SJC SERIES

Jaw Coupling

- Power transmission through the spider (sleeve) in the middle
- The highest durability comparing to other coupling series
- Various clamping methods available
- High precision with preloaded assembly

Product Features & Application

Sleeve Material		Hytrel (RD/GR)	TPU (BL)
Backlash free (Precision)		○	○
High Torque (Durability)		☆	☆
Torsional Stiffness		△	△
Vibration Absorption		△	○
Misalignment Absorption		△	△
Insulation of Electric Current		○	○
Applicable Motors	Servo	○	○
	Stepping	○	○
	Encoder	△	△
	General	☆	☆
Permissible Temperature		-20°C ~ 120°C	-20°C ~ 70°C

Application : Machine tools, Press machine, Injection Molding machine, Pneumatic machine, Pump, Cartesian Robot, Belt Drive, Logistics facilities etc.

Clamping Methods

Set-screw (No mark)	General	△
	With Keyway	○
Side-clamp (C)	General	○
	Hub Split	△
	With Keyway	○
Shaft-insertion (I)		△
Taper-ring (T)		△

※ △symbol in the above table means that the availability is subject to differ according to each outer diameter size.

※ You may check more details on the “Dimensions / Performance” tables in the following pages.

HOW TO ORDER — Set-screw / Side-clamp / Taper-ring

SJC - 65 CW - RD - TH - 20 W K6 x 25 W K8

- SJC: Model
- 65: OD(D) size
- CW: Clamping Methods ①
- RD: Sleeve Type ②
- TH: Center-Through (TH) ③
- 20: ID(d) size(d1)
- W: Side-clamp Hub Split (W) ④
- K6: Keyway (K) ⑤
- 25: ID(d) size(d2)
- W: Side-clamp Hub Split (W) ④
- K8: Keyway (K) ⑤

① Clamping Methods

No mark	Set-screw
C	General Side-clamp
CW	Side-clamp Hub Split
T	Taper-ring

② Sleeve Type (Shore Stiffness)

RD	Hytrel, Sh63D
GR	Hytrel, Sh98A
BL	TPU, Sh98A

③ Center-Through

No mark	Center-Solid
TH	Center-Through

④ Side-clamp Hub Split

No mark	Not Split
W	Split (Only applicable on Side-clamp Type)

⑤ Keyway

No mark	No Keyway
K(b size)	Keyway processed according to the indicated b size. (Keyway is not applicable on Taper-ring type)

SJC SERIES

Jaw Coupling

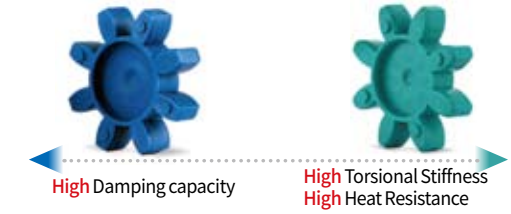
Sleeve Material

GR(Hytrel, Sh 98A) — High Absorption of misalignment

RD(Hytrel, Sh 63D) — High Mechanical Strength, High Mechanical Stiffness

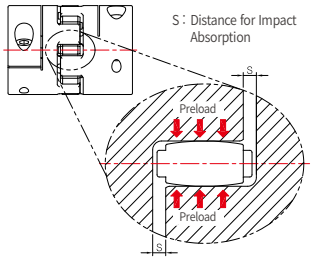
BL(TPU, Sh 98A) — High Damping capacity

GR(Hytrel, Sh 98A) — High Torsional Stiffness, High Heat Resistance



- A Sleeve (Spider) is the medium that transmits motion absorbing impact and misalignment and it is the core part of Jaw couplings.
- Hytrel®(made by Dupont) is superior in terms of mechanical strength, abrasion resistance and heat resistance whereas TPU (Thermoplastic polyurethane) has higher damping capacity.
- According to material and shore stiffness, there are 3 types of sleeves, RD(Hytrel, Sh 63D), GR(Hytrel, Sh 98A) and BL(TPU, Sh 98A) respectively.

Preload on Sleeves



Sung-il's SJC Series is assembled with adequate preload and its outstanding features are as below.

1. Improved static torsional stiffness brings faster response
2. Minimized backlash as there is no clearance at the assembled area

Model	Distance S	Model	Distance S	Model	Distance S
SJC-14	1.0mm	SJC-40, 48, 55	2mm	SJC-100	3.5mm
SJC-20	1.0mm	SJC-65	2.5mm	SJC-120	4mm
SJC-25	1.2mm	SJC-80	3mm	SJC-135	4.5mm
SJC-30	1.5mm	SJC-90	3mm	SJC-160	5mm

Sleeve Types (General: Center-Solid / TH: Center-Through)

If the shaft has to be inserted deeper than L_1 value, we can provide appropriate center-through sleeves. Please refer to "HOW TO ORDER" in the previous page. Either type has the identical value of transmittable torque and the same level of misalignment absorption.

Type	14 - 30	40	47 - 100	120 - 135	160
General : Center-Solid				-	-
TH : Center-Through					

Model	Max. standard ID	Sleeve-TH ID
SJC-14	Φ5	-
SJC-20	Φ8	Φ6
SJC-25	Φ10	Φ6.35
SJC-30	Φ14	Φ8
SJC-40	Φ18	Φ15
SJC-48	Φ28	Φ20
SJC-55	Φ28	Φ25
SJC-65	Φ35	Φ25
SJC-80	Φ45	Φ32
SJC-90	Φ50	Φ40
SJC-100	Φ60	Φ45
SJC-120	Φ65	Φ55
SJC-135	Φ70	Φ65
SJC-160	Φ80	Φ75

