

HC – SS Type

Helical Couplings
Set Screw Type –
Short Version

The HC-SS Series is a coupling designed with a shorter length. It features a relief cut in the inner bore where the helical slit is formed, preventing damage from shaft interference caused by eccentricity or angular misalignment. Additionally, the set screws are tightened at 120-degree intervals, ensuring even distribution of clamping force around the shaft for enhanced stability and secure mounting.



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)

SS

Type
(Fastening method)

- 10 - 15

Bore diameter
(d1)

Bore diameter
(d2)

LK3 – RK5

Keyway
(Side d1)

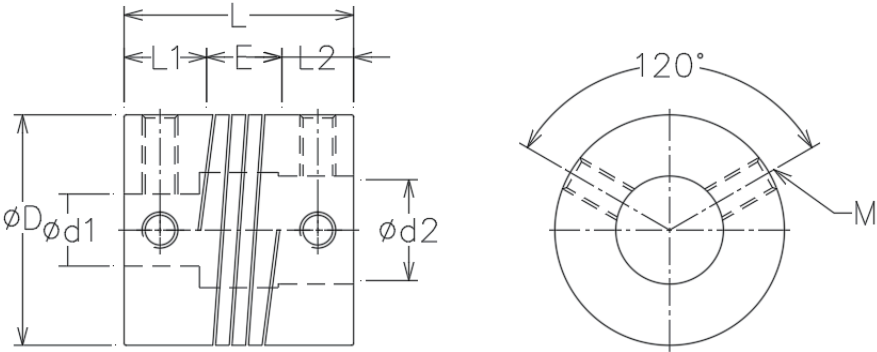
Keyway
(Side d2)

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	13	14	15	16	18	19	20	22	24	25	26	28	30
HC 16 SS	•	•	•	•	•	•															
HC 20 SS		•	•	•	•	•	•														
HC 25 SS			•	•	•	•	•	•	•												
HC 32 SS				•	•	•	•	•	•	•	•	•									
HC 42 SS						•	•	•	•	•	•	•	•	•	•	•	•	•			
HC 48 SS							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



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 16 SS	Ø16	18	3	8	5	5	8	M3
HC 20 SS	Ø20	21	4	10	6	6	9	M4
HC 25 SS	Ø25	25	5	13	8	8	9	M4
HC 32 SS	Ø32	32	6	16	10	10	12	M5
HC 42 SS	Ø42	40	8	25	13.5	13.5	13	M6
HC 48 SS	Ø48	48	10	30	16	16	16	M8

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 SS	0.8	1.7	24,500	3.74x10 ⁻⁷	65	0.1	3	0.2	9.8
HC 20 SS	1.1	2.1	20,000	1.03x10 ⁻⁶	140	0.1	3	0.2	17.8
HC 25 SS	2.1	4.1	16,000	3.04x10 ⁻⁶	170	0.1	3	0.25	33.1
HC 32 SS	4.1	8.2	13,000	1.03x10 ⁻⁵	380	0.15	3	0.3	69.5
HC 42 SS	9.8	19.5	11,000	3.63x10 ⁻⁵	460	0.15	3	0.3	149.6
HC 48 SS	14.6	29.2	9,000	7.44x10 ⁻⁵	740	0.15	3	0.3	234.4