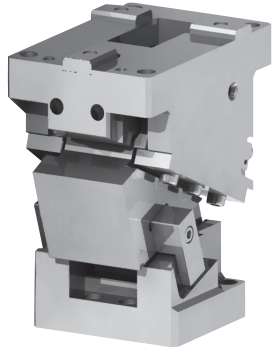


For Pierce and Flange

Aerial Cam Unit General Description of UCNBK

OUTLINE OF UCNBK

- High rigidity because of the box structure to keep the slider.
- V-shaped guide.
- 65, 100 and 200mm are available for the mounting width.
- Available angle is 0° to 70° at increments of 5°.

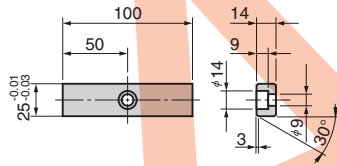


Option of UCNBK

Key Specification (-K)

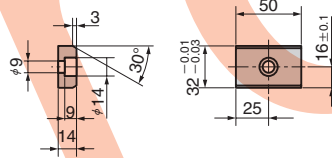
UCNBK65

LKU25-100 (with 2-M8 bolts)



UCNBK100/200

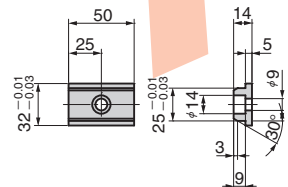
LKU32-50 (with 3-M8 bolts)



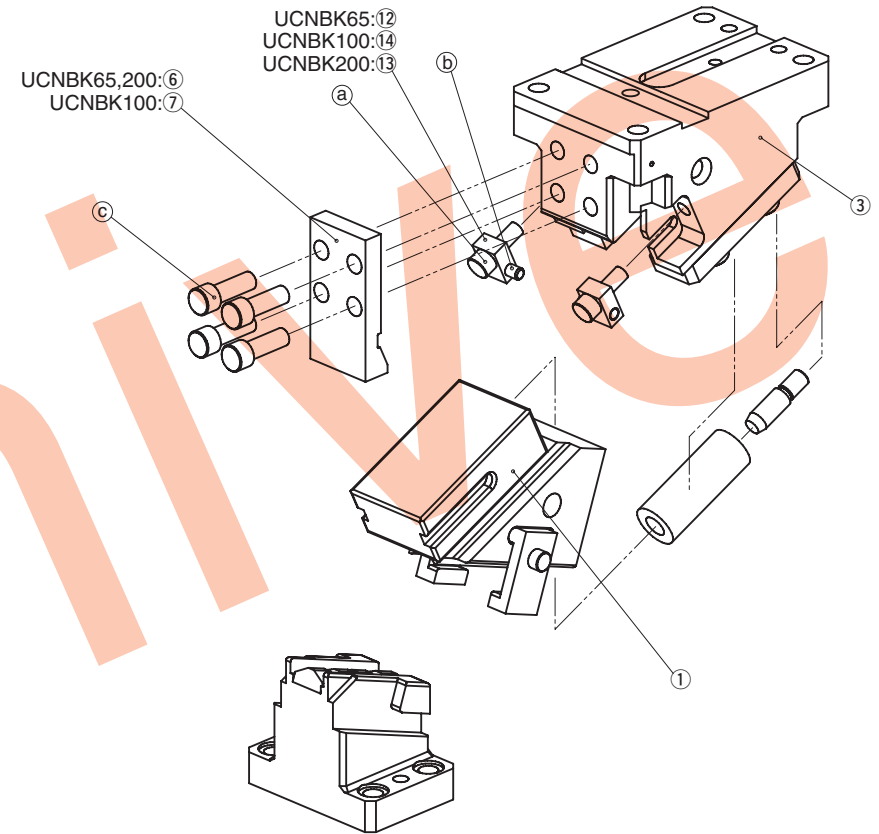
Metric Key Specification (-KA)

UCNBK100/200

LKE25-32-50 (with 3-M8 bolts)



UCNBK Structure and Assembly / Disassembly



Disassembly method of UCNBK

- 1) Loosen hexagon socket head bolt (a) and remove plate (UCNBK65:12 UCNBK100:14 UCNBK200:13) and dowel pin (b).
- 2) Loosen hexagon socket head bolt (c) and remove stopper plate (UCNBK65,200:6 UCNBK100:7).
- 3) Pull and remove cam slider (1) from cam holder (3) to the rear.

Assembly method of UCNBK

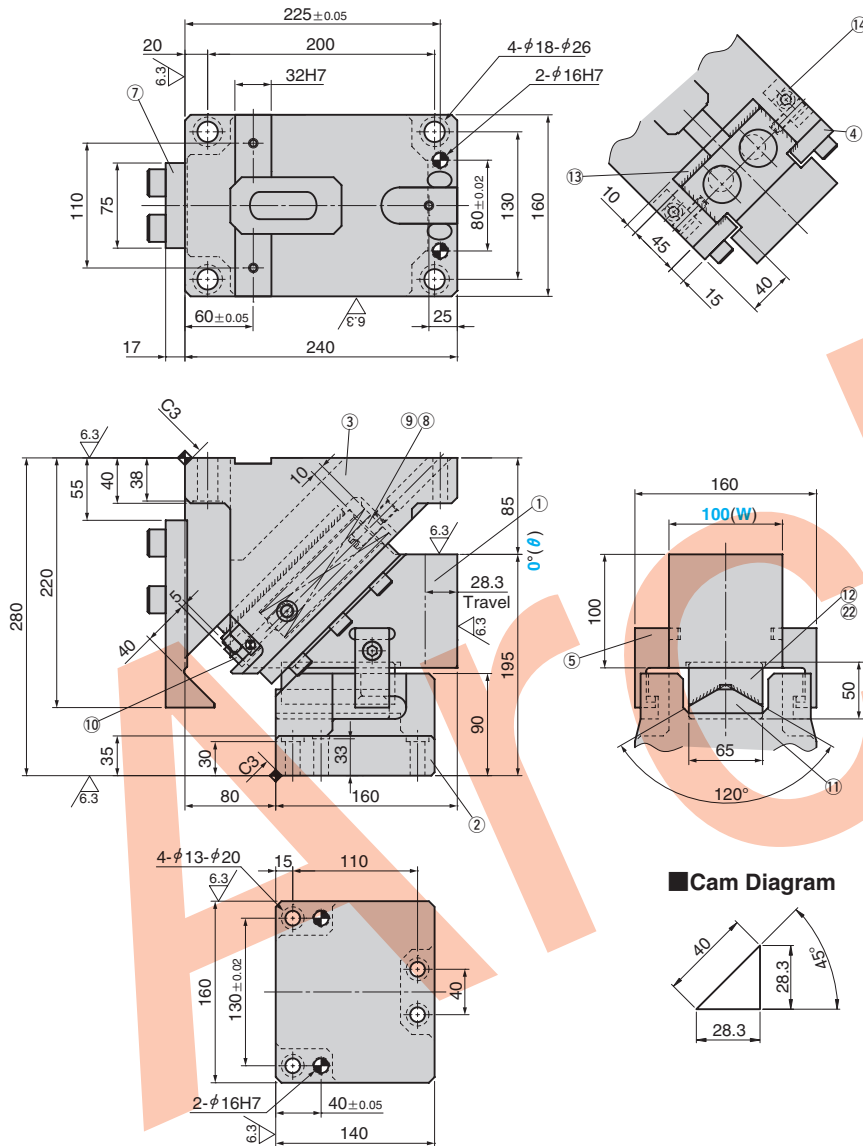
- 1) Assemble components in the reverse order of disassembly.
 - Make sure that there is no foreign matter on the sliding area and assemble components.
 - The clearance between the cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly.
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

Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-00



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
28.3	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	3568 (364.1)	14.3	UCNBK	100	00



Order

Catalog No. **UCNBK** W **100** - θ **00**



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-00-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×175
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
㉓	Screw Plug	2	S45C M12

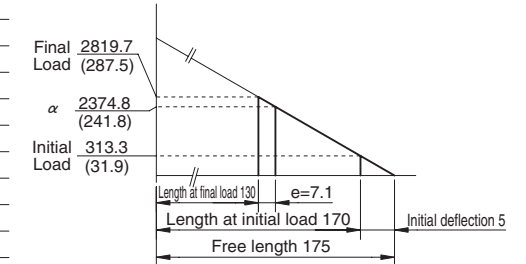


Bolts for assembly are not indicated.

