

STARFLEX ALS R - Datasheet

KEY/SET SCREW TYPE

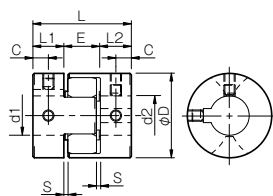
Specifications

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-R	2	4	0.10	1	0 ~ +0.6	34100	21	380	1.91 × 10 ⁻⁷	0.007
ALS-020-R	5	10	0.10	1	0 ~ +0.8	23800	43	400	1.08 × 10 ⁻⁶	0.018
ALS-030-R	12.5	25	0.10	1	0 ~ +1.0	15900	136	650	6.25 × 10 ⁻⁶	0.047
ALS-040-R	17	34	0.10	1	0 ~ +1.2	11900	1550	1700	3.87 × 10 ⁻⁵	0.15
ALS-055-R	60	120	0.10	1	0 ~ +1.4	8700	2000	1350	1.66 × 10 ⁻⁴	0.35
ALS-065-R	160	320	0.10	1	0 ~ +1.5	7400	3100	1400	3.57 × 10 ⁻⁴	0.51
ALS-080-R	325	650	0.10	1	0 ~ +1.8	6000	6000	1710	1.06 × 10 ⁻³	1.01
ALS-095-R	450	900	0.10	1	-0.5 ~ +2.0	5000	10000	4200	2.24 × 10 ⁻³	1.50
ALS-105-R	525	1050	0.15	1	-0.9 ~ +2.0	4500	12000	5000	3.72 × 10 ⁻³	2.05

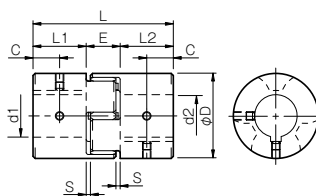
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

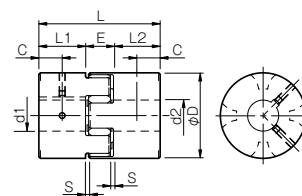
■ ALS-014 to 030



■ ALS-040



■ ALS-055 to 105



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

Standard Bore Diameter

Modell	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-R	●	●	●	●																																	
ALS-020-R		●	●	●	●	●	●	●	●	●																											
ALS-030-R				●	●	●	●	●	●	●	●	●	●																								
ALS-040-R							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
ALS-055-R										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
ALS-065-R													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
ALS-080-R																																					
ALS-095-R																																					
ALS-105-R																																					

- 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

ALS-055-R-24N-28H

Size

Bore diameter: d1 (Small diameter) - d2 (Large diameter)
 Blank: Pilot bore
 Bore specifications
 Blank: Compliant with the old JIS standards (class 2) E9
 H: Compliant with the new JIS standards H9
 J: Compliant with the new JIS standards JS9
 N: Compliant with the new motor standards

Element type
 R: Hardness. 97; JIS A: Tight-fit type
 Y: Hardness. 90; JIS A: Tight-fit type
 B: Hardness. 97; JIS A: Loose-fit type

Material: Aluminum

STARFLEX ALS Y - Datasheet

KEY/SET SCREW TYPE

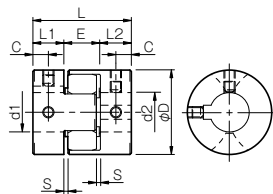
Specifications

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

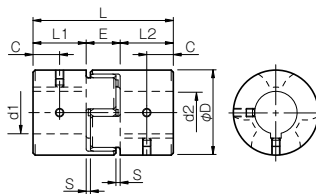
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

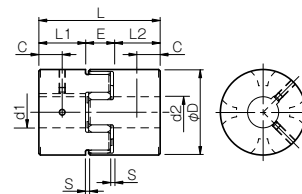
■ ALS-014 to 030



■ ALS-040



■ ALS-055 to 105



Unit [mm]

