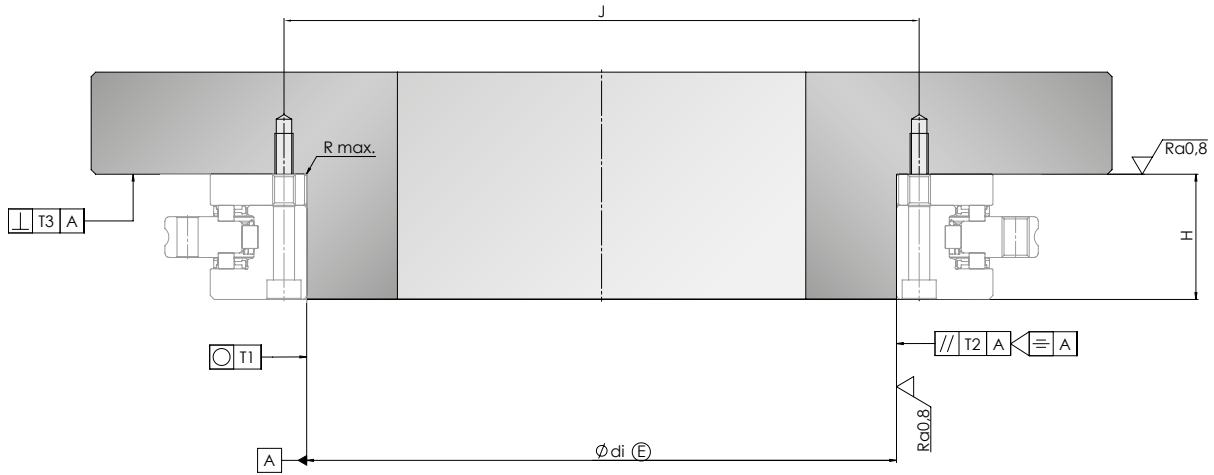


## Shaft recommendation



<sup>1)</sup> The envelope condition  $\textcircled{E}$  applies here.

<sup>2)</sup> Note the countersinking of the threads.

<sup>3)</sup> Support minimum over whole bearing height.

<sup>4)</sup> **Running accuracy requirements:**

- For maximum running accuracy and a rotating inner ring, a fit clearance of  $0\mu\text{m}$  should be aimed for.
- For normal running accuracy or stationary inner ring, design the shaft according to the tolerance table.

**Requirements for the dynamic properties:**

- For swiveling operation, design the shaft according to tolerance class h5.
- At higher speeds and longer duty cycles, an interference fit of  $5\mu\text{m}$  is not possible exceed.
- A clearance of  $0\mu\text{m}$  should be aimed for for the highest speeds and longer duty cycles. Tendency easily into play. Requirement for this is the pairing of bearing and shaft. Actual bearing dimension can be found in the bearing report.

Bearing	Diameter <sup>1)</sup>		Pitch circle <sup>2)</sup>	Height <sup>3)</sup>	Roundness	Parallelism	Perpendicularity	Max. corner radius
	$\varnothing di$ [mm]	Tolerance <sup>4)</sup> [mm]	J [mm]	H [mm]	T1 [ $\mu\text{m}$ ]	T2 [ $\mu\text{m}$ ]	T3 [ $\mu\text{m}$ ]	Rmax. [mm]
AXRY 120-NGS(-SBI)	120	-0,005 -0,015	135	40	3	1,5	3	0,1
AXRY 180-NGS(-SBI)	180	-0,008 -0,020	194	43	4	2	4	0,1
AXRY 200-NGS(-SBI)	200	-0,010 -0,024	215	45	6	2,5	5	0,1
AXRY 260-NGS(-SBI)	260	-0,013 -0,029	280	55	8	2,5	7	0,3
AXRY 325-NGS(-SBI)	325	-0,018 -0,036	342	60	8	2,5	7	0,3
AXRY 395-NGS(-SBI)	395	-0,018 -0,036	415	65	8	2,5	7	0,3
AXRY 460-NGS(-SBI)	460	-0,018 -0,038	482	70	8	2,5	7	0,3
AXRY 580-NGS(-SBI)	580	-0,020 -0,042	610	90	10	4	8	1
AXRY 650-NGS(-SBI)	650	-0,033 -0,057	680	122	10	4	8	1