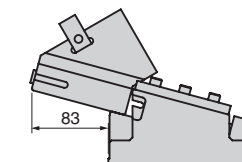
Spring Diagram

- Spring used TM30-175 (2 piece)
- Spring constant 31.33N/mm (3.19kgf/mm)
- Guideline of spring durability 500,000 strokes

α : Spring Force at punch retraction of 5 mm
e : Spring return amount when the punch returns 5 mm



Space for removing

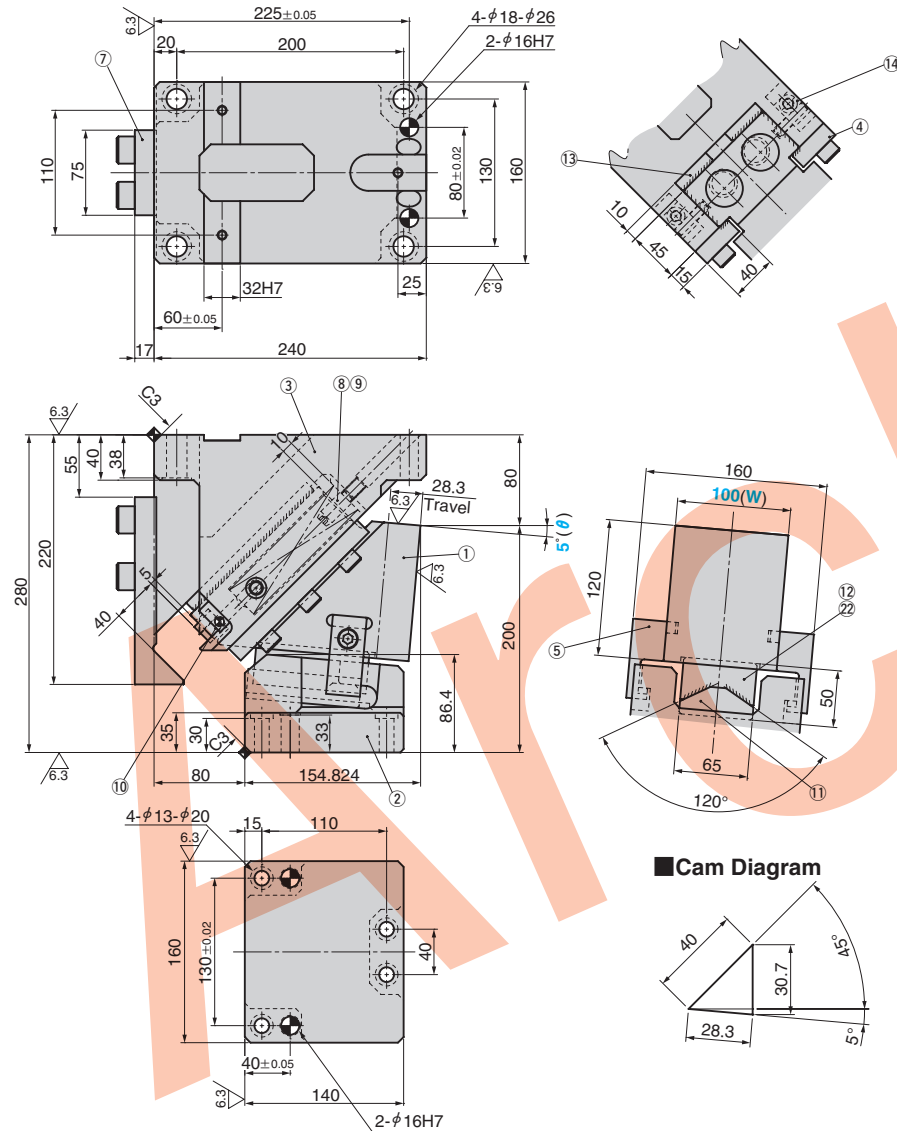


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-05



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
28.3	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	3835 (391.3)	15.0	UCNBK	100	05



Order

Catalog No. **UCNBK** W **100** - θ **05**



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-05-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×175
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
㉓	Screw Plug	2	S45C M12

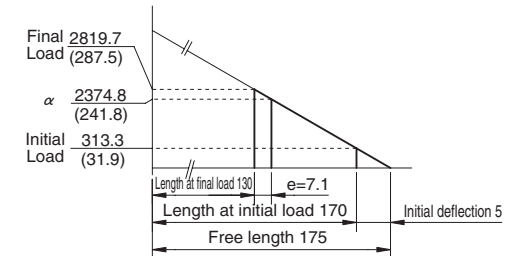


Bolts for assembly are not indicated.

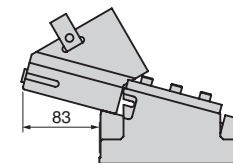
Spring Diagram

- Spring used TM30-175 (2 piece)
- Spring constant 31.33N/mm (3.19kgf/mm)
- Guideline of spring durability 500,000 strokes

α : Spring Force at punch retraction of 5 mm
e : Spring return amount when the punch returns 5 mm



Space for removing

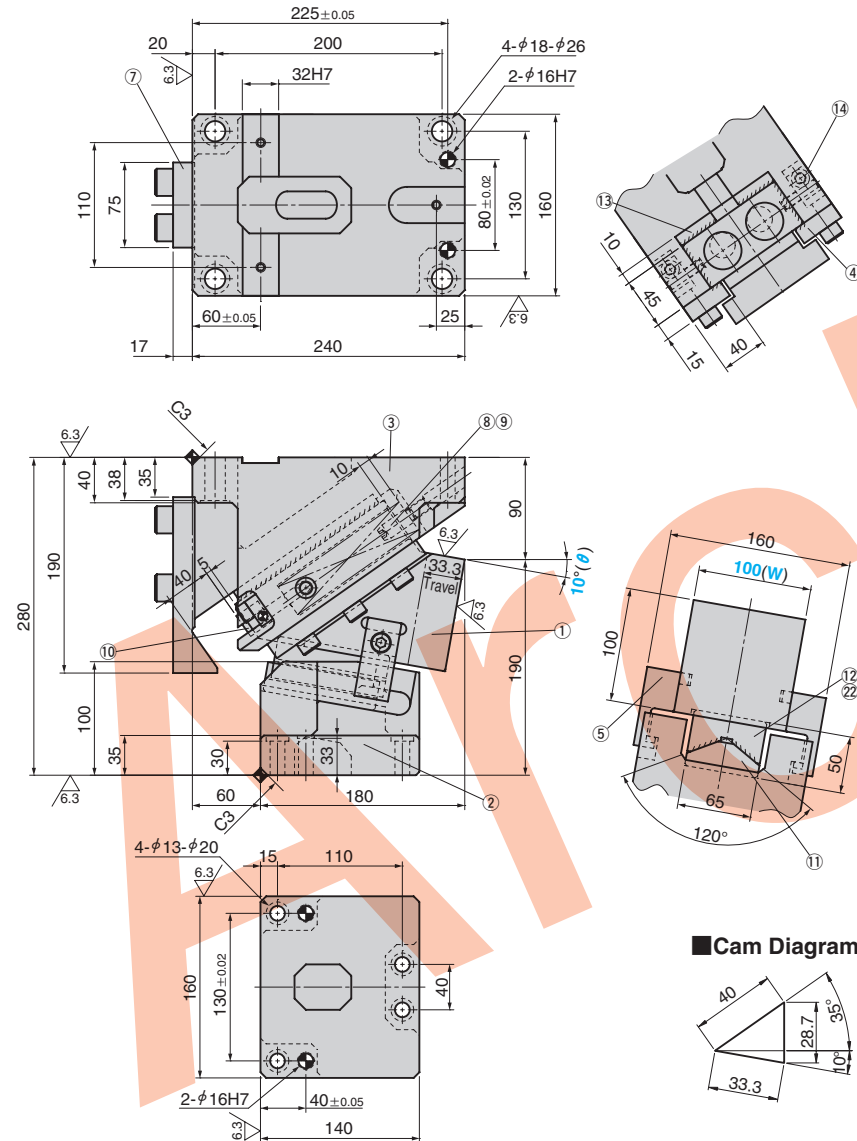


Aerial Cam Unit

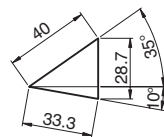
FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-10



