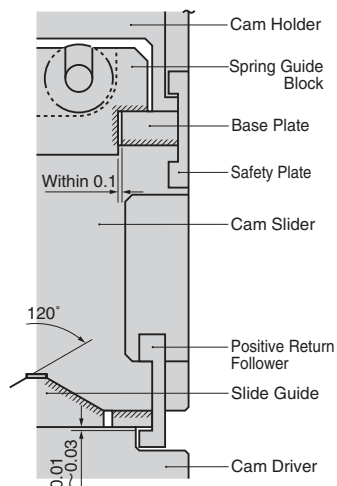


- 200, 300, 400, 500 and 600 are available for the mount width.
- Automatic alignment mechanism of the V-shaped guide
- Cam slider is removed from the rear. This facilitates adjustment.
- It is easy to lock at bottom or adjust without removing cam slide if you remove spring guide plate and spring.
- Available angle is 0° to 60° (at increments of 5° from 0° to 20°).

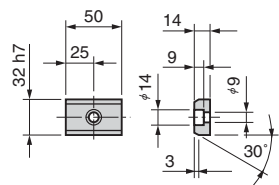
### Slide Structure and Positive Return Structure



- Since the clearance between the cam holder (base plate) and the cam slider (spring guide) is within 0.1 at one side, it is easy to assemble the unit and make adjustments.
- Adjust the cutter clearance with the driver and the slider assembled.

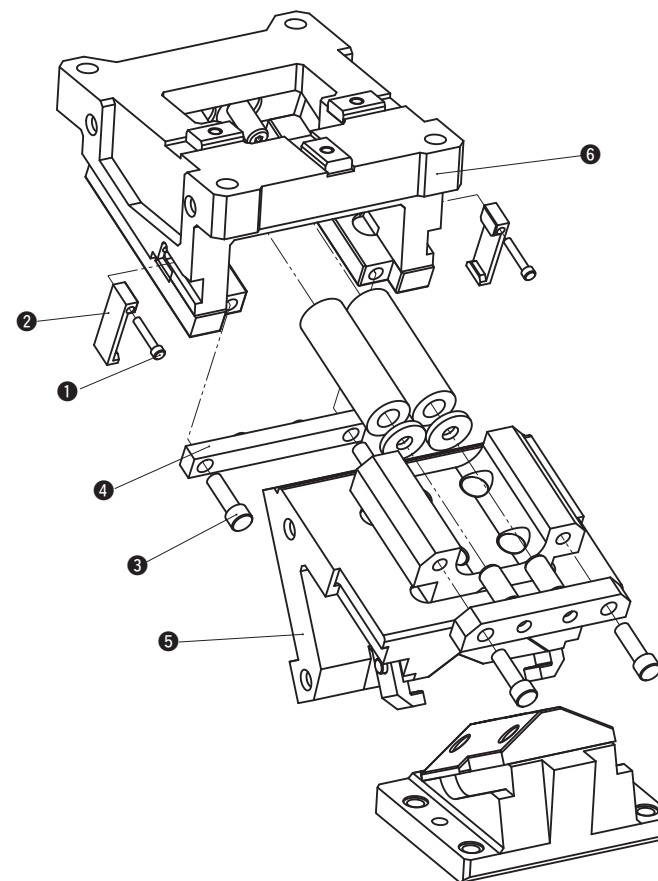
\* Oilless System at Hatched Area

### For detailed specification of the key(option)



- M8 × 15 bolt(1 bolt) is attached.

### SUWB Structure and Assembly / Disassembly



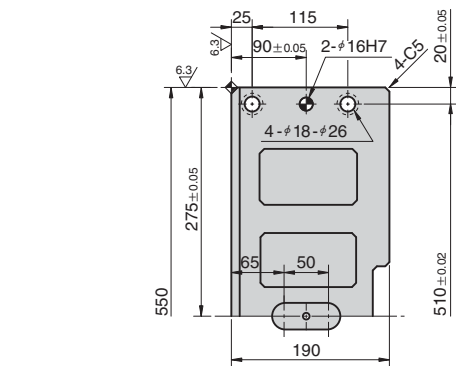
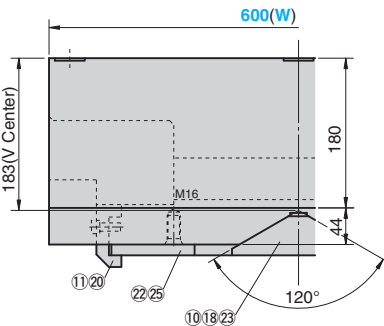
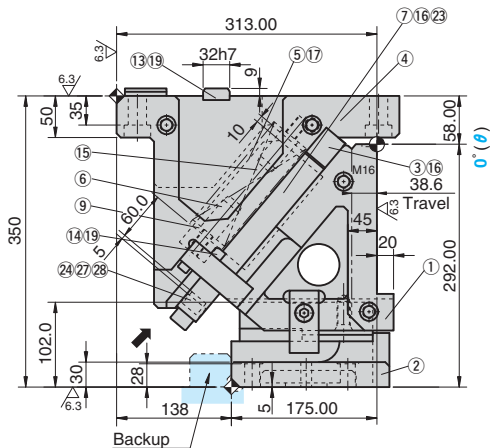
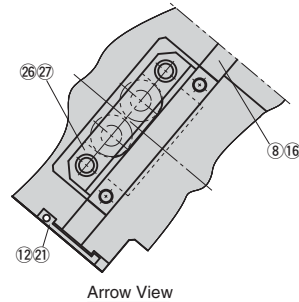
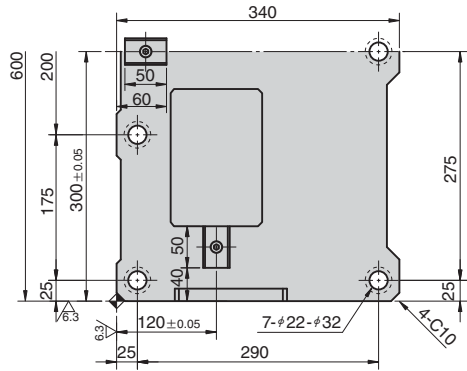
#### Disassembly method of SUWB

