


# ERB Series

# Flexible Coupling

## Flexible coupling

### ■ Features

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

 Please read "Caution for your safety" in operation manual before using.

NEW



### ■ Applications

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

### ■ Ordering information

<b>ERB</b>	<b>A</b>	-	<b>19</b>	<b>C</b>	-	<b>d<sub>1</sub>/d<sub>2</sub></b>
Item	Type		External diameter	Connection type		Bore diameters
	A		Number	S		Number/Number
	ERB			C		Bore diameters

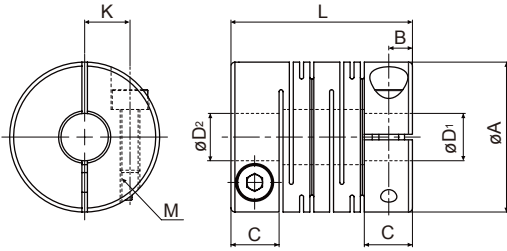
### ■ Specifications

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	1.2 N·m(12.17 kgf·cm)		3.0 N·m(30.42 kgf·cm)	
Rated torque	0.6 N·m(6.08 kgf·cm)		1.5 N·m(15.21 kgf·cm)	
Mounting bolt (Mounting torque)	M2.5(1N·m)	M3(0.7N·m)	M3(1.7N·m)	M4(1.7N·m)
Torsional stiffness	140 N·m/rad		240 N·m/rad	
Moment of inertia	6.4×10 <sup>-7</sup> kg·m <sup>2</sup>		3.4×10 <sup>-6</sup> kg·m <sup>2</sup>	
Max. allowable misalignment	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	
Material	Aluminum(AL 7075-T6), Alumite treated surface			
Unit weight	12g		33g	

## ■ Dimensions

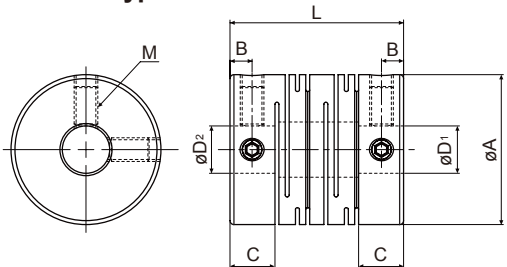
(unit: mm)

### ◎ Clamp type



Model	$\varnothing A$	L	$\varnothing D_1$	$\varnothing D_2$	M	C	B	K
ERB-A-19C-04/04	19	23	4 <sup>+0.018</sup> <sub>0</sub>	4 <sup>+0.018</sup> <sub>0</sub>	M2.5	6.1	3	5.75
ERB-A-19C-04/05				5 <sup>+0.018</sup> <sub>0</sub>				
ERB-A-19C-04/06				6 <sup>+0.018</sup> <sub>0</sub>				
ERB-A-19C-05/05			5 <sup>+0.018</sup> <sub>0</sub>					
ERB-A-19C-05/06			6 <sup>+0.018</sup> <sub>0</sub>					
ERB-A-19C-06/06			6 <sup>+0.018</sup> <sub>0</sub>					
ERB-A-26C-06/06	26	31.4	6 <sup>+0.018</sup> <sub>0</sub>	6 <sup>+0.018</sup> <sub>0</sub>	M3	7.4	3.7	8.55
ERB-A-26C-06/08				8 <sup>+0.018</sup> <sub>0</sub>				
ERB-A-26C-08/08				8 <sup>+0.018</sup> <sub>0</sub>				

### ◎ Set screw type



Model	$\varnothing A$	L	$\varnothing D_1$	$\varnothing D_2$	M	C	B
ERB-A-19S-04/04	19	22	4 <sup>+0.018</sup> <sub>0</sub>	4 <sup>+0.018</sup> <sub>0</sub>	M3	5.7	2.8
ERB-A-19S-04/05				5 <sup>+0.018</sup> <sub>0</sub>			
ERB-A-19S-04/06				6 <sup>+0.018</sup> <sub>0</sub>			
ERB-A-19S-05/05			5 <sup>+0.018</sup> <sub>0</sub>				
ERB-A-19S-05/06			6 <sup>+0.018</sup> <sub>0</sub>				
ERB-A-19S-06/06			6 <sup>+0.018</sup> <sub>0</sub>				
ERB-A-26S-06/06	26	30	6 <sup>+0.018</sup> <sub>0</sub>	6 <sup>+0.018</sup> <sub>0</sub>	M4	6.8	3.4
ERB-A-26S-06/08				8 <sup>+0.018</sup> <sub>0</sub>			
ERB-A-26S-08/08				8 <sup>+0.018</sup> <sub>0</sub>			

## ■ Proper usage

The flexible coupling is available where there are vibration and misalignment. It must be used within the rated allowable misalignment range.

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

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

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

- 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.

### ◎ Caution for using

- Couplings are for transferring rotation angle and power between shafts. Before using this, be sure the use and the purpose.
- 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.

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