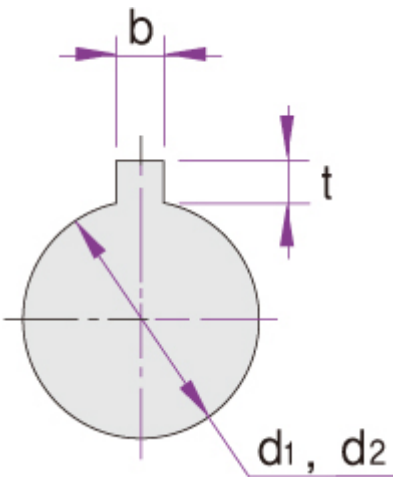


# Customer-friendly Services

## Keyway on Coupling Hubs

Shaft(Bore) Diameter	Keyway Dimension				Nominal Size
d <sub>1</sub> , d <sub>2</sub>	b(mm)		t(mm)		(b x h)
	Size	Tolerance	Size	Tolerance	
Ø8 ~ Ø10	3	±0.0125	1.4	+0.1 0	3 x 3
Ø10 ~ Ø12	4	±0.015	1.8		4 x 4
Ø12 ~ Ø17	5		2.3		5 x 5
Ø17 ~ Ø22	6		2.8		6 x 6
Ø22 ~ Ø30	8	±0.018	3.3	+0.2 0	8 x 7
Ø30 ~ Ø38	10				10 x 8
Ø38 ~ Ø44	12	±0.0215	12 x 8		
Ø44 ~ Ø50	14		14 x 9		
Ø50 ~ Ø58	16		16 x 10		
Ø58 ~ Ø65	18		18 x 11		



The location of keyway on a coupling hub is determined by the standard product design of Sung-il Machinery. If you need a keyway in a different location, please discuss with our Customer Support team in advance.

If you need to specify the length of keyway (axial direction) or tolerance for height and depth of keyway, please discuss with our Customer Support team in advance.

Keyways can be applied on the following clamping methods of couplings (Side-clamp, Side-clamp Hub Split and Set-screw (except SFC series))

※ HOW TO ORDER

SHR

-

33

CW

-

10

W

K3

x

14

W

K4

Model

Size (OD)

Clamping Methods

ID(d<sub>1</sub>)

Side-clamp Hub Split

keyway

ID(d<sub>2</sub>)

Side-clamp Hub Split

keyway

Please indicate K(b=width) next to ID(d<sub>1</sub>)

In general, t(depth) of a keyway is automatically determined by b(width). However if a keyway with special dimension is required, please discuss with our Customer Support team in advance. (For example, K3 will be provided with b(3mm) & t(1.4mm) unless there is a special remark.)

## Non-standard Inner Diameter (ID) Available

Case 1 : Non-standard Inner Diameter(ID) Re-boring : Between standard min. ID and standard max. ID

Model	Standard Inner Diameter (d <sub>1</sub> , d <sub>2</sub> ) (mm)																							
	10	11	12	12.7	14	15	15.875	16	17	18	19	20	22	24	25	26	28	30	32	35	40	45	50	
SDCS-54C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
SDCS-64C			●	●	●	●	●	●	●	●	●	●	●	●	●	●★	●★	●★	●★					

Model	Standard Inner Diameter (d <sub>1</sub> , d <sub>2</sub> ) (mm)																						
	10	11	12	12.7	14	15	15.875	16	17	18	19	20	22	24	25	26	28	30	32	35	40	45	50
SDS-80C						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			

Any Integer Inner Diameter(ID) between standard min. ID and standard max. ID could be provided even they are not indicated on the standard ID table.

For example, ID:Ø27 on SDCS-64C is available as Ø27 is within the range between Ø12(min.) and Ø32(max.)

### Case 2 : Non-standard Inner Diameter(ID) Re-boring : Smaller than standard min.ID and bigger than standard max.ID

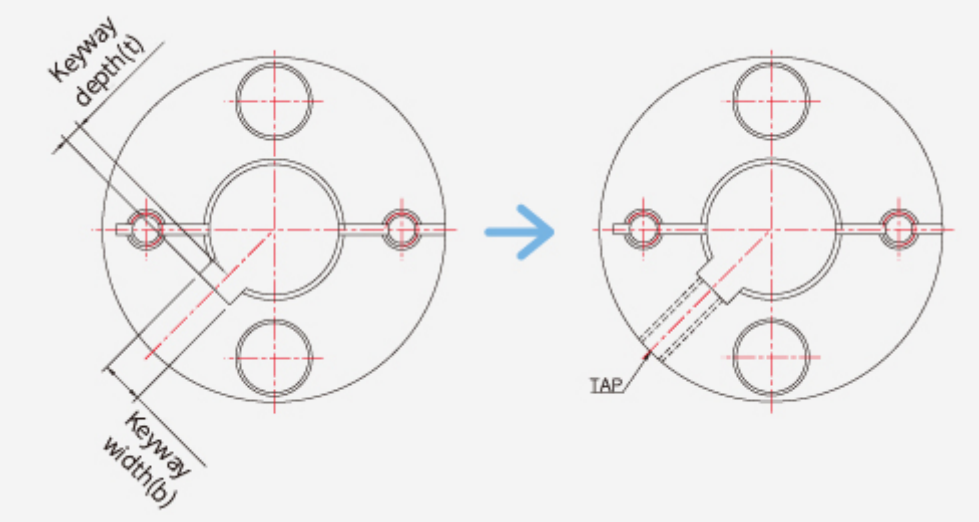
We Sung-il team will always try our best to supply goods at the customer’s best convenience. Please firstly ask our Customer Support team to check whether it is structurally possible.

