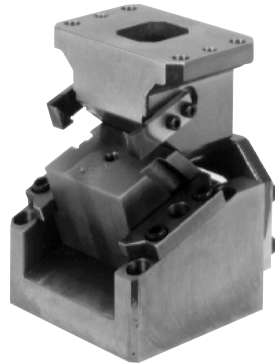


SKCA [Overview]

Product Information

- Mount face widths 52, 65, 100, 150, 200, 250, and 300 mm.
- Working angles from 0° to 20° in 5° increments for 65, 100, and 150 mm.
- Mount face widths of 52, 200, 250, and 300 mm are available with an angle of 0°.
- Gas Spring is available in 65, 100, 150, and 200 mm width and 0°.
- The Box-type holder provides high rigidity.



Gas Spring Specifications

Mount face		Working Angle	Travel	Working Force [kN (tonf)]		Spring Force N (kgf)
W	H			Standard Working Force 1,000,000 strokes	Allowable Working Force 300,000 strokes	
65	70	00	38	19.6 (2.0)	39.2 (4.0)	667 (69.1)
100	100	00	40	29.4 (3.0)	58.8 (6.0)	1111 (113.4)
150	100	00	40	58.8 (6.0)	88.2 (9.0)	2051 (209.3)
200	110	00	40	78.4 (8.0)	117.6 (12.0)	2733 (278.9)

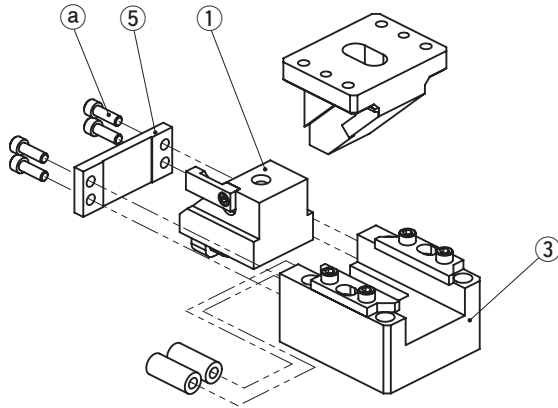
Coil Spring Specifications

Mount face		Working Angle	Travel	Working Force [kN (tonf)]	
W	H			Standard Working Force 1,000,000 strokes	Allowable Working Force 300,000 strokes
52	65	00	25	14.7 (1.5)	29.4 (3.0)
			40		
			60		
65	70	00	40	19.6 (2.0)	39.2 (4.0)
			60		
		05	45		
			70		
		10	45		
			70		
100	100	00	40	29.4 (3.0)	58.8 (6.0)
			60		
		05	45		
			70		
150	100	10	45	39.2 (4.0)	78.4 (8.0)
			70		
		15	45		
			70		
		20	45		
			70		
200	110	00	40	78.4 (8.0)	117.6 (12.0)
			60		
		05	45		
			70		
		10	45		
			70		
250	130	00	40	98.0 (10.0)	147.0 (15.0)
			60		
		05	45		
			70		
300	150	00	40	117.6 (12.0)	176.4 (18.0)
			60		

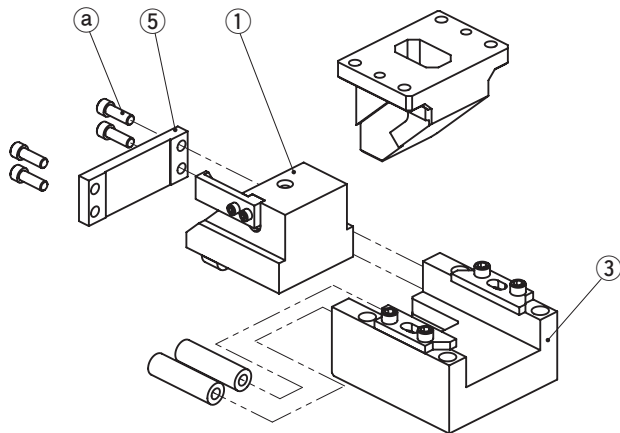
SKCA [Overview]