- 1) Loosen hexagon socket head bolt (1) and remove safety plate (2).
- 2) Loosen hexagon socket head bolt (3) and remove stopper plate (4).
- 3) Pull and remove cam slider (5) from cam holder (6) to the rear.

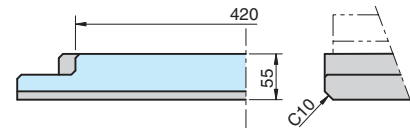
#### Assembly method of SUWB

- 1) Assemble components in the reverse order of disassembly.
  - Make sure that there is no foreign matter on the sliding area and assemble components.
  - 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

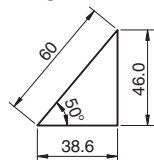
SUWB600 - 00



Detail of Driver Backup



Cam Diagram



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
38.6	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	281.4	SUWB	600	00



Order

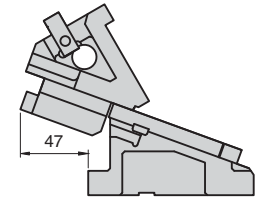
Catalog No. **SUWB** (W) **600** - (θ) **00**



Option

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Space for removing



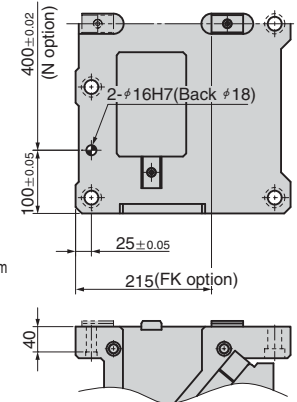
Option part of N and FK.



Order **SUWB600 - 00 - N**



For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.



Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TM50-225 (4 piece)
- Spring constant 68.1N/mm (6.94kgf/mm)

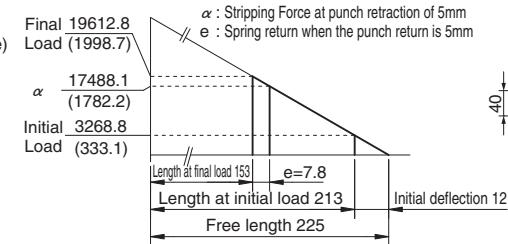
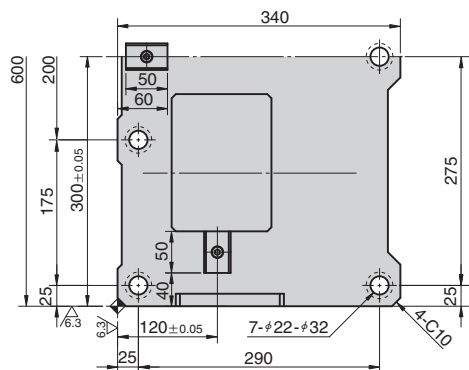


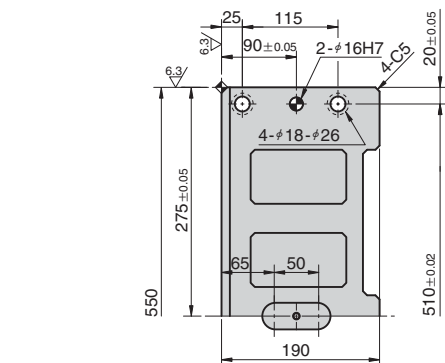
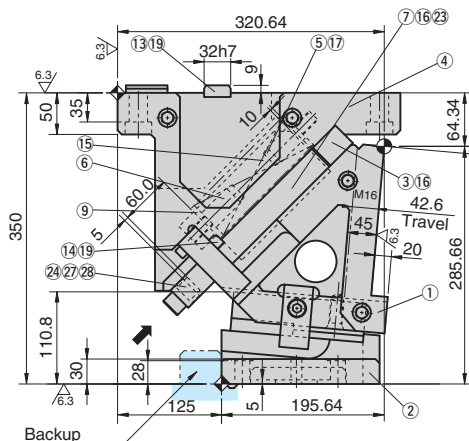
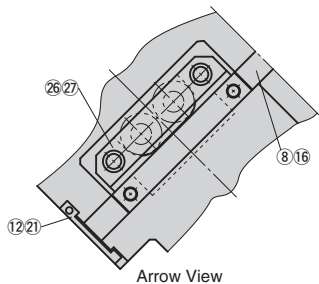
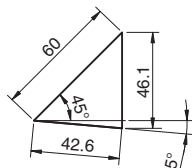
Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400

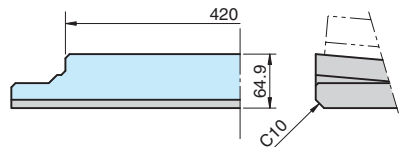
SUWB600 - 05



Cam Diagram



Detail of Driver Backup



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
42.6	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	277.9	SUWB	600	05



Order

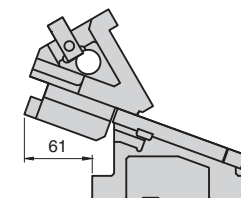
Catalog No. **SUWB** (W) **600** - (θ) **05**



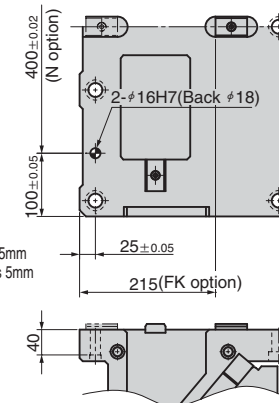
Option

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Space for removing



Option part of N and FK.



