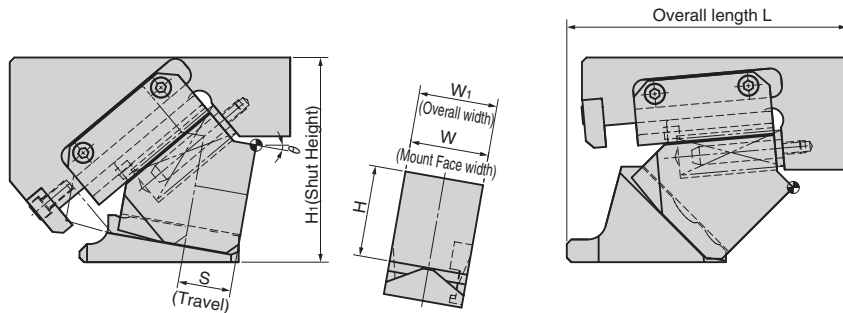


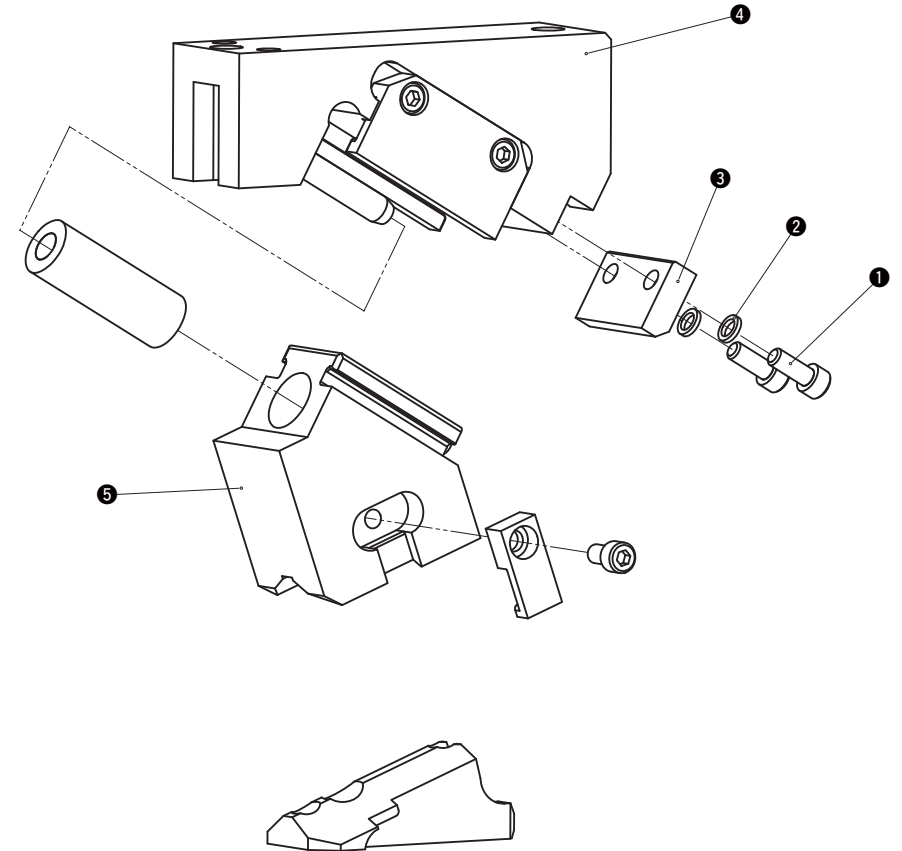
- The travel is about 1.5 times as long as the same model (SUCD)'s travel.
- Compact design with the mount width of 52 mm and shut height of 135 mm
- Automatic alignment mechanism of the V-shaped guide.
- Standard Working Force(one million strokes)14.7kN, Allowable Working Force 29.4kN(300,000strokes).
- Available angle is 0° to 50°at increments of 5°.
- ISO springs are used.

SLSD Specifications



Mount Surface		Woring Angle θ	Travel S	Working Force kN (tonf)		Unit Size			Spring Force N(kgf)	
W	H			Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	W ₁	H ₁	L	Initial Load	Final Load
		00	30.2						0.0	
		05	31.9							
		10	35.0							
		15	38.2							
		20	41.5							
52	60	25	45.0	14.7 (1.5)	29.4 (3.0)	52	135	185	19.6 (2.0)	901.6 (91.9)
		30	48.8							
		35	53.1							
		40	57.9							
		45	54.9							
		50	60.7					192	137.2 (14.0)	

SLSD Structure and Assembly / Disassembly



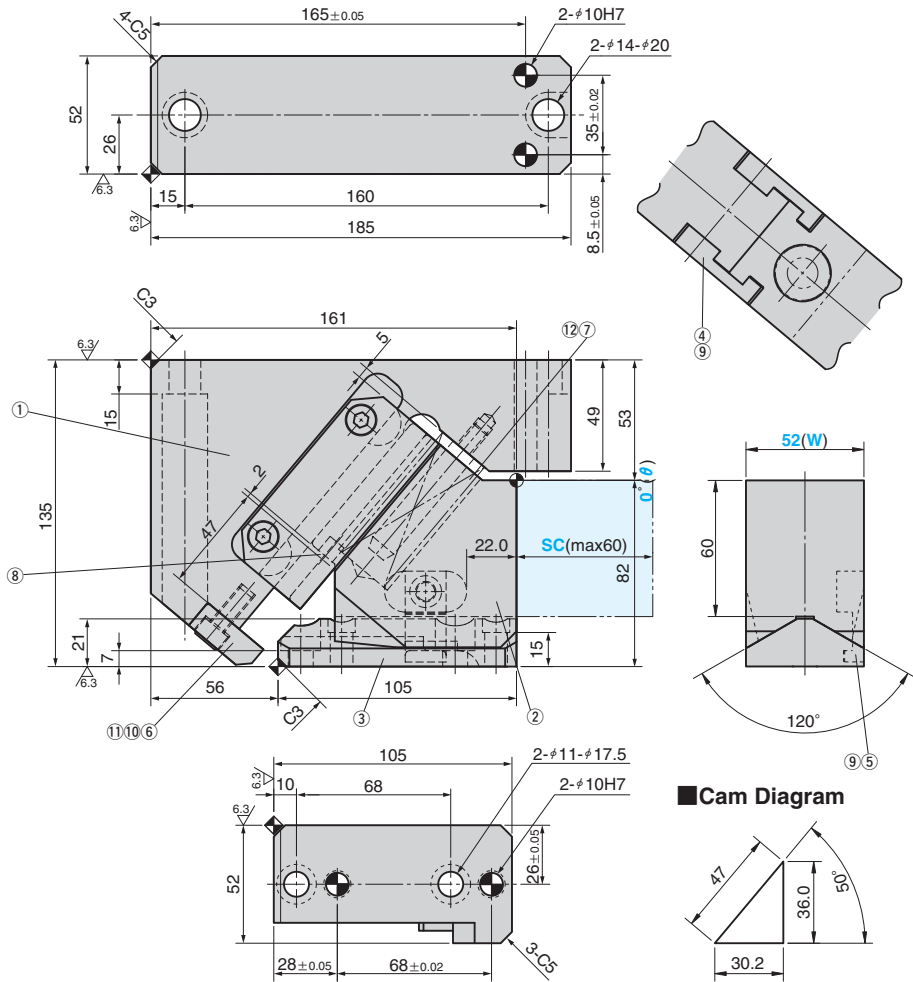
Disassembly method of SLSD52

- 1) Remove hexagon socket head bolt (1) and washer (2), and remove stopper plate (3).
- 2) Pull and remove cam slider (5) from cam holder (4) to the rear.