SJC SERIES

Jaw Coupling

Performance table according to sleeve types

Model	Code	Material	Shore Stiffness	Rated Torque (N·m)	Max. Torque (N·m)	Static Torsional Stiffness (N·m/rad)	Permissible Misalignment		
							Angular (°)	Parallel (mm)	End-play (mm)
SJC-14	BL	TPU	98A	2	4	22	1	0.05	-0.2 ~ +0.6
	GR	Hytrel	98A	2	4	25	1	0.05	-0.2 ~ +0.6
	RD	Hytrel	63D	2.5	5	34	1	0.03	-0.2 ~ +0.6
SJC-20	BL	TPU	98A	4	8	50	1	0.07	-0.3 ~ +0.8
	GR	Hytrel	98A	4	8	60	1	0.07	-0.3 ~ +0.8
	RD	Hytrel	63D	6	12	74	1	0.05	-0.3 ~ +0.8
SJC-25	BL	TPU	98A	9	18	220	1	0.07	-0.4 ~ +1.0
	GR	Hytrel	98A	9	18	260	1	0.07	-0.4 ~ +1.0
	RD	Hytrel	63D	12	24	300	1	0.05	-0.4 ~ +1.0
SJC-30	BL	TPU	98A	12	24	170	1	0.08	-0.5 ~ +1.0
	GR	Hytrel	98A	12	24	200	1	0.08	-0.5 ~ +1.0
	RD	Hytrel	63D	16	32	220	1	0.06	-0.5 ~ +1.0
SJC-40	BL	TPU	98A	17	34	1,500	1	0.06	-0.6 ~ +1.2
	GR	Hytrel	98A	17	34	1,600	1	0.06	-0.6 ~ +1.2
	RD	Hytrel	63D	21	42	1,750	1	0.04	-0.6 ~ +1.2
SJC-48	BL	TPU	98A	35	70	1,800	1	0.08	-0.6 ~ +1.3
	GR	Hytrel	98A	35	70	2,800	1	0.08	-0.6 ~ +1.3
	RD	Hytrel	63D	40	80	3,600	1	0.05	-0.6 ~ +1.3
SJC-55	BL	TPU	98A	60	120	3,000	1	0.09	-0.6 ~ +1.4
	GR	Hytrel	98A	60	120	4,500	1	0.09	-0.6 ~ +1.4
	RD	Hytrel	63D	75	150	6,000	1	0.06	-0.6 ~ +1.4
SJC-65	BL	TPU	98A	150	300	6,500	1	0.1	-0.6 ~ +1.5
	GR	Hytrel	98A	150	300	8,500	1	0.1	-0.6 ~ +1.5
	RD	Hytrel	63D	180	360	10,000	1	0.08	-0.6 ~ +1.5
SJC-80	BL	TPU	98A	300	600	8,000	1	0.1	-0.6 ~ +1.5
	GR	Hytrel	98A	300	600	12,000	1	0.1	-0.6 ~ +1.5
	RD	Hytrel	63D	380	760	14,000	1	0.08	-0.6 ~ +1.5
SJC-90	BL	TPU	98A	450	900	12,000	1	0.15	-0.6 ~ +2.0
	GR	Hytrel	98A	450	900	14,000	1	0.15	-0.6 ~ +2.0
	RD	Hytrel	63D	500	1,000	16,000	1	0.1	-0.6 ~ +2.0
SJC-100	BL	TPU	98A	500	1,000	24,000	1	0.15	-0.6 ~ +2.0
	GR	Hytrel	98A	500	1,000	30,000	1	0.15	-0.6 ~ +2.0
	RD	Hytrel	63D	600	1,200	40,000	1	0.1	-0.6 ~ +2.0
SJC-120	GR	Hytrel	98A	620	1,240	50,000	1.2	0.35	-1.0 ~ +2.2
	RD	Hytrel	63D	740	1,480	90,000	1.2	0.25	-1.0 ~ +2.2
SJC-135	GR	Hytrel	98A	850	1,700	60,000	1.2	0.4	-1.0 ~ +2.2
	RD	Hytrel	63D	1,050	2,100	100,000	1.2	0.3	-1.0 ~ +2.2
SJC-160	GR	Hytrel	98A	1,700	3,400	90,000	1.2	0.4	-1.5 ~ +3.0
	RD	Hytrel	63D	2,100	4,200	150,000	1.2	0.32	-1.5 ~ +3.0

SJC SERIES

Jaw Coupling

Structure and Material of SJC Series

Set-screw — Size : 14 ~ 100

Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	Anodizing
Sleeve	Hytrel®(RD/GR) TPU (BL)	-
Screw	SCM435	Black Oxide

Side-clamp — Size : 14C ~ 100C

Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	Anodizing
Sleeve	Hytrel®(RD/GR) TPU (BL)	-
Screw	SCM435	Black Oxide

Side-clamp — Size : 120C ~ 160C

Structure	Material	Surface Treatment
Hub	Steel	Electroless Nickel Plating
Sleeve	Hytrel®(RD/GR)	-
Screw	SCM435	Electroless Nickel Plating

Side-clamp (Space-saving) — Size : M-55C ~ M-100C

Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	Anodizing
Sleeve	Hytrel®(RD/GR) TPU (BL)	-
Screw	SCM435	Black Oxide

Shaft-insertion — Size : 25I ~ 65I

Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	Anodizing
Sleeve	Hytrel®(RD/GR) TPU (BL)	-
Bushing	Stainless Steel	
Screw	SCM435	Black Oxide

Taper-ring — Size : 55T ~ 100T

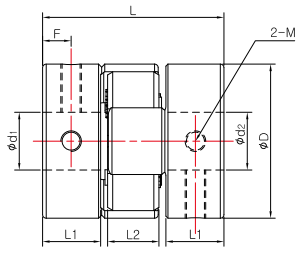
Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	Anodizing
Sleeve	Hytrel®(RD/GR) TPU (BL)	-
Screw	SCM435	Black Oxide

SJC SERIES

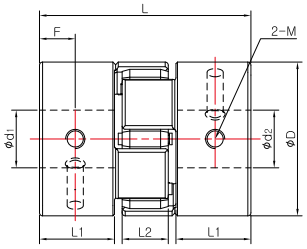
BL (TPU, Sh98A) GR (Hytrel, Sh98A) RD (Hytrel, Sh63D)

Jaw Coupling

Set-screw



Size : 14 ~ 30



Size : 40

Dimensions / Performance

Model	Size (±0.3mm)					Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SJC-14-BL	14	22	7	6	3.5	M3	0.7	2	4	27,000	2.1×10^{-7}	22	6.7	1	0.05	-0.2 ~ +0.6
SJC-14-GR	14	22	7	6	3.5	M3	0.7	2	4	27,000	2.1×10^{-7}	25	6.7	1	0.05	-0.2 ~ +0.6
SJC-14-RD	14	22	7	6	3.5	M3	0.7	2.5	5	27,000	2.1×10^{-7}	34	6.7	1	0.03	-0.2 ~ +0.6
SJC-20-BL	20	30	10	8	4.7	M3	0.7	4	8	19,000	1.0×10^{-6}	50	18.3	1	0.07	-0.3 ~ +0.8
SJC-20-GR	20	30	10	8	4.7	M3	0.7	4	8	19,000	1.0×10^{-6}	60	18.3	1	0.07	-0.3 ~ +0.8
SJC-20-RD	20	30	10	8	4.7	M3	0.7	6	12	19,000	1.0×10^{-6}	74	18.3	1	0.05	-0.3 ~ +0.8
SJC-25-BL	25	31.3	10	9	5	M4	1.7	9	18	15,000	2.7×10^{-6}	220	30	1	0.07	-0.4 ~ +1.0
SJC-25-GR	25	31.3	10	9	5	M4	1.7	9	18	15,000	2.7×10^{-6}	260	30	1	0.07	-0.4 ~ +1.0
SJC-25-RD	25	31.3	10	9	5	M4	1.7	12	24	15,000	2.7×10^{-6}	300	30	1	0.05	-0.4 ~ +1.0
SJCA-30-BL	30	35.3	11.3	10	5.6	M4	1.7	12	24	13,000	6.2×10^{-6}	170	46	1	0.08	-0.4 ~ +1.0
SJCA-30-GR	30	35.3	11.3	10	5.6	M4	1.7	12	24	13,000	6.2×10^{-6}	200	46	1	0.08	-0.4 ~ +1.0
SJCA-30-RD	30	35.3	11.3	10	5.6	M4	1.7	16	32	13,000	6.2×10^{-6}	220	46	1	0.06	-0.4 ~ +1.0
SJCB-30-BL	30	44.7	16	10	7.3	M4	1.7	12	24	13,000	8.2×10^{-6}	170	60	1	0.08	-0.4 ~ +1.0
SJCB-30-GR	30	44.7	16	10	7.3	M4	1.7	12	24	13,000	8.2×10^{-6}	200	60	1	0.08	-0.4 ~ +1.0
SJCB-30-RD	30	44.7	16	10	7.3	M4	1.7	16	32	13,000	8.2×10^{-6}	220	60	1	0.06	-0.4 ~ +1.0
SJCA-40-BL	40	55	19.5	12	9.3	M5	4	17	34	9,600	3.3×10^{-5}	1,500	132	1	0.06	-0.5 ~ +1.2
SJCA-40-GR	40	55	19.5	12	9.3	M5	4	17	34	9,600	3.3×10^{-5}	1,600	132	1	0.06	-0.5 ~ +1.2
SJCA-40-RD	40	55	19.5	12	9.3	M5	4	21	42	9,600	3.3×10^{-5}	1,750	132	1	0.04	-0.5 ~ +1.2
SJCB-40-BL	40	66	25	12	11.6	M5	4	17	34	9,600	4.0×10^{-5}	1,500	163	1	0.06	-0.5 ~ +1.2
SJCB-40-GR	40	66	25	12	11.6	M5	4	17	34	9,600	4.0×10^{-5}	1,600	163	1	0.06	-0.5 ~ +1.2
SJCB-40-RD	40	66	25	12	11.6	M5	4	21	42	9,600	4.0×10^{-5}	1,750	163	1	0.07	-0.5 ~ +1.2

