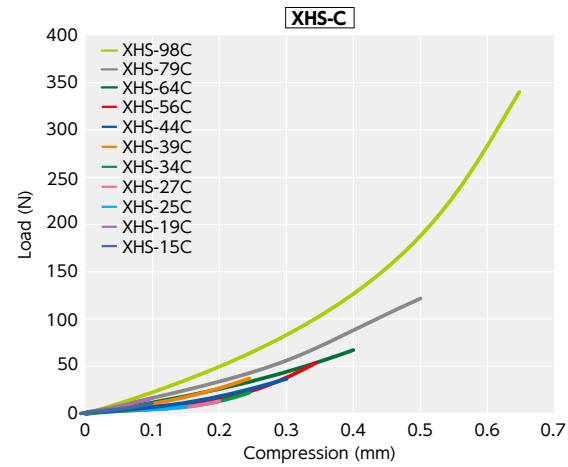


XHS-C Flexible Couplings - Single - Disk Type

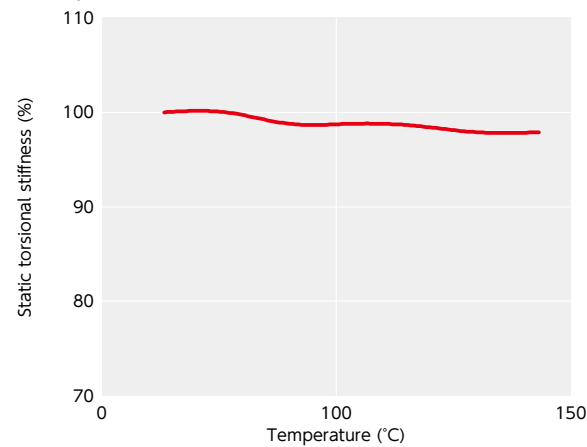
Zero Backlash High torque High Rigidity

Technical Information

Thrust Reaction Force



Change in static torsional stiffness due to temperature



This is a value under the condition where the static torsional stiffness at 20°C is 100%. The change of XHS-C in torsional stiffness due to temperature is small and the change in responsiveness is extremely small. If the unit is used under higher temperature, be careful about misalignment due to elongation or deflection of the shaft associated with thermal expansion.

Slip Torque

As in the table below, the clamping type XHS-C has different slip torque according to the bore diameter. Take care during selection.

Outside Diameter	Bore Diameter (mm)																				Unit : N·m			
	3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	25	28	30	32	35	38	40		42	45	
15	0.7																							
19	0.7	1.7	3																					
25		2.5	3.6	4.7	5																			
27		2	2.9	4	4.2	5.8																		
34			3.5	4.9	5.5	7.9	10	11	12															
39				6	8	13	18	19	23															
44						8	13	15	20	26														
56							22	34	37	45	55	66												
64									23	42	60	88												
79											140	150	180											
98														120	140	150	170	190	210	220	240	260		

- These are test values based on the conditions of shaft dimensional allowance: h7, hardness: 34 - 40 HRC, and screw tightening torque of the values described in XHS-C dimension tables. They are not guaranteed values.
- Slip torque changes with usage conditions. Carry out tests under conditions similar to actual conditions in advance.

Comparison of static torsional stiffness (single disk-type)

XHS-C has high static torsional stiffness and responsiveness.

Optimal for high-speed and precision positioning for servomotors, etc.