Cam Diagram



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
33.3	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	3537 (360.9)	13.3	UCNBK	100	10



Order

Catalog No.	W	θ
UCNBK	100	10



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-10-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

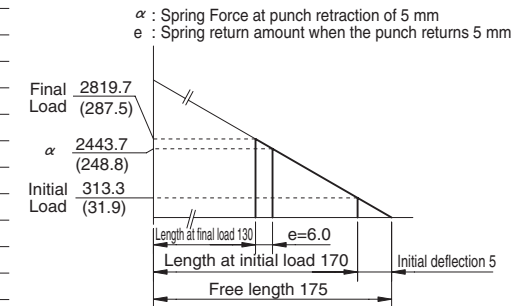
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×175
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Screw Plug	2	S45C M12



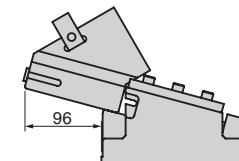
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-175 (2 piece)
- Spring constant 31.3N/mm (3.19kgf/mm)
- Guideline of spring durability 500,000 strokes



Space for removing

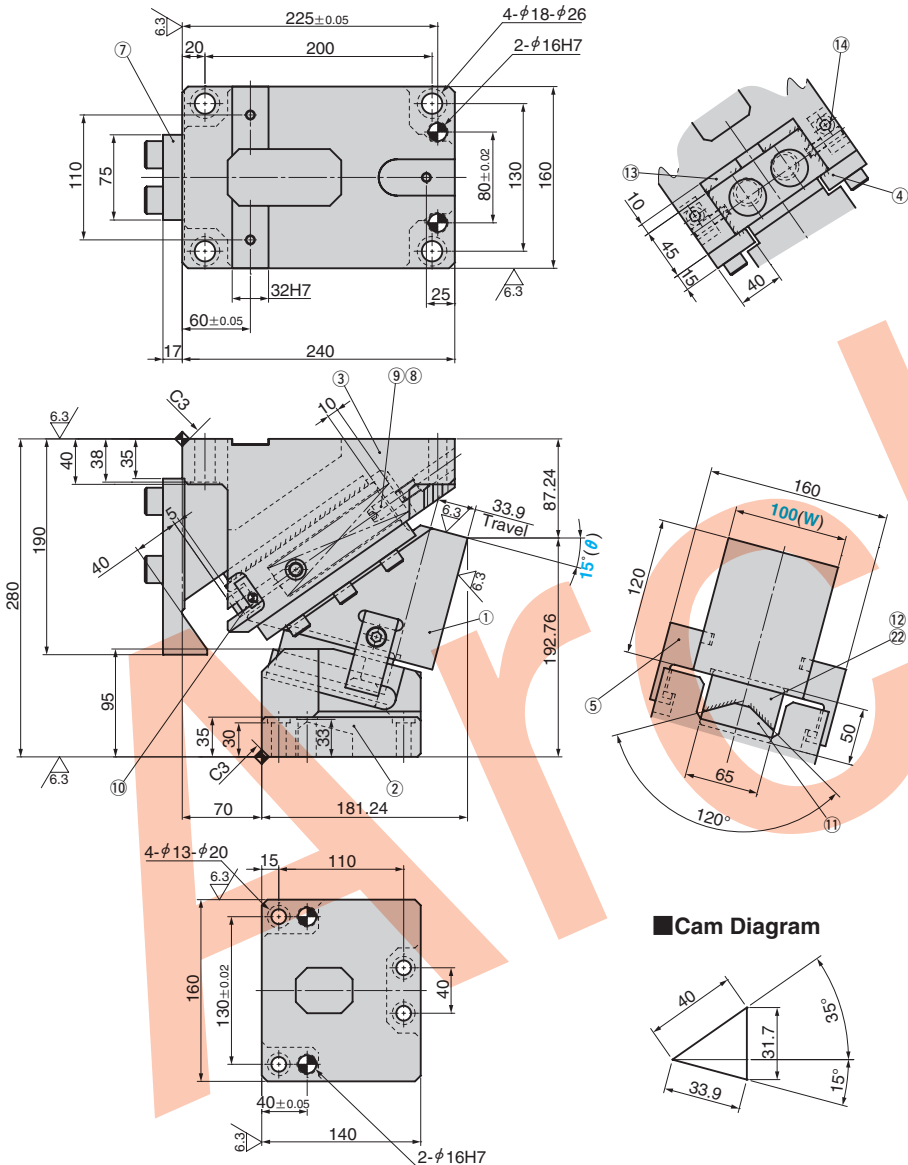


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-15



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
33.9	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	3806 (388.4)	15.0	UCNBK	100	15



Order

Catalog No. W - θ
UCNBK 100 - 15



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-15-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

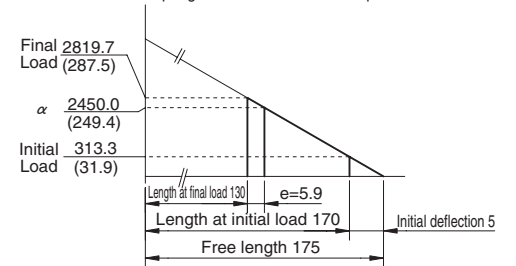
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×175
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Screw Plug	2	S45C M12



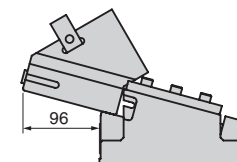
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-175 (2 piece)
 - Spring constant 31.33N/mm (3.19kgf/mm)
 - Guideline of spring durability 500,000 strokes
- α : Spring Force at punch retraction of 5 mm
e : Spring return amount when the punch returns 5 mm