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft. (Set-screw type is usually less durable than other clamping method, thus please consider it has a complementary option e.g. keyway along with.)

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)																
	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	14	15	16	18
SJC□-14	●	●	●	●													
SJC□-20		●	●	●	●	●	●	●									
SJC□-25				●	●	●	●	●	●	●	●						
SJC□-30					●	●	●	●	●	●	●	●	●	●			
SJC□-40								●	●	●	●	●	●	●	●	●	●

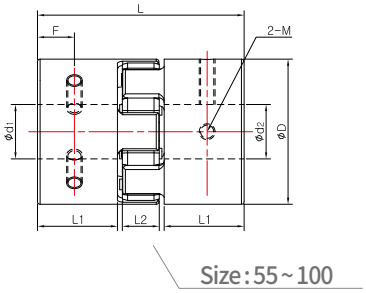
- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

SJC SERIES

BL (TPU, Sh98A) GR (Hytrel, Sh98A) RD (Hytrel, Sh63D)

Jaw Coupling

Set-screw



Size : 55 ~ 100

Dimensions / Performance

Model	Size (±0.3mm)					Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SJC-55-BL	55	78.3	30.3	14	14	M6	7	60	120	7,500	1.7×10^{-4}	3,000	344	1	0.09	-0.5 ~ +1.4
SJC-55-GR	55	78.3	30.3	14	14	M6	7	60	120	7,500	1.7×10^{-4}	4,500	344	1	0.09	-0.5 ~ +1.4
SJC-55-RD	55	78.3	30.3	14	14	M6	7	75	150	7,500	1.7×10^{-4}	6,000	344	1	0.06	-0.5 ~ +1.4
SJC-65-BL	65	90.3	35.3	15	17.2	M8	15	150	300	6,000	3.9×10^{-4}	6,500	535	1	0.1	-0.6 ~ +1.5
SJC-65-GR	65	90.3	35.3	15	17.2	M8	15	150	300	6,000	3.9×10^{-4}	8,500	535	1	0.1	-0.6 ~ +1.5
SJC-65-RD	65	90.3	35.3	15	17.2	M8	15	180	360	6,000	3.9×10^{-4}	10,000	535	1	0.08	-0.6 ~ +1.5
SJC-80-BL	80	114.2	45.2	18	21.7	M8	15	300	600	5,000	1.1×10^{-3}	8,000	1,150	1	0.1	-0.6 ~ +1.5
SJC-80-GR	80	114.2	45.2	18	21.7	M8	15	300	600	5,000	1.1×10^{-3}	12,000	1,150	1	0.1	-0.6 ~ +1.5
SJC-80-RD	80	114.2	45.2	18	21.7	M8	15	380	760	5,000	1.1×10^{-3}	14,000	1,150	1	0.08	-0.6 ~ +1.5
SJC-100-BL	104	140.2	56.2	21	27.3	M10	25	500	1,000	4,000	4.8×10^{-3}	24,000	2,650	1	0.1	-0.6 ~ +2.0
SJC-100-GR	104	140.2	56.2	21	27.3	M10	25	500	1,000	4,000	4.8×10^{-3}	30,000	2,650	1	0.1	-0.6 ~ +2.0
SJC-100-RD	104	140.2	56.2	21	27.3	M10	25	600	1,200	4,000	4.8×10^{-3}	40,000	2,650	1	0.1	-0.6 ~ +2.0

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft. (Set-screw type is usually less durable than other clamping method, thus please consider it has a complementary option e.g. keyway along with.)

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)																		
	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	60
SJC-55	●	●	●	●	●	●	●	●	●	●	●	●							
SJC-65			●	●	●	●	●	●	●	●	●	●	●	●	●				
SJC-80			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SJC-100							●	●	●	●	●	●	●	●	●	●	●	●	●

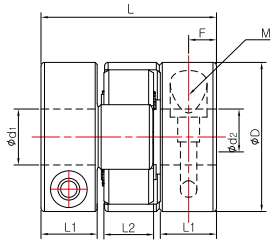
- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

SJC SERIES

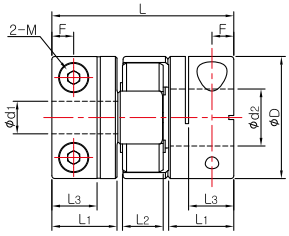
BL (TPU, Sh98A) GR (Hytrel, Sh98A) RD (Hytrel, Sh63D)