Assembly method of SLSD52

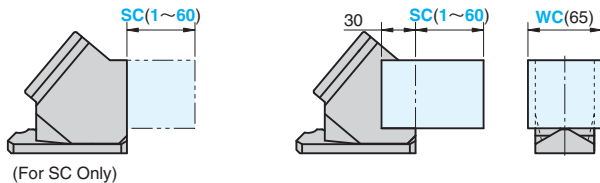
- 1) Assemble components in the reverse order of disassembly.
 - Make sure that there is no foreign matter on the sliding area before assembly.
 - The clearance between the cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly.
 - When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided.

SLSD52-00



Cam Diagram

SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
30.2	14.7 (1.5)	29.4 (3.0)	0	901.6 (91.9)	6.4	SLSD	52	00

Order **Catalog No.** **(W)** - **(θ)**
SLSD 52 - 00

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

Order **SLSD52-00-SC40**
SLSD52-00-SC20-WC

Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

Space for removing

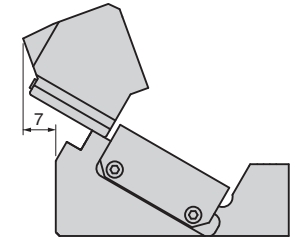
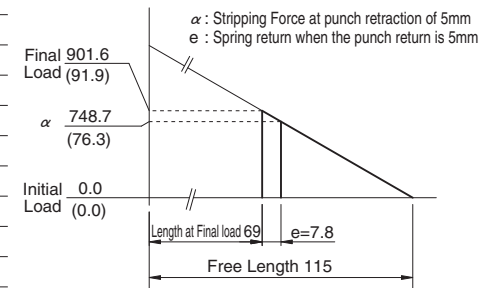


Table of Components

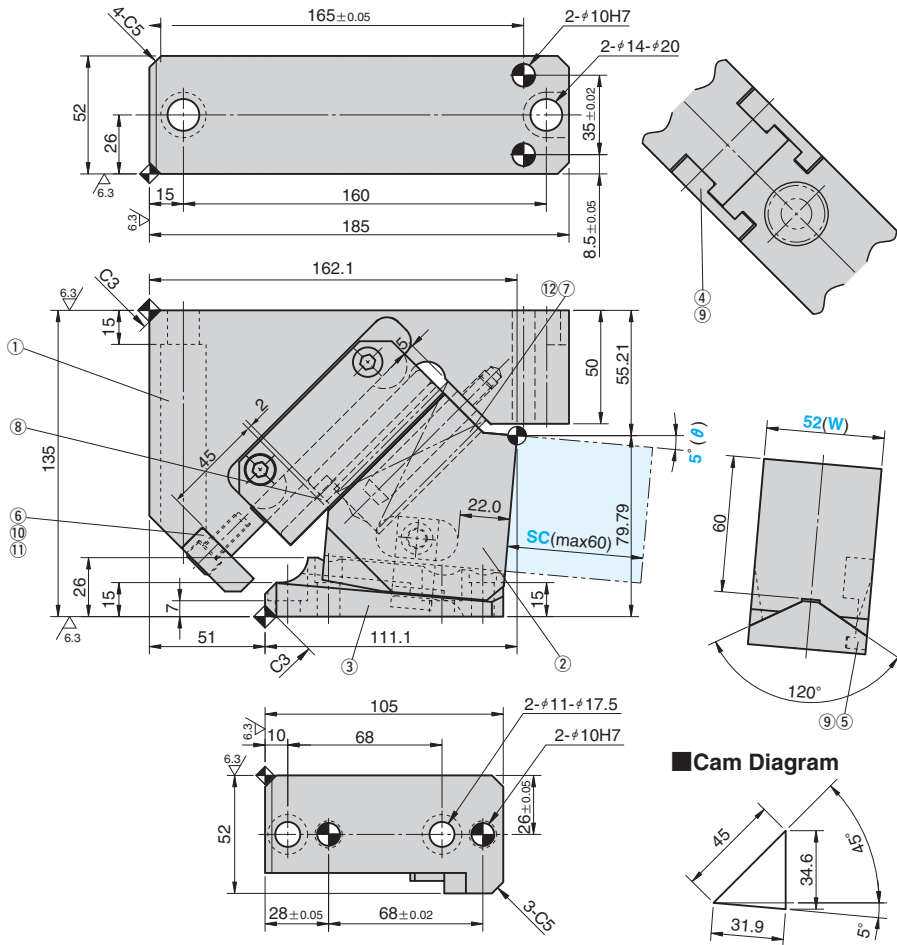
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

Spring Diagram (Stripping Force at punch retraction of 5mm)

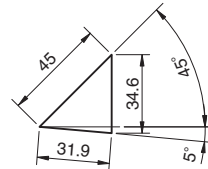
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



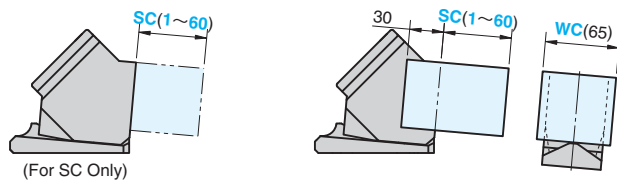
SLSD52-05



Cam Diagram



SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
31.9	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	6.1	SLSD	52	05



Order

Catalog No. **SLSD** (W) **52** - (θ) **05**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.



Order

SLSD52-05-SC40
SLSD52-05-SC20-WC



Refer to

page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

Space for removing

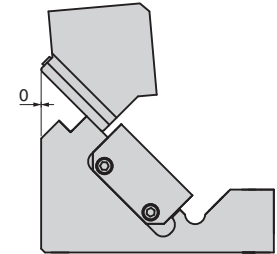
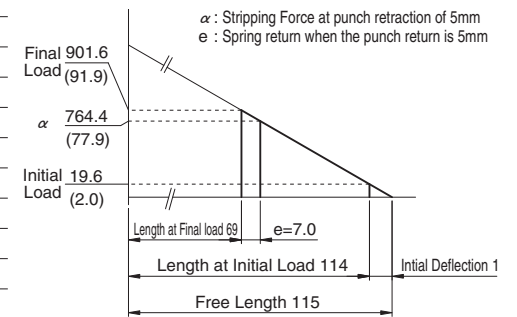