Space for removing

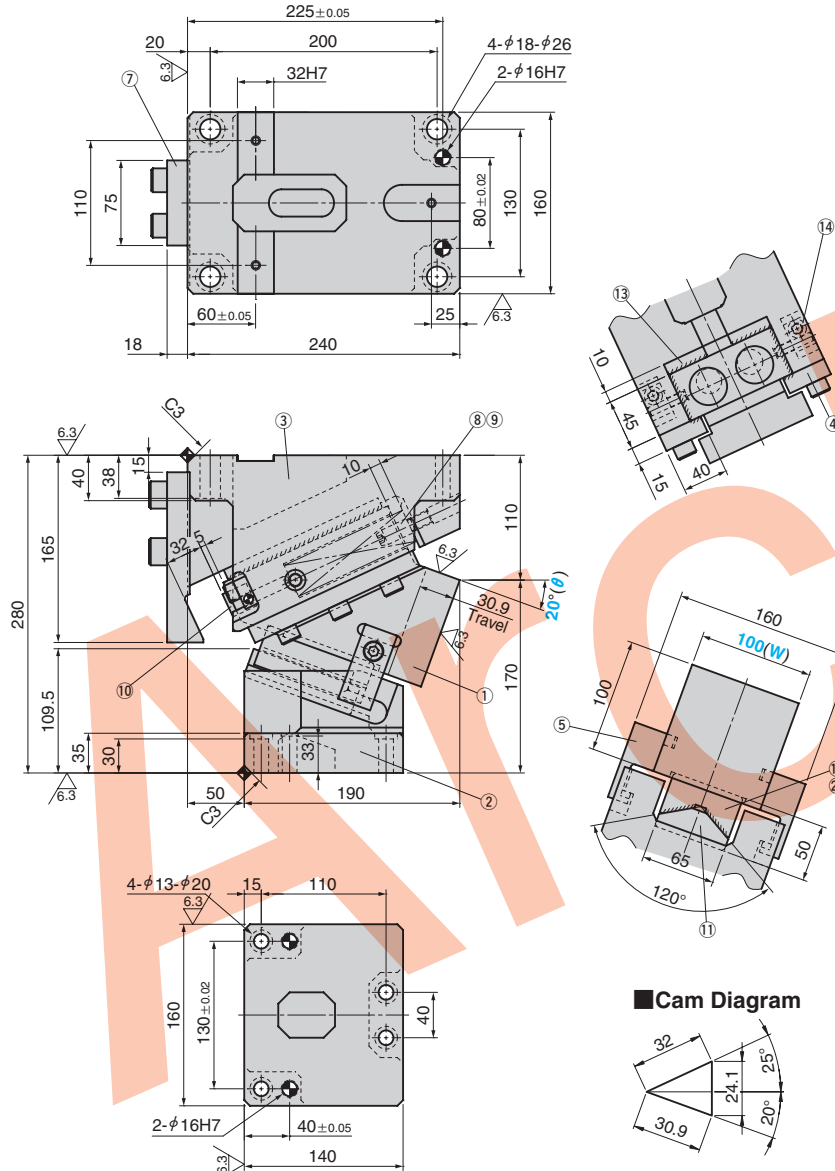


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-20



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
30.9	44.1 (4.5)	88.2 (9.0)	219.3 (22.4)	2558.5 (260.9)	3192 (325.7)	13.8	UCNBK	100	20



Order

Catalog No. **UCNBK** W **100** - θ **20**



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-20-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

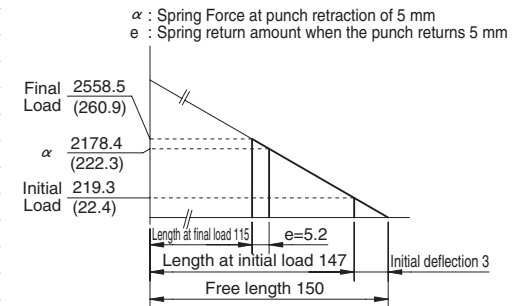
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×150
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Screw Plug	2	S45C M12



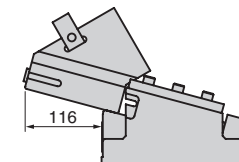
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-150 (2 piece)
- Spring constant 36.55N/mm (3.73kgf/mm)
- Guideline of spring durability 1,000,000 strokes



Space for removing

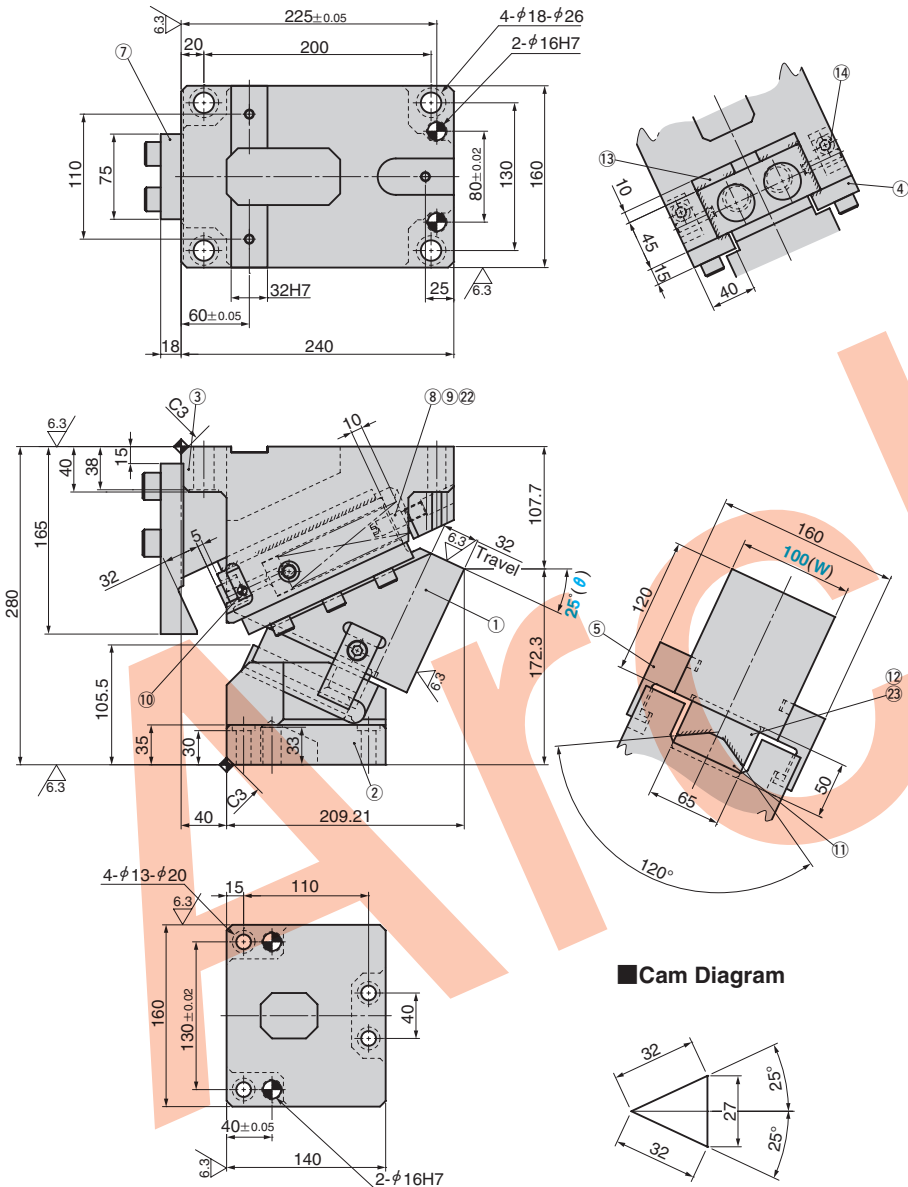


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-25



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
32.0	44.1 (4.5)	88.2 (9.0)	219.3 (22.4)	2558.5 (260.9)	3430 (350.0)	15.0	UCNBK	100	25



Order

Catalog No. W - θ
UCNBK 100 - 25



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-25-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

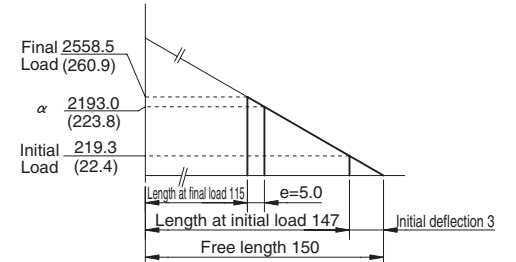
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×150
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Spacer	2	SS400
㉓	Screw Plug	2	S45C M12

Bolts for assembly are not indicated.