Order **SUWB600 - 05 - N**

For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.

Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TM50-225 (4 piece)
- Spring constant 68.1N/mm (6.94kgf/mm)

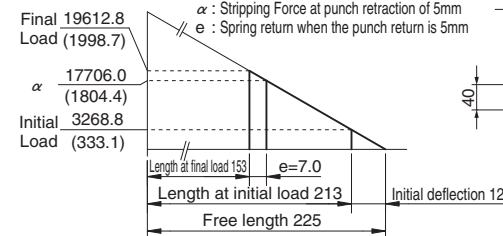
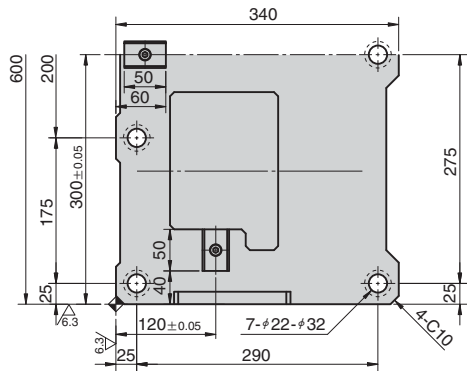


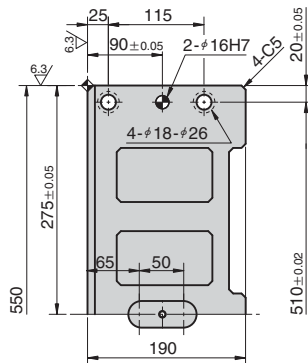
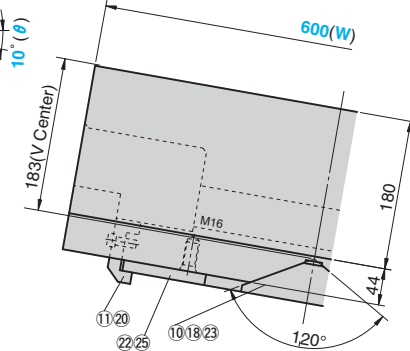
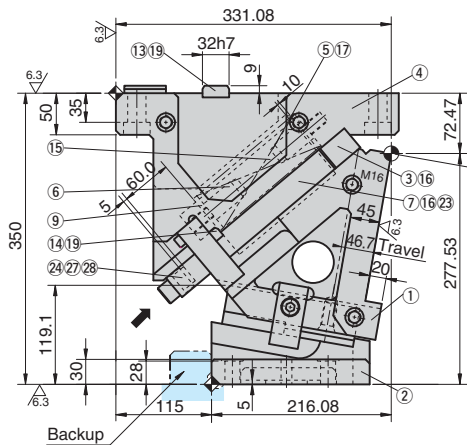
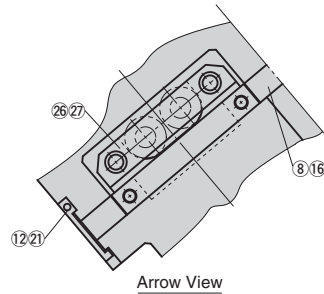
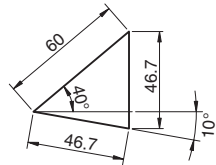
Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400

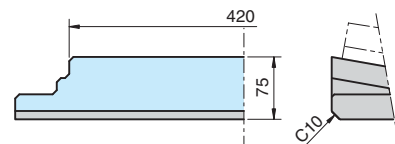
SUWB600 - 10



Cam Diagram



Detail of Driver Backup



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
46.7	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	274.1	SUWB	600	10



Order

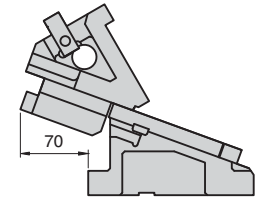
Catalog No. **SUWB** (W) **600** - (θ) **10**



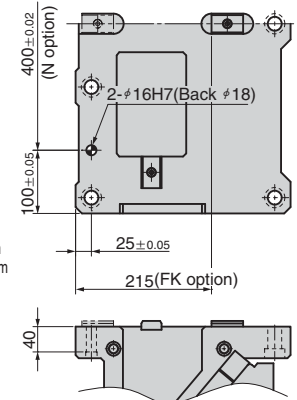
Option

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Space for removing



Option part of N and FK.



For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.