Table of Components

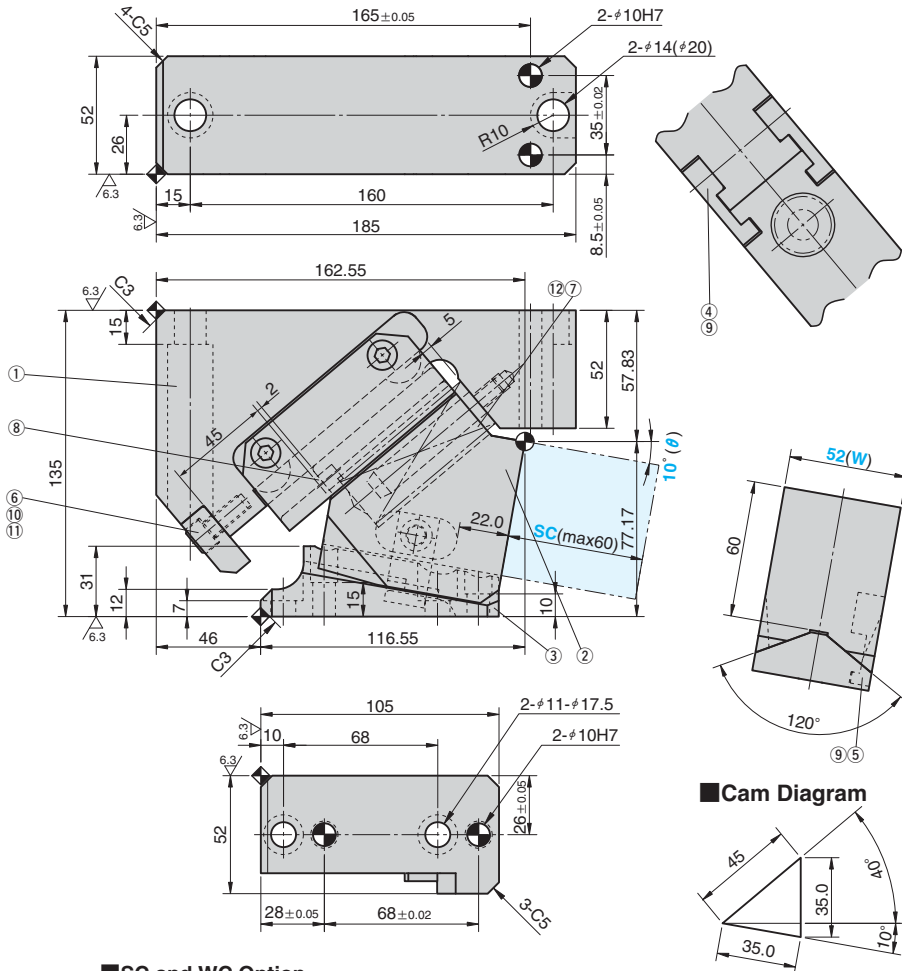
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

Spring Diagram (Stripping Force at punch retraction of 5mm)

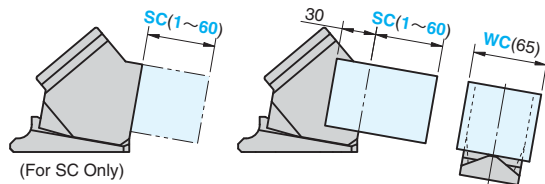
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52 - 10



■ SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
35.0	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	6.0	SLSD	52	10



Order

Catalog No. **SLSD** (W) **52** - (θ) **10**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.



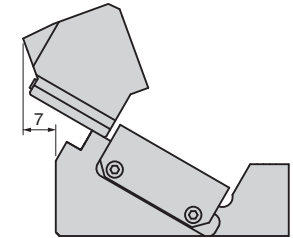
Order

SLSD52-10-SC40
SLSD52-10-SC20-WC



Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

■ Space for removing

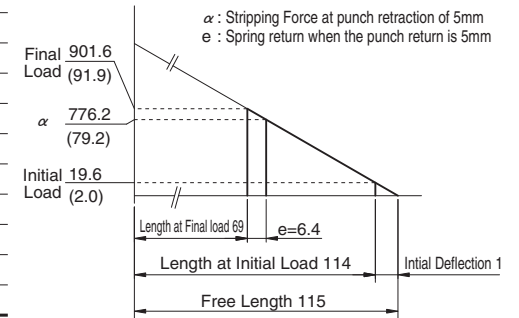


■ Table of Components

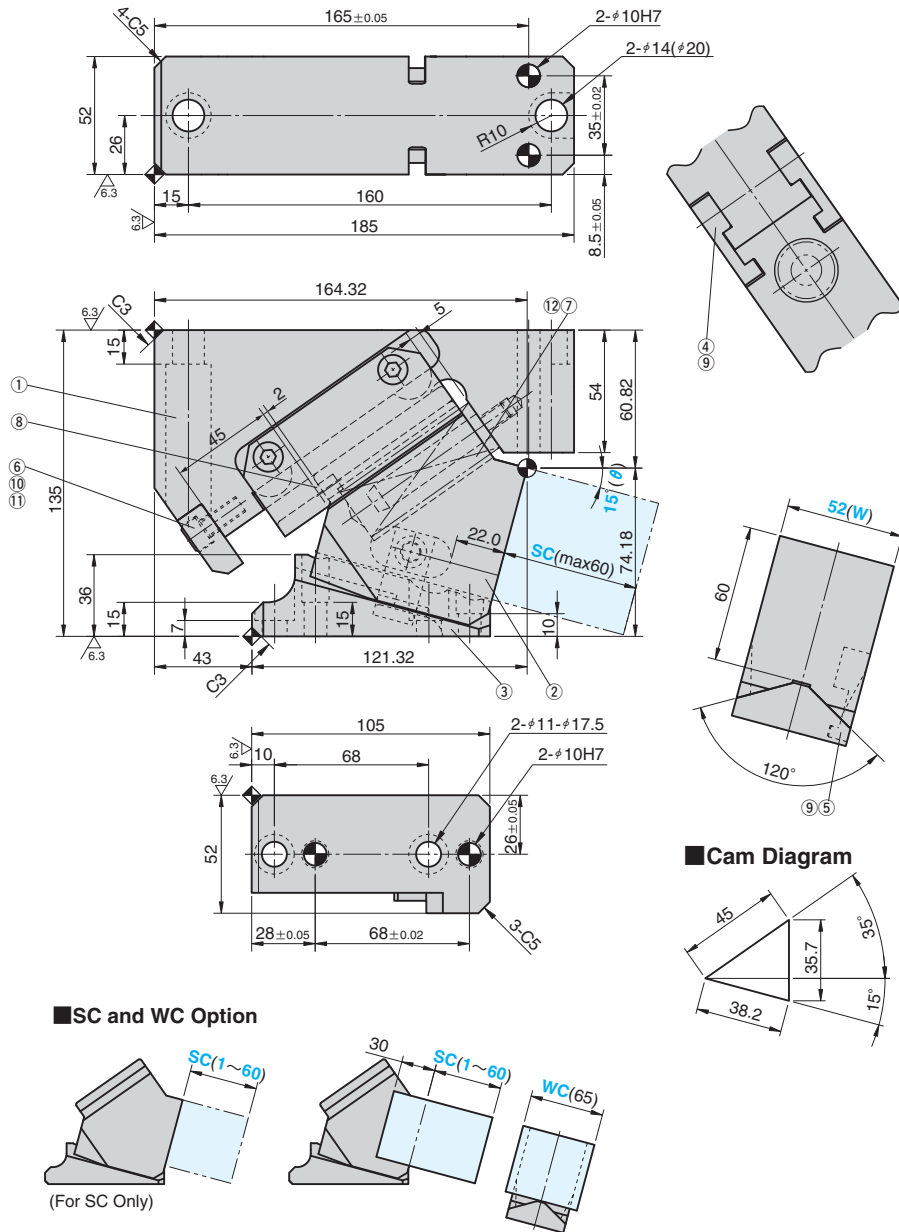
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

