JAW COUPLINGS

STARFLEX ALS R-B-B – Datasheet
CLAMP TYPE

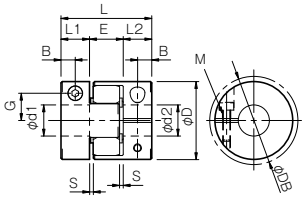
Specifications

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

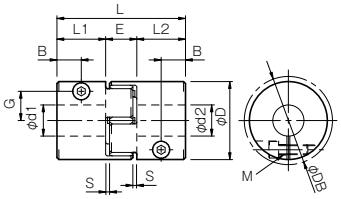
- Axial displacement is not allowed in the negative direction.
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

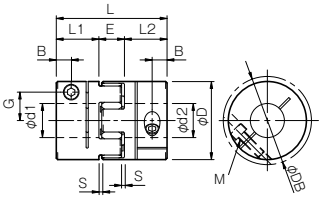
■ALS-014 to 030



■ALS-040



■ALS-055 to 080



Unit [mm]

Model	d1 • d2		D	DB	L	L1 • L2	E	S	B	G	M	Tightening torque [N·m]
	Min.	Max.										
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

Unit [mm]

Modell	Standard bore diameter d1, d2 [mm] and rated transmission torque [N·m]																											
	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										21	25	28	35	38	41	48	51	54	61	67	71	80							
ALS-065-R													40	44	47	54	58	61	68	75	79	89	96	103	114				
ALS-080-R																	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-R-24B-28B

- Size
- Element type: R: Hardness, 97: JIS A; Tight-fit type
- Material: Aluminum
- Bore specifications: B: Clamp type
- Bore diameter: d1 (Small diameter) – d2 (Large diameter)

MIKI PULLEY EUROPE AG

www.mikipulley.de

Rheinweg 5, CH-8200 Schaffhausen, Tel: +41 52 625 24 24
Bauhofstraße 12, D-63762 Großostheim, Tel: +49 6026 999 610

STARFLEX ALS Y-B-B – Datasheet
CLAMP TYPE

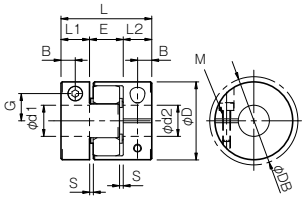
Specifications

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

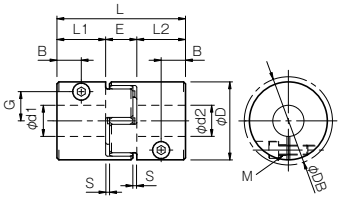
- Axial displacement is not allowed in the negative direction.
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

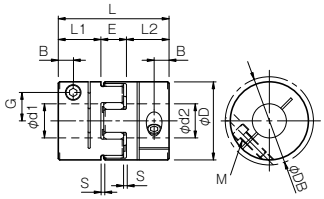
■ALS-014 to 030



■ALS-040



■ALS-055 to 080



Unit [mm]

Model	d1 • d2		D	DB	L	L1 • L2	E	S	B	G	M	Tightening torque [N·m]
	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

Unit [mm]

Modell	Standard bore diameter d1, d2 [mm] and rated transmission torque [N·m]																											
	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	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

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

Material: Aluminum

MIKI PULLEY EUROPE AG
www.mikipulley.de
Rheinweg 5, CH-8200 Schaffhausen, Tel: +41 52 625 24 24
Bauhofstraße 12, D-63762 Großostheim, Tel: +49 6026 999 610

JAW COUPLINGS

STARFLEX ALS B-B-B - Datasheet
CLAMP TYPE

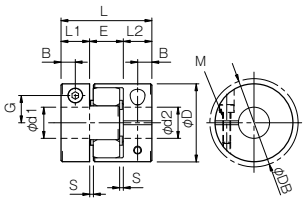
Specifications

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

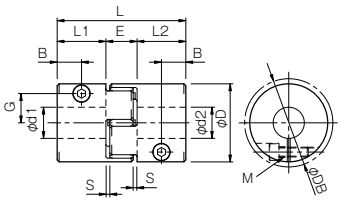
- Higher rpm possible with balancing.
- Stiffness values given are from measurements taken at 20 °C.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

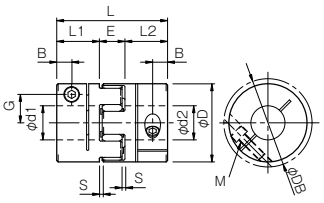
■ALS-030



■ALS-040



■ALS-055 to 080



Unit [mm]

Model	d1 • d2		D	DB	L	L1 • L2	E	S	B	G	M	Tightening torque [N·m]
	Min.	Max.										
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

Unit [mm]

Modell	Standard bore diameter d1, d2 [mm] and rated transmission torque [N·m]																									
	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	34											
ALS-055-B							21	25	28	35	38	41	48	51	54	61	67	71	80							
ALS-065-B										40	44	47	54	58	61	68	75	79	89	96	103	114				
ALS-080-B														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-B-24B-28B

- Size
- Element type
  B: Hardness, 97: JIS A; Loose-fit type
- Bore diameter: d1 (Small diameter) - d2 (Large diameter)
- Bore specifications
  B: Clamp type

Material: Aluminium

MIKI PULLEY EUROPE AG

www.mikipulley.de

Rheinweg 5, CH-8200 Schaffhausen, Tel: +41 52 625 24 24
Bauhofstraße 12, D-63762 Großostheim, Tel: +49 6026 999 610