Spring Diagram

(Stripping Force at punch retraction of 5mm)

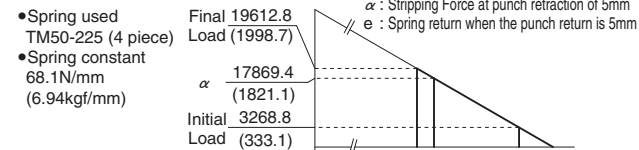
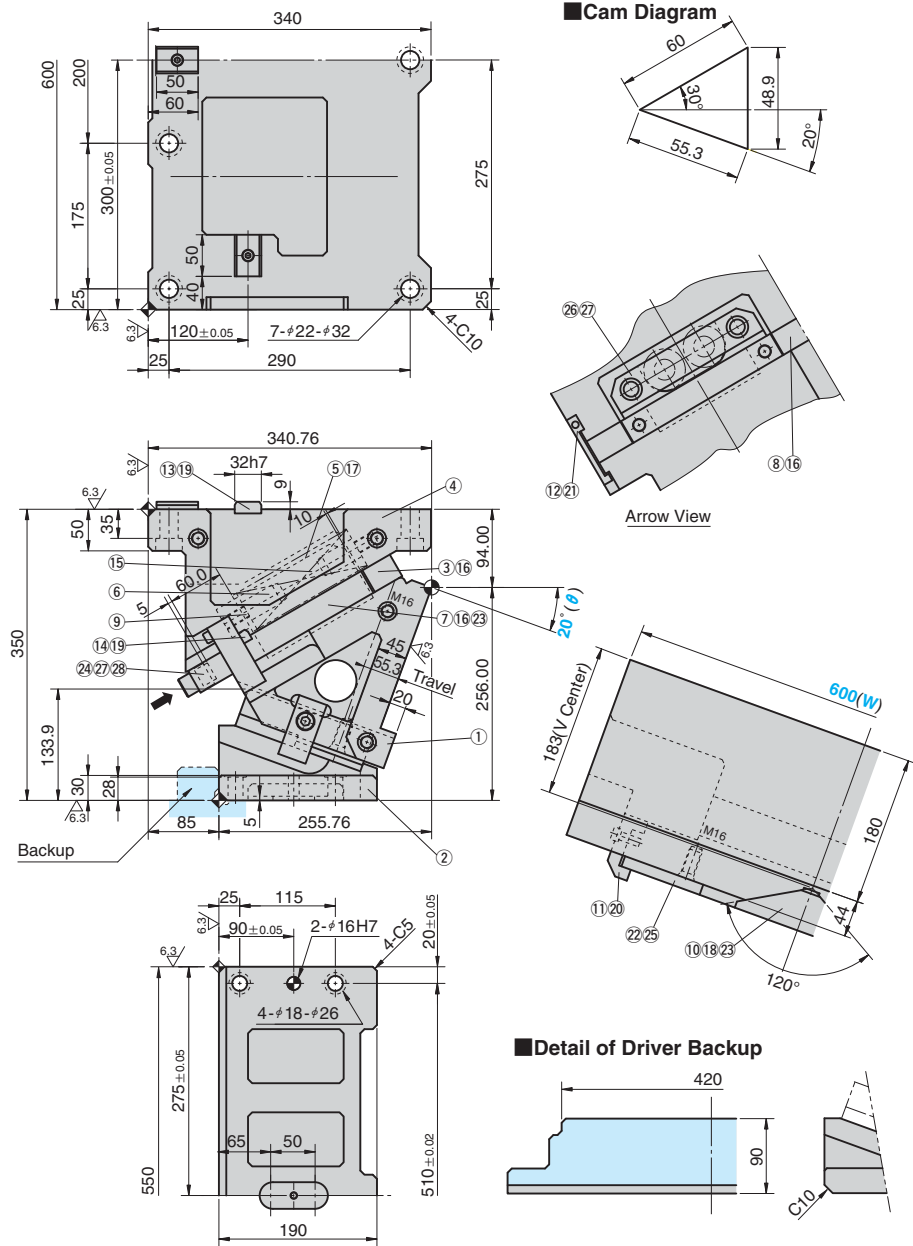


Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400



SUWB600 - 20



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
55.3	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	268.8	SUWB	600	20

Order **Catalog No.** **SUWB** **(W)** **600** **-** **(θ)** **20**

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

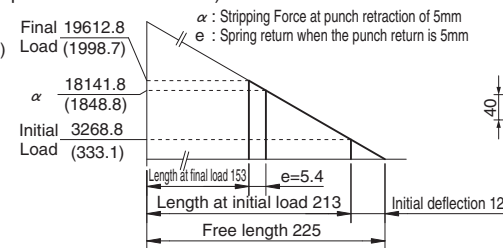
Order **SUWB600 - 20 - N**

For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.

**Spring Diagram**

(Stripping Force at punch retraction of 5mm)

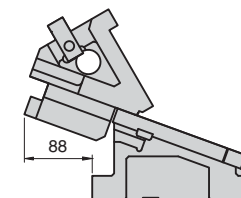
- Spring used Final Load 19612.8 (1998.7)
- Spring constant 68.1N/mm (6.94kgf/mm)