Jaw Coupling

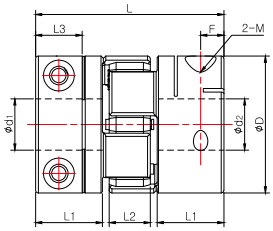
Side-clamp



Size : 14C ~ A-30C



Size : B - 30C



Size : 40C

Dimensions / Performance

Model	Size (±0.3mm)						Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment			Side-clamp Hub Split (W)
	D	L	L_1	L_2	L_3	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)	
SJC-14C-BL	14	22	7	6	-	3.5	M2	0.5	2	4	22,000	1.6×10^{-7}	22	6	1	0.05	-0.2 ~ +0.6	X
SJC-14C-GR	14	22	7	6	-	3.5	M2	0.5	2	4	22,000	1.6×10^{-7}	25	6	1	0.05	-0.2 ~ +0.6	X
SJC-14C-RD	14	22	7	6	-	3.5	M2	0.5	2.5	5	22,000	1.6×10^{-7}	34	6	1	0.03	-0.2 ~ +0.6	X
SJC-20C-BL	20	30	10	8	-	5	M2.6	1	4	8	15,000	1.1×10^{-6}	50	19	1	0.07	-0.3 ~ +0.8	X
SJC-20C-GR	20	30	10	8	-	5	M2.6	1	4	8	15,000	1.1×10^{-6}	60	19	1	0.07	-0.3 ~ +0.8	X
SJC-20C-RD	20	30	10	8	-	5	M2.6	1	6	12	15,000	1.1×10^{-6}	74	19	1	0.05	-0.3 ~ +0.8	X
SJC-25C-BL	25	31.3	10	9	-	5	M3	1.7	9	18	13,000	2.4×10^{-6}	220	25	1	0.07	-0.4 ~ +1.0	X
SJC-25C-GR	25	31.3	10	9	-	5	M3	1.7	9	18	13,000	2.4×10^{-6}	260	25	1	0.07	-0.4 ~ +1.0	X
SJC-25C-RD	25	31.3	10	9	-	5	M3	1.7	12	24	13,000	2.4×10^{-6}	300	25	1	0.05	-0.4 ~ +1.0	X
SJCA-30C-BL	30	35.3	11.3	10	-	5.6	M4	3.5	12	24	10,000	6.2×10^{-6}	170	50	1	0.08	-0.4 ~ +1.0	X
SJCA-30C-GR	30	35.3	11.3	10	-	5.6	M4	3.5	12	24	10,000	6.2×10^{-6}	200	50	1	0.08	-0.4 ~ +1.0	X
SJCA-30C-RD	30	35.3	11.3	10	-	5.6	M4	3.5	16	32	10,000	6.2×10^{-6}	220	50	1	0.06	-0.4 ~ +1.0	X
SJCB-30C-BL	30	44.7	16	10	11.1	5.4	M4	3.5	12	24	10,000	7.5×10^{-6}	170	55	1	0.08	-0.4 ~ +1.0	○
SJCB-30C-GR	30	44.7	16	10	11.1	5.4	M4	3.5	12	24	10,000	7.5×10^{-6}	200	55	1	0.08	-0.4 ~ +1.0	○
SJCB-30C-RD	30	44.7	16	10	11.1	5.4	M4	3.5	16	32	10,000	7.5×10^{-6}	220	55	1	0.06	-0.4 ~ +1.0	○
SJCA-40C-BL	40	55	19.5	12	13.6	6.8	M5	8	17	34	8,500	3.1×10^{-5}	1,500	135	1	0.06	-0.5 ~ +1.2	○
SJCA-40C-GR	40	55	19.5	12	13.6	6.8	M5	8	17	34	8,500	3.1×10^{-5}	1,600	135	1	0.06	-0.5 ~ +1.2	○
SJCA-40C-RD	40	55	19.5	12	13.6	6.8	M5	8	21	42	8,500	3.1×10^{-5}	1,750	135	1	0.04	-0.5 ~ +1.2	○
SJCB-40C-BL	40	66	25	12	16.5	8.4	M5	8	17	34	8,500	3.9×10^{-5}	1,500	160	1	0.06	-0.5 ~ +1.2	○
SJCB-40C-GR	40	66	25	12	16.5	8.4	M5	8	17	34	8,500	3.9×10^{-5}	1,600	160	1	0.06	-0.5 ~ +1.2	○
SJCB-40C-RD	40	66	25	12	16.5	8.4	M5	8	21	42	8,500	3.9×10^{-5}	1,750	160	1	0.04	-0.5 ~ +1.2	○

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)																
	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	14	15	16	18
SJC□-14C	●	●	●	●													
SJC□-20C		●	●	●	●	●	●	●									
SJC□-25C				●	●	●	●	●	●	●	●						
SJC□-30C					●	●	●	●	●	●	●	●	●	●			
SJC□-40C								●	●	●	●	●	●	●	●	●	●

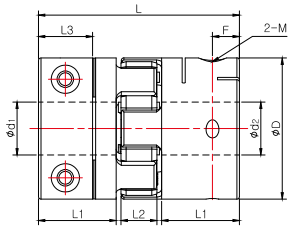
- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

SJC SERIES

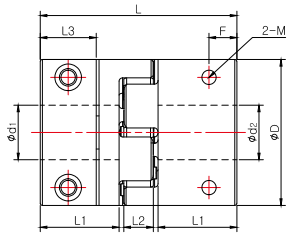
BL (TPU, Sh98A) GR (Hytrel, Sh98A) RD (Hytrel, Sh63D)

Jaw Coupling

Side-clamp



Size : 48C ~ 80C



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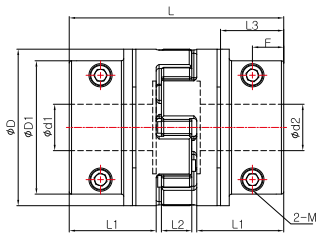
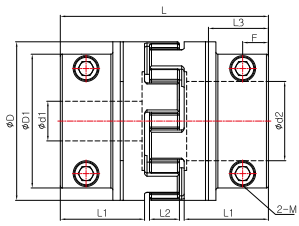


