

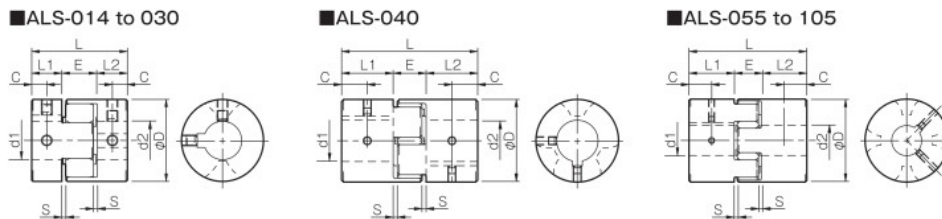
ALS(Y) Types Key/Set Screw Type

Specifications

Model	Torque		Misalignment			Max. rotation speed [min ⁻¹]	Static torsional stiffness [N-m/rad]	Radial stiffness [N/mm]	Moment of inertia [kg-m ²]	Mass [kg]
	Nominal [N-m]	Max. [N-m]	Parallel [mm]	Angular [°]	Axial [mm]					
ALS-014-Y	1.2	2.4	0.10	1	0 ~ +0.6	34100	12	200	1.91 × 10 ⁻⁷	0.007
ALS-020-Y	3	6	0.15	1	0 ~ +0.8	23800	24	210	1.08 × 10 ⁻⁶	0.018
ALS-030-Y	7.5	15	0.15	1	0 ~ +1.0	15900	73	330	6.25 × 10 ⁻⁶	0.047
ALS-040-Y	10	20	0.10	1	0 ~ +1.2	11900	760	940	3.87 × 10 ⁻⁵	0.15
ALS-055-Y	35	70	0.15	1	0 ~ +1.4	8700	1400	1160	1.66 × 10 ⁻⁴	0.35
ALS-065-Y	95	190	0.15	1	0 ~ +1.5	7400	2100	1200	3.57 × 10 ⁻⁴	0.51
ALS-080-Y	190	380	0.15	1	0 ~ +1.8	6000	4000	1430	1.06 × 10 ⁻³	1.01
ALS-095-Y	265	530	0.15	1	-0.5 ~ +2.0	5000	6000	2400	2.24 × 10 ⁻³	1.50
ALS-105-Y	310	620	0.20	1	-0.9 ~ +2.0	4500	7000	4000	3.72 × 10 ⁻³	2.05

* Axial displacement of the ALS-014-Y to ALS-080-Y is not allowed in the negative direction.
 * Max. rotation speed does not take into account dynamic balance.
 * Stiffness values given are from measurements taken at 20°C
 * The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions



Model	d1 · d2			D	L	L1 · L2	E	S	C
	Pilot bore	Min.	Max.						
ALS-014-Y	3	3	6.5	14	22	7	8	1	3.5
ALS-020-Y	4	4	9.6	20	30	10	10	1	5
ALS-030-Y	5	6	14	30	35	11	13	1.5	5.5
ALS-040-Y	5	8	22	40	66	25	16	2	12.5
ALS-055-Y	5	10	28	55	78	30	18	2	15
ALS-065-Y	5	14	38	65	90	35	20	2.5	17.5
ALS-080-Y	10	19	45	80	114	45	24	3	22.5
ALS-095-Y	8	19	55	95	126	50	26	3	25
ALS-105-Y	10	19	60	105	140	56	28	3.5	28

* "Pilot bore" refers to center processing.

Standard Bore Diameter

Model	Standard bore diameter d1, d2 [mm]																																				
	3	4	5	6	6.35	7	8	9	9.525	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	56	60		
ALS-014-Y	●	●	●	●	●																																
ALS-020-Y		●	●	●	●	●	●	●	●	●																											
ALS-030-Y				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
ALS-040-Y							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ALS-055-Y										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ALS-065-Y													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ALS-080-Y																																					
ALS-095-Y																																					
ALS-105-Y																																					

* The bore diameters marked with ● are supported as standard bore diameter.
 * ø11 and below have no keyway; ø12 and above can be processed for old JIS standards, new JIS standards, and new standard motors.

How to Place an Order

