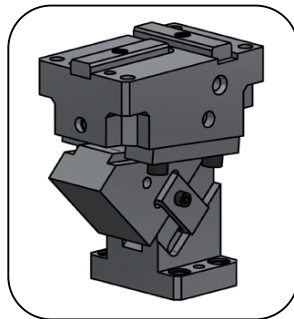
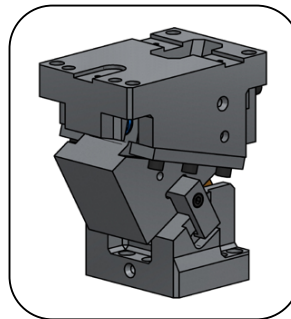


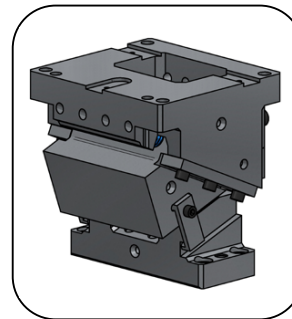
**General information**



**ABKL 0065**



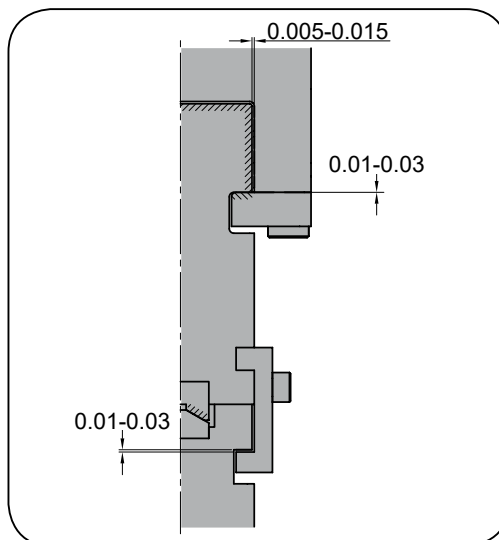
**ABKL 0100**



**ABKL 0200**

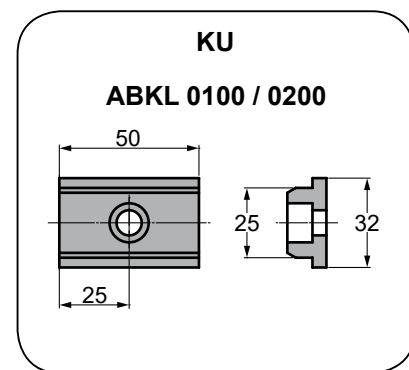
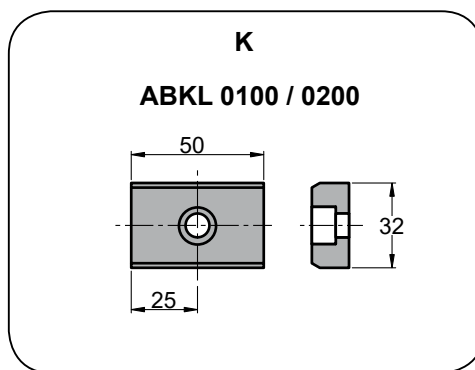
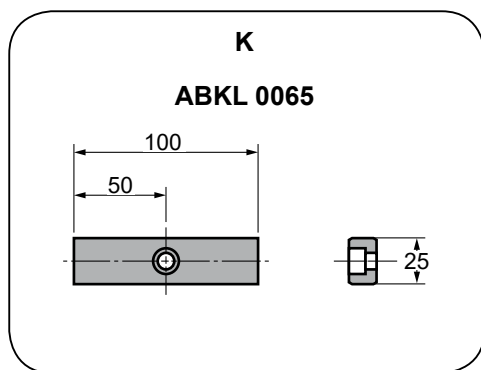
- Aerial cam.
- Angles from 0° to 70° with increments of 5°.
- "V" shaped sliding for auto-centered.
- Slider easy desassembly from the rear.

**Adjustment clearances**



**ABKL 0065  
ABKL 0100  
ABKL 0200**

**Keys**



# ABKL

Aerial cam for pierce and flange



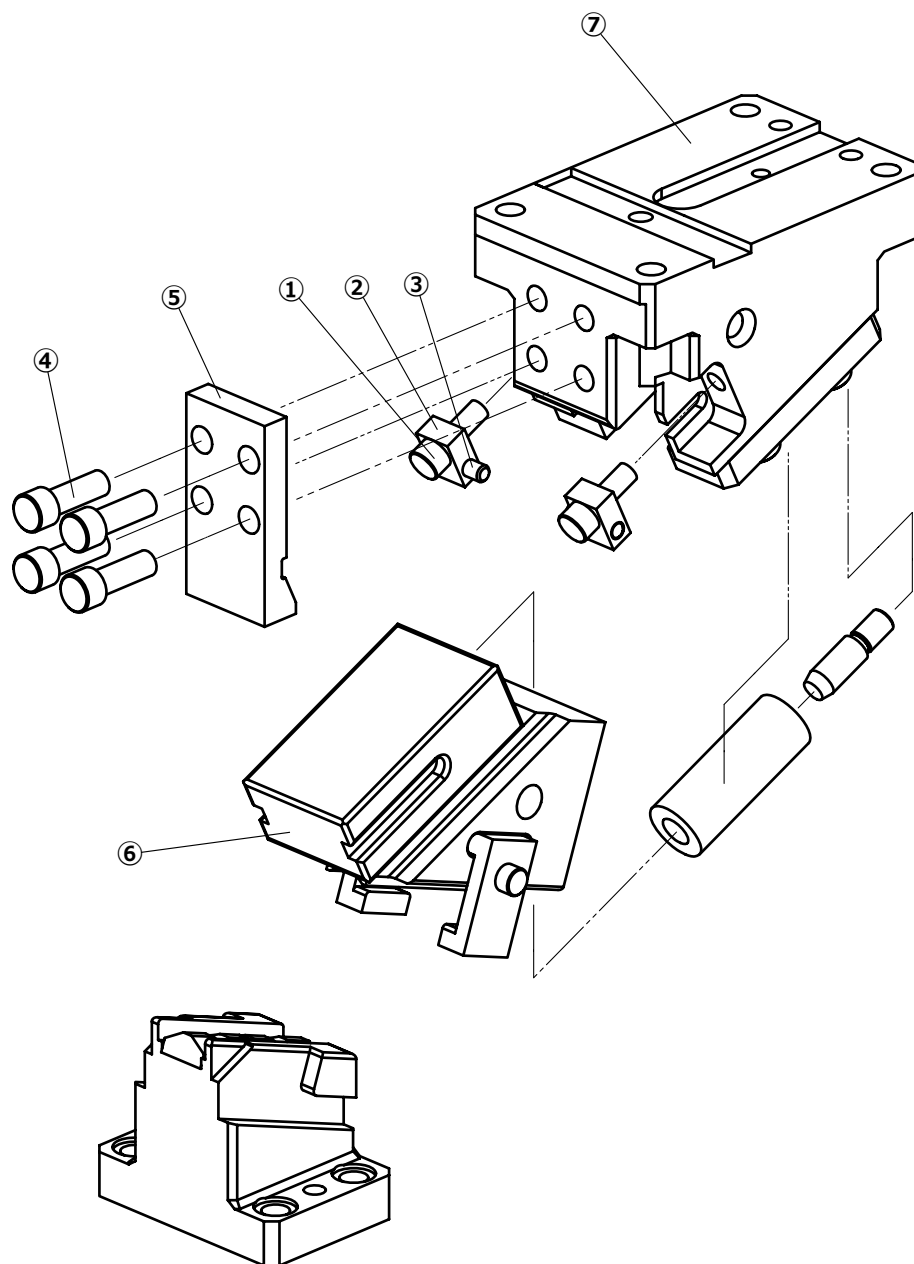
## Assembling and disassembling

### Disassembling process

- Unscrew ① pieces and remove stopper plates ② and the pin ③.
- Unscrew ④ and remove plate ⑤.
- Push cam slider ⑥ and remove cam support ⑦.