Size : 120C ~ 135C



Size : 160C

Dimensions / Performance

Model	Size (±0.3mm)							Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment			Side-clamp Hub Split (W)
	D	L	D_1	L_1	L_2	L_3	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)	
SJC-48C-BL	48	66.8	-	25.3	13	17.4	9	M6	13	35	70	7,000	8.2×10^{-5}	1,800	224	1	0.08	-0.6 ~ +1.3	○
SJC-48C-GR	48	66.8	-	25.3	13	17.4	9	M6	13	35	70	7,000	8.2×10^{-5}	2,800	224	1	0.08	-0.6 ~ +1.3	○
SJC-48C-RD	48	66.8	-	25.3	13	17.4	9	M6	13	40	80	7,000	8.2×10^{-5}	3,600	224	1	0.05	-0.6 ~ +1.3	○
SJC-55C-BL	55	78.3	-	30.3	14	21	10.5	M6	13	60	120	6,500	1.6×10^{-4}	3,000	330	1	0.09	-0.5 ~ +1.4	○
SJC-55C-GR	55	78.3	-	30.3	14	21	10.5	M6	13	60	120	6,500	1.6×10^{-4}	4,500	330	1	0.09	-0.5 ~ +1.4	○
SJC-55C-RD	55	78.3	-	30.3	14	21	10.5	M6	13	75	150	6,500	1.6×10^{-4}	6,000	330	1	0.06	-0.5 ~ +1.4	○
SJC-65C-BL	65	90.3	-	35.3	15	25.6	12.5	M8	30	150	300	5,500	3.8×10^{-4}	6,500	560	1	0.1	-0.6 ~ +1.5	○
SJC-65C-GR	65	90.3	-	35.3	15	25.6	12.5	M8	30	150	300	5,500	3.8×10^{-4}	8,500	560	1	0.1	-0.6 ~ +1.5	○
SJC-65C-RD	65	90.3	-	35.3	15	25.6	12.5	M8	30	180	360	5,500	3.8×10^{-4}	10,000	560	1	0.08	-0.6 ~ +1.5	○
SJC-80C-BL	80	114.2	-	45.2	18	30.2	14.7	M10	50	300	600	4,500	1.0×10^{-3}	8,000	1,050	1	0.1	-0.6 ~ +1.5	○
SJC-80C-GR	80	114.2	-	45.2	18	30.2	14.7	M10	50	300	600	4,500	1.0×10^{-3}	12,000	1,050	1	0.1	-0.6 ~ +1.5	○
SJC-80C-RD	80	114.2	-	45.2	18	30.2	14.7	M10	50	380	760	4,500	1.0×10^{-3}	14,000	1,050	1	0.08	-0.6 ~ +1.5	○
SJC-90C-BL	95	126	-	50	26	35	18	M10	50	450	900	3,500	2.3×10^{-3}	12,000	1,640	1	0.15	-0.6 ~ +2.0	○
SJC-90C-GR	95	126	-	50	26	35	18	M10	50	450	900	3,500	2.3×10^{-3}	14,000	1,640	1	0.15	-0.6 ~ +2.0	○
SJC-90C-RD	95	126	-	50	26	35	18	M10	50	500	1,000	3,500	2.3×10^{-3}	16,000	1,640	1	0.1	-0.6 ~ +2.0	○
SJC-100C-BL	104	140.2	-	56.2	21	39.9	19.9	M12	90	500	1,000	3,500	4.6×10^{-3}	24,000	2,550	1	0.15	-0.6 ~ +2.0	○
SJC-100C-GR	104	140.2	-	56.2	21	39.9	19.9	M12	90	500	1,000	3,500	4.6×10^{-3}	30,000	2,550	1	0.15	-0.6 ~ +2.0	○
SJC-100C-RD	104	140.2	-	56.2	21	39.9	19.9	M12	90	600	1,200	3,500	4.6×10^{-3}	40,000	2,550	1	0.1	-0.6 ~ +2.0	○
SJC-120C-GR	120	160	110	65	22.2	44.5	22	M12	115	620	1,240	3,150	2.4×10^{-2}	90,000	7,390	1.2	0.35	-1.0 ~ +2.2	○
SJC-120C-RD	120	160	110	65	22.2	44.5	22	M12	115	740	1,480	3,150	2.4×10^{-2}	60,000	7,390	1.2	0.25	-1.0 ~ +2.2	○
SJC-135C-GR	135	185	115	75	26.2	54.5	27	M12	115	850	1,700	2,800	4.0×10^{-2}	90,000	9,900	1.2	0.4	-1.0 ~ +2.6	○
SJC-135C-RD	135	185	115	75	26.2	54.5	27	M12	115	1,050	2,100	2,800	4.0×10^{-2}	150,000	9,900	1.2	0.3	-1.0 ~ +2.6	○
SJC-160C-GR	160	210	135	85	30.2	60.5	26	M16	280	1,700	3,400	2,350	8.6×10^{-2}	90,000	16,300	1.2	0.4	-1.5 ~ +3.0	○
SJC-160C-RD	160	210	135	85	30.2	60.5	26	M16	280	2,100	4,200	2,350	8.6×10^{-2}	150,000	16,300	1.2	0.32	-1.5 ~ +3.0	○

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

SJC SERIES

Jaw Coupling

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)																							
	10	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	60	65	70	75	80
SJC-48C	●	●	●	●	●	●	●	●	●	●														
SJC-55C		●	●	●	●	●	●	●	●	●	●	●	●											
SJC-65C				●	●	●	●	●	●	●	●	●	●	●	●	●								
SJC-80C				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
SJC-100C								●	●	●	●	●	●	●	●	●	●	●	●	●				
SJC-120C															●	●	●	●	●	●	●			
SJC-135C																●	●	●	●	●	●	●		
SJC-160C																	●	●	●	●	●	●	●	●

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)
- Side-clamp Hub Split is available (Optional)

Slip Torque

- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operating torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when a different kind of fastening screw is used (body material or surface treatment). Therefore, we recommend you test under the same conditions before mounting.

Model	Max. Torque (N.m) RD Sleeve	Slip Torque (N.m) by Inner Diameter (d_1, d_2)															
		3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	18
SJC□-14C	4.8	0.6	0.8	0.9	1	1.2											
SJC□-20C	12		1	1.5	1.8	1.9	2.1	2.7	2.9								
SJC□-25C	24				2	2.6	2.6	3	3.2	3.8	4.8						
SJC□-30C	32					4.5	5	8	10.8	10.8	12.4	12.8	13.6	15			
SJC□-40C	42								20	23	26	26	27	28	30	31	32

Model	Max. Torque (N.m) RD Sleeve	Slip Torque (N.m) by Inner Diameter (d_1, d_2)																			
		10	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	60
SJC-48C	80	30	33	37	40	42	45	46	50	55	60										
SJC-55C	150		40	42	45	47	50	52	55	60	65	70	73	80							
SJC-65C	360				80	82	84	86	90	92	93	95	96	98	100	105	110				
SJC-80C	760				90	95	100	110	121	132	141	150	162	175	180	187	193	200	250		
SJC-90C	1000						140	176	208	230	240	245	250	250	265	300	320	360	370	460	
SJC-100C	1200								300	330	350	390	390	400	410	420	430	450	470	490	550

Side-clamp Hub Split(W) Option is available

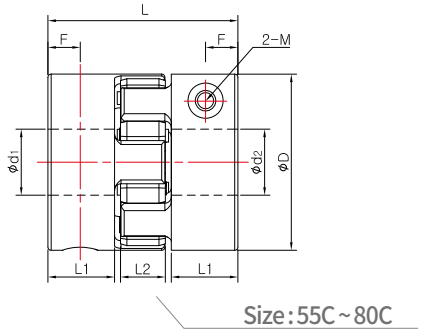
- From certain outer diameter (OD) sizes, we can provide Side-clamp Hub Split products.
- Please refer to "HOW TO ORDER" page for more details.