■ Spring Diagram (Stripping Force at punch retraction of 5mm)

- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52 - 15



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
38.2	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	5.8	SLSD	52	15

Order **Catalog No.** **(W)** - **(θ)**
SLSD 52 - 15

Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

Order **SLSD52-15-SC40**
SLSD52-15-SC20-WC

Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

Space for removing

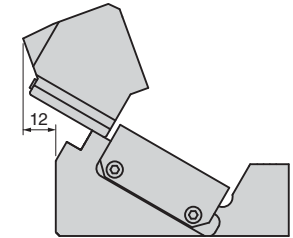
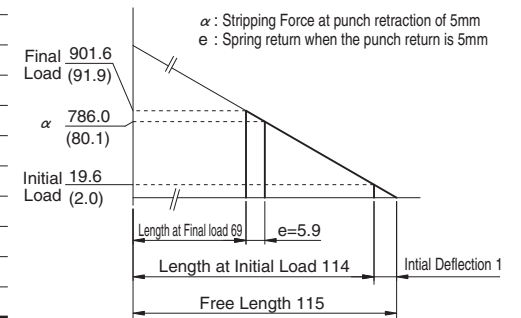


Table of Components

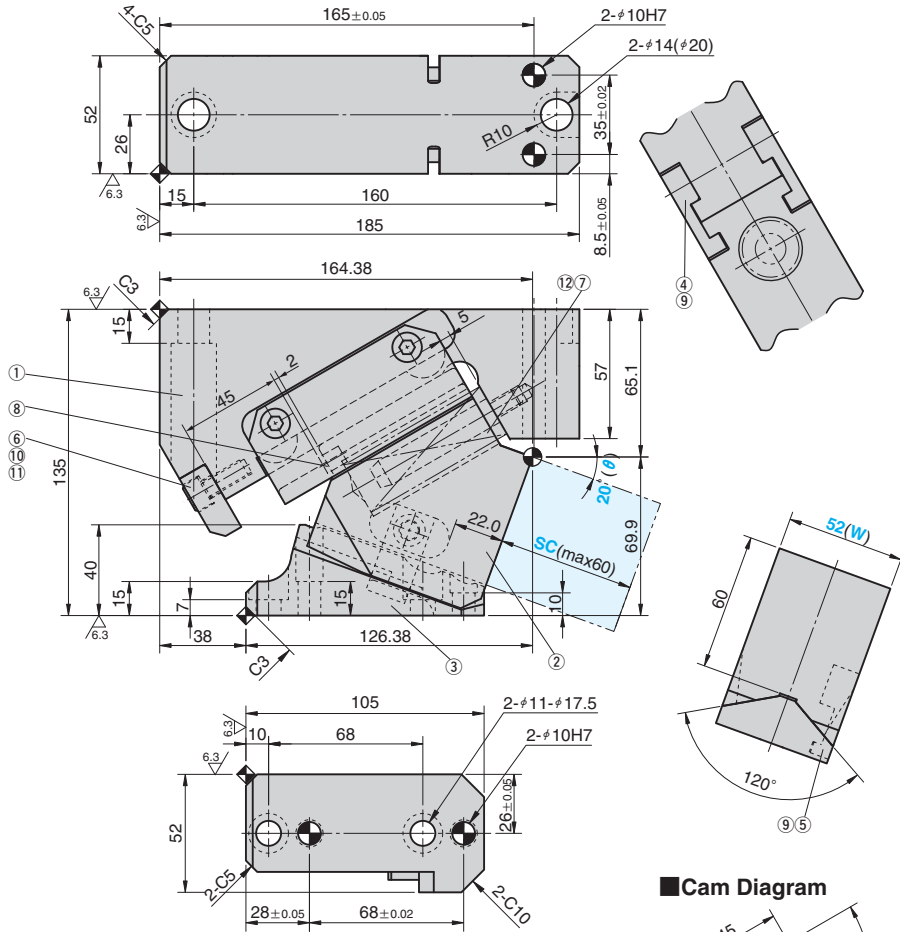
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

Spring Diagram (Stripping Force at punch retraction of 5mm)

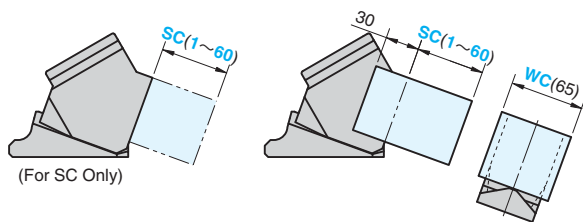
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



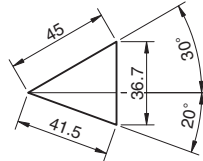
SLSD52 - 20



■ SC and WC Option



■ Cam Diagram



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
41.5	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	5.7	SLSD	52	20



Order

Catalog No. **SLSD** (W) **52** - (θ) **20**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.