### Assembling process

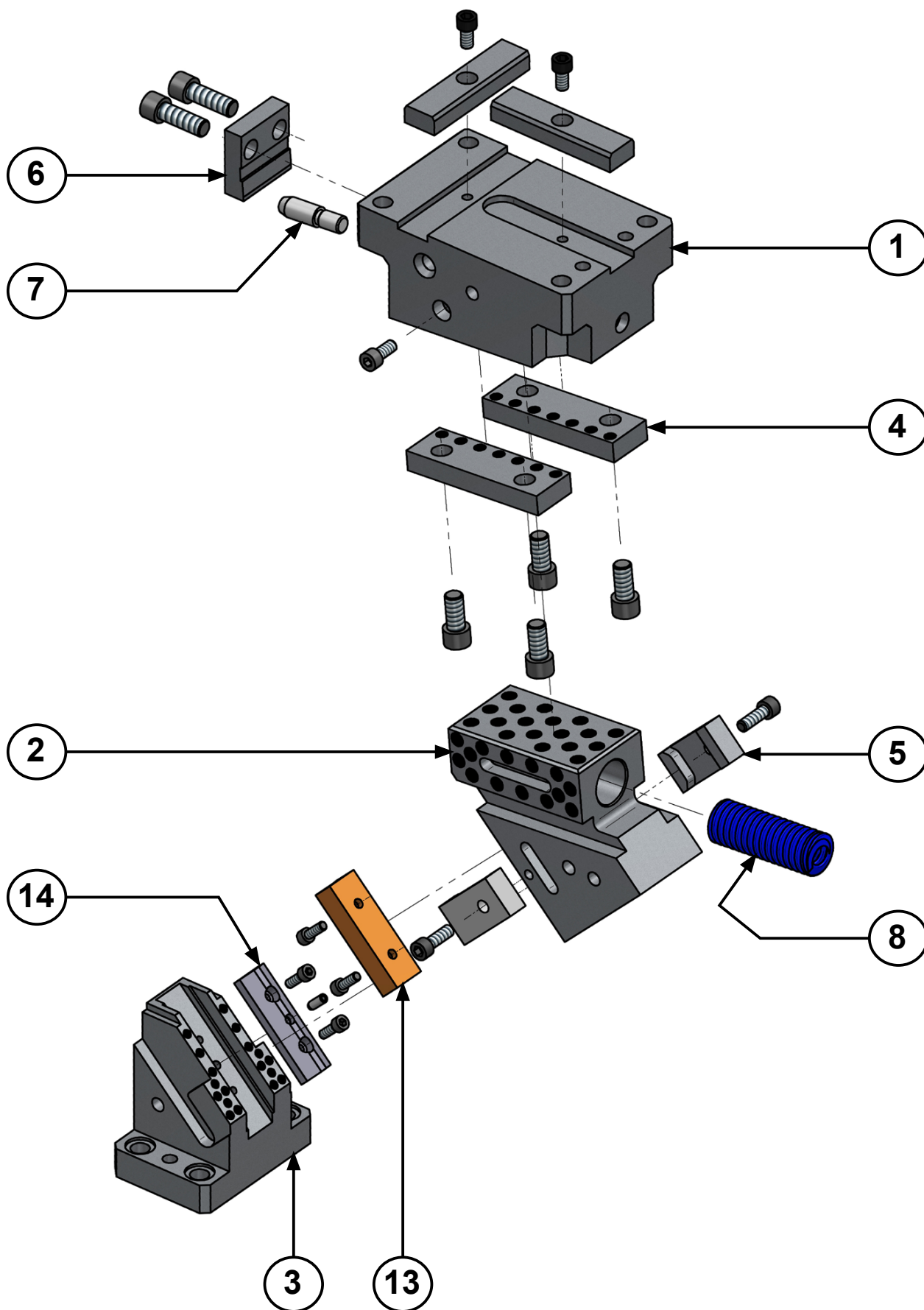
- Make sure that there are no metal shaving or impurities.
- The clearance between the cam holder and slider is controlled.
- Match the serial numbers marked in each part before assembly.
- Make sure that all the screws have been used.





# ABKL 0065

Aerial cam for pierce and flange

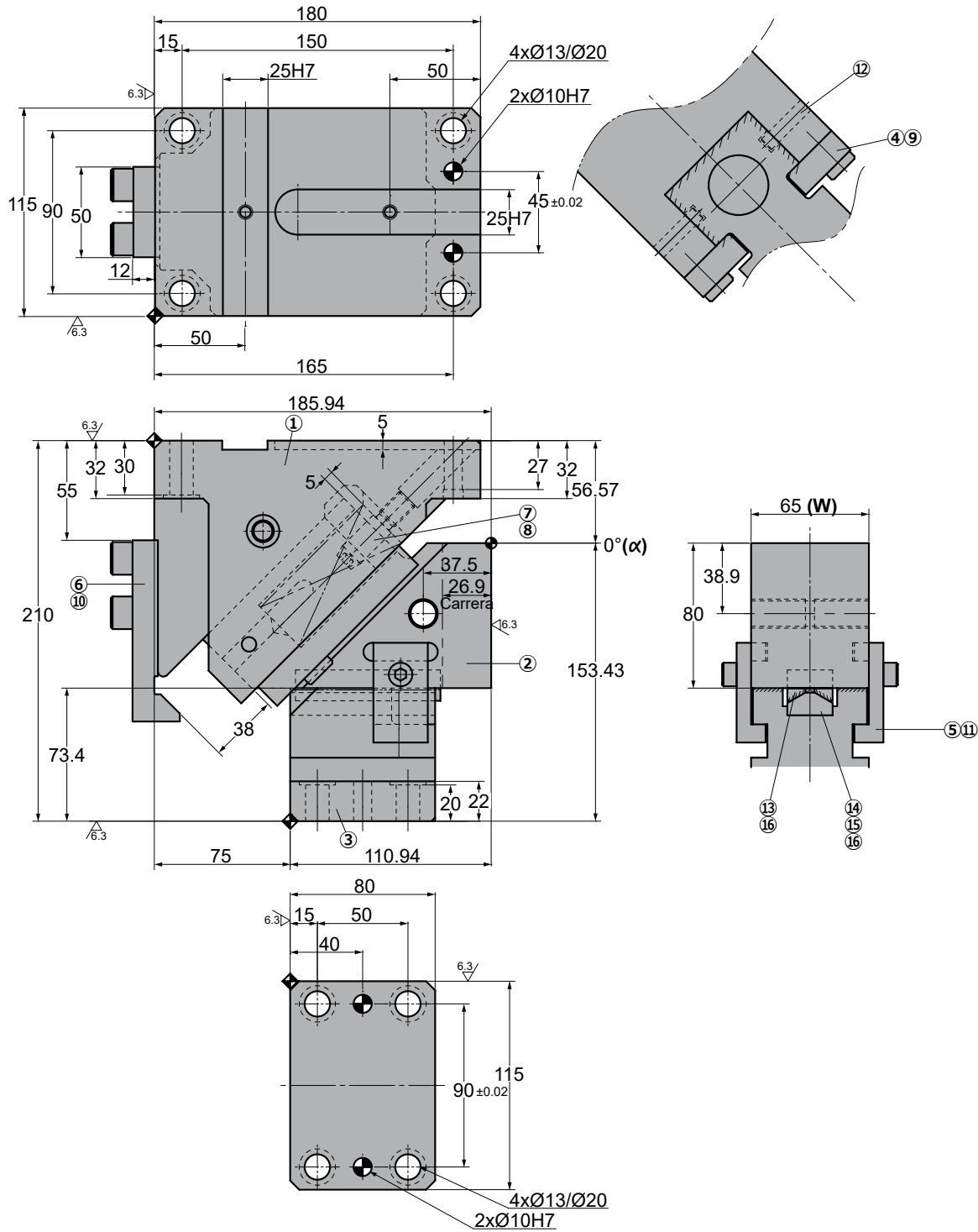


# ABKL 0065

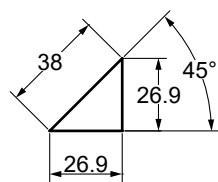
Aerial cam for pierce and flange



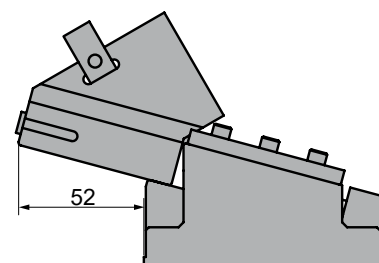
## ABKL 0065 00



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
26.9	19.6 (2.0)	39.2 (4.0)	165.9 (16.9)	1069.2 (109.0)	<b>ABKL</b>	<b>0065</b>	<b>00</b>



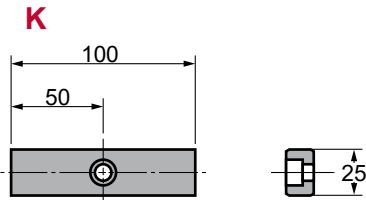
Order: Model (W) ( $\alpha$ )  
**ABKL 0065 00**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