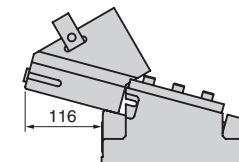
Spring Diagram

- Spring used TM30-150 (2 piece)
- Spring constant 36.55N/mm (3.73kgf/mm)
- Guideline of spring durability 1,000,000 strokes

α : Spring Force at punch retraction of 5 mm
e : Spring return amount when the punch returns 5 mm



Space for removing

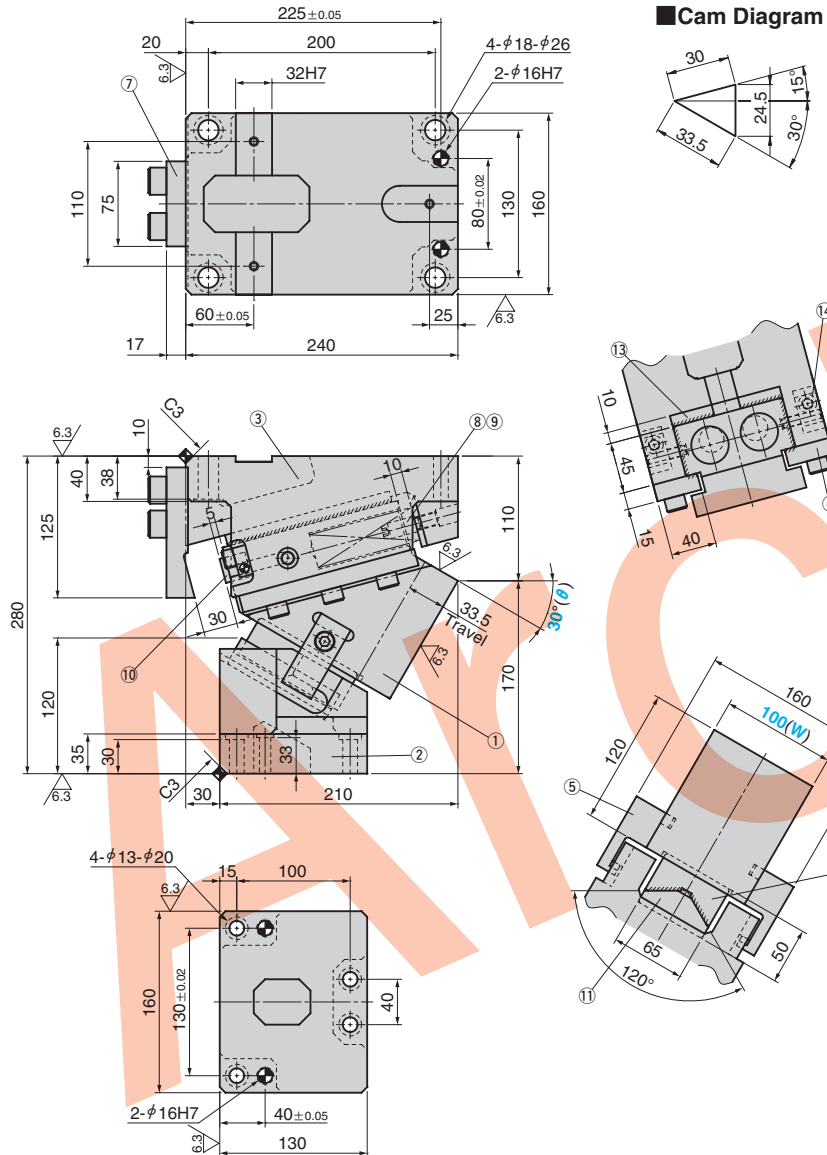


Aerial Cam Unit

FOR PIERCE AND FLANGE

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FILE

UCNBK100-30



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
33.5	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	3470 (354.1)	15.5	UCNBK	100	30



Order

Catalog No.	W	θ
UCNBK	100	30



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-30-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

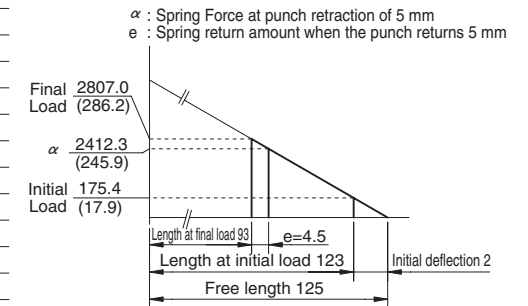
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×125
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Screw Plug	2	S45C M12



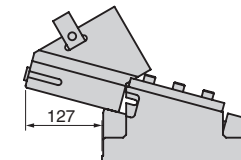
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-125 (2 piece)
- Spring constant 43.86N/mm (4.47kgf/mm)
- Guideline of spring durability 1,000,000 strokes



Space for removing

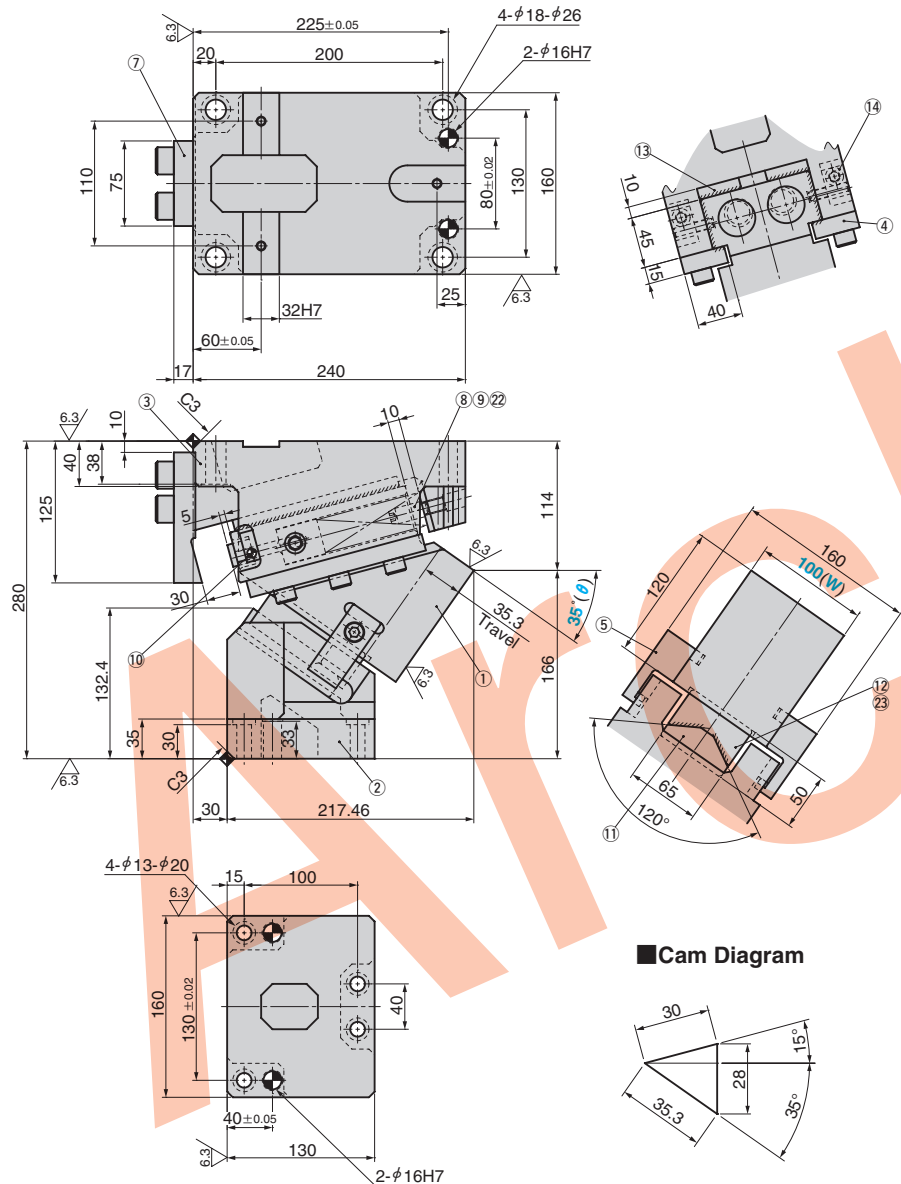


Aerial Cam Unit

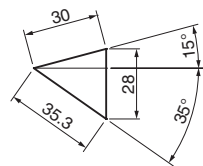
FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-35



Cam Diagram



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
35.3	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	3724 (380.0)	15.0	UCNBK	100	35



Order

Catalog No.	W	θ
UCNBK	100	35



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-35-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

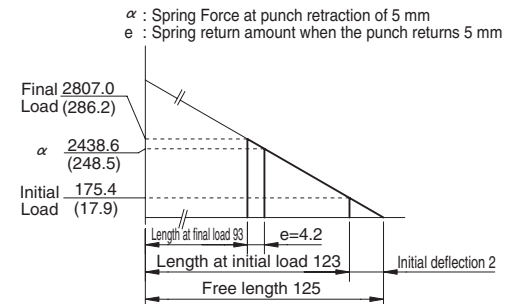
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×125
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Spacer	2	SS400
㉑	Screw Plug	2	S45C M12