SJC SERIES (SJCM)

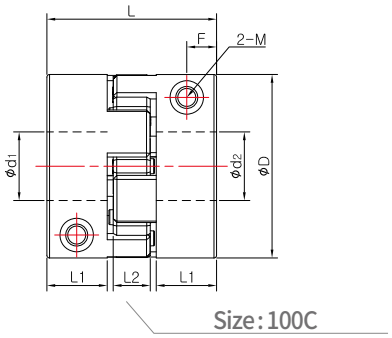
BL (TPU, Sh98A) GR (Hytrel, Sh98A) RD (Hytrel, Sh63D)

Jaw Coupling

Side-clamp (Spacer-saving)



Size : 55C ~ 80C



Size : 100C

Dimensions / Performance

Model	Size (±0.3mm)					Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SJCM-55C-BL	55	59.3	20.8	14	10.1	M6	13	60	120	4,000	1.3×10^{-4}	3,000	280	1	0.09	-0.5 ~ +1.4
SJCM-55C-GR	55	59.3	20.8	14	10.1	M6	13	60	120	4,000	1.3×10^{-4}	4,500	280	1	0.09	-0.5 ~ +1.4
SJCM-55C-RD	55	59.3	20.8	14	10.1	M6	13	75	150	4,000	1.3×10^{-4}	6,000	280	1	0.06	-0.5 ~ +1.4
SJCM-65C-BL	65	63.3	21.8	15	10.5	M8	30	150	300	3,500	2.6×10^{-4}	6,500	400	1	0.1	-0.6 ~ +1.5
SJCM-65C-GR	65	63.3	21.8	15	10.5	M8	30	150	300	3,500	2.6×10^{-4}	8,500	400	1	0.1	-0.6 ~ +1.5
SJCM-65C-RD	65	63.3	21.8	15	10.5	M8	30	180	360	3,500	2.6×10^{-4}	10,000	400	1	0.08	-0.6 ~ +1.5
SJCM-80C-BL	80	87.2	31.7	18	15.5	M10	50	300	600	3,000	8.7×10^{-4}	8,000	860	1	0.1	-0.6 ~ +1.5
SJCM-80C-GR	80	87.2	31.7	18	15.5	M10	50	300	600	3,000	8.7×10^{-4}	12,000	860	1	0.1	-0.6 ~ +1.5
SJCM-80C-RD	80	87.2	31.7	18	15.5	M10	50	380	760	3,000	8.7×10^{-4}	14,000	860	1	0.08	-0.6 ~ +1.5
SJCM-100C-BL	104	96.2	34.2	21	16.9	M12	90	500	1,000	3,000	3.1×10^{-3}	24,000	1,700	1	0.15	-0.6 ~ +2.0
SJCM-100C-GR	104	96.2	34.2	21	16.9	M12	90	500	1,000	3,000	3.1×10^{-3}	30,000	1,700	1	0.15	-0.6 ~ +2.0
SJCM-100C-RD	104	96.2	34.2	21	16.9	M12	90	600	1,200	3,000	3.1×10^{-3}	40,000	1,700	1	0.1	-0.6 ~ +2.0

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)																		
	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	60
SJCM-55C	●	●	●	●	●	●	●	●	●	●	●	●							
SJCM-65C			●	●	●	●	●	●	●	●	●	●	●	●	●				
SJCM-80C			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SJCM-100C							●	●	●	●	●	●	●	●	●	●	●	●	●

- The recommended shaft tolerance is h7. • Keyway is available. (Optional)
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Side-clamp Hub Split is NOT available

Slip Torque

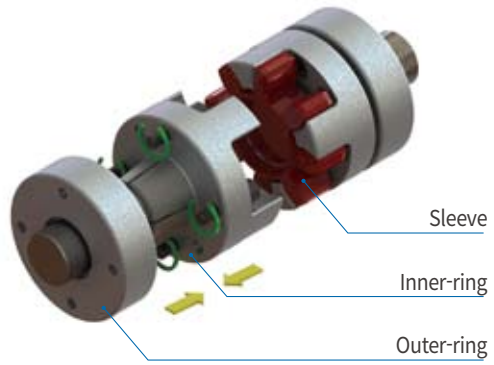
- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operating torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when a different kind of fastening screw is used (body material or surface treatment). Therefore, we recommend you test under the same conditions before mounting.

Model	Max. Torque (N.m) RD Sleeve	Slip Torque (N.m) by Inner Diameter (d_1, d_2)																		
		12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	60
SJCM-55C	150	25	30	32	34	38	40	42	50	52	54	56	60							
SJCM-65C	360			55	60	70	75	80	85	94	98	103	110	118	125	130				
SJCM-80C	760			90	100	110	118	125	130	150	155	160	175	185	200	220	250	280		
SJCM-100C	1200							200	230	260	290	320	360	390	410	435	450	460	480	550

SJC SERIES

Jaw Coupling

Taper-ring



Principles

- When inner screws are fastened, the inner ring and outer ring move closer each other by the thrust of screws and the taper ring structure.
- The inner ring shrinks evenly and gives contact pressure on shafts and then the shaft and the coupling are tightly interlocked.
- Perfect symmetry for the rotating shafts.

Feature 1 Perfect Rotation Balancing

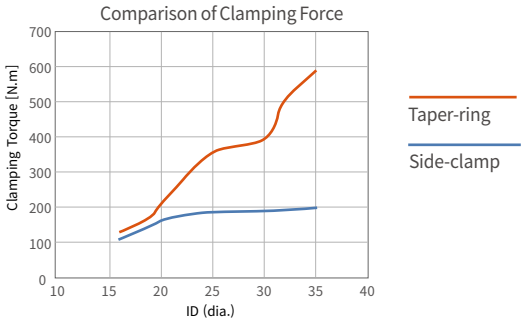
Example) Comparison between 2 products with the identical OD (55mm) and different clamping methods shows the results as below.

Model name	Clamping Methods	Unbalance (g-mm)
SJC-55T	Taper-ring	0.7
SJC-55C	Side-clamp	21.6

- Unbalance is the main reason that causes noise and vibration on high speed rotating applications
- The Taper type product has the structure of complete symmetry which leads to nearly zero-unbalance

※ The above values may be subject to change based on test conditions (e.g. shaft material or tolerance)

Feature 2 Stronger Clamping Force on Shafts



- Excellent Clamping force comparing to Set-screw or Side-clamp type
- Enough clamping force is granted without keyway

HOW TO MOUNT

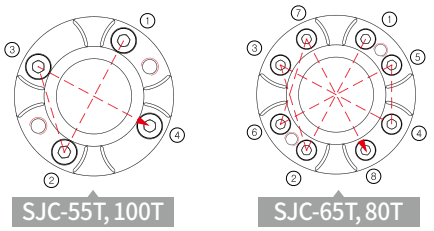
Step 1. Firstly remove dust or oil substances from the surface where outer and inner ring hubs face each other as well as the surface of the inserting shaft.

Step 2. Spread oil thinly on the surface where outer and inner ring hubs face each other as well as the surface of the inserting shaft. (Any oil type which includes molybdenum-sulfur compounds or silicone is prohibited)

Step 3. Insert the shaft up to L_2 of the inner ring hub.

Step 4. Fasten the screws with ½ of fastening torque one time each in sequential order as shown on the below Fig.(1)

Fig.(1)

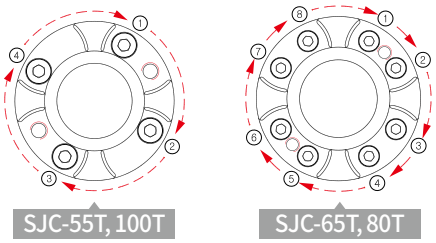


Step 5. Fasten the screws with full of fastening torque one time each in sequential order as shown on the below Fig.(1)

Step 6. Fasten the screws with full of fastening torque in sequential order as shown on the below Fig.(2). Repeat Step 6 until all screws are fastened appropriately.