**K**

**KEY**



1 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 00-K**



**SPARE PARTS:**

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

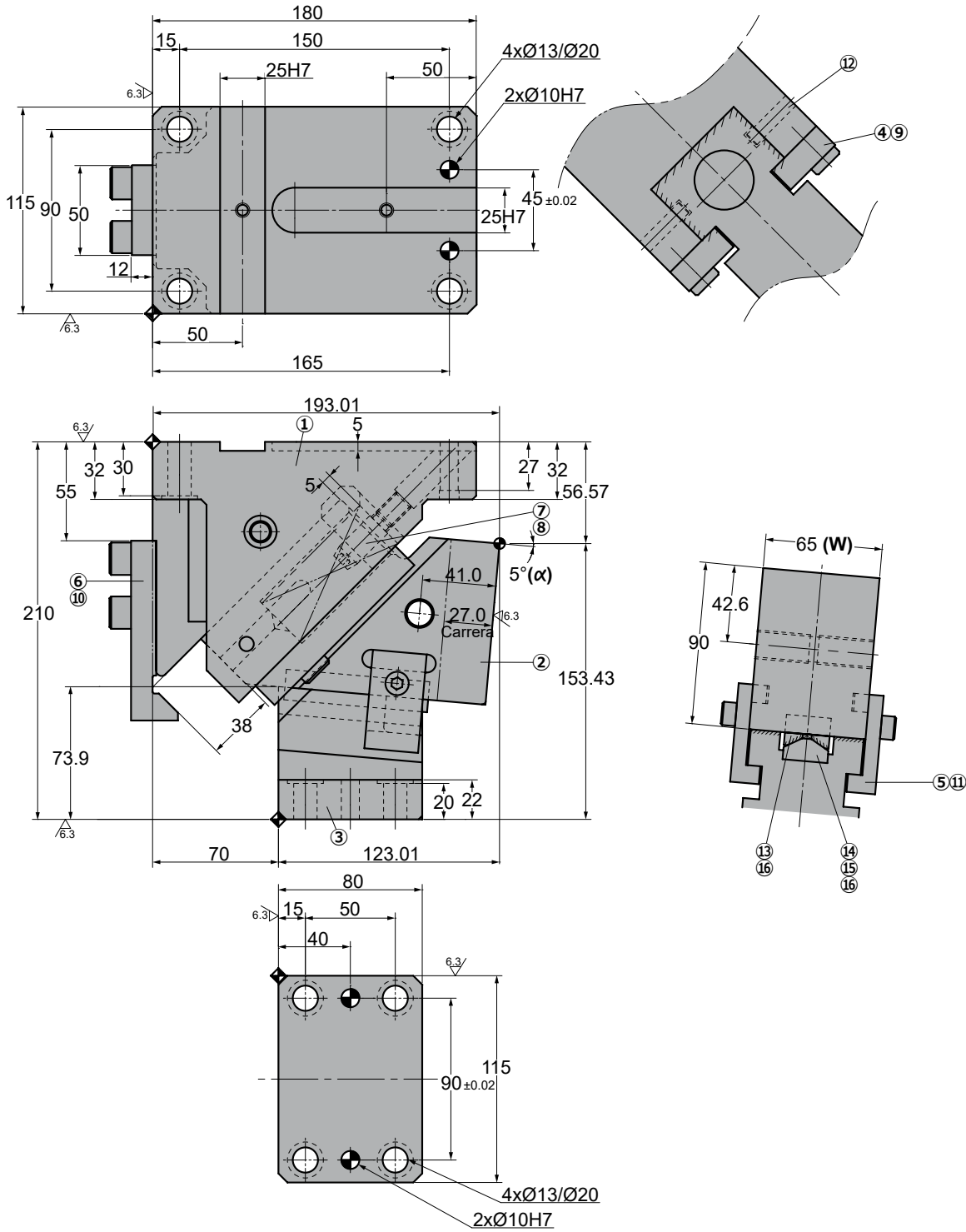
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

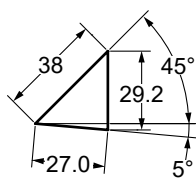
Aerial cam for pierce and flange



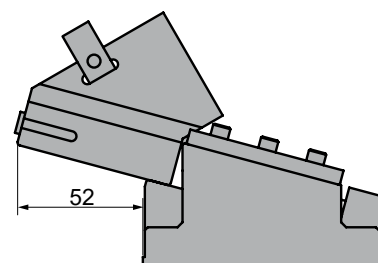
## ABKL 0065 05



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
27.0	19.6 (2.0)	39.2 (4.0)	237.0 (24.2)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>05</b>



Order: Model (W) ( $\alpha$ )

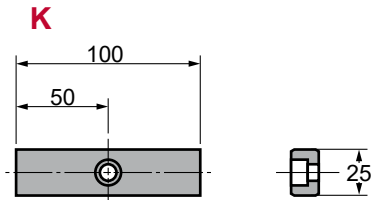
**ABKL 0065 05**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

**K**

**KEY**



1 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 05-K**



**SPARE PARTS:**

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

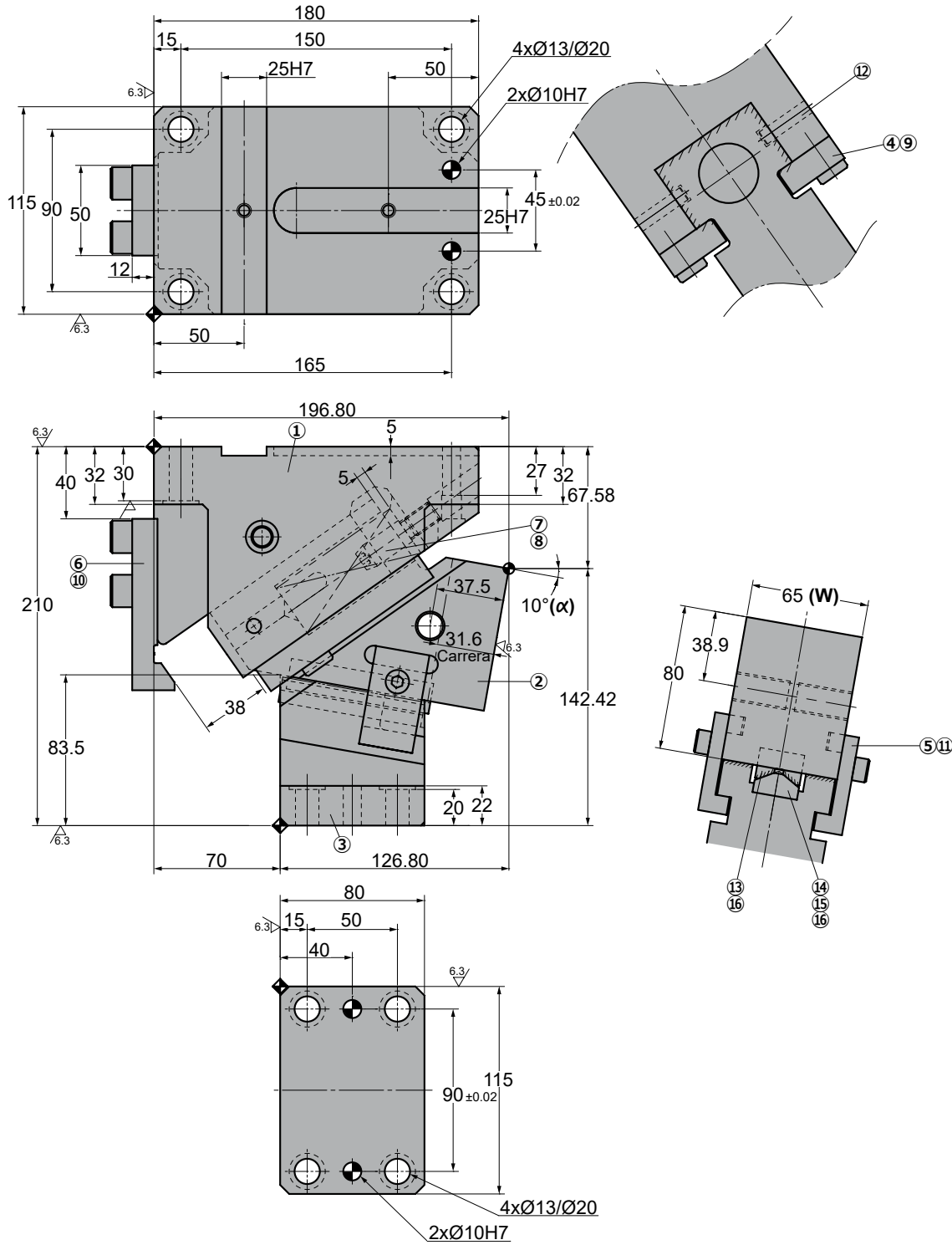
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