Product Information

■SKCA52, 65 Assembly Instructions



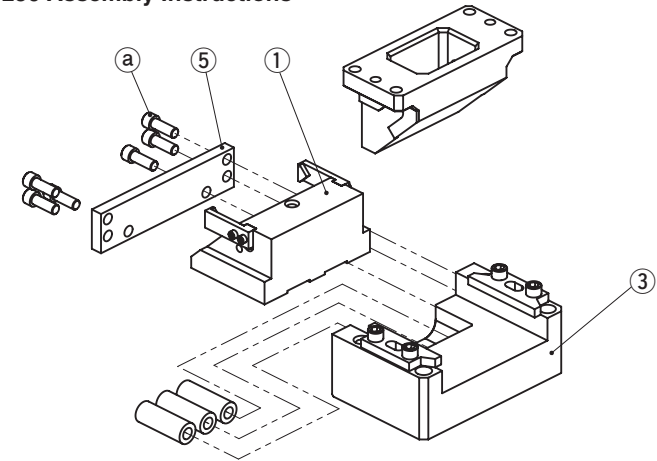
■SKCA100, 150 Assembly Instructions



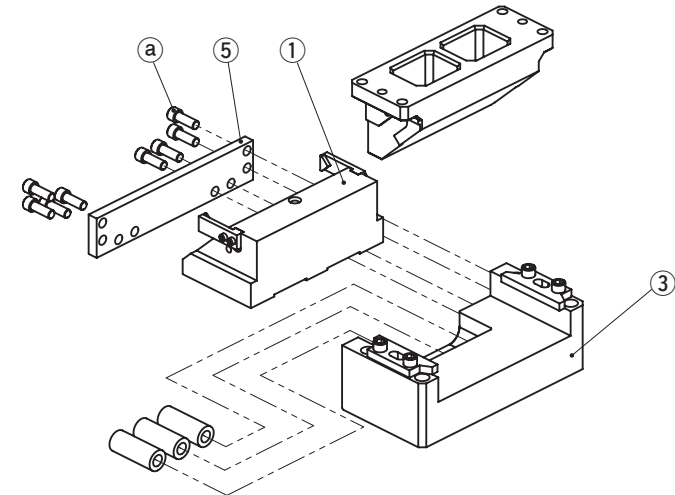
● Disassembly

- 1) Remove Hexagon Socket Head Bolts (a), to pull out Stopper Plate (5).
- 2) Pull out and remove Cam Slider (1) from Cam Holder (3) to the rear.

■SKCA200, 250 Assembly Instructions



■SKCA300 Assembly Instructions



● Assembly

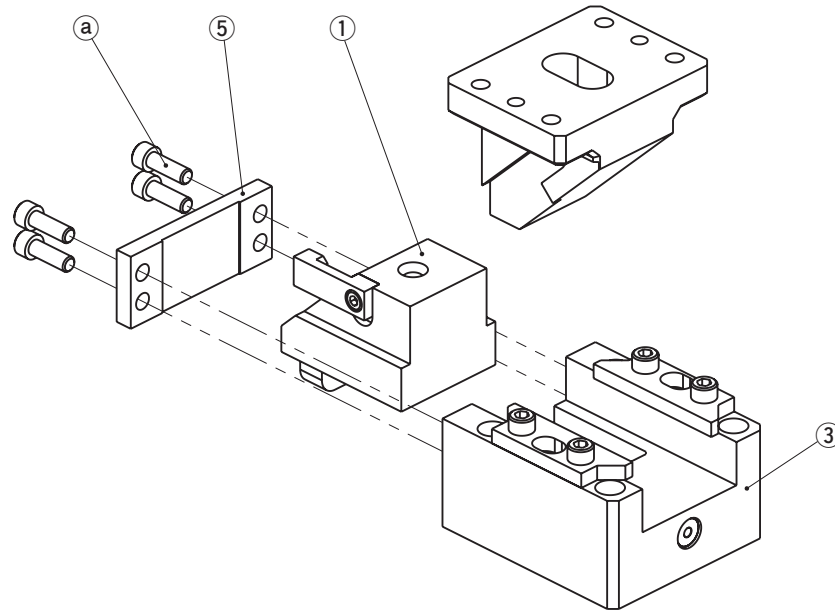
Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.

SKCA [Overview]

Product Information

■SKCA65, 100, 150 Assembly Instructions (Gas Spring)



● Disassembly

- 1) Remove Hexagon Socket Head Bolts (a), to pull out Stopper Plate (5).
- 2) Pull out and remove Cam Slider (1) from Cam Holder (3) to the rear.

