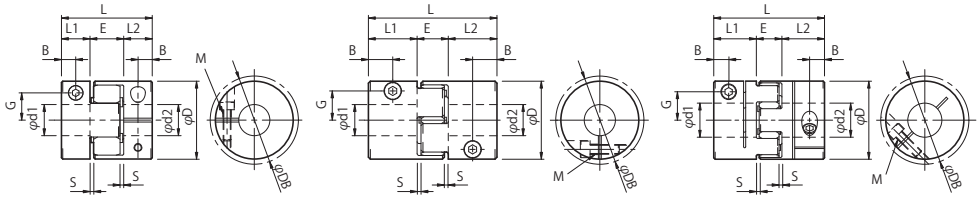
JAW COUPLING

MIKIPULLEY STARFLEX ALS R-B-B -Datasheet
CLAMP TYPE

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

* The øDB value is measured assuming that the head of the clamping bolt is larger than the external diameter of the hub.
* The nominal diameter for the clamping bolt M is equal to the quantity minus the nominal diameter of the screw threads, where the quantity is for a hub on one side.

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.
* Max. rotation speed does not take into account dynamic balance.
* Stiffness values given are from measurements taken at 20℃
* The moment of inertia and mass are measured for the maximum bore diameter.

Standard Bore Diameter and Rated Transmission Torque

Model	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	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

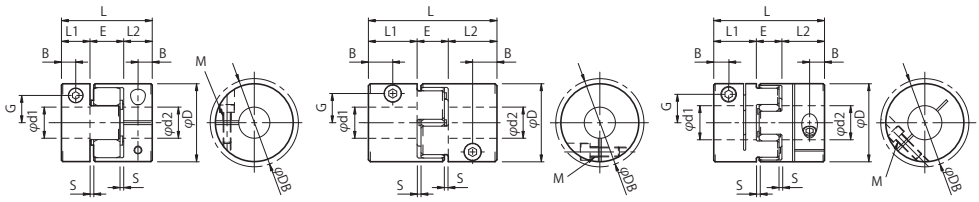
* Bore diameters whose fields contain numbers are supported as the standard bore diameters.
* Bore diameters whose fields contain numbers are restricted in their rated transmission torque by the holding power of the shaft connection component. The numbers indicate the rated transmission torque value [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.

JAW COUPLING

MIKIPULLEY STARFLEX ALS Y-B-B - Datasheet
CLAMP TYPE

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

* The øDB value is measured assuming that the head of the clamping bolt is larger than the external diameter of the hub.
* The nominal diameter for the clamping bolt M is equal to the quantity minus the nominal diameter of the screw threads, where the quantity is for a hub on one side.

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	4800	1430	1.04×10^{-3}	1.00

* Axial displacement 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℃
* The moment of inertia and mass are measured for the maximum bore diameter.

Standard Bore Diameter and Rated Transmission Torque

型式	標準穴径 d1・d2 [mm] と許容伝達トルク [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.

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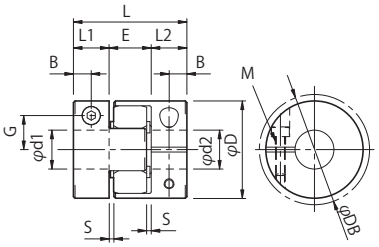
JAW COUPLING

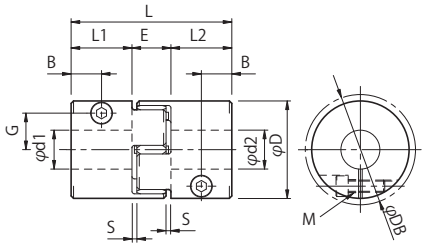
MIKIPULLEY STARFLEX ALS B-B-B - Datasheet
CLAMP TYPE

Dimensions

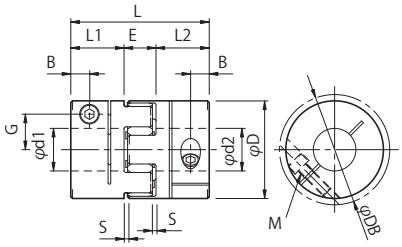
■ALS-030



■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

* The øDB value is measured assuming that the head of the clamping bolt is larger than the external diameter of the hub.
* The nominal diameter for the clamping bolt M is equal to the quantity minus the nominal diameter of the screw threads, where the quantity is for a hub on one side.

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

* Max. rotation speed does not take into account dynamic balance.
* Stiffness values given are from measurements taken at 20℃
* The moment of inertia and mass are measured for the maximum bore diameter.

Standard Bore Diameter and Rated Transmission Torque

Model	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	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.
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