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

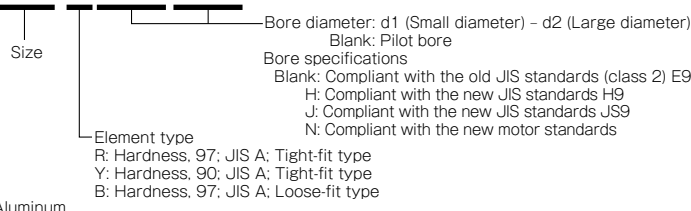
Standard Bore Diameter

Modell	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

ALS-055-R-24N-28H



STARFLEX ALS B - Datasheet

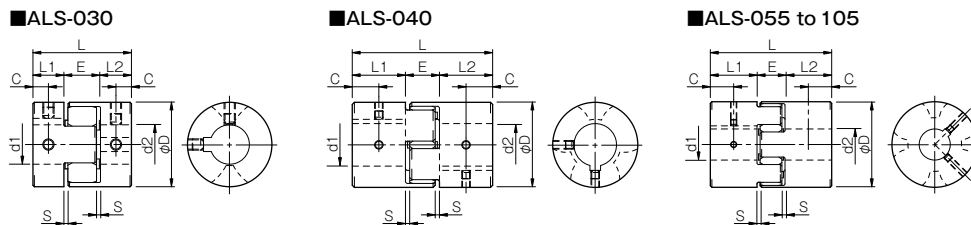
KEY/SET SCREW TYPE

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-030-B	12.5	25	0.17	1	-0.2 ~ +1.0	15900	90	460	6.13 × 10 ⁻⁶	0.045
ALS-040-B	17	34	0.20	1	-0.5 ~ +1.2	11900	400	640	3.86 × 10 ⁻⁵	0.15
ALS-055-B	60	120	0.22	1	-0.2 ~ +1.4	8700	1150	400	1.66 × 10 ⁻⁴	0.35
ALS-065-B	160	320	0.25	1	-0.6 ~ +1.5	7400	2000	800	3.57 × 10 ⁻⁴	0.51
ALS-080-B	325	650	0.28	1	-0.9 ~ +1.8	6000	4550	600	1.06 × 10 ⁻³	1.01
ALS-095-B	450	900	0.32	1	-0.5 ~ +2.0	5000	12000	800	2.22 × 10 ⁻³	1.48
ALS-105-B	525	1050	0.36	1	-0.9 ~ +2.0	4500	15000	2000	3.70 × 10 ⁻³	2.02

- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Model	d1 • d2		D	L	L1 • L2	E	S	C	Unit [mm]
	Min.	Max.							
ALS-030-B	6	14	30	35	11	13	1.5	5.5	
ALS-040-B	8	22	40	66	25	16	2	12.5	
ALS-055-B	10	28	55	78	30	18	2	15	
ALS-065-B	14	38	65	90	35	20	2.5	17.5	
ALS-080-B	19	45	80	114	45	24	3	22.5	
ALS-095-B	19	55	95	126	50	26	3	25	
ALS-105-B	19	60	105	140	56	28	3.5	28	

Standard Bore Diameter

Modell	Standard bore diameter d1, d2 [mm]																																
	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-030-B	●	●	●	●	●	●	●	●	●	●																							
ALS-040-B				●	●	●	●	●	●	●	●	●	●	●	●	●	●																
ALS-055-B							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
ALS-065-B											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ALS-080-B															●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
ALS-095-B															●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ALS-105-B															●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- 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

ALS-055-R-24N-28H

Size: ALS-055-R-24N-28H

Element type: R: Hardness. 97; JIS A: Tight-fit type; Y: Hardness. 90; JIS A: Tight-fit type; B: Hardness. 97; JIS A: Loose-fit type