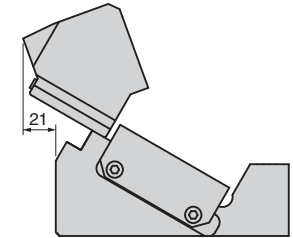
Order

SLSD52-20-SC40
SLSD52-20-SC20-WC



Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

■ Space for removing

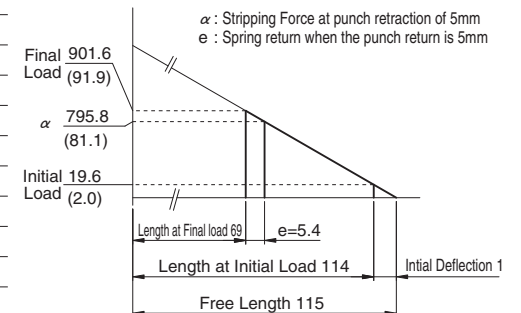


■ Table of Components

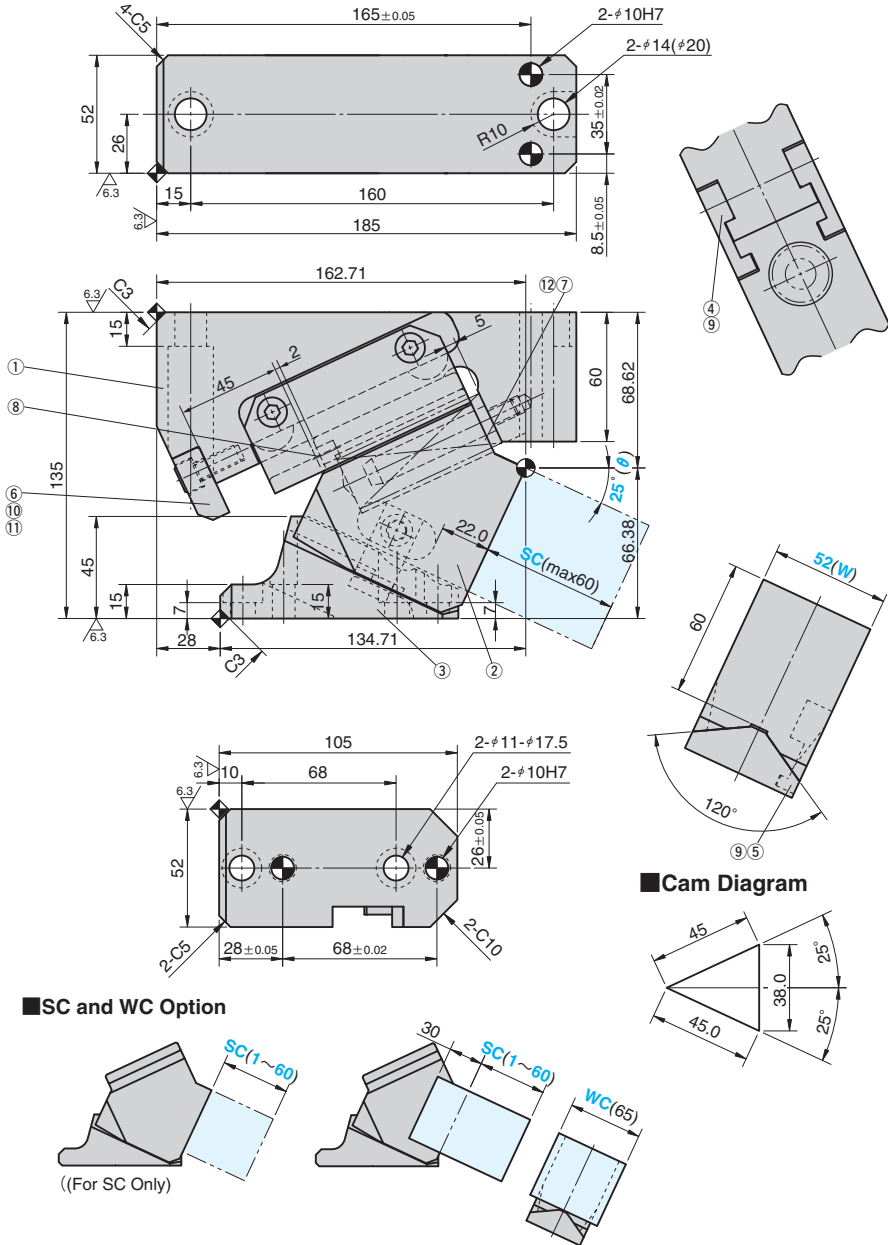
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

■ Spring Diagram (Stripping Force at punch retraction of 5mm)

- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52 - 25



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
45.0	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	5.5	SLSD	52	25

Order **Catalog No.** **(W)** - **(θ)**
SLSD 52 - 25

Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

Order **SLSD52-25-SC40**
SLSD52-25-SC20-WC

Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

Space for removing

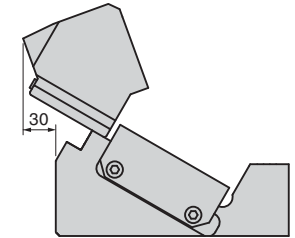
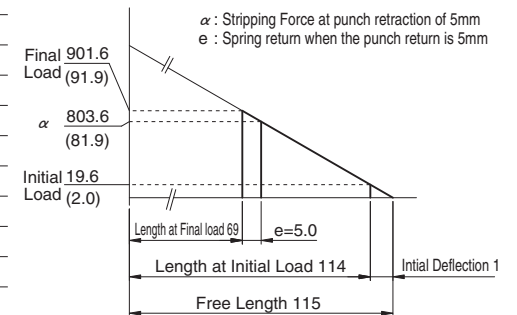


Table of Components

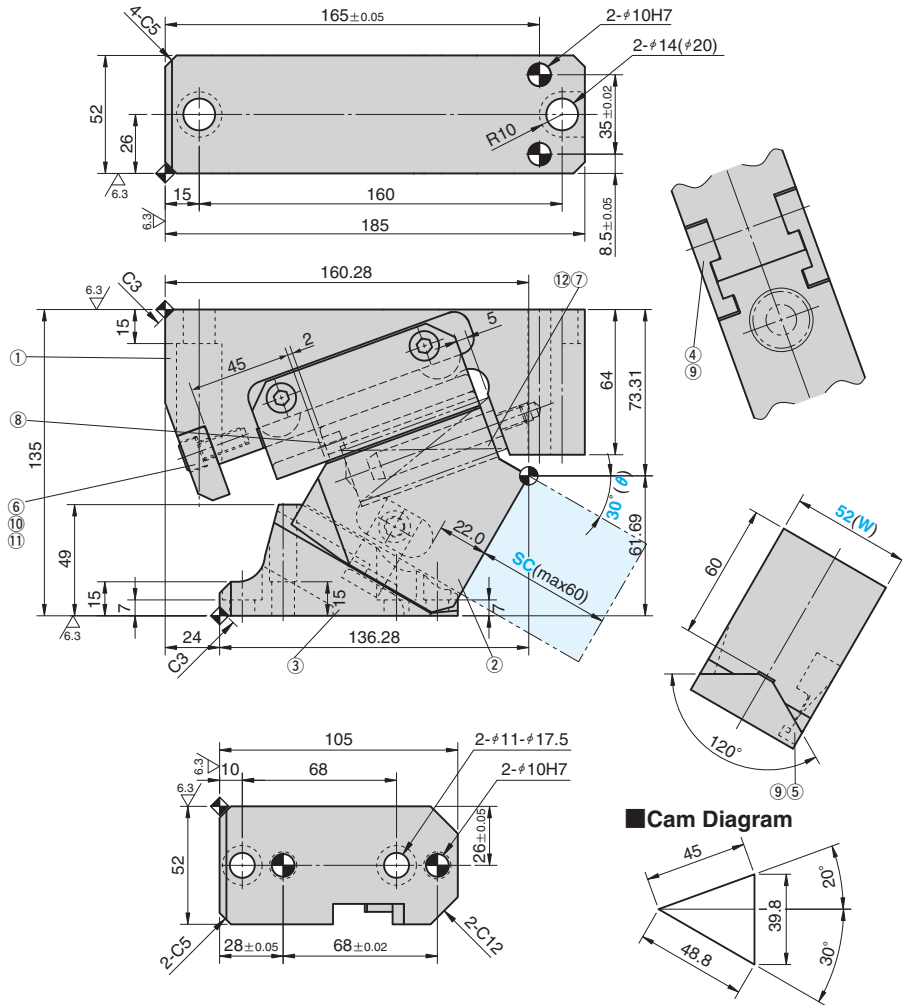
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