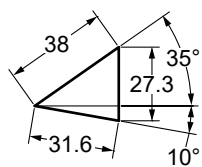
Aerial cam for pierce and flange



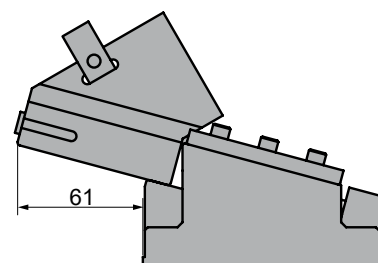
## ABKL 0065 10



### ◦Cam diagram:



### ◦Disassembling space:







# ABKL 0065

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
31.6	19.6 (2.0)	39.2 (4.0)	237.0 (24.2)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>10</b>



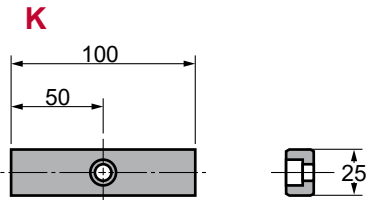
Order: Model (W) ( $\alpha$ )  
**ABKL 0065 10**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

**K**

**KEY**



1 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 10-K**



**SPARE PARTS:**

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

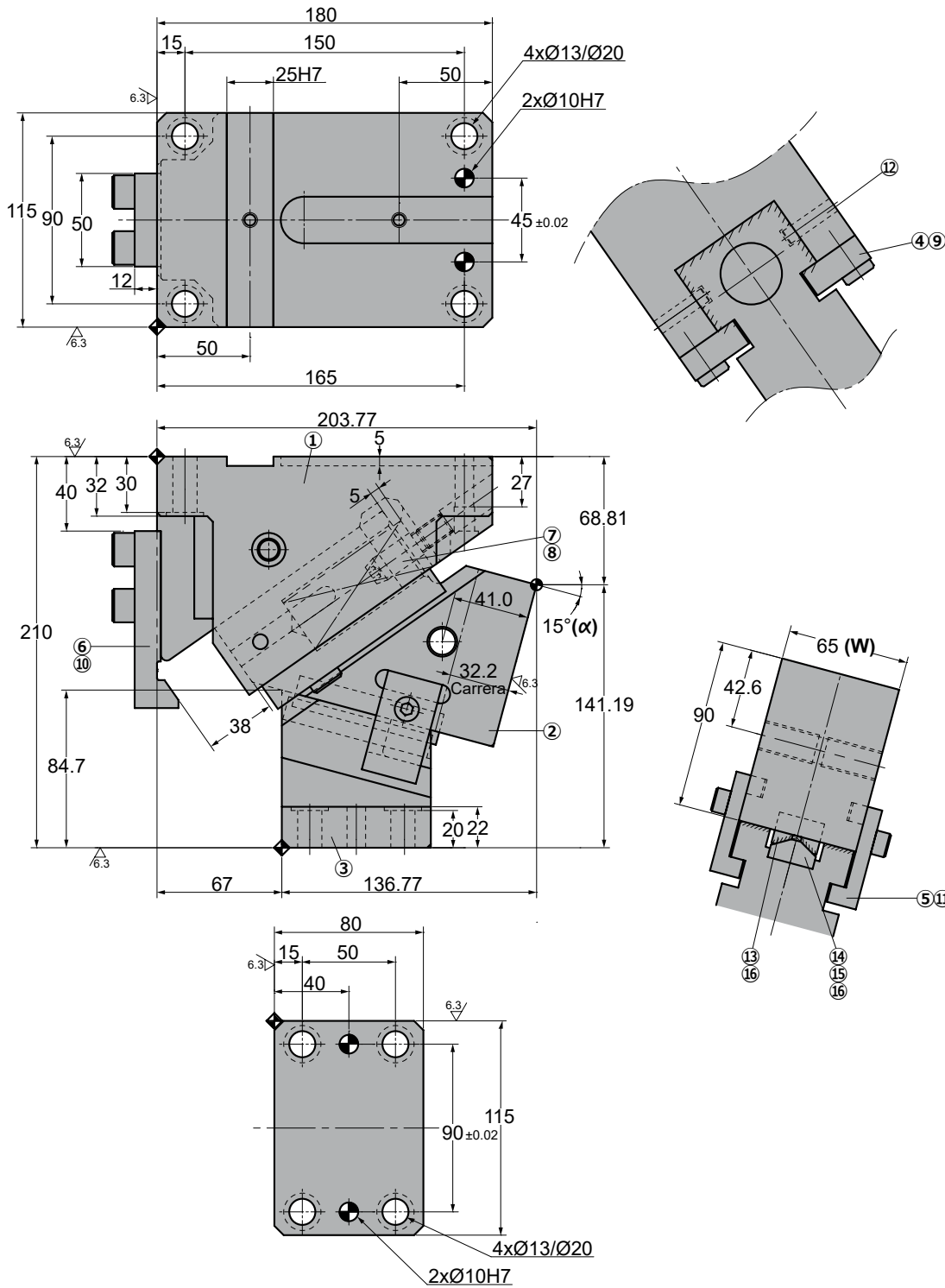
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

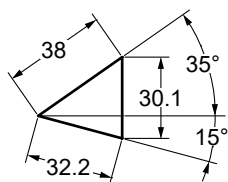
Aerial cam for pierce and flange



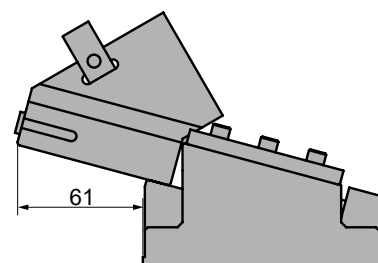
## ABKL 0065 15



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

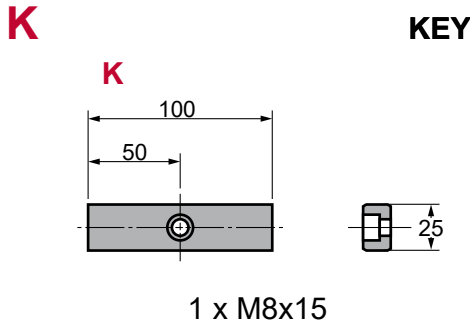
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
32.2	19.6 (2.0)	39.2 (4.0)	237.0 (24.2)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>15</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 15**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 15-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