● Assembly

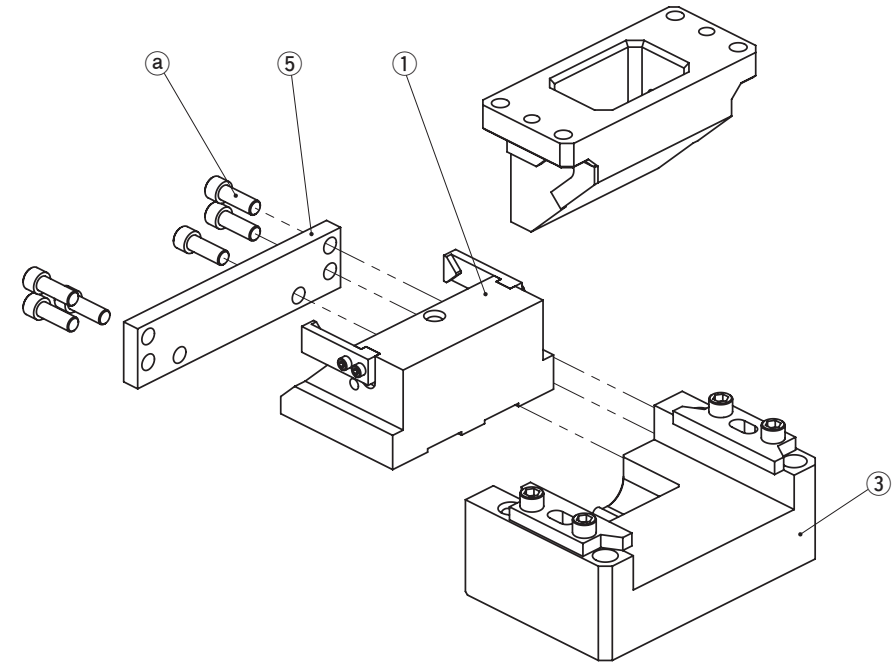
Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tightened to the recommended torque after assembly and disassembly.

Gas Spring

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

■SKCA200 Assembly Instructions (Gas Spring)



● Disassembly

- 1) Remove Hexagon Socket Head Bolts (a), to pull out Stopper Plate (5).
- 2) Pull out and remove Cam Slider (1) from Cam Holder (3) to the rear.

● Assembly

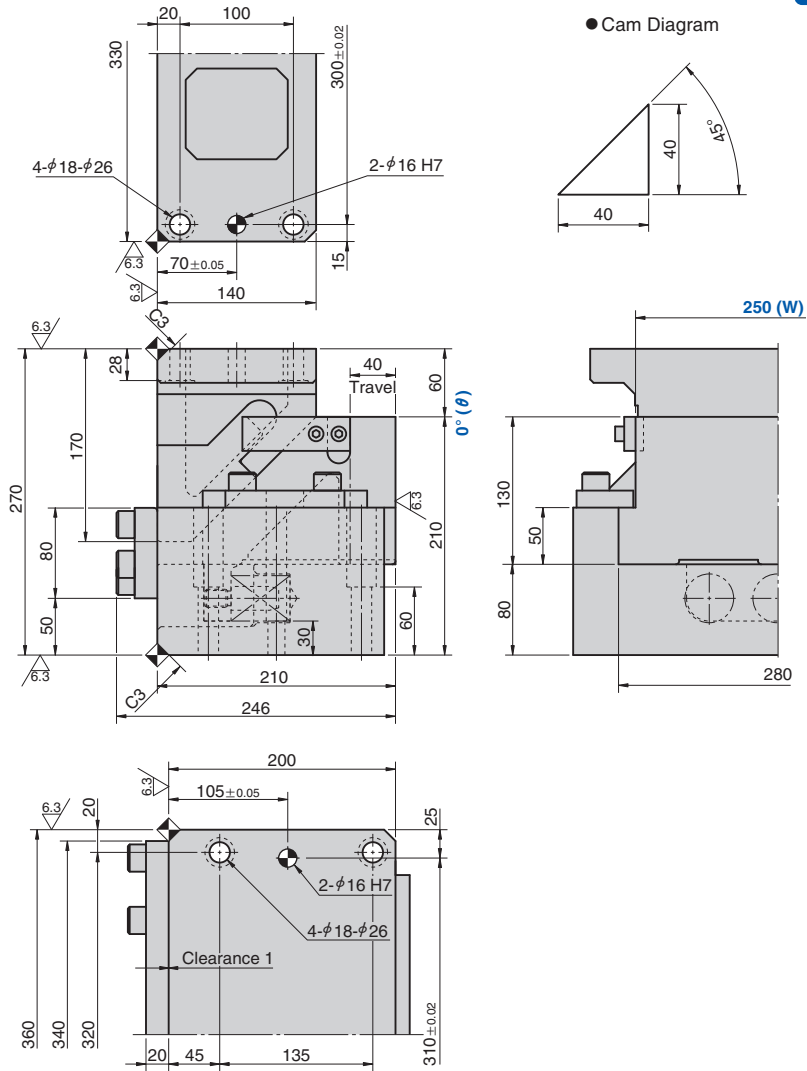
Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tightened to the recommended torque after assembly and disassembly.