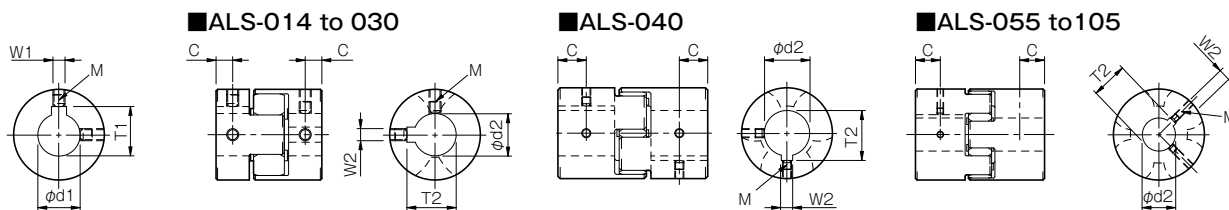
Bore diameter: d1 (Small diameter) - d2 (Large diameter)
Blank: Pilot bore

Bore specifications
Blank: Compliant with the old JIS standards (class 2) E9
H: Compliant with the new JIS standards H9
J: Compliant with the new JIS standards JS9
N: Compliant with the new motor standards

Material: Aluminum

Standard Hole-Drillings

- The set screws are included with the product.
- We also process non-standard bore diameters to the standards of the table below.
- Contact Miki Pulley if you require standards other than those shown below.



Unit [mm]