In the case of non-standard ID bigger than max.ID, please be aware that durability would get decreased from the ordinary performance of coupling.

### Case 3 : Special tolerance for Inner Diameter

The standard bore tolerance of coupling is H7. However, please ask our Customer Support team to check if you require a special bore tolerance other than H7.

## Additional Tapped-holes Parts



Sung-il Machinery provides additional tapped holes on coupling hubs upon the request.

This additional tapped holes are usually requested when there are keyway used on a coupling.

For this service, please contact Sung-il Customer Service team prior to firm order placement, in order to discuss accurate location of the tapped hole and the screw thread.

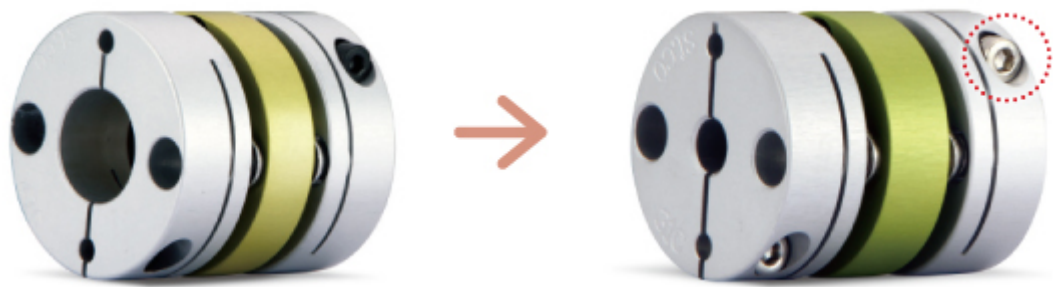
## Parts with Alternative Material Options

Sung-il Machinery provides alternative material options for Coupling parts.  
 (FAS screws: to fasten a shaft into a coupling & ASS screws: to assemble a coupling itself)

- 1) Stainless Steel (SUSXM7)
- 2) SCM435 with surface treatment -Electroless Nickel Plating

Caution: Slip torque would become lower if the body material or surface treatment of screws are changed from the standard (SCM435, Black Oxide) version.

### Case 1 : Stainless Steel



**SDWA - 26C - 6 x 8 - SUS/ASS**

Please add the additional coding  
“SUS/ASS” next to the model no.

Standard : SCM435 (Black Oxide)  
Option(1) : SUSXM7 (Stainless Steel)

Case 2 : Surface treatment - Electroless Nickel Plating



**SRG - 25C - 6 x 8 - NI/ASS**

Please add the additional coding  
“NI/ASS” next to the model no.

Standard : SCM435 (Black Oxide)  
Option(2) : SCM435  
(with surface treatment -Electroless Nickel Plating)

※ Standard Product Models with the Parts made of Stainless Steel or Electroless Nickel Plating

Model	Size (OD)	Body Material	Surface Treatment	Screws
SRBS	All Sizes	Stainless Steel	-	SUSXM7
SRBMS	All Sizes	Stainless Steel	-	SUSXM7
SDSS	All Sizes	Stainless Steel	Electrolytic Polishing	SUSXM7
SDWS	All Sizes	Stainless Steel	Electrolytic Polishing	SUSXM7
SHDS-NI	126, 144	Steel	Electroless Nickel Plating	SCM435 (Electroless Nickel Plating)
SHDW-NI	126, 144	Steel	Electroless Nickel Plating	SCM435 (Electroless Nickel Plating)
SJC	120, 135, 160	Steel	Electroless Nickel Plating	SCM435 (Electroless Nickel Plating)
SOHMP	All Sizes	High Strength Aluminum Alloy	-	SUSXM7
SOHV	All Sizes	Stainless Steel	Electrolytic Polishing	SUSXM7

Side-clamp Hub Split Option

Side-clamp Hub Split Option is available for certain sizes

Please refer to the below table to check the coupling types which this option is available, and you can refer to “HOW TO ORDER” and “Dimensions / Performance” tables for more specific information.

Coupling types											
SHR	SDS	SDW	SD(SUS)	SHD	SJC	SOH	SRB	SRBS	SRG	SCJ	SFC
High performance Rubber	Disk			High Torque Disk	Jaw	Oldham	Radial Beam		Rigid	Cross Joint	Urethane Flexible
O	△	△	△	O	△	△	X	X	O	X	X

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