Gas Spring

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

SKCA250-00-40



Working Force [kN (tonf)]		Spring Force N (kgf)		Cam Slider Weight kg	Total Weight kg	Catalog No.	W	θ	Travel S
Standard Working Force 1,000,000 strokes	Allowable Working Force 300,000 strokes	Initial Load	Final Load						
98.0 (10.0)	147.0 (15.0)	601.7 (61.4)	3610.1 (368.6)	33.4	97.0	SKCA	250	00	40



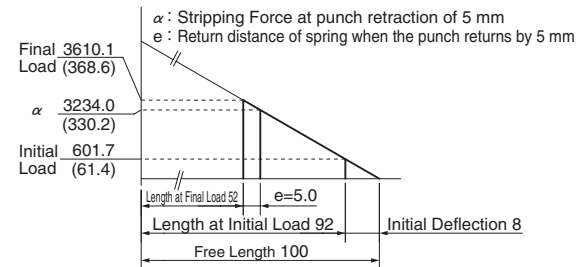
Catalog No. SKCA W 250 θ 00 S 40



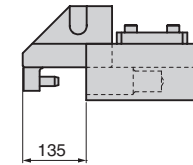
Refer to page 377 for the machining details of tapped holes and dowel holes for retainer mounting.

Spring Diagram

- Spring Model TF40-100 (3 pieces)
- Spring constant 25.07 N/mm (2.56 kgf/mm)
- Life expectancy of Coil Spring is approximately 300,000 strokes.

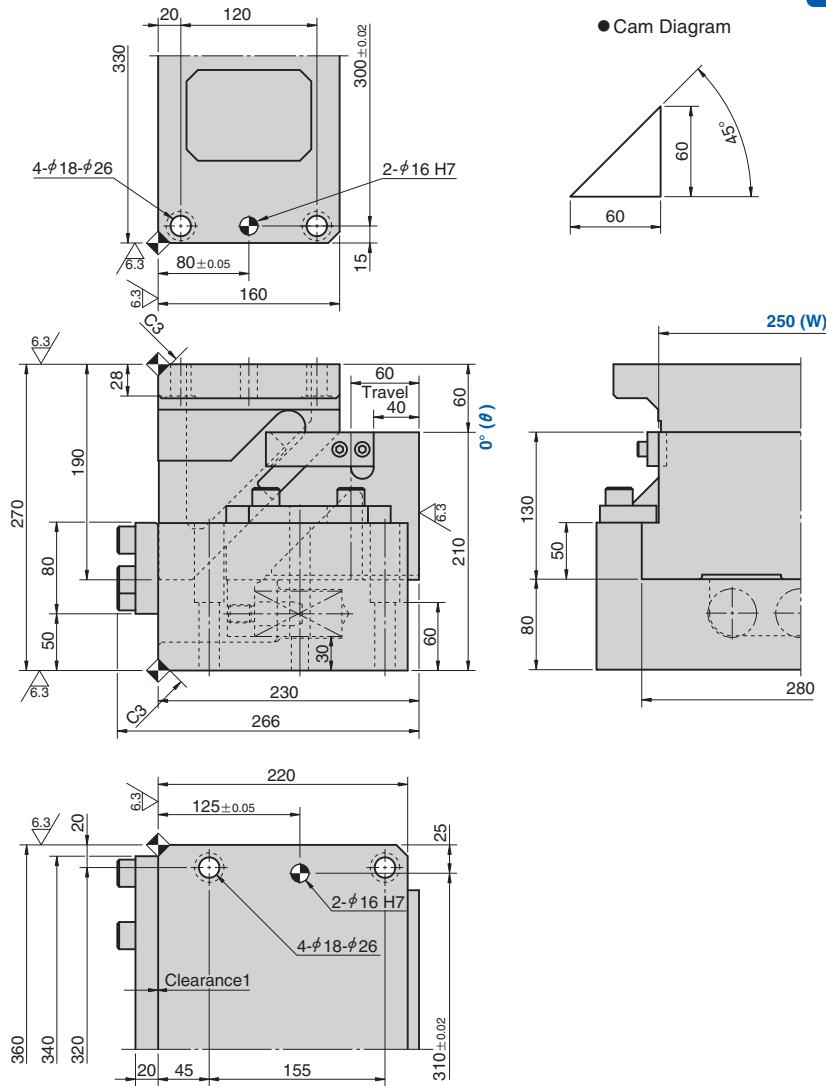


Rear Removal Space



Refer to page 1045 for Table of Components.