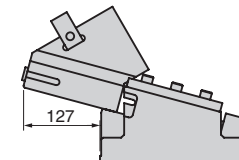
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-125 (2 piece)
- Spring constant 43.86N/mm (4.47kgf/mm)
- Guideline of spring durability 1,000,000 strokes



Space for removing

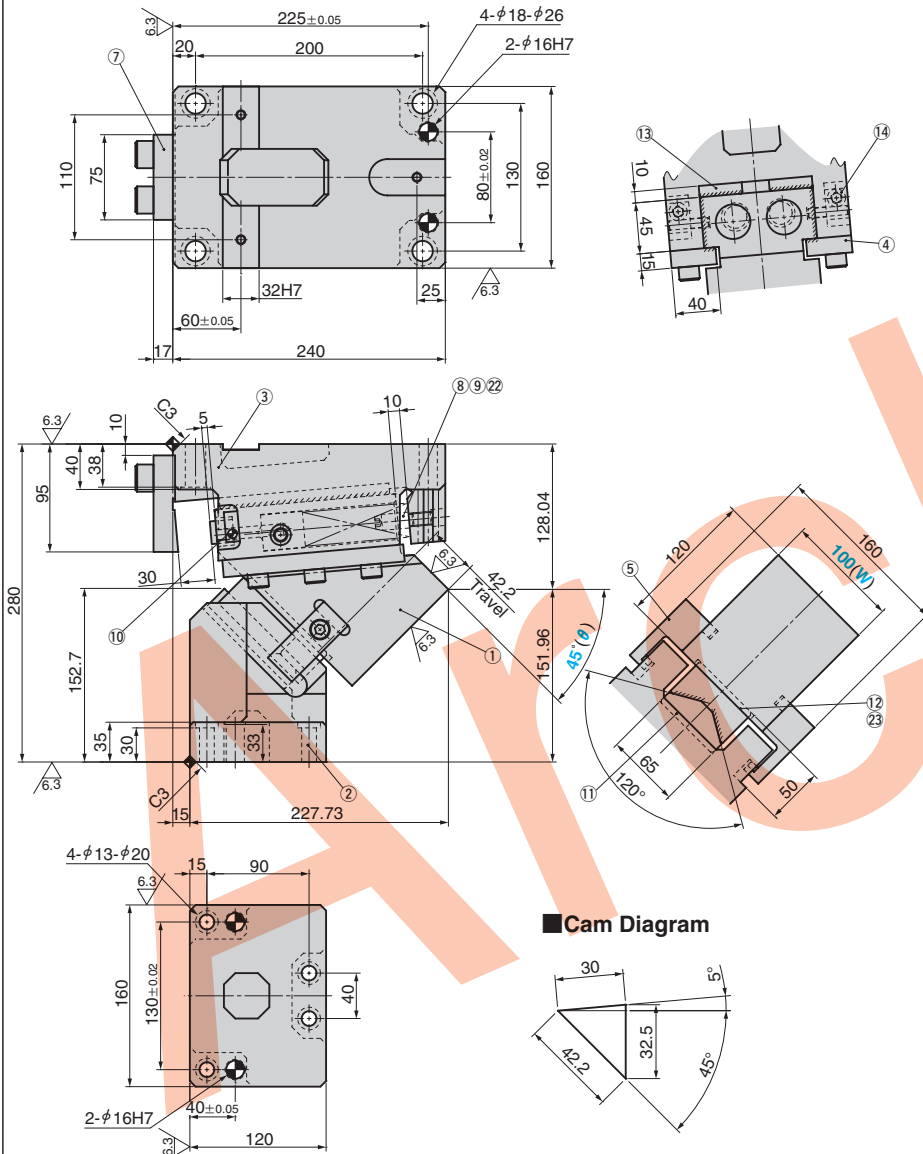


Aerial Cam Unit

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UCNBK100-45



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
42.2	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	3690 (376.5)	15.0	UCNBK	100	45



Order

Catalog No. **UCNBK** W **100** - θ **45**



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-45-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×125
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Spacer	2	SS400
㉓	Screw Plug	2	S45C M12

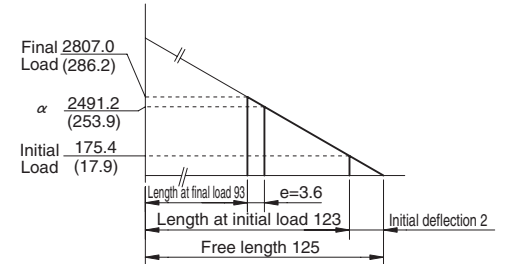


Bolts for assembly are not indicated.

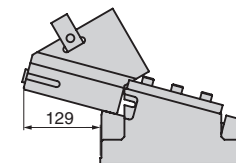
Spring Diagram

- Spring used TM30-125 (2 piece)
- Spring constant 43.86N/mm (4.47kgf/mm)
- Guideline of spring durability 1,000,000 strokes

α : Spring Force at punch retraction of 5 mm
e : Spring return amount when the punch returns 5 mm



Space for removing

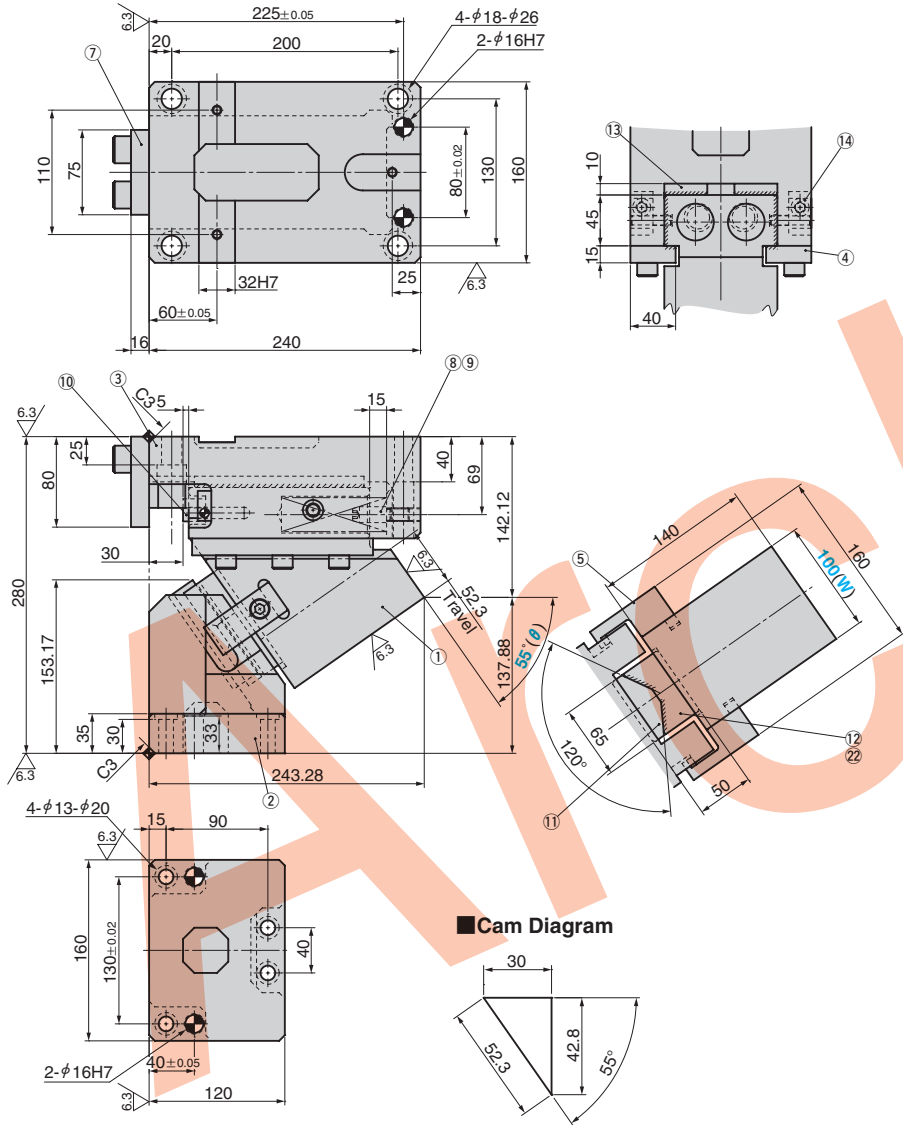


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-55



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
52.3	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	3990 (407.1)	17.7	UCNBK	100	55