※ Please refer to “Dimensions / Performance” tables for fastening torques.

Fig.(2)

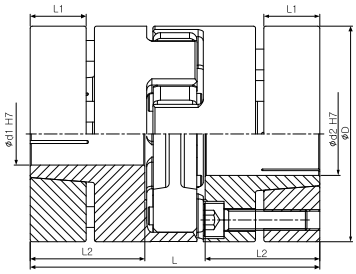


SJC SERIES

BL (TPU, Sh98A) GR (Hytrel, Sh98A) RD (Hytrel, Sh63D)

Jaw Coupling

Taper-ring



Dimensions / Performance

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SJC-55T-BL	55	78	16	30.3	M5	8	60	120	12,000	1.59×10^{-4}	3,000	345	1	0.09	-0.5 ~ +1.4
SJC-55T-GR	55	78	16	30.3	M5	8	60	120	12,000	1.59×10^{-4}	4,500	345	1	0.09	-0.5 ~ +1.4
SJC-55T-RD	55	78	16	30.3	M5	8	75	150	12,000	1.59×10^{-4}	6,000	345	1	0.06	-0.5 ~ +1.4
SJC-65T-BL	65	90.3	18	35.5	M5	8	150	300	10,000	3.75×10^{-4}	6,500	536	1	0.1	-0.6 ~ +1.5
SJC-65T-GR	65	90.3	18	35.5	M5	8	150	300	10,000	3.75×10^{-4}	8,500	536	1	0.1	-0.6 ~ +1.5
SJC-65T-RD	65	90.3	18	35.5	M5	8	180	360	10,000	3.75×10^{-4}	10,000	536	1	0.08	-0.6 ~ +1.5
SJC-80T-BL	80	114.2	25	45.2	M6	13	300	600	8,000	1.09×10^{-3}	8,000	1,043	1	0.1	-0.6 ~ +1.5
SJC-80T-GR	80	114.2	25	45.2	M6	13	300	600	8,000	1.09×10^{-3}	12,000	1,043	1	0.1	-0.6 ~ +1.5
SJC-80T-RD	80	114.2	25	45.2	M6	13	380	760	8,000	1.09×10^{-3}	14,000	1,043	1	0.08	-0.6 ~ +1.5
SJC-100T-BL	104	140.2	27	56	M10	50	500	1,000	6,500	3.70×10^{-3}	24,000	2,126	1	0.15	-0.6 ~ +2.0
SJC-100T-GR	104	140.2	27	56	M10	50	500	1,000	6,500	3.70×10^{-3}	30,000	2,126	1	0.15	-0.6 ~ +2.0
SJC-100T-RD	104	140.2	27	56	M10	50	600	1,200	6,500	3.70×10^{-3}	40,000	2,126	1	0.1	-0.6 ~ +2.0

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)																			
	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	55
SJC-55T	●	●	●	●	●	●	●	●	●	●	●	●							
SJC-65T			●	●	●	●	●	●	●	●	●	●	●	●	●				
SJC-80T			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SJC-100T							●	●	●	●	●	●	●	●	●	●	●	●	●

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is NOT available.

Slip Torque

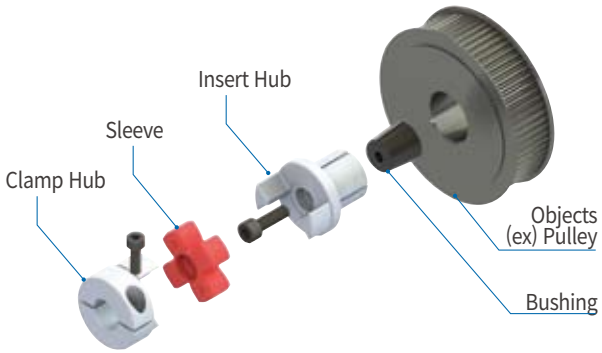
- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operating torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when a different kind of fastening screw is used (body material or surface treatment). Therefore, we recommend you test under the same conditions before mounting.

Model	Max. Torque (N.m) RD Sleeve	Slip Torque (N.m) by Inner Diameter (d_1, d_2)																		
		12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	55
SJC-55T	150	65	65	80	80	100	105	125	125	125	130									
SJC-65T	360			100	110	120	130	150	200	240	250	260	270	280	290	300				
SJC-80T	760			150	160	180	190	210	330	350	380	400	450	540	540	580	600	620		
SJC-100T	1200							420	450	480	500	530	590	650	700	700	700	700	700	700

SJC SERIES

Jaw Coupling

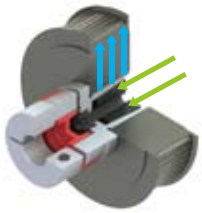
Shaft-insertion



Features of SJC-I Series

- Easy attachment to various hub types e.g. Pulleys, Gears, Sprockets, or Hollow shafts
- Space-saving design
- Simple clamping methods by tightening a single bolt
- Self-centering function by the taper structure
- Various types of coupling hubs (e.g. Side-clamp, Set-screw) can be combined

Principles



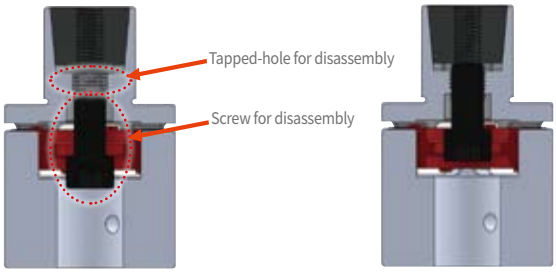
- Bushing and Insert hub are tightly coupled by the thrust of fastening screws.
- And then the insert part gets spread outward due to the taper structure and clamped into the inner diameter on the other side.

Dimensions

Model	Coupling hub OD	Shaft-insertion hub OD
SJC-25I□	25mm	10mm
SJC□-30I□	30mm	12mm
SJC□-40I□	40mm	20mm
SJC-55I□	55mm	25mm
SJC-65I□	65mm	35mm

※ OD: Outer Diameter
※ Please contact Sung-il Customer Service team for non-standard Inserted hub OD products.

How to Disassemble



① Please refer to the below table.

Model	Fastening screw	Screw for disassembly
SJC-25I	M3	M4
SJC-30I	M4	M5
SJC-40I	M6	M8
SJC-55I	M8	M10
SJC-65I	M10	M12

② After removing fastening screws, insert a screw for disassembly and fasten it into the tapped-hole for disassembly. And then, bushing comes out being disassembled by thrust of the screw.