Models compliant with the old JIS standards (class 2)					Models compliant with the new JIS standards (H9)					Models compliant with the new JIS standards (JS9)					Models compliant with the new JIS standards (P9)					
Nominal bore diameter	Bore diameter [d1 · d2]	Keyway width [W1 · W2]	Keyway height [T1 · T2]	Set screw hole [M]	Nominal bore diameter	Bore diameter [d1 · d2]	Keyway width [W1 · W2]	Keyway height [T1 · T2]	Set screw hole [M]	Nominal bore diameter	Bore diameter [d1 · d2]	Keyway width [W1 · W2]	Keyway height [T1 · T2]	Set screw hole [M]	Nominal bore diameter	Bore diameter [d1 · d2]	Keyway width [W1 · W2]	Keyway height [T1 · T2]	Set screw hole [M]	
Tolerance	H7, H8	E9	+0.3 0	—	Tolerance	H7, H8	H9	+0.3 0	—	Tolerance	H7	JS9	+0.3 0	—	Tolerance	G7, F7	H9	+0.3 0	—	
3	3 ^{+0.018} ₀	—	—	1-M3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	4 ^{+0.018} ₀	—	—	2-M3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	5 ^{+0.018} ₀	—	—	2-M3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	6 ^{+0.018} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.35	6.35 ^{+0.022} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	7 ^{+0.022} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	8 ^{+0.022} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	9 ^{+0.022} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9.525	9.525 ^{+0.022} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	10 ^{+0.022} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	11 ^{+0.018} ₀	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	12 ^{+0.018} ₀	4 ^{+0.050} _{+0.020}	13.5	2-M4	12H	12 ^{+0.018} ₀	4 ^{+0.030} ₀	13.8	2-M4	12J	12 ^{+0.018} ₀	4 ± 0.0150	13.8	2-M4	—	—	—	—	—	—
14	14 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	16.0	2-M4	14H	14 ^{+0.018} ₀	5 ^{+0.030} ₀	16.3	2-M4	14J	14 ^{+0.018} ₀	5 ± 0.0150	16.3	2-M4	14N	14 ^{+0.024} _{+0.006}	5 ^{+0.030} ₀	16.3	2-M4	—
15	15 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	17.0	2-M4	15H	15 ^{+0.018} ₀	5 ^{+0.030} ₀	17.3	2-M4	15J	15 ^{+0.018} ₀	5 ± 0.0150	17.3	2-M4	—	—	—	—	—	—
16	16 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	18.0	2-M4	16H	16 ^{+0.018} ₀	5 ^{+0.030} ₀	18.3	2-M4	16J	16 ^{+0.018} ₀	5 ± 0.0150	18.3	2-M4	—	—	—	—	—	—
17	17 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	19.0	2-M4	17H	17 ^{+0.018} ₀	5 ^{+0.030} ₀	19.3	2-M4	17J	17 ^{+0.018} ₀	5 ± 0.0150	19.3	2-M4	—	—	—	—	—	—
18	18 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	20.0	2-M4	18H	18 ^{+0.018} ₀	6 ^{+0.030} ₀	20.8	2-M5	18J	18 ^{+0.018} ₀	6 ± 0.0150	20.8	2-M5	—	—	—	—	—	—
19	19 ^{+0.021} ₀	5 ^{+0.050} _{+0.020}	21.0	2-M4	19H	19 ^{+0.021} ₀	6 ^{+0.030} ₀	21.8	2-M5	19J	19 ^{+0.021} ₀	6 ± 0.0150	21.8	2-M5	19N	19 ^{+0.028} _{+0.007}	6 ^{+0.030} ₀	21.8	2-M5	—
20	20 ^{+0.021} ₀	5 ^{+0.050} _{+0.020}	22.0	2-M4	20H	20 ^{+0.021} ₀	6 ^{+0.030} ₀	22.8	2-M5	20J	20 ^{+0.021} ₀	6 ± 0.0150	22.8	2-M5	—	—	—	—	—	—
22	22 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	25.0	2-M6	22H	22 ^{+0.021} ₀	6 ^{+0.030} ₀	24.8	2-M5	22J	22 ^{+0.021} ₀	6 ± 0.0150	24.8	2-M5	—	—	—	—	—	—
24	24 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	27.0	2-M6	24H	24 ^{+0.021} ₀	8 ^{+0.036} ₀	27.3	2-M6	24J	24 ^{+0.021} ₀	8 ± 0.0180	27.3	2-M6	24N	24 ^{+0.028} _{+0.007}	8 ^{+0.036} ₀	27.3	2-M6	—
25	25 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	28.0	2-M6	25H	25 ^{+0.021} ₀	8 ^{+0.036} ₀	28.3	2-M6	25J	25 ^{+0.021} ₀	8 ± 0.0180	28.3	2-M6	—	—	—	—	—	—
28	28 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	31.0	2-M6	28H	28 ^{+0.021} ₀	8 ^{+0.036} ₀	31.3	2-M6	28J	28 ^{+0.021} ₀	8 ± 0.0180	31.3	2-M6	28N	28 ^{+0.028} _{+0.007}	8 ^{+0.036} ₀	31.3	2-M6	—
30	30 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	33.0	2-M6	30H	30 ^{+0.021} ₀	8 ^{+0.036} ₀	33.3	2-M6	30J	30 ^{+0.021} ₀	8 ± 0.0180	33.3	2-M6	—	—	—	—	—	—
32	32 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	35.5	2-M8	32H	32 ^{+0.025} ₀	10 ^{+0.036} ₀	35.3	2-M8	32J	32 ^{+0.025} ₀	10 ± 0.0180	35.3	2-M8	—	—	—	—	—	—
35	35 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	38.5	2-M8	35H	35 ^{+0.025} ₀	10 ^{+0.036} ₀	38.3	2-M8	35J	35 ^{+0.025} ₀	10 ± 0.0180	38.3	2-M8	—	—	—	—	—	—
38	38 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	41.5	2-M8	38H	38 ^{+0.025} ₀	10 ^{+0.036} ₀	41.3	2-M8	38J	38 ^{+0.025} ₀	10 ± 0.0180	41.3	2-M8	38N	38 ^{+0.050} _{+0.025}	10 ^{+0.036} ₀	41.3	2-M8	—
40	40 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	43.5	2-M8	40H	40 ^{+0.025} ₀	12 ^{+0.043} ₀	43.3	2-M8	40J	40 ^{+0.025} ₀	12 ± 0.0215	43.3	2-M8	—	—	—	—	—	—
42	42 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	45.5	2-M8	42H	42 ^{+0.025} ₀	12 ^{+0.043} ₀	45.3	2-M8	42J	42 ^{+0.025} ₀	12 ± 0.0215	45.3	2-M8	42N	42 ^{+0.050} _{+0.025}	12 ^{+0.043} ₀	45.3	2-M8	—
45	45 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	48.5	2-M8	45H	45 ^{+0.025} ₀	14 ^{+0.043} ₀	48.8	2-M10	45J	45 ^{+0.025} ₀	14 ± 0.0215	48.8	2-M10	—	—	—	—	—	—
48	48 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	51.5	2-M8	48H	48 ^{+0.025} ₀	14 ^{+0.043} ₀	51.8	2-M10	48J	48 ^{+0.025} ₀	14 ± 0.0215	51.8	2-M10	48N	48 ^{+0.050} _{+0.025}	14 ^{+0.043} ₀	51.8	2-M10	—
50	50 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	53.5	2-M8	50H	50 ^{+0.025} ₀	14 ^{+0.043} ₀	53.8	2-M10	50J	50 ^{+0.025} ₀	14 ± 0.0215	53.8	2-M10	—	—	—	—	—	—
55	55 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	60.0	2-M10	55H	55 ^{+0.030} ₀	16 ^{+0.043} ₀	59.3	2-M10	55J	55 ^{+0.030} ₀	16 ± 0.0215	59.3	2-M10	55N	55 ^{+0.060} _{+0.030}	16 ^{+0.043} ₀	59.3	2-M10	—
56	56 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	61.0	2-M10	56H	56 ^{+0.030} ₀	16 ^{+0.043} ₀	60.3	2-M10	56J	56 ^{+0.030} ₀	16 ± 0.0215	60.3	2-M10	—	—	—	—	—	—
60	60 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	65.0	2-M10	60H	60 ^{+0.030} ₀	18 ^{+0.043} ₀	64.4	2-M10	60J	60 ^{+0.030} ₀	18 ± 0.0215	64.4	2-M10	60N	60 ^{+0.060} _{+0.030}	18 ^{+0.043} ₀	64.4	2-M10	—

