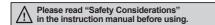
# Flexible coupling

### Features

- Zero (0) Backlash
- High torsional stiffness by high strength aluminum alloy AL 7075-T6
- High corrosion resistance with alumite treated surface
- Two connection types (clamp type, set screw type)

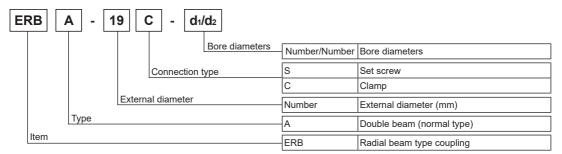




## Applications

• Stepper motor, Servo motor, Precision motor, high-precision encoder, dynamometer driver, high speed/precision position control system

### Ordering Information



# Specifications

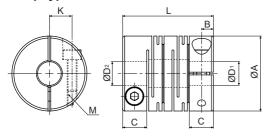
Model		ERB-A-19C- □	ERB-A-19S- □	ERB-A-26C-□	ERB-A-26S- □		
Connection type		Clamp	Set screw	Clamp	Set screw		
Max. revolutions		8000rpm 20000rpm		6000rpm	15000 rpm		
Max. torque		1.2N·m (12.17kgf·cm)		3.0N·m (30.42kgf·cm)			
Rated torque		0.6N·m (6.08kgf·cm)		1.5N·m (15.21kgf·cm)			
Mounting bolt (mounting torque)		M2.5 (1N·m)	M3 (0.7N·m)	M3 (0.7N·m)	M4 (1.7N·m)		
Torsional stiffness		140N·m/rad		240N·m/rad			
Moment of inertia		6.4×10 <sup>-7</sup> kg·m²		3.4×10 <sup>-6</sup> kg·m <sup>2</sup>	3.4×10 <sup>-6</sup> kg·m <sup>2</sup>		
Max. allowable misalign- ment	Angular misalignment	2.5°					
	Parallel misalignment	0.15mm		0.2mm			
	End-play	±0.3mm		±0.4mm			
Standard bore diameter (tolerance h7)		Ø4, Ø5, Ø6mm		Ø6, Ø8mm			
Min. allowable bore diameter		Ø4mm		Ø5mm			
Max. allowable bore diameter		Ø8mm		Ø12mm	Ø12mm		
Material		Aluminum (AL 7075-T6), Alumite surface					
Weight		Approx. 14.9g (approx. 14.4g)		Approx. 37.3g (appro	Approx. 37.3g (approx. 36.7g)		

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# Flexible Coupling

### Dimensions

### O Clamp type



Model	ØΑ	L	ØD₁	$ØD_2$	M	С	В	K
ERB-A-19C-04/04		00	4 +0.018	4 +0.018	M2.5	6.1	3	5.75
ERB-A-19C-04/05	19 23			5 +0.018				
ERB-A-19C-04/06				6 +0.018				
ERB-A-19C-05/05		E +0.018	5 +0.018	IVIZ.5	0.1	٦	3.73	
ERB-A-19C-05/06			5 +0.018	6 +0.018				
ERB-A-19C-06/06			6 +0.018	0 8				
ERB-A-26C-06/06				6 +0.018	М3	7.4	3.7	8.55
ERB-A-26C-06/08	26 31.4	31.4		8 +0.018				
ERB-A-26C-08/08		8 +0.018	8 5					

SENSORS

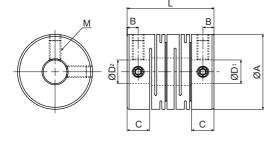
CONTROLLERS

MOTION DEVICES

SOFTWARE

(unit: mm)

Set screw type



Model	ØΑ	L	ØD₁	$ØD_2$	M	С	В
ERB-A-19S-04/04		4*0018 22 5*0018 6*0018	4*0.018	4*0.018	M3	5.7	2.8
ERB-A-19S-04/05	19			5*0.018			
ERB-A-19S-04/06				6+0.018			
ERB-A-19S-05/05	19		5*0.018	IVIS	5.7	2.0	
ERB-A-19S-05/06			5 %	6*0.018			
ERB-A-19S-06/06			6*0.018				
ERB-A-26S-06/06		30	6*0.018	6+0.018	M4	6.8	3.4
ERB-A-26S-06/08	26			8*0.018			
ERB-A-26S-08/08			8*0.018				

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

(E) Vision Sensors

(F) Proximity Sensors

(G) Pressure Sensors

> d) lotary

(I) Connectors/ Connector Cables/ Sensor Distributior Boxes/ Sockets

### Proper Usage

The flexible coupling is available in the places where vibration or misalignment occurs. It must be used within the rated allowable misalignment range.

When using the flexible coupling over the rated misalignment range, it may cause vibration or shorten the life cycle.

When there are more than two misalignments, each allowable value is 50%.

It is recommended to use the flexible coupling below 1/3 of the allowable misalignment value to extend the life of the coupling and the applied equipment.

#### Caution for using

- Couplings are for transferring rotation angle and power between shafts. Before using this, make sure to check the purpose and appropriacy.
- This product uses high strength aluminum alloy and has spring power as Radial beam type. However, if the coupling is dropped, hit or applied excessive power, it may be damaged or transformed.
- If the coupling is applied over the rated misalignment, or the tolerance of the shaft is over the allowable value, it may cause plastic deformation, damage of the product or shorten the life cycle.
- When it occurs abnormal sound during operating the equipment with this coupling, stop the operation and remove the cause such as misalignment, unscrewing, or rotation hazard.
- If this coupling is applied to the equipment which has big fluctuation of load, shaft may be loose by unscrewing.
   Tighten the screw securely and prevent from unscrewing.

- This product is for transferring rotation power. If there is a risk of human contact, attach the caution label or install a safety cover in a prominent position.
- Rated torque is available to transfer the power continuously. Check the rated capacity before using this product.
- Max. torque is available to transfer the power in a moment. Check the rated capacity before using this product.

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