

Specifications & Dimensions

SAKAI Miniature
Single Disk Coupling

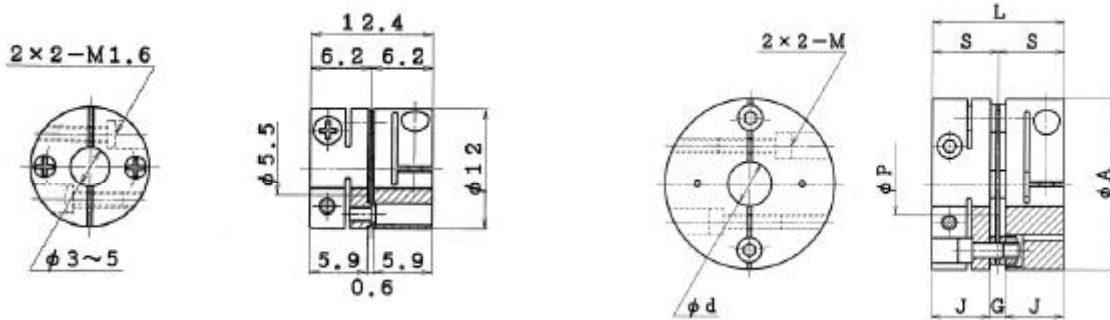
LAS-C



Allowable Angular Misalignment: 0.5°

Allowable Axial Displacement: ± 0.1 mm (LAS-12C ± 0.05 mm)

Maximum Speed: 8000r/min



LAS-12C

LAS-15C ~ 58C

Performance Rating and Dimension Specification

(Unit : mm)

Model Number	Allowable Torque (N·m)	Torsional Rigidity (N·m/rad)	Axial Spring Rate (N/mm)	Moment of Inertia (kg·m ²)	Weight (g)	d	A	P	L	S	J	G	M
LAS-12C	0.25	264	20	0.06×10^{-6}	2.8	Refer to the above drawing of LAS-12C							
LAS-15C	0.5	392	176	0.21×10^{-6}	7	3 ~ 5	15	5.5	16.2	8.1	7.7	0.8	M2
LAS-20C	1.0	980	78	0.77×10^{-6}	13	4 ~ 8	20	6.5	18.8	9.4	8.9	1	M2.5
LAS-25C	1.5	1764	50	2.31×10^{-6}	26	6 ~ 10	25	8.5	23.4	11.7	11	1.4	M3
LAS-30C	2.0	2940	30	4.87×10^{-6}	36	6 ~ 14	30	11.5	24.4	12.2	11.5	1.4	M3
LAS-35C	4.0	5880	50	0.10×10^{-4}	55	8 ~ 16	35	13	27	13.5	12.5	2	M3
LAS-40C	6.0	7840	40	0.19×10^{-4}	73	10 ~ 20	40	16	31.2	15.6	14.6	2	M3
LAS-48C	12	10192	58	0.47×10^{-4}	133	12 ~ 24	48	18	38.6	19.3	17	4.6	M4
LAS-58C	25	18620	58	1.20×10^{-4}	234	12 ~ 24	58	21	44.8	22.4	20	4.8	M5

Bore Size : d (Tolerance H7)

(Unit : mm)

Model Number	d																
	3	4	5	6	6.35	7	8	9.525	10	11	12	14	15	16	19	20	24
LAS-12C																	
LAS-15C																	
LAS-20C																	
LAS-25C																	
LAS-30C																	
LAS-35C																	
LAS-40C																	
LAS-48C																	
LAS-58C																	

Moment of inertia and weight listed above are for maximum bore sizes.

Bore size marked indicates shafts can be inserted beyond the ends of the hub's surface since the shaft size is within the diameter of the shaft through hole of the spacer and the disk spring.

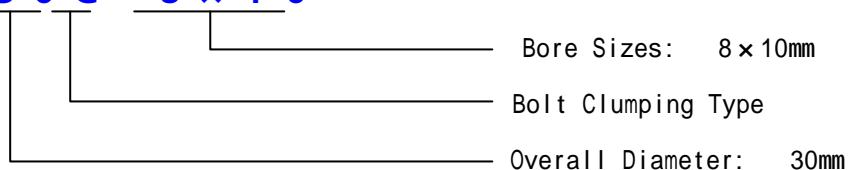
Bore size marked indicates shafts should not be inserted beyond the ends of the hub's surface to avoid the shafts from colliding with the disk spring in rotation.

Recommended shaft tolerance is h₆.

Specifications & Dimensions

Ordering Example

L A S - 3 0 C - 8 × 1 0



Clumping Capacity

Model Number	Bore Size (mm)	Clumping Capacity (N·m)	Model Number	Bore Size (mm)	Clumping Capacity (N·m)	Model Number	Bore Size (mm)	Clumping Capacity (N·m)	Model Number	Bore Size (mm)	Clumping Capacity (N·m)
LAS-12C	3	0.41	LAS-25C	7	5.8	LAS-35C	11	9.1	LAS-48C	12	17.3
	4	0.54		8	6.7		12	10.0		15	21.6
	5	0.68		9.525	7.9		14	11.6		16	23.1
LAS-15C	3	1.1	LAS-30C	10	8.3	LAS-40C	15	12.5	LAS-58C	19	27.4
	4	1.5		6	5.0		16	13.3		20	28.8
	5	1.8		7	5.8		10	8.3		24	34.6
LAS-20C	4	2.4	LAS-35C	8	6.7	LAS-48C	11	9.1	LAS-58C	12	28.2
	5	3.0		10	8.3		12	10.0		15	35.2
	6	3.6		11	9.1		14	11.6		16	37.5
	7	4.3		12	10.0		15	12.5		19	44.6
LAS-25C	8	4.9	LAS-58C	14	11.6	LAS-40C	16	13.3	LAS-58C	20	46.9
	6	5.0		8	6.7		19	15.8		24	56.3
	6.35	5.3		10	8.3		20	16.6			

Attachment on Shaft

Model Number	Bore Size (mm)	Clump Bolt Size	Fasten Torque (N·m)
LAS-12C	3 ~ 5	M1.6	0.14
LAS-15C	3 ~ 5	M2	0.4
LAS-20C	4 ~ 8	M2.5	0.8
LAS-25C	6 ~ 10	M3	1.4
LAS-30C	6 ~ 14	M3	1.4
LAS-35C	8 ~ 16	M3	1.4
LAS-40C	10 ~ 20	M3	1.4
LAS-48C	12 ~ 24	M4	2.8
LAS-58C	12 ~ 24	M5	5.9

Insert the shaft into the coupling to the certain position by hand. Then, tighten four clumping bolts by torque lenth at fasten torque which is mentioned in the left table.

Confirm shaft diameter with the bore size table whether the shaft can pass the shaft through hole of the spacer and the disk spring or not.

In case that the shaft diameter is larger than the diameter of the shaft through hole of the center block (Confirm the and mark of the bore size table), the insert position of the shaft should be within the size J in the dimension specification table.