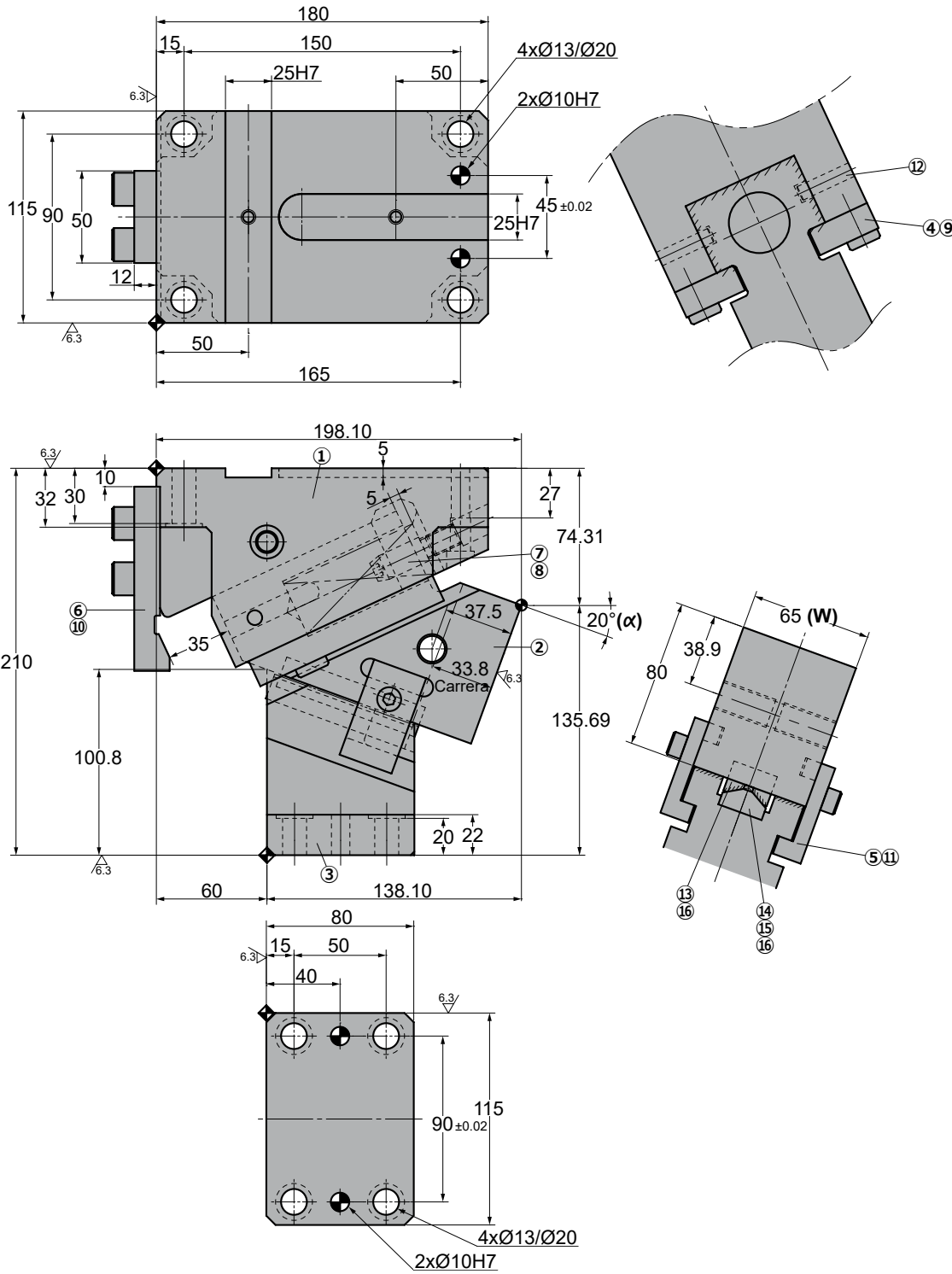
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

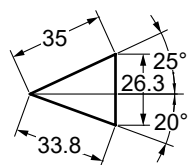
Aerial cam for pierce and flange



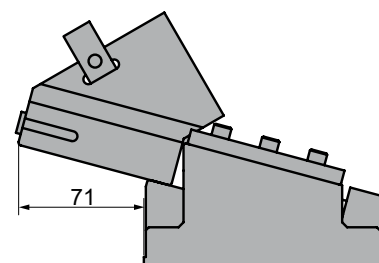
## ABKL 0065 20



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.8	19.6 (2.0)	39.2 (4.0)	308.1 (31.4)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>20</b>



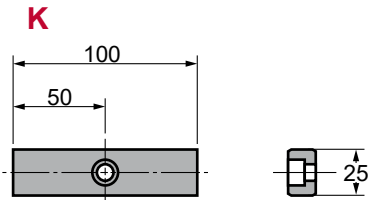
Order: Model (W) ( $\alpha$ )  
**ABKL 0065 20**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

**K**

**KEY**



1 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 20-K**



**SPARE PARTS:**

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

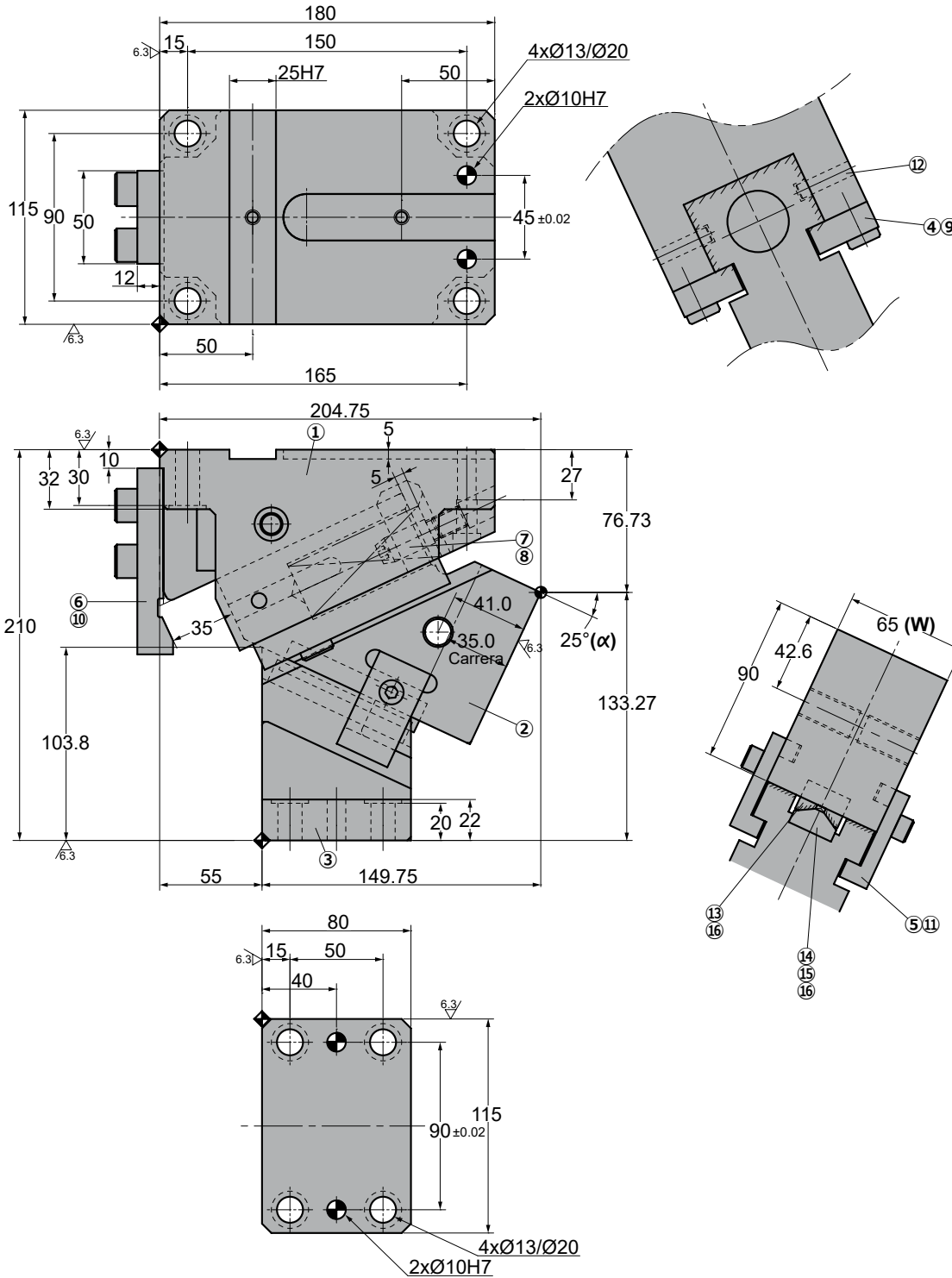
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

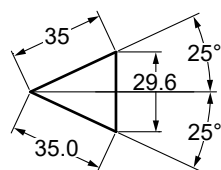
Aerial cam for pierce and flange



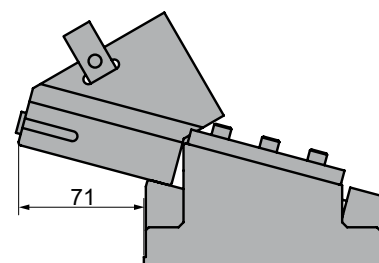
## ABKL 0065 25



### Cam diagram:



### Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

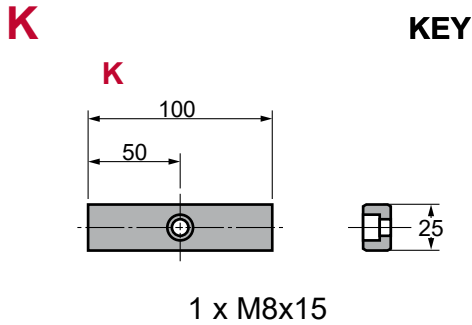
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
35.0	19.6 (2.0)	39.2 (4.0)	308.1 (31.4)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>25</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 25**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 25-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