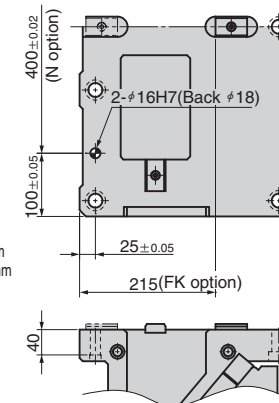
**Table of Components**

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400

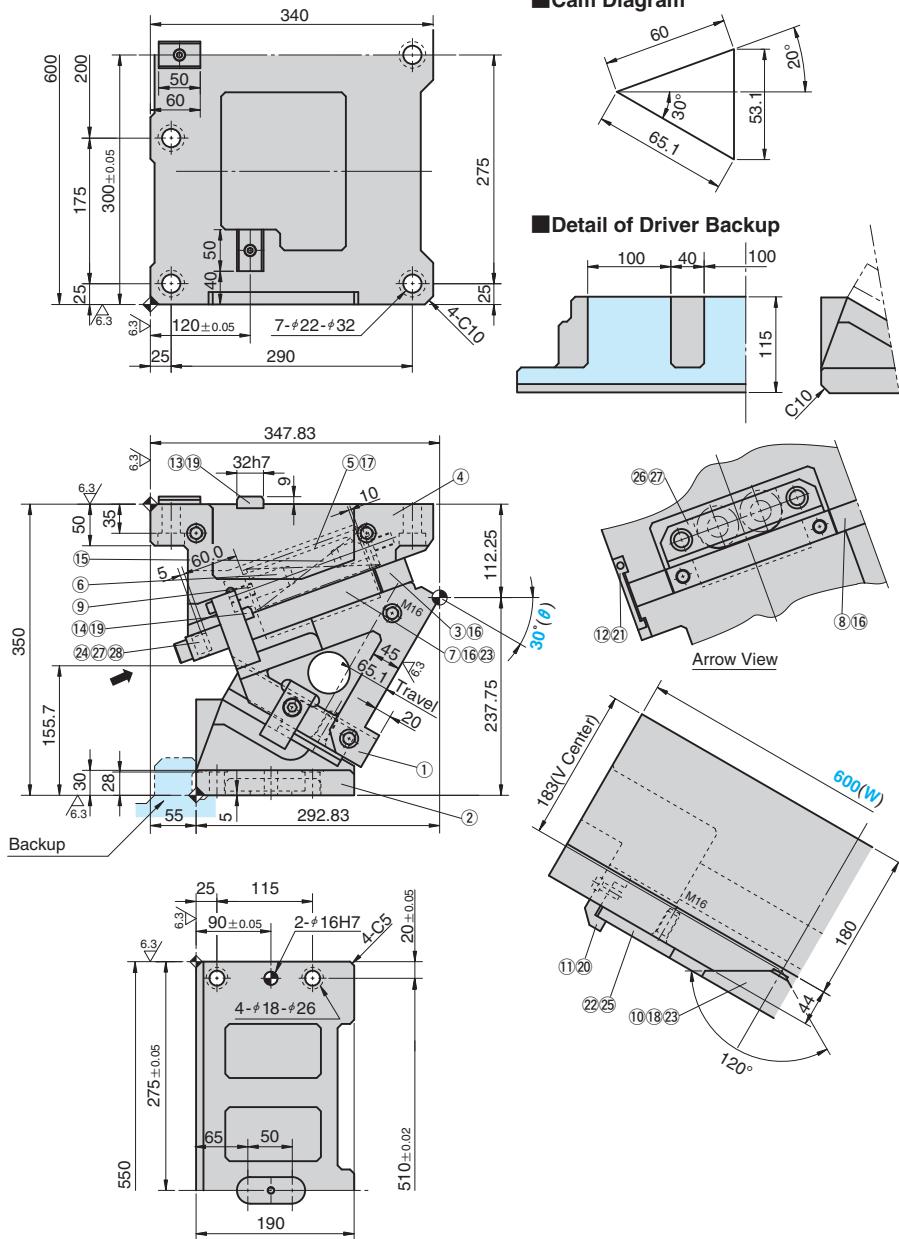
**Space for removing**



**Option part of N and FK.**



SUWB600 - 30



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
65.1	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	276.6	SUWB	600	30

Order **Catalog No.** **SUWB** **(W)** **600** **-** **(θ)** **30**

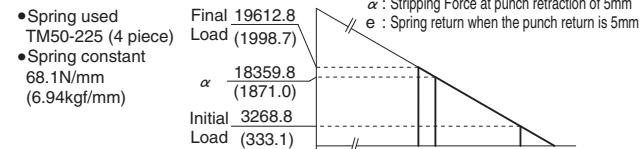
Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Order **SUWB600 - 30 - N**

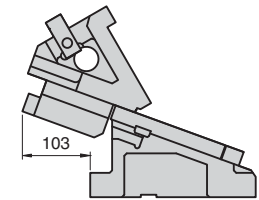
For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.

**Spring Diagram**

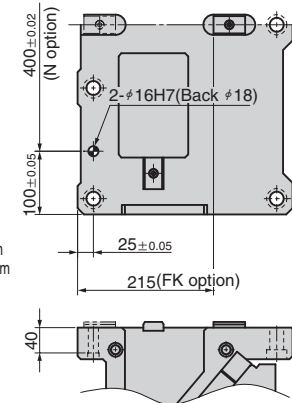
(Stripping Force at punch retraction of 5mm)