Spring Diagram (Stripping Force at punch retraction of 5mm)

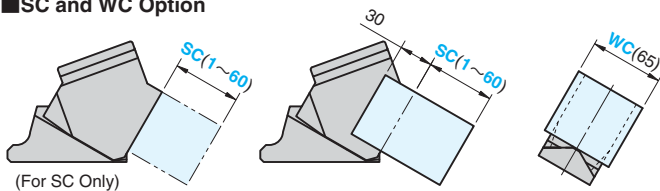
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52 - 30



■ SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
48.8	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	5.5	SLSD	52	30



Order

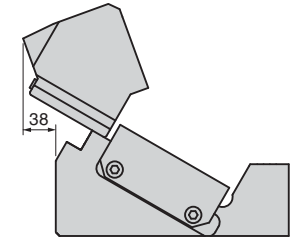
Catalog No. **SLSD** (W) **52** - (θ) **30**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

■ Space for removing



Order

SLSD52-30-SC40
SLSD52-30-SC20-WC



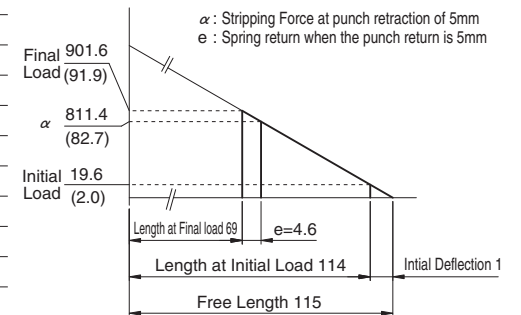
Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

■ Table of Components

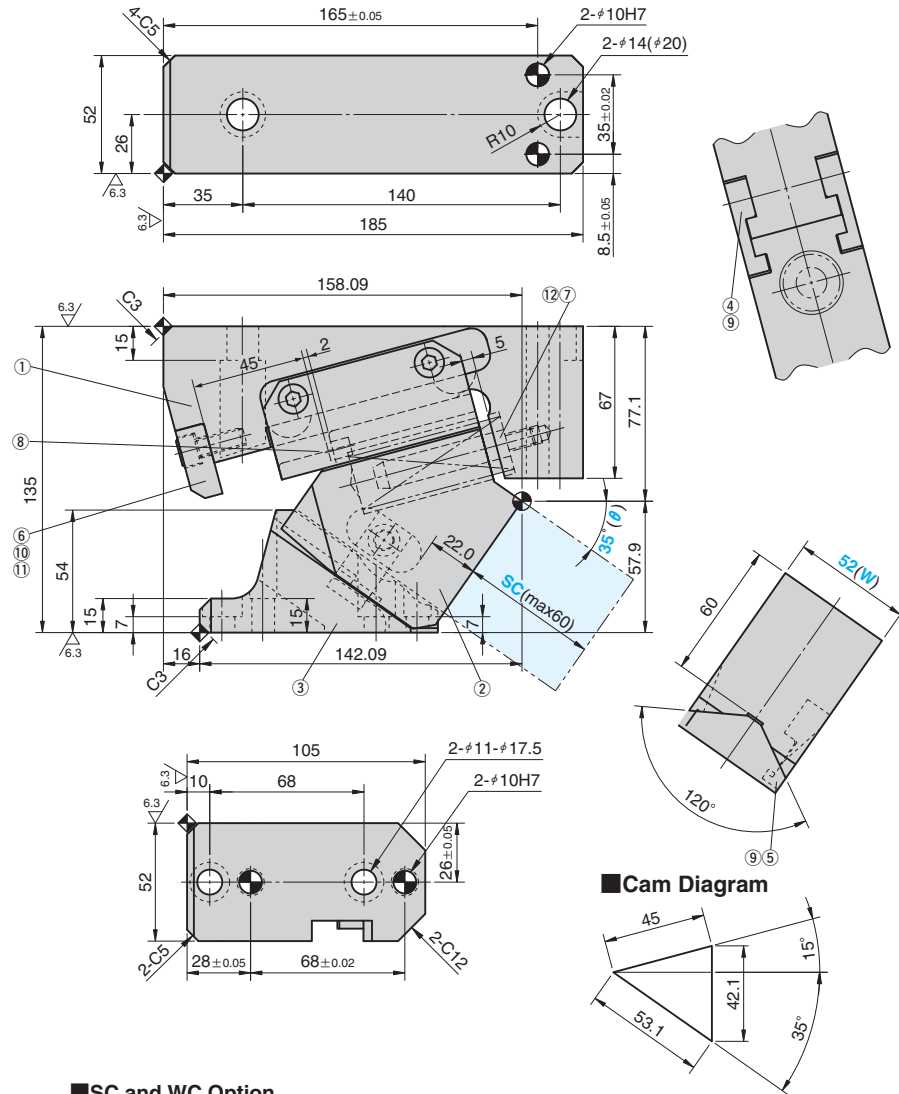
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

■ Spring Diagram (Stripping Force at punch retraction of 5mm)

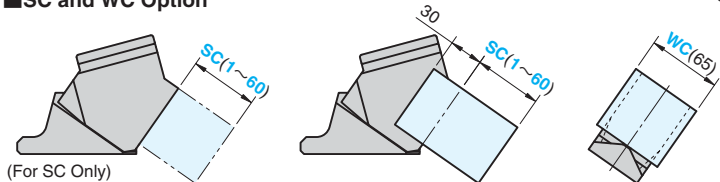
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52 - 35



■ SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
53.1	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	5.4	SLSD	52	35



Order

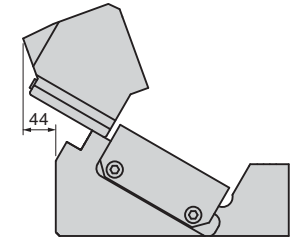
Catalog No. **SLSD** (W) **52** - (θ) **35**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

■ Space for removing



Order

SLSD52-35-SC40
SLSD52-35-SC20-WC



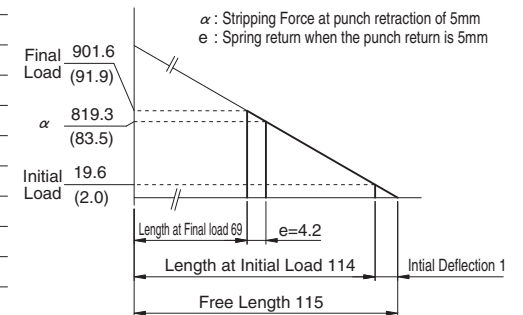
Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