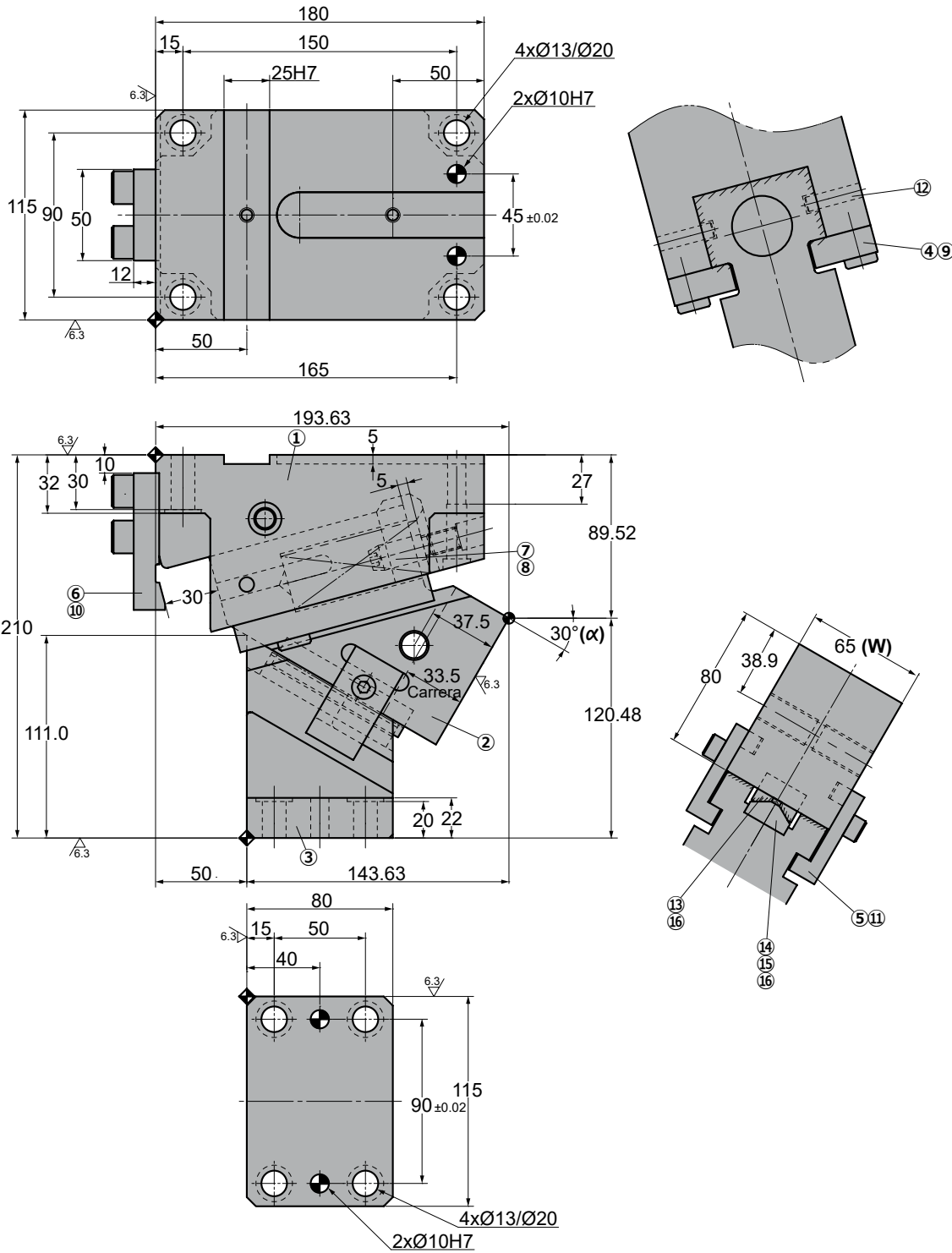
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

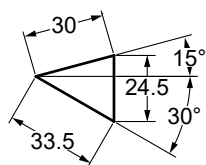
Aerial cam for pierce and flange



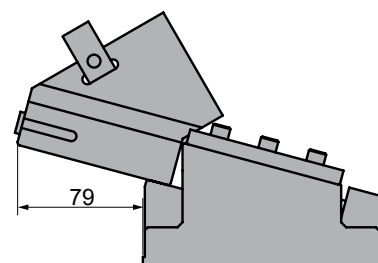
## ABKL 0065 30



◦Cam diagram:



◦Disassembling space:







# ABKL 0065

Aerial cam for pierce and flange

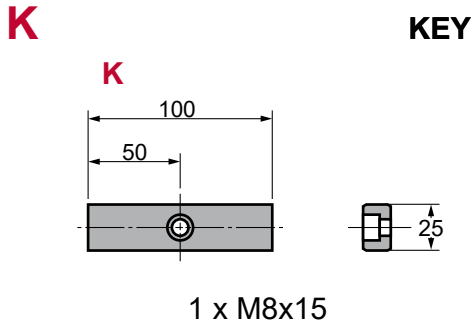
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.5	19.6 (2.0)	39.2 (4.0)	426.6 (43.5)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>30</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 30**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 30-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

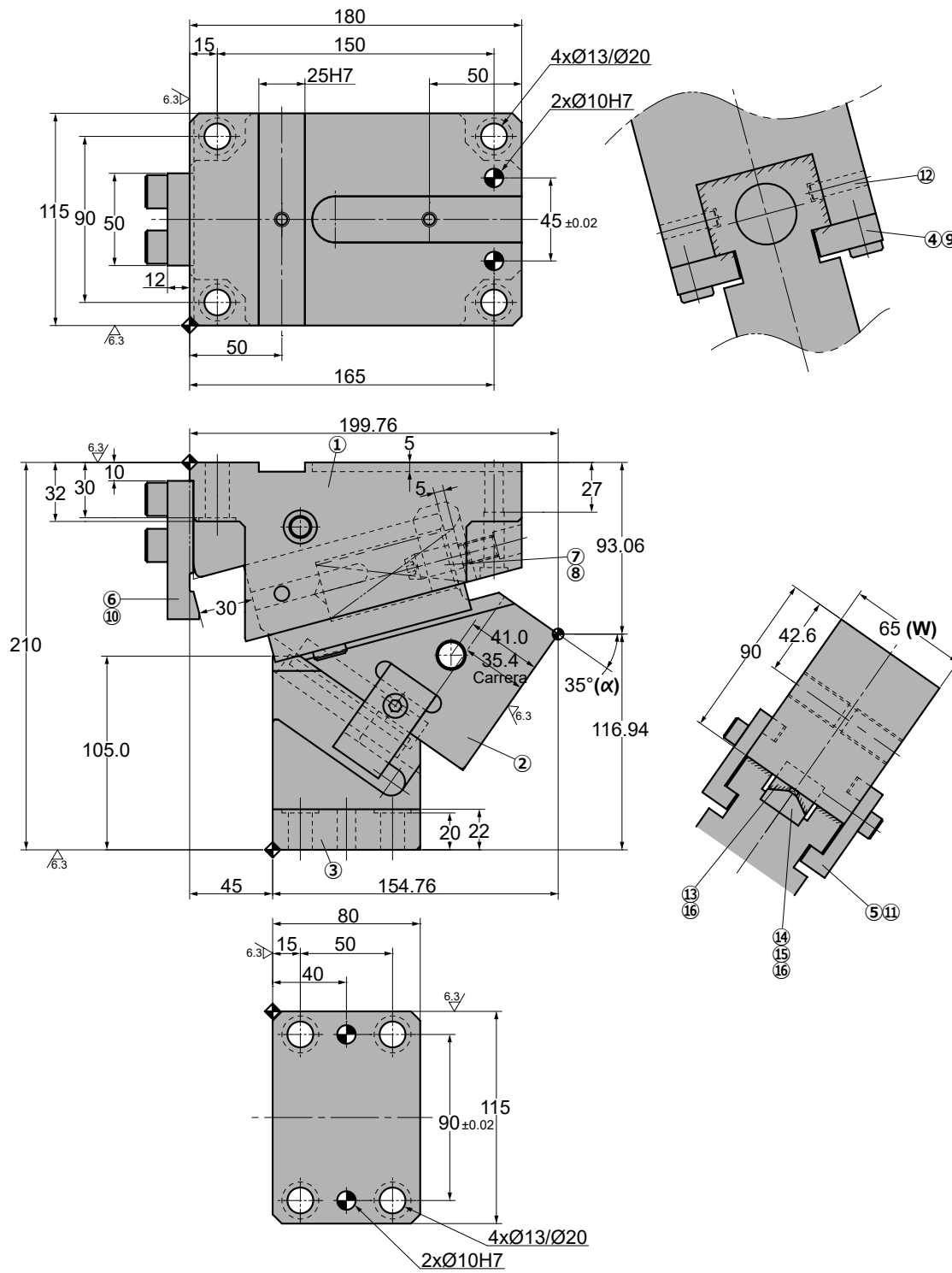
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

