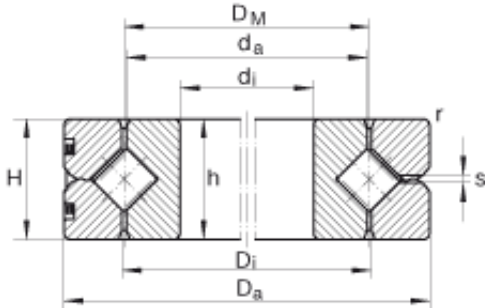




# TFI Bearing Co.,Ltd

## SX011814 Robotic high rigidity Crossed Roller Bearing Manufacture China



SX011814 Bearing 2D drawings and 3D CAD models

Bearing No. SX011814

|  |  |
|--|--|
| Size   | 70x90x10 mm                              |
| Bore Diameter                                | 70 mm                                    |
| Outer Diameter                               | 90 mm                                    |
| Width  | 10 mm                                    |
| $d_i$ - 70 mm / Tolerance: K6+0,004 / -0,015 | 70 mm / Tolerance: K6+0,004 / 0,015      |
| $D_a$ - 90 mm / Tolerance: h6 -0,022         | 90 mm / Tolerance: h6 0,022              |
| H - 10 mm / Tolerance: +/-0,10               | 10 mm / Tolerance: +/-0,10               |
| $D_i$  | 80,5 mm                                  |
| $D_M$  | 80 mm                                    |
| $d_a$  | 79,5 mm                                  |
| h - 10 mm / Tolerance: E8 -0,01              | 10 mm / Tolerance: E8 0,01               |
| $r_{min}$                                    | 0,6 mm                                   |
| S  | 1,2 mm                                   |
| m  | 0,3 kg / Weight                          |
|  | 0,010 mm / Running accuracy, radial      |
|  | 0,010 mm / Running accuracy, axial       |
| $S_{r min}$                                  | 0,003 mm / Min. radial bearing clearance |
| $S_{r max}$                                  | 0,015 mm / Max. radial bearing clearance |
| $S_{k min}$                                  | 0,006 mm / Min. axial tilting clearance  |



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|                      |   |
|----------------------|---|
| $S_{k \max}$         | 0,03 mm / Max. axial tilting clearance                                  |
| $RLO_{\max}$         | 0,003 mm / Low clearance:<br>Radial clearance                           |
| $RLO_{\max}$         | 0,006 mm / Low clearance:<br>Preload                                    |
| $VSP_{\min}$         | 0,003 mm / Min. bearing preload   |
| $VSP_{\max}$         | 0,015 mm / Max. bearing preload   |
| $C_a$                | 15400 N / Dynamic load rating (axial)                                   |
| $C_{0a}$             | 51000 N / Static load rating (axial)                                    |
| $C_r$                | 11000 N / Dynamic load rating (radial)(for radial load only)            |
| $C_{0r}$             | 20400 N / Static load rating (radial)(for radial load only)             |
| $n_{G \text{ Oil}}$  | 1910 1/min / Limiting speed for oil lubrication with normal clearance   |
| $n_{G \text{ Fett}}$ | 955 1/min / Limiting speed for grease lubrication with normal clearance |
| $n_{G \text{ Oil}}$  | 955 1/min / Limiting speed for oil lubrication with preload             |
| Category             | Ball Bearings   |
| Inventory            | 0.0   |
| Manufacturer Name    | SCHAEFFLER GROUP  |
| Minimum Buy Quantity | N/A   |
| Weight / Kilogram    | 0.275   |
| EAN                  | 4047643190541   |
| Product Group        | B00234  |