■ Table of Components

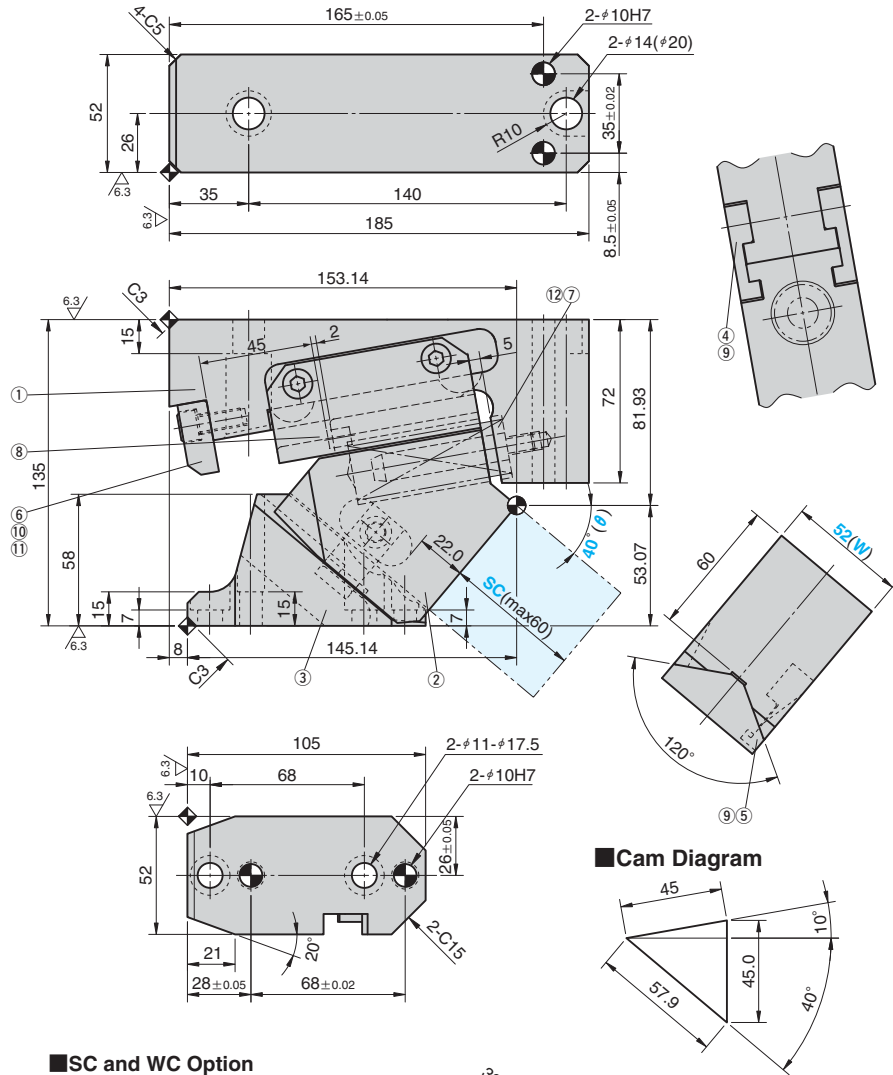
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

■ Spring Diagram (Stripping Force at punch retraction of 5mm)

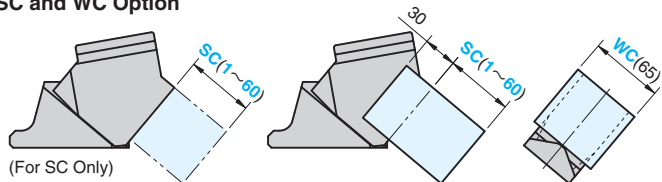
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52 - 40



■ SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
57.9	14.7 (1.5)	29.4 (3.0)	19.6 (2.0)	901.6 (91.9)	5.5	SLSD	52	40



Order

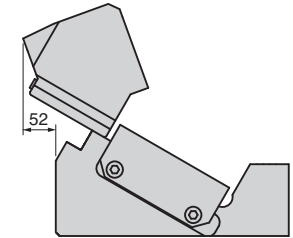
Catalog No. **SLSD** (W) **52** - (θ) **40**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

■ Space for removing



Order

SLSD52-40-SC40
SLSD52-40-SC20-WC



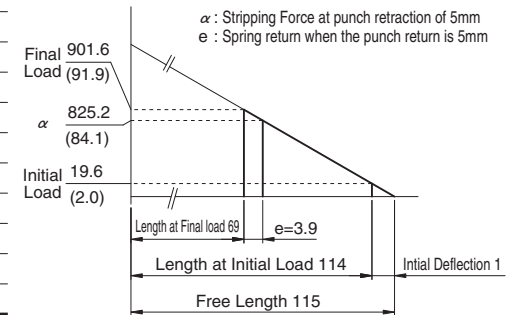
Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

■ Table of Components

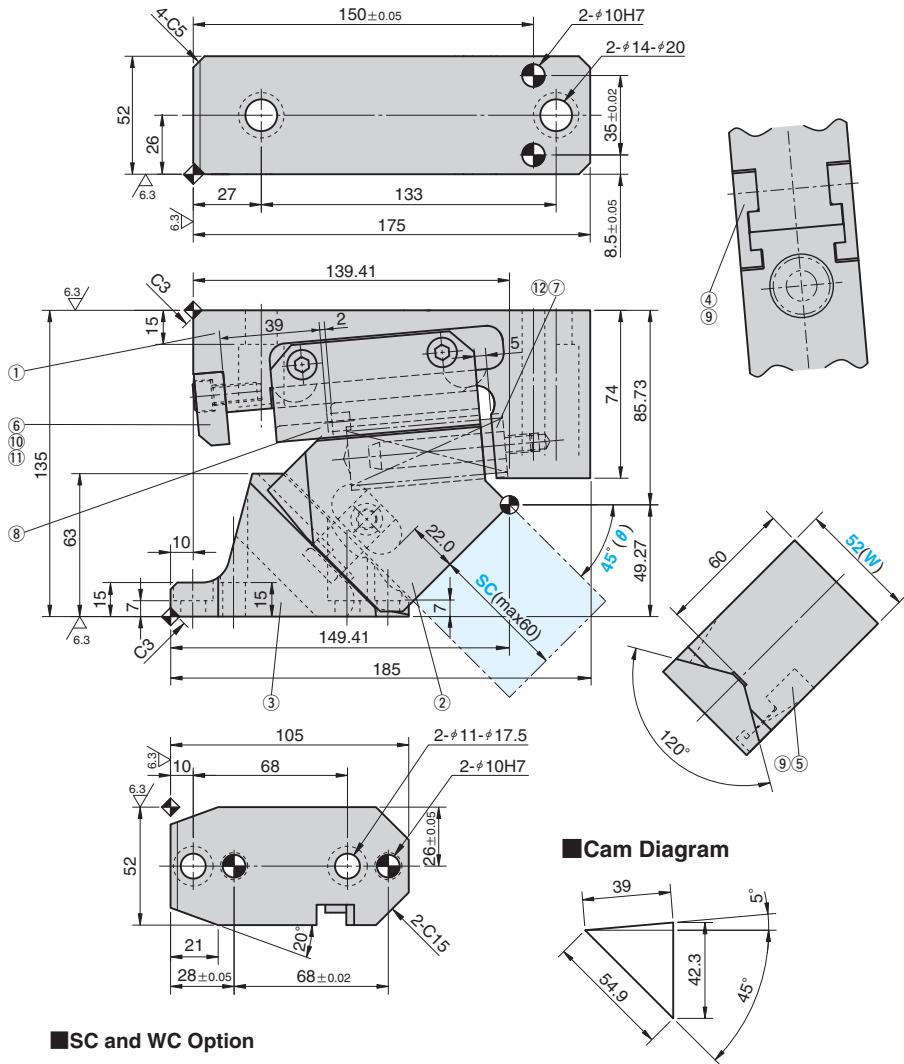
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