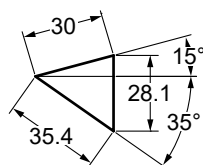
Aerial cam for pierce and flange



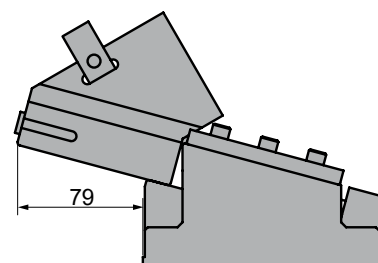
## ABKL 0065 35



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
35.4	19.6 (2.0)	39.2 (4.0)	426.6 (43.5)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>35</b>



Order: Model (W) ( $\alpha$ )

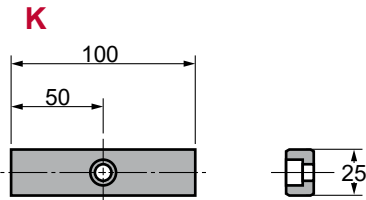
**ABKL 0065 35**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

**K**

**KEY**



1 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 35-K**



**SPARE PARTS:**

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	4	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

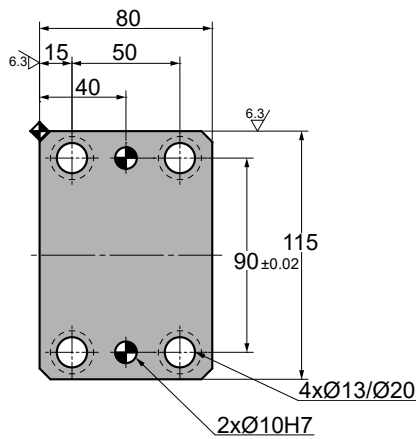
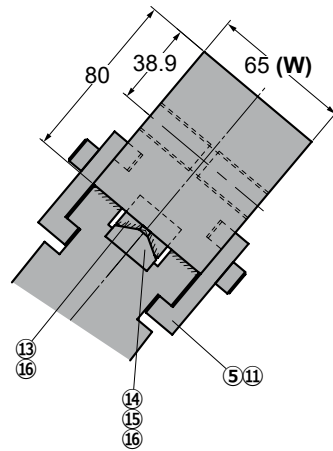
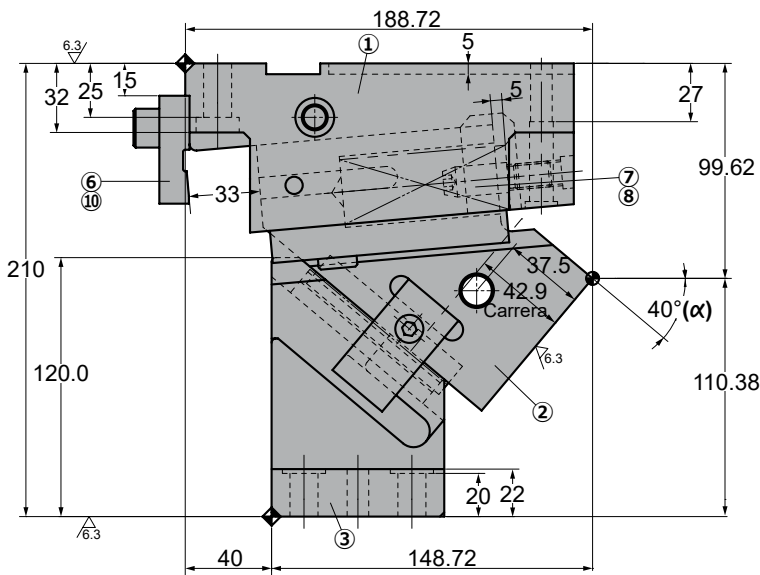
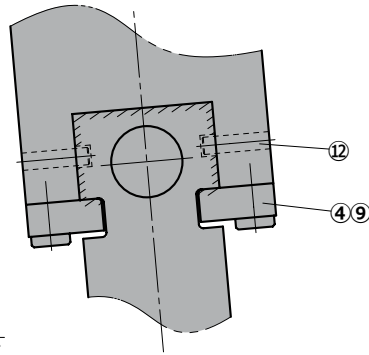
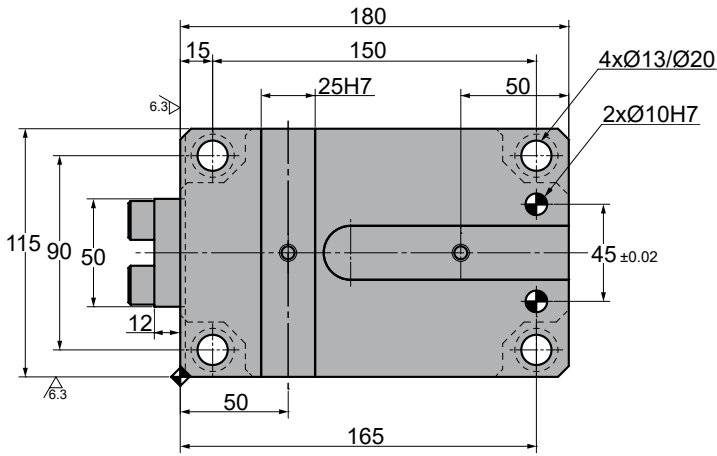
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

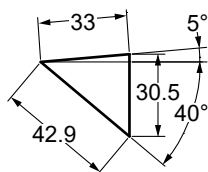
Aerial cam for pierce and flange



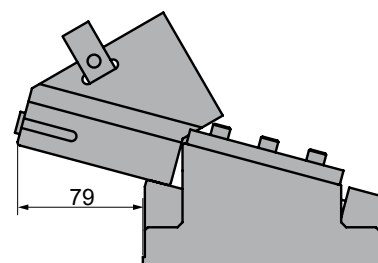
## ABKL 0065 40



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

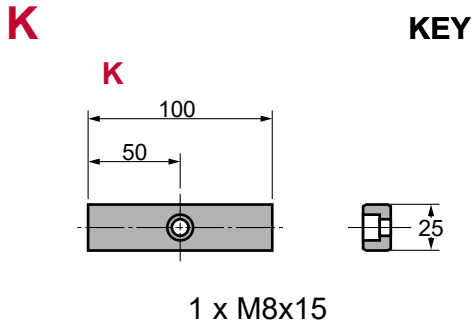
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
42.9	19.6 (2.0)	39.2 (4.0)	355.5 (36.5)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>40</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 40**

Standard order example according to catalog sheet.  
 Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 40-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

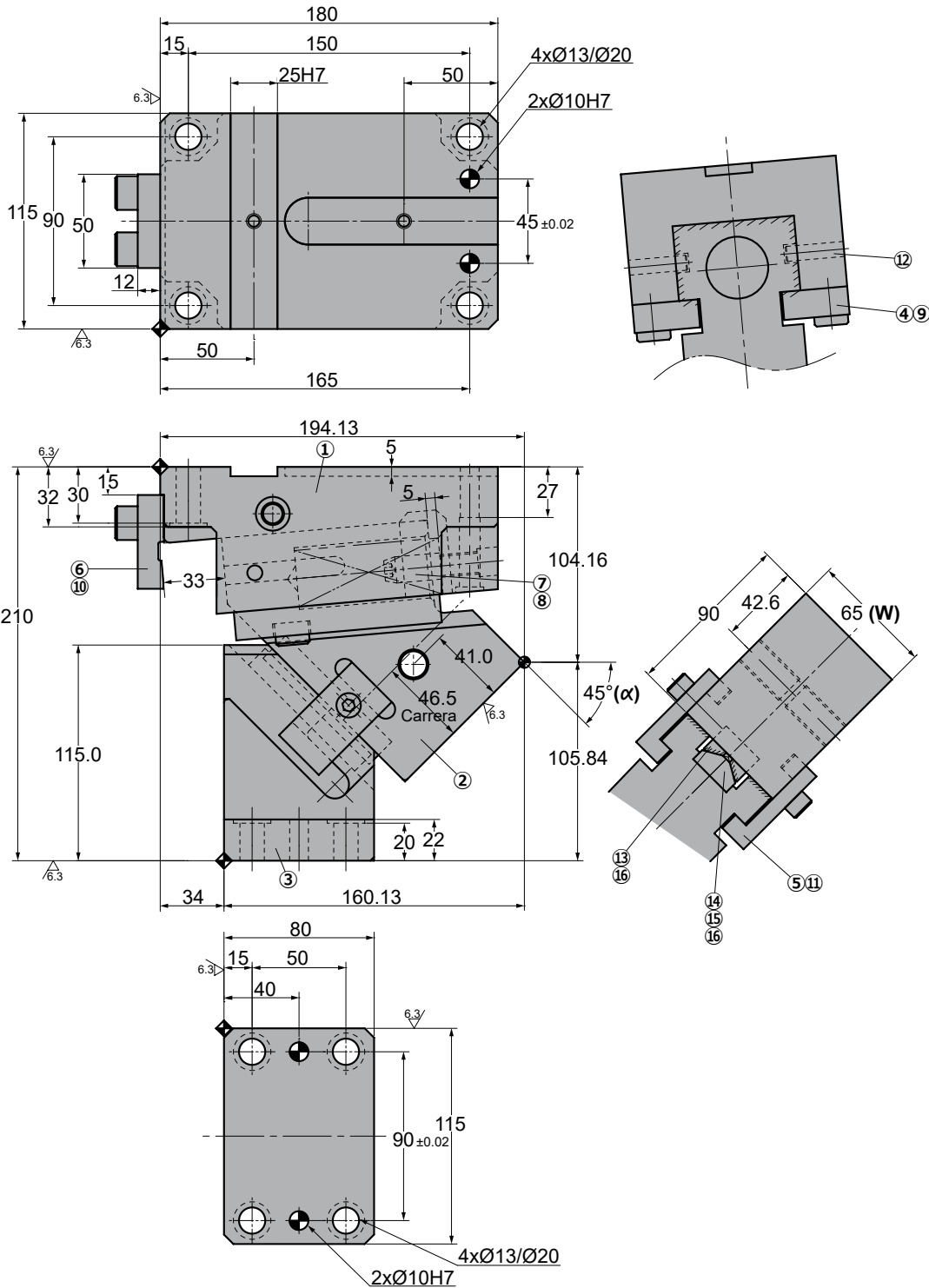
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