- Tolerance will be h8 class for hole diameter equal to or less than ø10 mm.
- Bore diameters of ø30 or less compliant with the new motor standards are G7 class tolerance.
- The set screw size is M3 for ALS-014.

Position of Set Screw

Model	ALS-014	ALS-020	ALS-030	ALS-040	ALS-055	ALS-065	ALS-080	ALS-095	ALS-105
Position of set screw C [mm]	3.5	5	5.5	12.5	15	17.5	22.5	25	28

STARFLEX ALS R-B-B - Datasheet

CLAMP TYPE

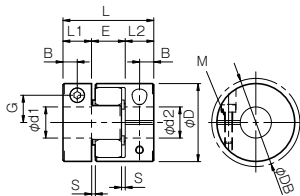
Specifications

Model	Misalignment			Max. rotation speed [min ⁻¹]	Static torsional stiffness [N·m/rad]	Radial stiffness [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]
	Parallel [mm]	Angular [°]	Axial [mm]					
ALS-014-R-□B-□B	0.10	1	0 ~ +0.6	10000	21	380	1.98 × 10 ⁻⁷	0.007
ALS-020-R-□B-□B	0.10	1	0 ~ +0.8	10000	43	400	1.09 × 10 ⁻⁶	0.019
ALS-030-R-□B-□B	0.10	1	0 ~ +1.0	10000	136	650	6.19 × 10 ⁻⁶	0.045
ALS-040-R-□B-□B	0.10	1	0 ~ +1.2	10000	1550	1700	4.01 × 10 ⁻⁵	0.16
ALS-055-R-□B-□B	0.10	1	0 ~ +1.4	7000	2000	1350	1.63 × 10 ⁻⁴	0.34
ALS-065-R-□B-□B	0.10	1	0 ~ +1.5	5900	3100	1400	3.69 × 10 ⁻⁴	0.54
ALS-080-R-□B-□B	0.10	1	0 ~ +1.8	4800	6000	1710	1.04 × 10 ⁻³	1.00

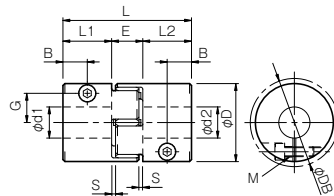
- Axial displacement is not allowed in the negative direction.
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

