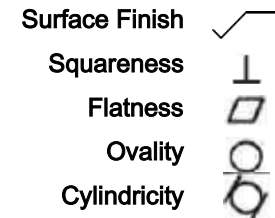
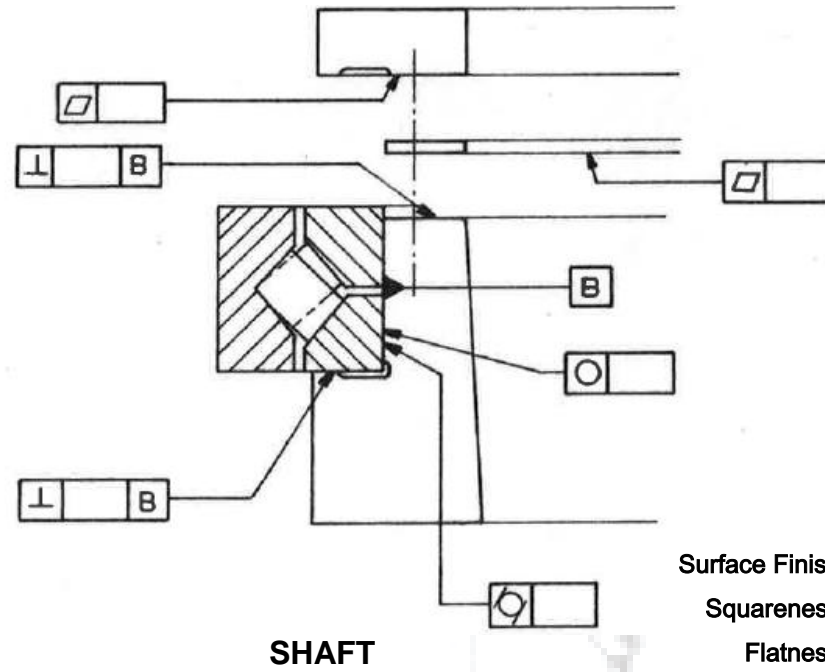
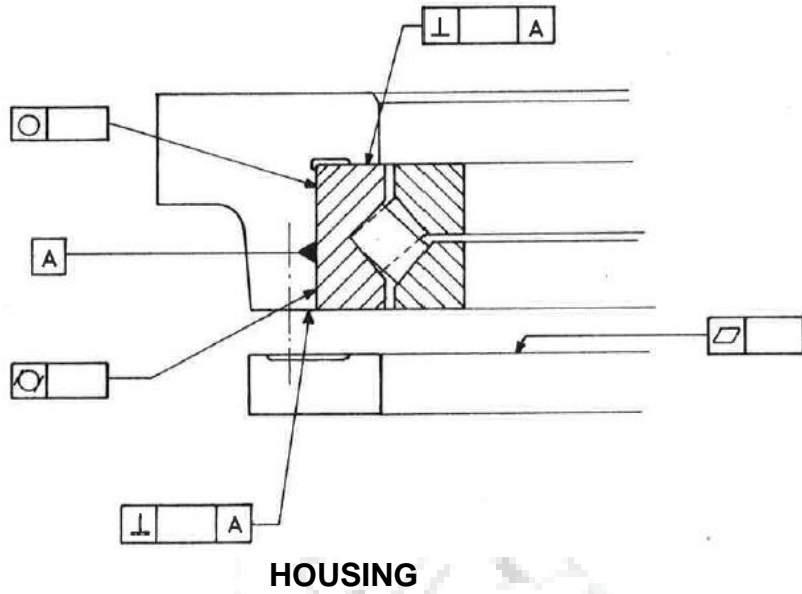


TIMKEN CROSSED TAPERED ROLLER BEARING
Shaft and Housing Tolerances



Surface Finish of the Seats and Adjacent Parts

Configuration	CLASS 3 CLASS S		CLASS 0 CLASS P	
	Inner Race	Outer Race	Inner Race	Outer Race
	μm	μm	μm	μm
	μ.in	μ.in	μ.in	μ.in
ALL SIZES	1.3	1.3	1.3	1.3
	50	50	50	50