Order

Catalog No. W - θ
UCNBK 100 - 55



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-55-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

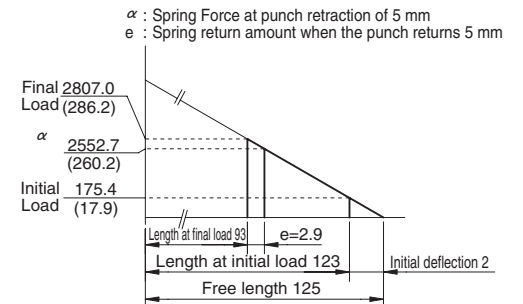
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×125
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Screw Plug	2	S45C M12



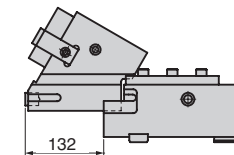
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-125 (2 piece)
- Spring constant 43.86N/mm (4.47kgf/mm)
- Guideline of spring durability 1,000,000 strokes



Space for removing

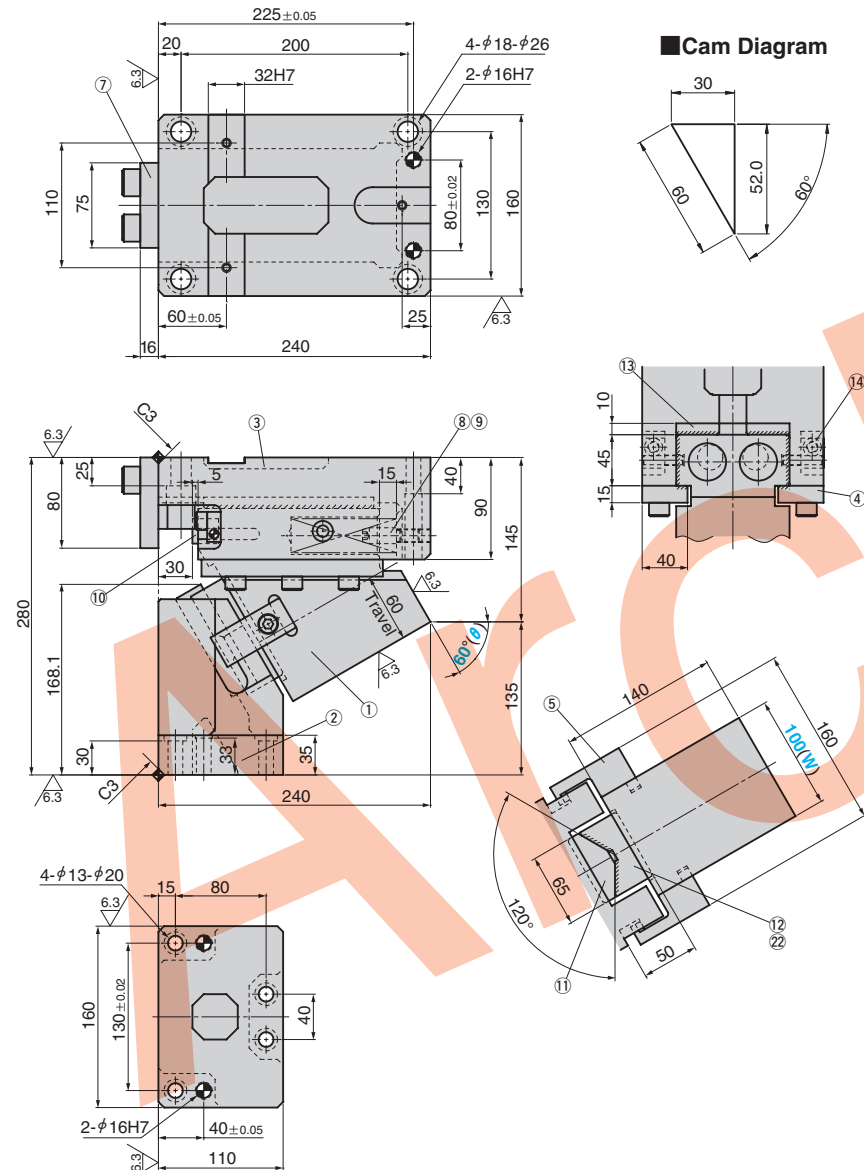


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-60



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
60.0	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	4412 (450.2)	17.6	UCNBK	100	60



Order

Catalog No. W - θ
UCNBK 100 - 60



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-60-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

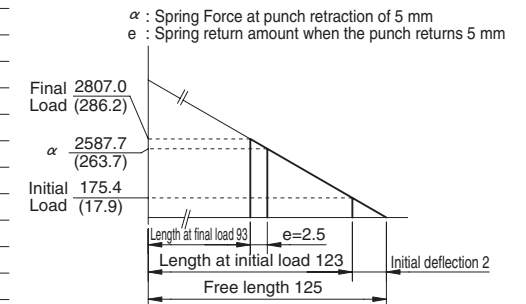
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×125
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
㉒	Screw Plug	2	S45C M12



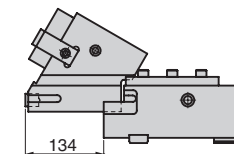
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-125 (2 piece)
- Spring constant 43.86N/mm (4.47kgf/mm)
- Guideline of spring durability 1,000,000 strokes



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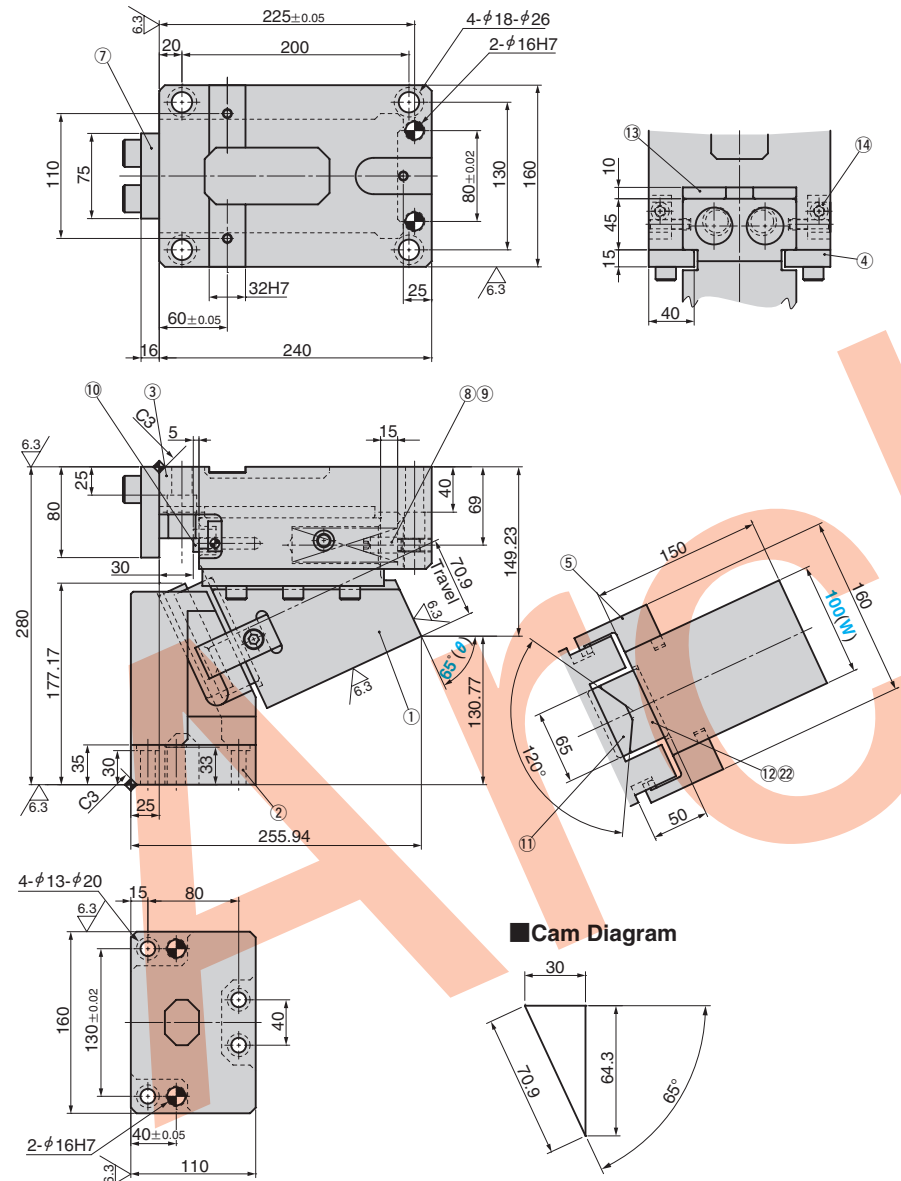