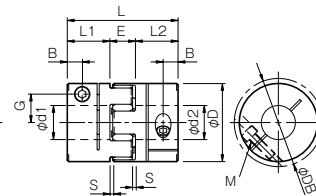
■ALS-014 to 030



■ALS-040



■ALS-055 to 080



Model	d1 · d2		D	DB	L	L1 · L2	E	S	B	G	M	Unit [mm]
	Min.	Max.										Tightening torque [N·m]
ALS-014-R-□B-□B	3	6	14	16.1	22	7	8	1	3.5	4.8	1-M2	0.4
ALS-020-R-□B-□B	4	8	20	20	30	10	10	1	5	6.5	1-M2.5	1
ALS-030-R-□B-□B	6	14	30	30	35	11	13	1.5	5.5	10.5	1-M3	1.5
ALS-040-R-□B-□B	8	20	40	43.2	66	25	16	2	12.5	15	1-M5	7
ALS-055-R-□B-□B	10	28	55	55	78	30	18	2	10.5	20	1-M6	14
ALS-065-R-□B-□B	14	35	65	69.8	90	35	20	2.5	11.5	24.5	1-M8	30
ALS-080-R-□B-□B	19	45	80	80	114	45	24	3	11.5	30	1-M8	30

• øDB = Interference radius of the screw head

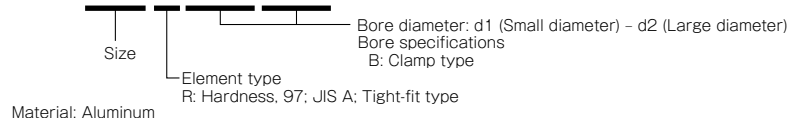
Standard Bore Dimensions and Rated Transmission Torque

Modell	Standard bore diameter d1, d2 [mm] and rated transmission torque [N·m]																				Unit [mm]									
	3	4	5	6	6.35	7	8	9	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
ALS-014-R	0.31	0.42	0.54	0.65																										
ALS-020-R		1.2	1.6	2.1	2.2	2.6	3.0																							
ALS-030-R				2.0	2.2	2.7	3.4	4.0	4.4	4.7	5.4	6.0	7.4																	
ALS-040-R							8	12	14	16	19	23	31	34	34	34	34	34												
ALS-055-R																														
ALS-065-R																														
ALS-080-R																														

- Bore diameters whose fields contain numbers are supported as the standard bore diameters.
- Bore diameters whose fields contain numbers are restricted in their rated transmission torque by the holding power of the shaft connection component. The numbers indicate the rated transmission torque value [N·m].
- The recommended processing tolerance for paired mounting shafts is the h7 class. However, for a shaft diameter of ø35, the tolerance is $\begin{smallmatrix} +0.010 \\ -0.025 \end{smallmatrix}$.
- Bore diameters between the minimum and maximums shown in the dimensions table are compatible, but bore diameters other than those shown in the above table require other arrangements. Contact Miki Pulley for details.