**Space for removing**



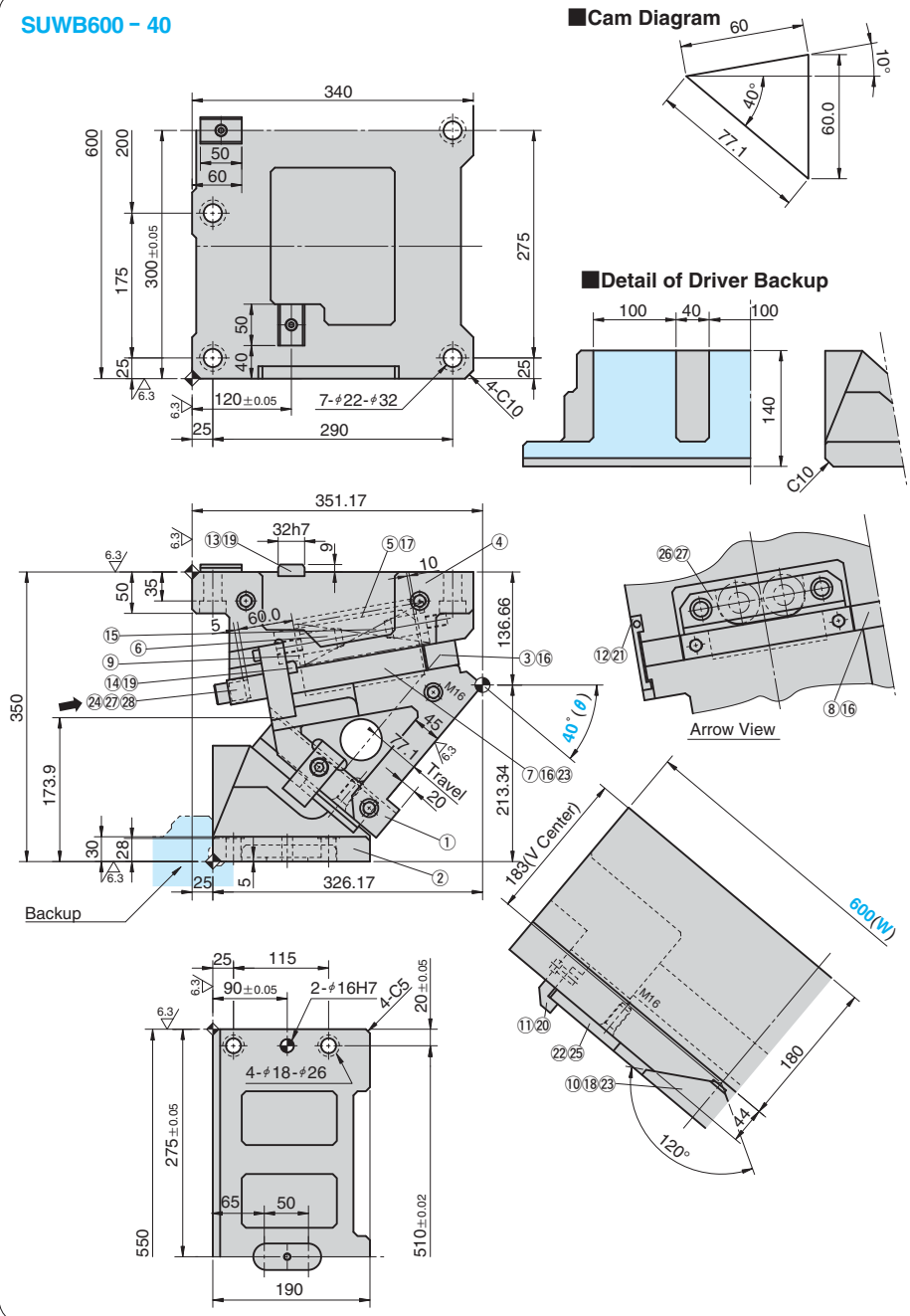
**Option part of N and FK.**



**Table of Components**

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400

SUWB600 - 40



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
77.1	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	285.2	SUWB	600	40



Order

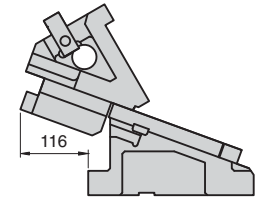
Catalog No. **SUWB** (W) **600** - (θ) **40**



Option

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Space for removing



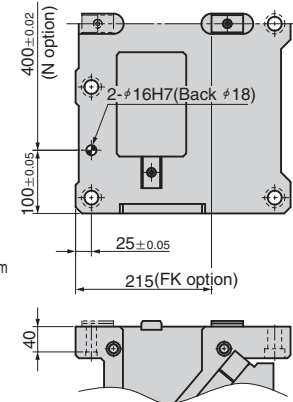
Option part of N and FK.



Order **SUWB600 - 40 - N**



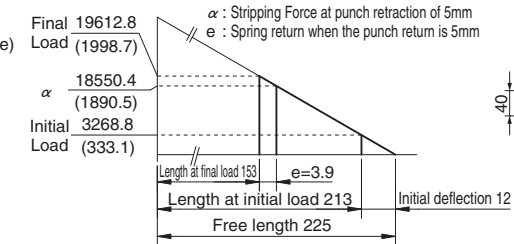
For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.



### Spring Diagram

(Stripping Force at punch retraction of 5mm)