SKCA250-00-60



Working Force [kN (tonf)]		Spring Force N (kgf)		Cam Slider Weight kg	Total Weight kg	Catalog No.	W	θ	Travel S
Standard Working Force 1,000,000 strokes	Allowable Working Force 300,000 strokes	Initial Load	Final Load						
98.0 (10.0)	147.0 (15.0)	651.7 (66.3)	3659.4 (372.3)	33.4	105.3	SKCA	250	00	60



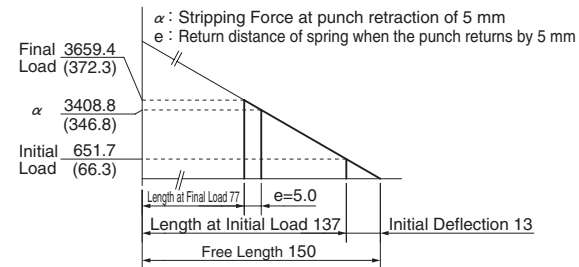
Order **Catalog No.** SKCA **W** 250 **θ** 00 **S** 60



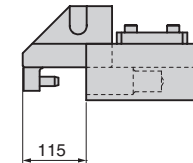
Option Refer to page 377 for the machining details of tapped holes and dowel holes for retainer mounting.

Spring Diagram

- Spring Model TF40-150 (3 pieces)
- Spring constant 16.71 N/mm (1.70 kgf/mm)
- Life expectancy of Coil Spring is approximately 300,000 strokes.



Rear Removal Space

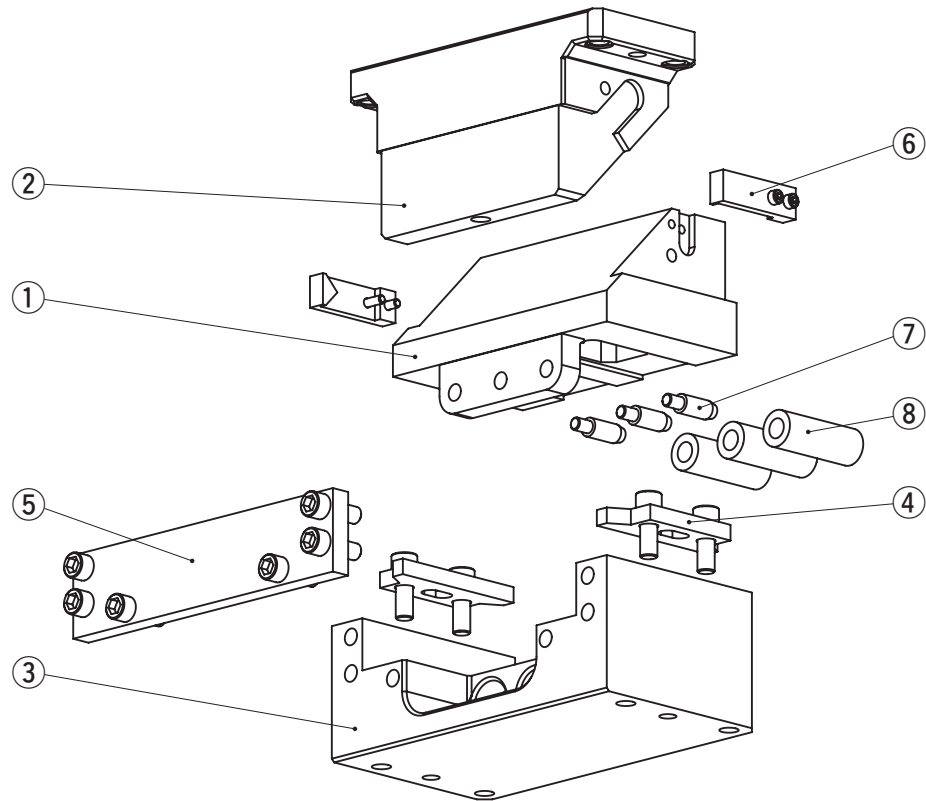


Refer to page 1045 for Table of Components.

