100
Rail Width [mm]	34	34	34	34	34	34
Runner Block Length [mm]	110.5	122	109.5	109.5	109.5	109.5
Overall Height [mm]	48	48	48	48	48	48
Rail Height [mm]	32.15	26	29	29	29	29
Mounting Hole Spacing (widthwise) [mm]	82	82	82	82	82	82
Mounting Hole spacing (lengthwise) [mm]	62	62	62	62	62	62
Number of Mounting Holes	6	4	4	4	4	4
Rail Hole Spacing [mm]	80	80	80	80	80	80
Rail Material	Steel	Steel	Steel	Steel	Steel	Steel
Runner Block Material	Steel	Steel	Steel	Steel	Steel	Steel
Dynamic Load Capacity (100 km) [N]	51800	49448	29605	29605	29605	29605
Static Load Capacity [N]	80900	96600	61100	61100	61100	61100
Dynamic Axial Momnt Capacity (100 km) [Nm]	1110	783	439	439	439	439
Static Axial Moment Capacity [Nm]	1740	1530	905	905	905	905
Pitch / Yaw (static) [Nm]	1130	1380	782	782	782	782
Pitch / Yaw (dynamic) [Nm]	720	-	-	-	-	-

Note: Some products have catalog ratings for a life of 50 km. These have been converted to equivalent figures for 100 km life using industry established conversion factors. In some cases, capacity information from other manufacturers was not available. Best estimates have been included.

There may be other dimensional or performance factors that need to be considered in your application. The above recommendation should only be used as a guide. Data for products by manufacturers other than Evolution Motion Solutions has been extracted from catalogs and websites available to us. No guarantee of accuracy is made. It is the user's responsibility to ensure the suitability of Rexroth products for their application.