Squareness and Flatness of Adjacent Parts

Configuration	CLASS 3 CLASS S		CLASS 0 CLASS P	
	Inner Race	Outer Race	Inner Race	Outer Race
	mm	mm	mm	mm
	in.	in.	in.	in.
ALL SIZES	0.015	0.015	0.005	0.005
	0.0006	0.0006	0.0006	0.0006

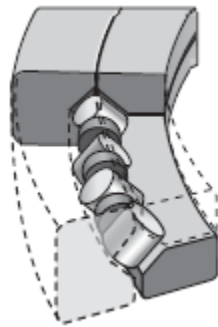


Figure 1: TXRDO

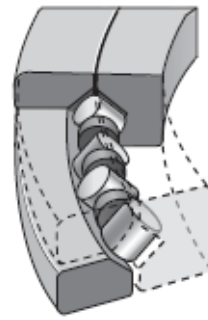


Figure 2: TXRDI

Maximum Allowable Ovality of the Seats

Configuration	CLASS 3 CLASS S		CLASS 0 CLASS P		Figure
	Inner Race	Outer Race	Inner Race	Outer Race	
	mm in.	mm in.	mm in.	mm in.	
XR496051	0.005 0.0002	0.005 0.0002	0.003 0.0001	0.003 0.0001	1
JXR637050	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
XR678052	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
JXR699000	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
XR766051	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
XR820060	0.010 0.0004	0.020 0.0008			1
XR820061	0.010 0.0004	0.020 0.0008			2
XR855053	0.020 0.0008	0.020 0.0008			1
XR855055	0.020 0.0008	0.020 0.0008			2
XR882054	0.020 0.0008	0.025 0.0010			2
XR882055	0.020 0.0008	0.025 0.0010			1
XR889058	0.025 0.0010	0.025 0.0010			1
XR889059	0.025 0.0010	0.025 0.0010			2
XR895051	0.025 0.0010	0.030 0.0012			2
XR897051	0.025 0.0010	0.030 0.0012			1
XR903054	0.030 0.0012	0.035 0.0014			1
XR912050	0.035 0.0014	0.035 0.0014			1

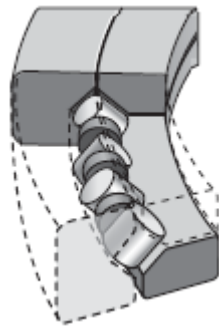


Figure 1: TXRDO

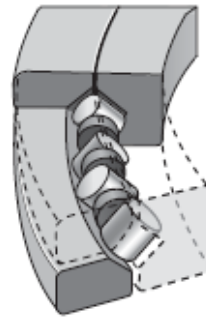


Figure 2: TXRDI

Cylindricity of the Seats

Configuration	CLASS 3 CLASS S		CLASS 0 CLASS P		Figure
	Inner Race	Outer Race	Inner Race	Outer Race	
	mm in.	mm in.	mm in.	mm in.	
XR496051	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
JXR637050	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
XR678052	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
JXR699000	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
XR766051	0.010 0.0004	0.010 0.0004	0.005 0.0002	0.005 0.0002	1
XR820060	0.015 0.0006	0.015 0.0006			1
XR820061	0.015 0.0006	0.015 0.0006			2
XR855053	0.015 0.0006	0.015 0.0006			1
XR855055	0.015 0.0006	0.015 0.0006			2
XR882054	0.015 0.0006	0.025 0.0010			2
XR882055	0.015 0.0006	0.025 0.0010			1
XR889058	0.025 0.0010	0.025 0.0010			1
XR889059	0.025 0.0010	0.025 0.0010			2
XR895051	0.025 0.0010	0.025 0.0010			2
XR897051	0.025 0.0010	0.025 0.0010			1
XR903054	0.025 0.0010	0.025 0.0010			1
XR912050	0.025 0.0010	0.025 0.0010			1