SKCA [Table of Components]

Die Mounted Cam Unit

SKCA250



No.	Description	Qty	Material and Remark
1	Cam Slider	1	Cast Iron with Graphite
2	Cam Driver	1	Cast Iron with Graphite
3	Cam Holder	1	Cast Iron
4	Upper Plate	2	Copper Powder Sintered
5	Stopper Plate	1	Steel
6	Positive Return Follower	2	Steel
7	Spring Guide Pin	3	φ21x60
8	Coil Spring	3	TF40-100 40st
8	Coil Spring	3	TF40-150 60st

Bolts, nuts, dowels, and washers for assembly are not indicated.

Cam Units [Overview]

Information

■ Tapped Hole and Dowel Hole (Prepared Hole, Finish) Machining for Retainer Mounting

Instruction method for machining

Indicate the tapped hole diameter and the dowel hole (or prepared hole) diameter with the XY coordinates.

To indicate the coordinates

- The origin is positioned at the upper left corner of the mount face. (However, machining uses our machining datum as the reference.)

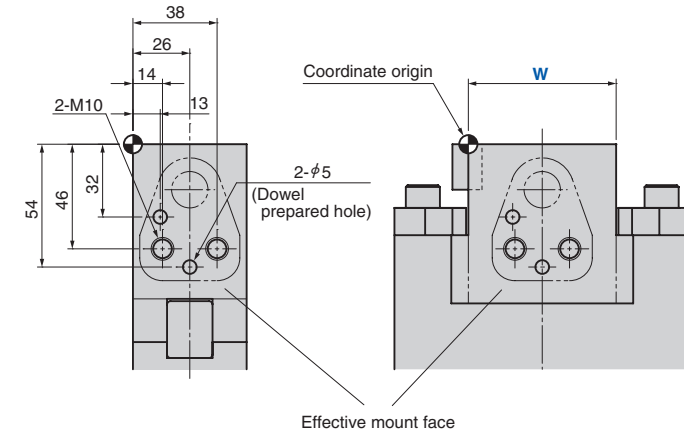
· Indication symbol

—M···Tapped hole, —N···Dowel prepared hole, —K···Dowel finish hole

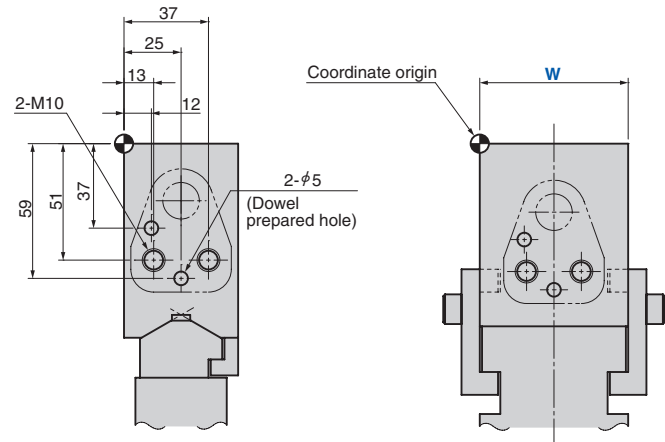
Machining standard

- Tapped holes and dowel prepared holes are machined to general tolerances.
- The hole depth is 2.5 times the diameter for both tapped holes and dowel holes. The dowel pilot hole is processed for 2 times the diameter.
- The dowel hole spacing is machined to the tolerance of ± 0.02 . The hole tolerance is H7.

(Example of Die Mounted Cam Unit)



(Example of Aerial Cam Unit)



Catalog No.	W	θ	S	Additional Machining
CMSD	52	00	55	— M10 — X (14.0) — Y (—46.0) — M10 — X (38.0) — Y (—46.0) — K5.0 — X (13.0) — Y (—32.0) — K5.0 — X (26.0) — Y (—54.0)

■ Other machining

Please give instructions on a separate drawing for drilling or cutting other than tapped holes and dowel holes.



Catalog No.	W	θ	Additional Machining
SACE	52	00	— M10 — X (13.0) — Y (—51.0) — M10 — X (37.0) — Y (—51.0) — K5.0 — X (12.0) — Y (—37.0) — K5.0 — X (25.0) — Y (—59.0)