■ Spring Diagram (Stripping Force at punch retraction of 5mm)

- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)

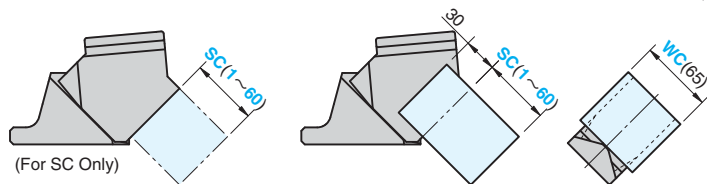


SLSD52 - 45



Cam Diagram

SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
54.9	14.7 (1.5)	29.4 (3.0)	137.2 (14.0)	901.6 (91.9)	5.3	SLSD	52	45



Order

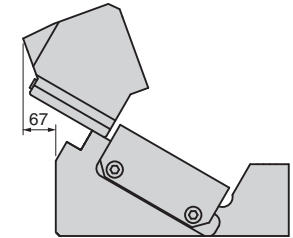
Catalog No. **SLSD** (W) **52** - (θ) **45**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

Space for removing



Order

SLSD52-45-SC40
SLSD52-45-SC20-WC



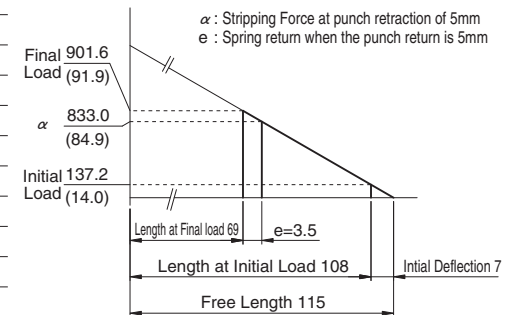
Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

Table of Components

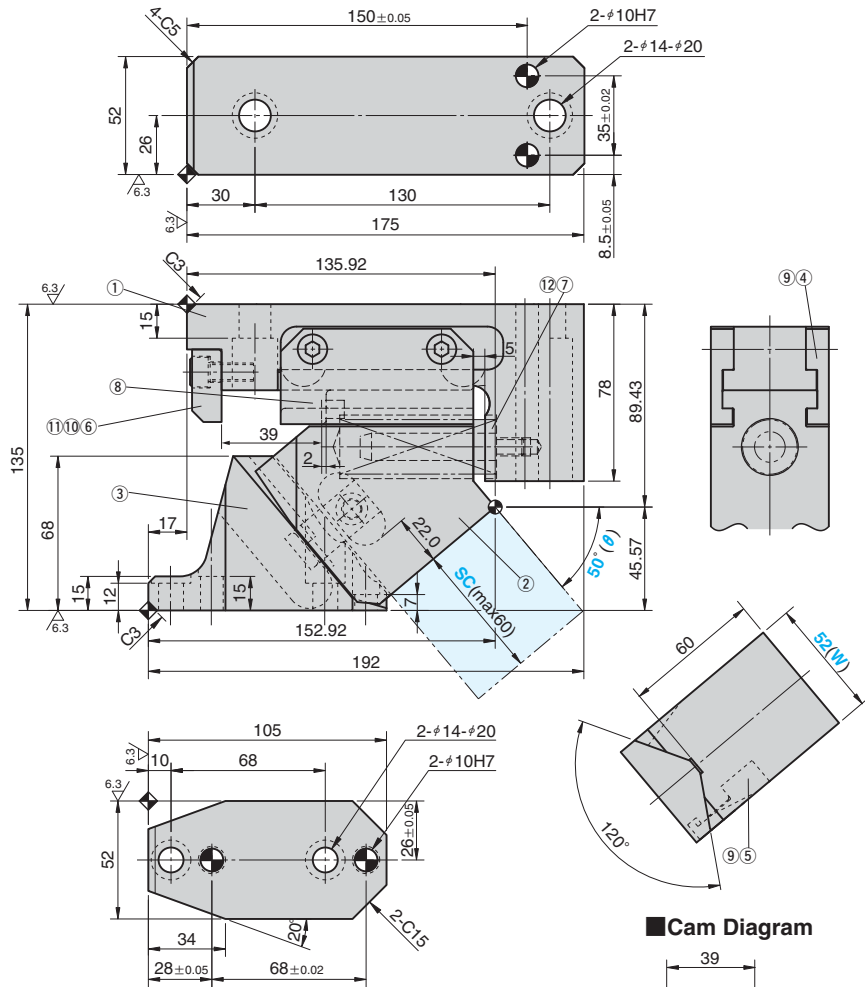
No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

Spring Diagram (Stripping Force at punch retraction of 5mm)

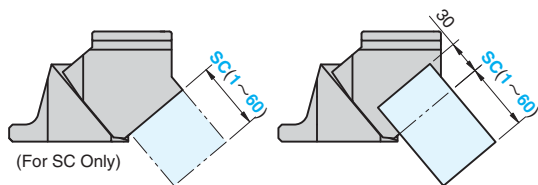
- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)



SLSD52-50



■ SC and WC Option



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load				
60.7	14.7 (1.5)	29.4 (3.0)	137.2 (14.0)	901.6 (91.9)	5.4	SLSD	52	50



Order

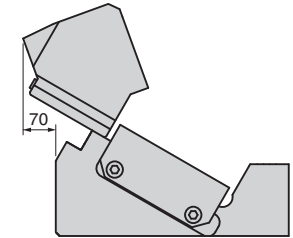
Catalog No. **SLSD** (W) **52** - (θ) **50**



Option

Option Code	Specification
SC	The mount surface is extended forward in the range of 1 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 65 mm.

■ Space for removing



Order

SLSD52-50-SC40
SLSD52-50-SC20-WC



Refer to page 551 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finished hole) for retainer.

■ Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250 with Graphite
③	Cam Driver	1	SF700
④	Slide Keeper	2	S45C with Graphite
⑤	Positive Return Follower	1	S45C(1045)
⑥	Hexagon Socket Head Bolt	2	SCM435 M8×20
⑦	Coil Spring	1	TJL25-115
⑧	Stopper	2	Urethane
⑨	Hexagon Socket Head Bolt	5	SCM435 M8×15
⑩	Stopper Plate	1	SS400(1020)
⑪	Spring Washer	2	M8
⑫	Spring Guide Pin	1	S45C(1045)

■ Spring Diagram (Stripping Force at punch retraction of 5mm)

- Spring Used TJL25-115(1 piece)
- Spring Constant 19.6N/mm(2.00kgf/mm)