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD FILE

UCNBK100-65



Cam Diagram

Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
70.9	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	4977 (507.8)	17.0	UCNBK	100	65



Order

Catalog No. **UCNBK** W **100** - θ **65**



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-65-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

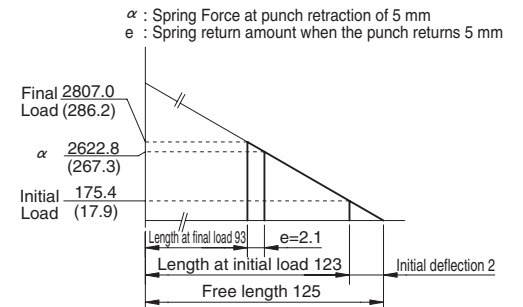
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×125
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
⑳	Screw Plug	2	S45C M12



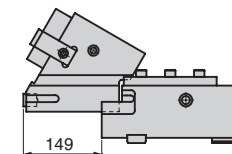
Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-125 (2 piece)
- Spring constant 43.86N/mm (4.47kgf/mm)
- Guideline of spring durability 1,000,000 strokes



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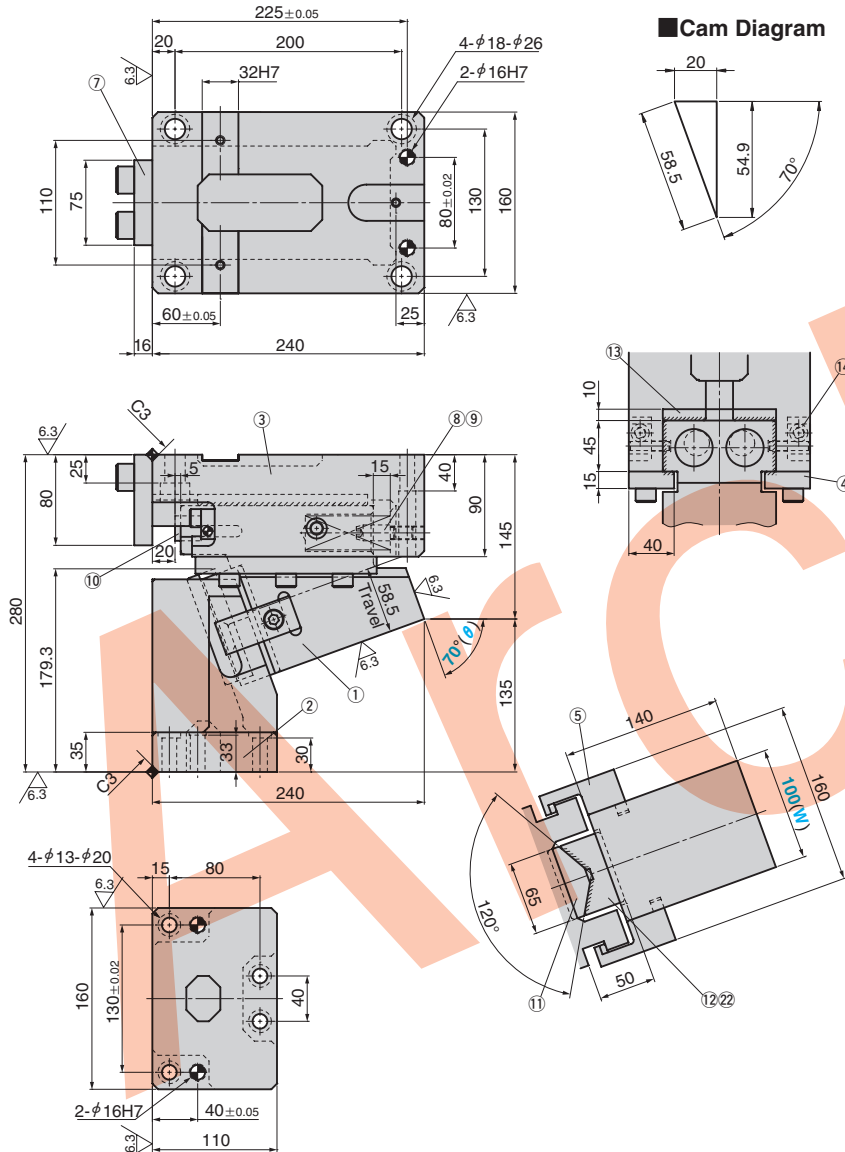


Aerial Cam Unit

FOR PIERCE AND FLANGE

CAD
FILE

UCNBK100-70



Travel S	Working Force kN(tonf)		Spring Force N(kgf)		Return Force N(kgf)	Slider Weight kg	Catalog No.	W	θ
	Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load					
58.5	44.1 (4.5)	88.2 (9.0)	548.3 (55.9)	2741.5 (279.6)	5625 (574.0)	15.9	UCNBK	100	70



Order

Catalog No.	W	θ
UCNBK	100	70



Option

Option Code	Specification
K	Key attached for holder.
KA	Metric key attached for holder.

For key specification, refer to page 737.



Order

UCNBK100-70-K

Refer to page 389 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Table of Components

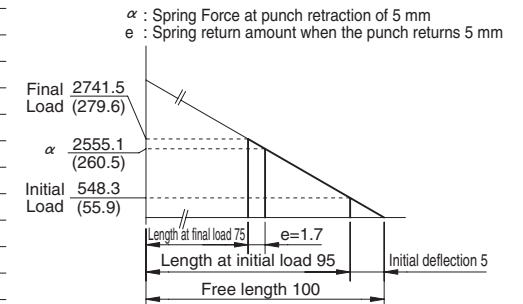
No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250 with Graphite
②	Cam Driver	1	FC250
③	Cam Holder	1	FC250
④	Upper Plate	2	S45C with Graphite
⑤	Positive Return Follower	2	S45C(1045)
⑦	Stopper Plate	1	S45C(1045)
⑧	Spring Guide Pin	2	S45C(1045)
⑨	Coil Spring	2	TM30×100
⑩	Stopper	2	Urethane
⑪	Cam Bottom Slide Plate	1	S45C(1045)
⑫	Cam Bottom Guide Plate	1	Bronze with Graphite
⑬	Lower Plate	2	Bronze with Graphite
⑭	Plate	2	SS400(1020)
㉓	Screw Plug	2	S45C M12



Bolts for assembly are not indicated.

Spring Diagram

- Spring used TM30-100 (2 piece)
- Spring constant 54.83N/mm (5.59kgf/mm)
- Guideline of spring durability 1,000,000 strokes



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