How to Place an Order

ALS-055-R-24B-28B



STARFLEX ALS Y-B-B - Datasheet

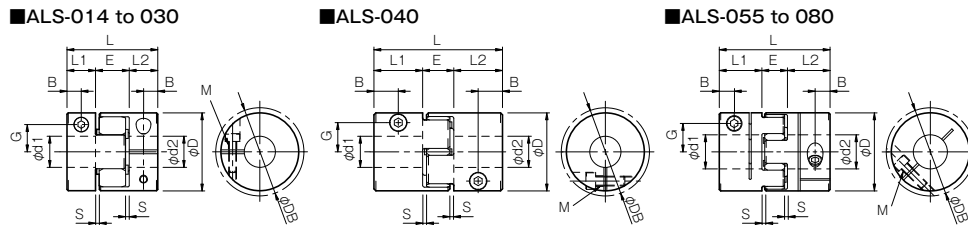
CLAMP TYPE

Specifications

Model	Misalignment			Max. rotation speed [min ⁻¹]	Static torsional stiffness [N·m/rad]	Radial stiffness [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]
	Parallel [mm]	Angular [°]	Axial [mm]					
ALS-014-Y-□B-□B	0.10	1	0 ~ +0.6	10000	12	200	1.98 × 10 ⁻⁷	0.007
ALS-020-Y-□B-□B	0.15	1	0 ~ +0.8	10000	24	210	1.09 × 10 ⁻⁶	0.019
ALS-030-Y-□B-□B	0.15	1	0 ~ +1.0	10000	73	330	6.19 × 10 ⁻⁶	0.045
ALS-040-Y-□B-□B	0.10	1	0 ~ +1.2	10000	760	940	4.01 × 10 ⁻⁵	0.16
ALS-055-Y-□B-□B	0.15	1	0 ~ +1.4	7000	1400	1160	1.63 × 10 ⁻⁴	0.34
ALS-065-Y-□B-□B	0.15	1	0 ~ +1.5	5900	2100	1200	3.69 × 10 ⁻⁴	0.54
ALS-080-Y-□B-□B	0.15	1	0 ~ +1.8	4800	4000	1430	1.04 × 10 ⁻³	1.00

- Axial displacement is not allowed in the negative direction.
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Model	d1 · d2		D	DB	L	L1 · L2	E	S	B	G	M	Tightening torque [N·m]	Unit [mm]
	Min.	Max.											
ALS-014-Y-□B-□B	3	6	14	16.1	22	7	8	1	3.5	4.8	1-M2	0.4	
ALS-020-Y-□B-□B	4	8	20	20	30	10	10	1	5	6.5	1-M2.5	1	
ALS-030-Y-□B-□B	6	14	30	30	35	11	13	1.5	5.5	10.5	1-M3	1.5	
ALS-040-Y-□B-□B	8	20	40	43.2	66	25	16	2	12.5	15	1-M5	7	
ALS-055-Y-□B-□B	10	28	55	55	78	30	18	2	10.5	20	1-M6	14	
ALS-065-Y-□B-□B	14	35	65	69.8	90	35	20	2.5	11.5	24.5	1-M8	30	
ALS-080-Y-□B-□B	19	45	80	80	114	45	24	3	11.5	30	1-M8	30	

• øDB = Interference radius of the screw head

Standard Bore Dimensions and Rated Transmission Torque

Modell	Standard bore diameter d1, d2 [mm] and rated transmission torque [N·m]																				Unit [mm]									
	3	4	5	6	6.35	7	8	9	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
ALS-014-Y	0.31	0.42	0.54	0.65																										
ALS-020-Y		1.2	1.6	2.1	2.2	2.6	3.0																							
ALS-030-Y				2.0	2.2	2.7	3.4	4	4.4	4.7	5.4	6.0	7.4																	
ALS-040-Y							8	12	14	16	19	20	20	20	20	20	20													
ALS-055-Y										21	25	28	35	38	41	48	51	54	61	67	70	70								
ALS-065-Y												40	44	47	54	58	61	68	75	79	89	96	103	114						
ALS-080-Y																	53	59	72	84	90	108	121	133	151	170	182	194	212	

- Bore diameters whose fields contain numbers are supported as the standard bore diameters.
- Bore diameters whose fields contain numbers are restricted in their rated transmission torque by the holding power of the shaft connection component. The numbers indicate the rated transmission torque value [N·m].
- The recommended processing tolerance for paired mounting shafts is the h7 class. However, for a shaft diameter of ø35, the tolerance is $^{+0.010}_{-0.025}$.
- Bore diameters between the minimum and maximums shown in the dimensions table are compatible, but bore diameters other than those shown in the above table require other arrangements. Contact Miki Pulley for details.