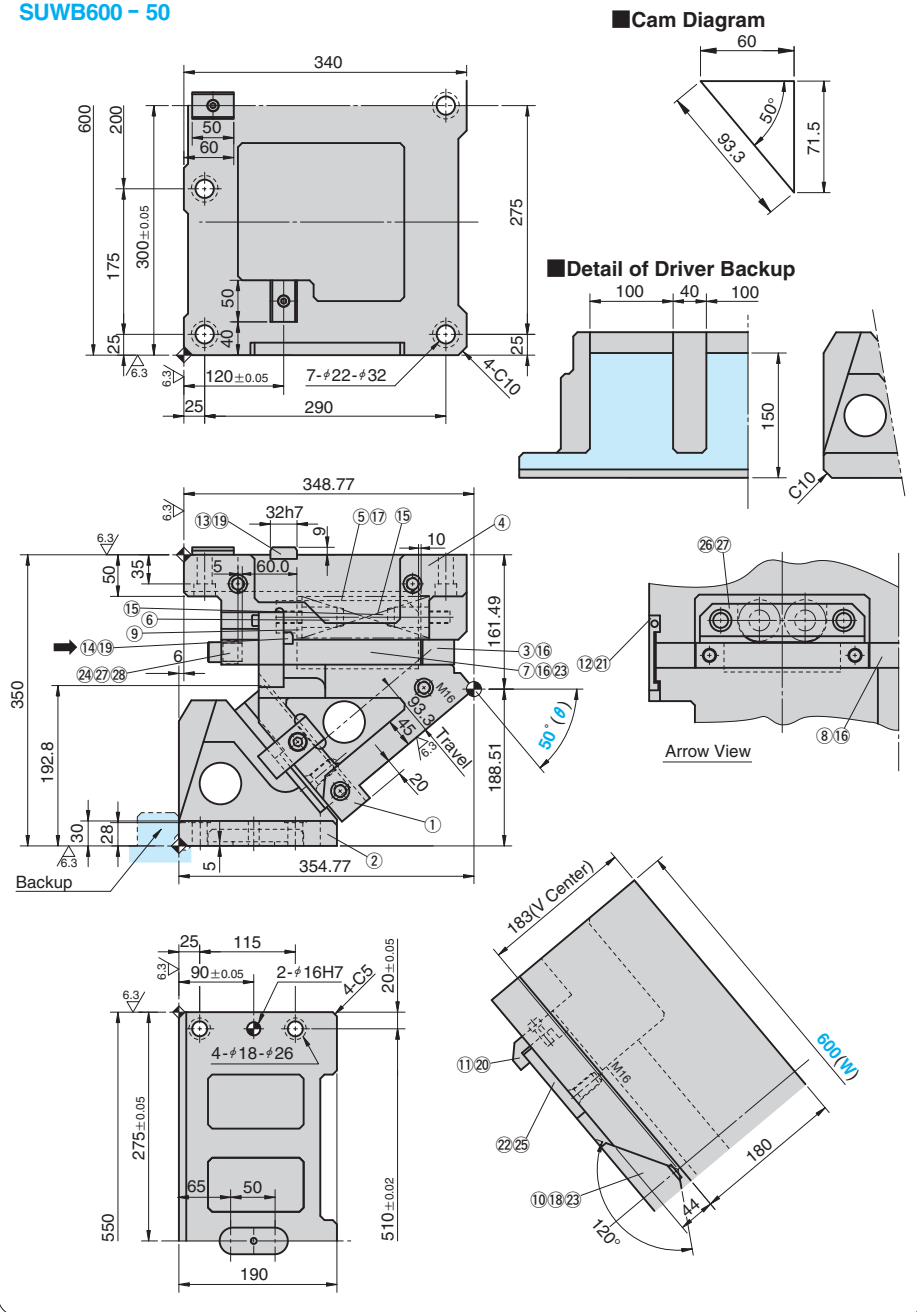
- Spring used Final Load 19612.8 (1998.7)
- Spring constant 68.1N/mm (6.94kgf/mm)



### Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400

SUWB600 - 50



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
93.3	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	127.0	283.5	SUWB	600	50



Order

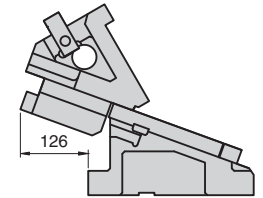
Catalog No. **SUWB** (W) **600** - (θ) **50**



Option

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Space for removing



Option part of N and FK.

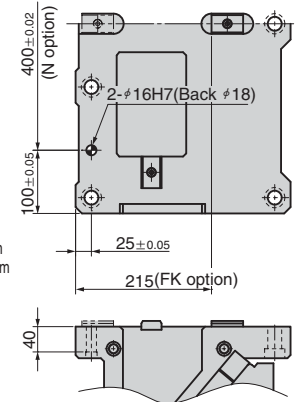


Order

SUWB600 - 50 - N



For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.



Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used Final Load 19612.8 (1998.7)
- Spring constant 68.1N/mm (6.94kgf/mm)

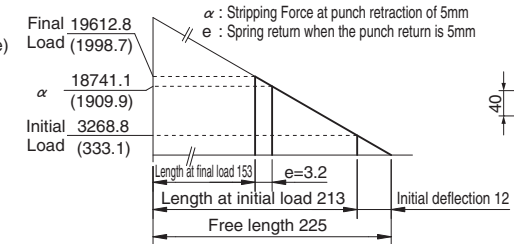
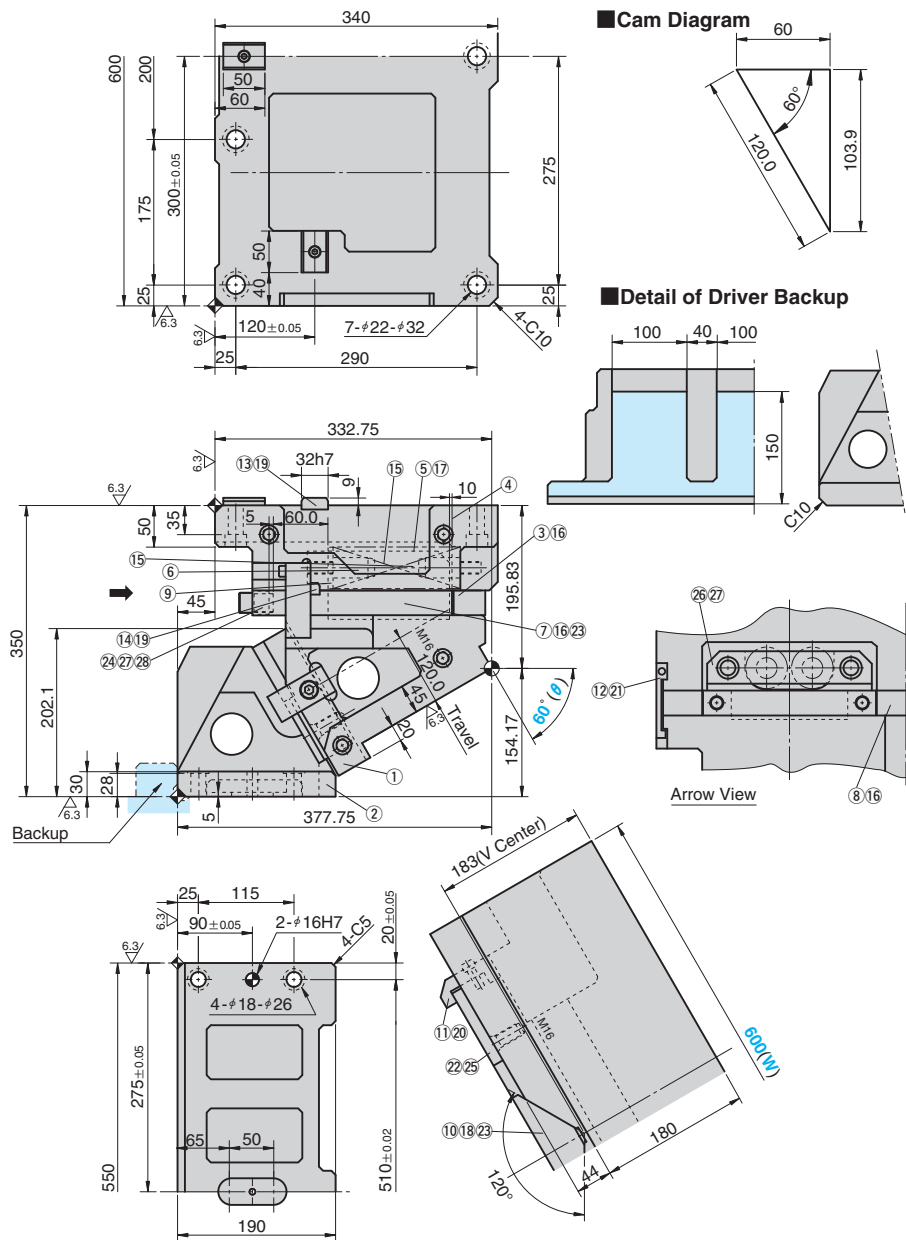


Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400

SUWB600 - 60



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
120.0	392.0 (40.0)	784.0 (79.9)	3268.8 (333.1)	19612.8 (1998.7)	133.1	295.6	SUWB	600	60



Order

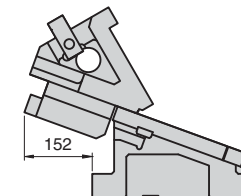
Catalog No. **SUWB** (W) **600** - (θ) **60**



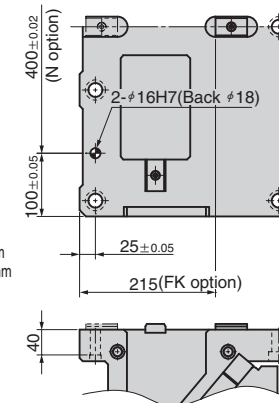
Option

Option Code	Specification
K	A key for driver is attached. (It is not assembled to the main unit.)
N	#16H7 dowel pin hole is additionally drilled on the cam holder. (Refer to the figure on the right)
FK	Move the key position forward. (Refer to the figure on the right.)

Space for removing



Option part of N and FK.



Order **SUWB600 - 60 - N**

For machining details or tapping hole and dowel hole (prepared hole and finished hole) for mounting of the retainer, refer to page 551. For detailed specification of the key, refer to page 1007.

Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TM50-225 (4 piece)
- Spring constant 68.1N/mm (6.94kgf/mm)

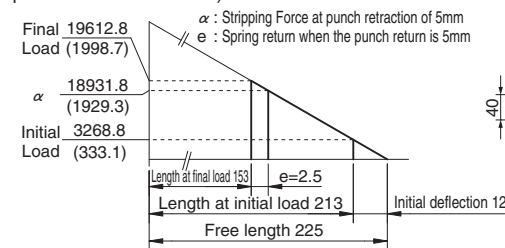


Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250	⑮	Coil Spring	4	TM50-225
②	Cam Driver	1	FC250	⑯	Hexagon Socket Head Bolt	11	SCM435 M16×45
③	Base Plate B	2	Bronze with Graphite (SO#50 SP2)	⑰	Hexagon Socket Head Bolt	8	SCM435 M20×50
④	Cam Holder	1	FC250	⑱	Hexagon Socket Head Bolt	4	SCM435 M12×35
⑤	Spring Guide Block	2	Bronze with Graphite (SO#50 SP2)	⑲	Hexagon Socket Head Bolt	6	SCM435 M8×15
⑥	Spring Guide Pin	8	S45C	⑳	Hexagon Socket Head Bolt	2	SCM435 M10×25
⑦	Base Plate G	R/L1	Bronze with Graphite (SO#50 SP2)	㉑	Hexagon Socket Head Bolt	2	SCM435 M8×45
⑧	Base Plate H	1	Bronze with Graphite (SO#50 SP2)	㉒	Hexagon Socket Brazier Head Bolt	8	SCM435 M10×20
⑨	Washer	4	S45C	㉓	Dowel Pin with Female Thread	6	SUJ2 #13×40
⑩	Slide Guide	1	SS400 Copper powder sintered(#220)	㉔	Stopper	4	Urethane
⑪	Positive Return Follower	2	S45C	㉕	Plate	R/L1	SS400 Copper powder sintered(#220)
⑫	Safety Plate	2	SS400	㉖	Spring Guide Plate	2	SS400
⑬	Key A	3	SS400	㉗	Hexagon Socket Head Bolt	8	SCM435 M16×50
⑭	Key B	3	SS400	㉘	Stopper Plate	2	SS400