HOW TO ORDER

Shaft-insertion x Side-clamp

SJC	-	65	IC	-	RD	-	35	I	x	25	C	W	K8
Model		OD(D) size	Clamping Methods		Sleeve		Shaft-insertion hub: OD(D2) size	Shaft-insertion		Side-clamp hub: ID(d1) size	Side-clamp	분리	Keyway (K)

Shaft-insertion x Set-screw

SJC	-	65	IS	-	RD	-	35	I	x	25	S	K8
Model		OD(D) size	Clamping Methods		Sleeve		Shaft-insertion hub: OD(D2) size	인서트표기		Set-screw hub: ID(d1) size	Set-screw	Keyway (K)

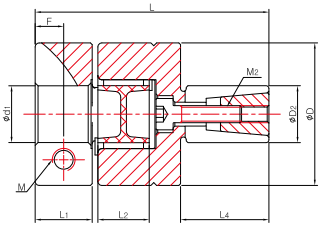
Shaft-insertion x Taper-ring

SJC	-	65	IT	-	RD	-	35	I	x	25	T
Model		OD(D) size	Clamping Methods		Sleeve		Shaft-insertion hub: OD(D2) size	인서트표기		Taper-ring hub: ID(d1) size	Taper-ring

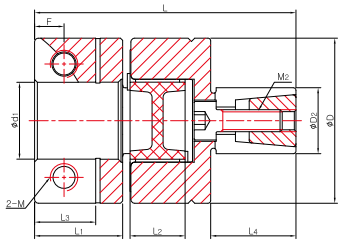
SJC SERIES

Jaw Coupling

Shaft-insertion x Side-clamp



Size : 25IC – A-30IC



Size : B-30IC – 65IC

Dimensions / Performance

Model	Size (±0.3mm)								Screw		Screw (Shaft-insertion)		Permissible Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment			Side-clamp Hub Split (W)
	D	L	L_1	L_2	L_3	F	L_4	D_2	Size	Fastening Torque (N·m)	Size	Fastening Torque (N·m)						Angular (°)	Parallel (mm)	End-play (mm)	
SJC-25IC-BL	25	41.2	10	9	-	5	15.5	10	M3	1.7	M3	1.2	7	13,000	4.7×10^{-6}	220	30	1	0.07	-0.4 ~ +1.0	X
SJC-25IC-GR	25	41.2	10	9	-	5	15.5	10	M3	1.7	M3	1.2	7	13,000	4.7×10^{-6}	260	30	1	0.07	-0.4 ~ +1.0	X
SJC-25IC-RD	25	41.2	10	9	-	5	15.5	10	M3	1.7	M3	1.2	7	13,000	4.7×10^{-6}	300	30	1	0.05	-0.4 ~ +1.0	X
SJCA-30IC-BL	30	42.8	11.3	10	-	5.6	15.5	12	M4	3.5	M4	2.5	7.5	10,000	9.3×10^{-6}	170	46	1	0.08	-0.4 ~ +1.0	X
SJCA-30IC-GR	30	42.8	11.3	10	-	5.6	15.5	12	M4	3.5	M4	2.5	7.5	10,000	9.3×10^{-6}	200	46	1	0.08	-0.4 ~ +1.0	X
SJCA-30IC-RD	30	42.8	11.3	10	-	5.6	15.5	12	M4	3.5	M4	2.5	7.5	10,000	9.3×10^{-6}	220	46	1	0.06	-0.4 ~ +1.0	X
SJCB-30IC-BL	30	47.5	16	10	11.1	5.4	15.5	12	M4	3.5	M4	2.5	7.5	10,000	1.2×10^{-5}	170	52	1	0.08	-0.4 ~ +1.0	○
SJCB-30IC-GR	30	47.5	16	10	11.1	5.4	15.5	12	M4	3.5	M4	2.5	7.5	10,000	1.2×10^{-5}	200	52	1	0.08	-0.4 ~ +1.0	○
SJCB-30IC-RD	30	47.5	16	10	11.1	5.4	15.5	12	M4	3.5	M4	2.5	7.5	10,000	1.2×10^{-5}	220	52	1	0.06	-0.4 ~ +1.0	○
SJCA-40IC-BL	40	63.5	19.5	12	13.6	6.8	21	20	M5	8	M6	10	35	8,500	5.6×10^{-5}	1,500	136	1	0.06	-0.5 ~ +1.2	○
SJCA-40IC-GR	40	63.5	19.5	12	13.6	6.8	21	20	M5	8	M6	10	35	8,500	5.6×10^{-5}	1,600	136	1	0.06	-0.5 ~ +1.2	○
SJCA-40IC-RD	40	63.5	19.5	12	13.6	6.8	21	20	M5	8	M6	10	35	8,500	5.6×10^{-5}	1,750	136	1	0.04	-0.5 ~ +1.2	○
SJCB-40IC-BL	40	69	25	12	16.5	8.4	21	20	M5	8	M6	10	35	8,500	7.4×10^{-5}	1,500	151	1	0.06	-0.5 ~ +1.2	○
SJCB-40IC-GR	40	69	25	12	16.5	8.4	21	20	M5	8	M6	10	35	8,500	7.4×10^{-5}	1,600	151	1	0.06	-0.5 ~ +1.2	○
SJCB-40IC-RD	40	69	25	12	16.5	8.4	21	20	M5	8	M6	10	35	8,500	7.4×10^{-5}	1,750	151	1	0.04	-0.5 ~ +1.2	○
SJC-55IC-BL	55	86.3	30.3	14	21	10.5	31	25	M6	13	M8	20	80	6,500	1.2×10^{-4}	3,000	310	1	0.09	-0.5 ~ +1.4	○
SJC-55IC-GR	55	86.3	30.3	14	21	10.5	31	25	M6	13	M8	20	80	6,500	1.2×10^{-4}	4,500	310	1	0.09	-0.5 ~ +1.4	○
SJC-55IC-RD	55	86.3	30.3	14	21	10.5	31	25	M6	13	M8	20	80	6,500	1.2×10^{-4}	6,000	310	1	0.06	-0.5 ~ +1.4	○
SJC-65IC-BL	65	99.3	35.3	15	25.6	12.5	37	35	M8	30	M10	40	180	5,500	1.7×10^{-4}	6,500	400	1	0.1	-0.6 ~ +1.5	○
SJC-65IC-GR	65	99.3	35.3	15	25.6	12.5	37	35	M8	30	M10	40	180	5,500	1.7×10^{-4}	8,500	400	1	0.1	-0.6 ~ +1.5	○
SJC-65IC-RD	65	99.3	35.3	15	25.6	12.5	37	35	M8	30	M10	40	180	5,500	1.7×10^{-4}	10,000	400	1	0.08	-0.6 ~ +1.5	○

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.
- It's not allowed to have other complementary options to enhance clamping force such as keyway etc. on the shaft-insertion hub. This is the reason why the above-mentioned permissible torques are based on the slip torque on the shaft-insertion hub.
- Please contact Sung-il Customer Service team for non-standard Inserted hub OD(D_2) products.
- Please refer to previous pages for the standard ID range of Side-clamp hubs.
- It's also possible to assemble with space-saving side-clamp, set-screw and taper-ring hubs.