

HC – C Type

Helical Couplings

Clamping Screw Type

The HC Series is crafted from cylindrical material, featuring two helical beams twisted in a spiral shape to provide smooth axial elasticity along the shaft length. This design ensures excellent torsional rigidity, a low moment of inertia, and superior responsiveness. The HC Series is particularly well-suited for applications requiring high-speed and high-response performance, making it an ideal coupling for servo motors, stepping motors, and encoders.



Ordering Instructions

- Please specify the series, outer diameter, and bore size when placing your order.
- If keyway machining (on the bore) is required, ensure to indicate this separately.
- For assistance in selecting the right couplings, please contact our customer service center.

HC

series

32

Specifications
(Outer diameter)

C

Type
(Fastening method)

- 10 -

Bore diameter
(d1)

15

Bore diameter
(d2)

LK3 – RK5

Keyway
(Side d1) Keyway
(Side d2)

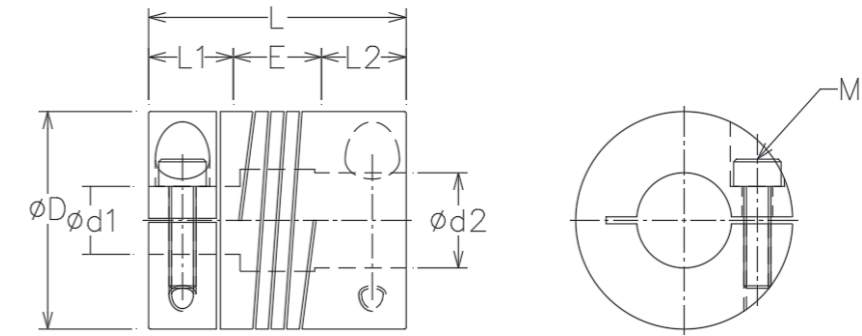
For keyway machining

Standard Bore Diameter

※ Bore machining is available within the product's minimum to maximum bore range beyond the standard bore sizes. (Refer to the figures on the right)

Standard bore diameter (d1/d2, mm)	3	4	5	6	6.35	8	10	12	14	15	16	18	19	20	22	24	25	26
HC 16 C	•	•	•	•	•	•												
HC 20 C		•	•	•	•	•	•											
HC 25 C			•	•	•	•	•	•										
HC 32 C				•	•	•	•	•	•	•	•							
HC 42 C						•	•	•	•	•	•	•	•	•	•			
HC 48 C							•	•	•	•	•	•	•	•	•	•	•	•

Download detailed product information, including 2D (dwg) and 3D (step) files, from our website: www.jitcoupling.co.kr.



Dimension

Product Name	External Diameter	Length	Bore diameter range(d1/d2)		Shaft depth		Shaft Insert Distance	Bolt Size
			Min. Bore Diameter	Max. Bore Diameter	Shaft Insert Length	Shaft Insert Length		
HC 16C	Ø16	22	3	8	7	7	8	M2.5
HC 20C	Ø20	25	4	10	8	8	9	M2.5
HC 25C	Ø25	30	5	13	10	10	10	M3
HC 32C	Ø32	38	6	16	13	13	12	M4
HC 42C	Ø42	45	8	22	16	16	13	M5
HC 48C	Ø48	54	10	26	19	19	16	M5

Specification

Product Name	Rated Torque (Nm)	Max Torque (Nm)	Max. Rotational Frequency (min ⁻¹)	Moment of Inertia (kg*m ²)	Static Torsional Stiffness (Nm/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass (g)
HC 16 C	0.8	1.7	24,500	3.74x10 ⁻⁷	65	0.1	3	0.2	11.9
HC 20 C	1.1	2.1	20,000	1.03x10 ⁻⁶	140	0.1	3	0.2	21.2
HC 25 C	2.1	4.1	16,000	3.04x10 ⁻⁶	170	0.1	3	0.25	39.7
HC 32 C	4.1	8.2	13,000	1.03x10 ⁻⁵	380	0.15	3	0.3	82.5
HC 42 C	9.8	19.5	11,000	3.63x10 ⁻⁵	460	0.15	3	0.3	168.2
HC 48 C	14.6	29.2	9,000	7.44x10 ⁻⁵	740	0.15	3	0.3	263.7