How to Place an Order

ALS-055-Y-24B-28B

Size: ALS-055-Y-24B-28B
 Element type: Y
 Bore diameter: d1 (Small diameter) - d2 (Large diameter)
 Bore specifications: B: Clamp type
 Material: Aluminum
 Y: Hardness, 90; JIS A: Tight-fit type

STARFLEX ALS B-B-B - Datasheet

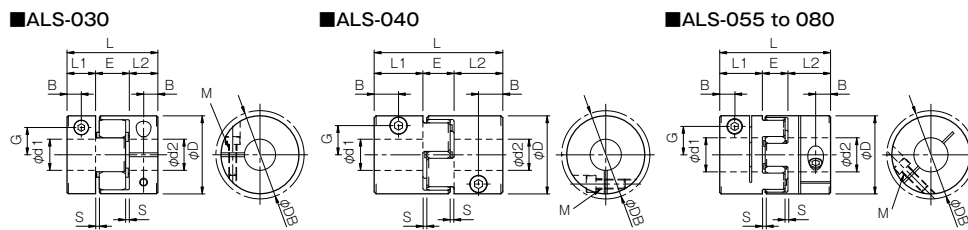
CLAMP TYPE

Specifications

Model	Misalignment			Max. rotation speed [min ⁻¹]	Static torsional stiffness [N-m/rad]	Radial stiffness [N/mm]	Moment of inertia [kg-m ²]	Mass [kg]
	Parallel [mm]	Angular [°]	Axial [mm]					
ALS-030-B-□B-□B	0.17	1	-0.2 ~ +1.0	10000	90	460	6.07 × 10 ⁻⁶	0.043
ALS-040-B-□B-□B	0.20	1	-0.5 ~ +1.2	10000	400	640	4.00 × 10 ⁻⁵	0.16
ALS-055-B-□B-□B	0.22	1	-0.2 ~ +1.4	7000	1150	400	1.63 × 10 ⁻⁴	0.34
ALS-065-B-□B-□B	0.25	1	-0.6 ~ +1.5	5900	2000	800	3.69 × 10 ⁻⁴	0.54
ALS-080-B-□B-□B	0.28	1	-0.9 ~ +1.8	4800	4550	600	1.04 × 10 ⁻³	1.00

- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Model	d1 • d2		D	DB	L	L1 • L2	E	S	B	G	M	Unit [mm]
	Min.	Max.										Tightening torque [N-m]
ALS-030-B-□B-□B	6	14	30	30	35	11	13	1.5	5.5	10.5	1-M3	1.5
ALS-040-B-□B-□B	8	20	40	43.2	66	25	16	2	12.5	15	1-M5	7
ALS-055-B-□B-□B	10	28	55	55	78	30	18	2	10.5	20	1-M6	14
ALS-065-B-□B-□B	14	35	65	69.8	90	35	20	2.5	11.5	24.5	1-M8	30
ALS-080-B-□B-□B	19	45	80	80	114	45	24	3	11.5	30	1-M8	30

• øDB = Interference radius of the screw head

Standard Bore Dimensions and Rated Transmission Torque

Modell	Standard bore diameter d1, d2 [mm] and rated transmission torque [N-m]																				Unit [mm]					
	6	6.35	7	8	9	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45
ALS-030-B	2.0	2.2	2.7	3.4	4.0	4.4	4.7	5.4	6.0	7.4																
ALS-040-B				8	12	14	16	19	23	31	34	34	34	34												
ALS-055-B																										
ALS-065-B																										
ALS-080-B																										

- Bore diameters whose fields contain numbers are supported as the standard bore diameters.
- Bore diameters whose fields contain numbers are restricted in their rated transmission torque by the holding power of the shaft connection component. The numbers indicate the rated transmission torque value [N-m].
- The recommended processing tolerance for paired mounting shafts is the h7 class. However, for a shaft diameter of ø35, the tolerance is $\begin{smallmatrix} +0.010 \\ -0.025 \end{smallmatrix}$.
- Bore diameters between the minimum and maximums shown in the dimensions table are compatible, but bore diameters other than those shown in the above table require other arrangements. Contact Miki Pulley for details.

How to Place an Order