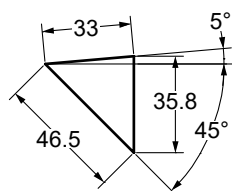
Aerial cam for pierce and flange



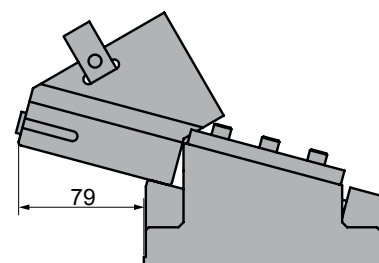
## ABKL 0065 45



### Cam diagram:



### Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

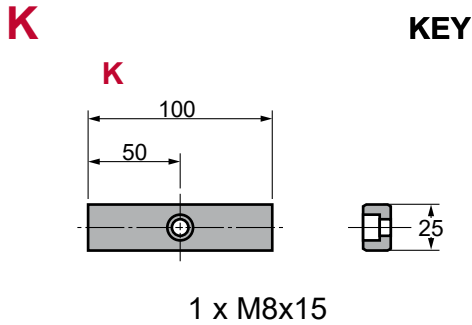
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
46.5	19.6 (2.0)	39.2 (4.0)	355.5 (36.5)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>45</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 45**

Standard order example according to catalog sheet.  
 Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 45-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

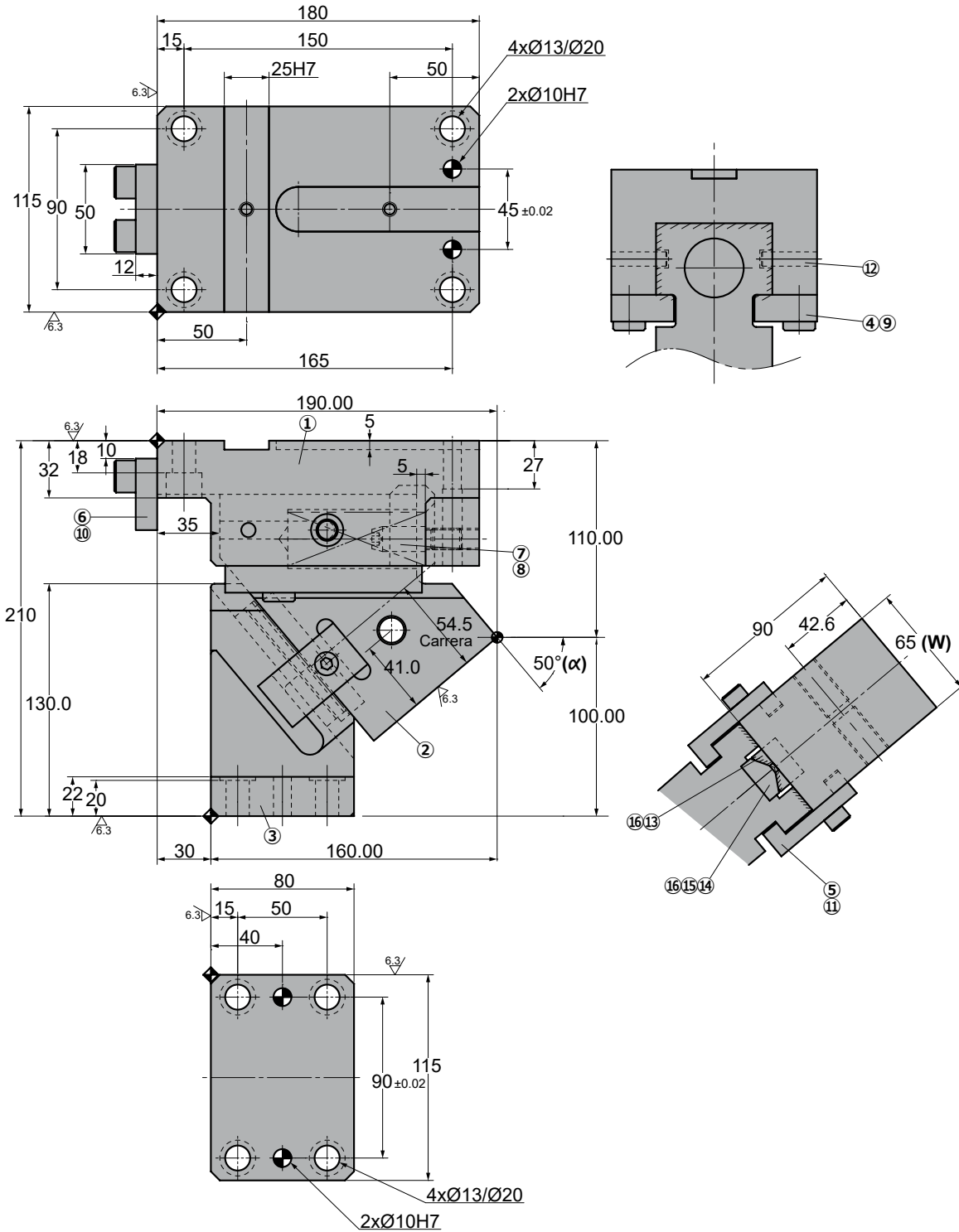
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

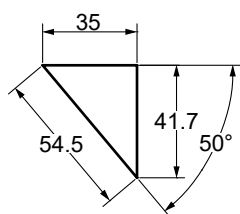
Aerial cam for pierce and flange



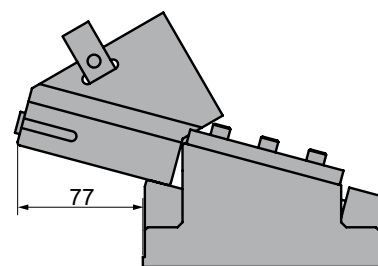
## ABKL 0065 50



◦Cam diagram:



◦Disassembling space:







# ABKL 0065

Aerial cam for pierce and flange

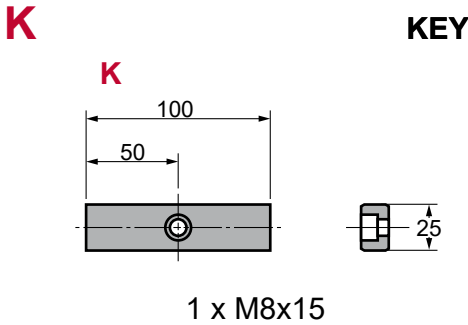
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
54.5	19.6 (2.0)	39.2 (4.0)	308.1 (31.4)	1140.5 (116.3)	<b>ABKL</b>	<b>0065</b>	<b>50</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 50**

Standard order example according to catalog sheet.  
 Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 50-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-125
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

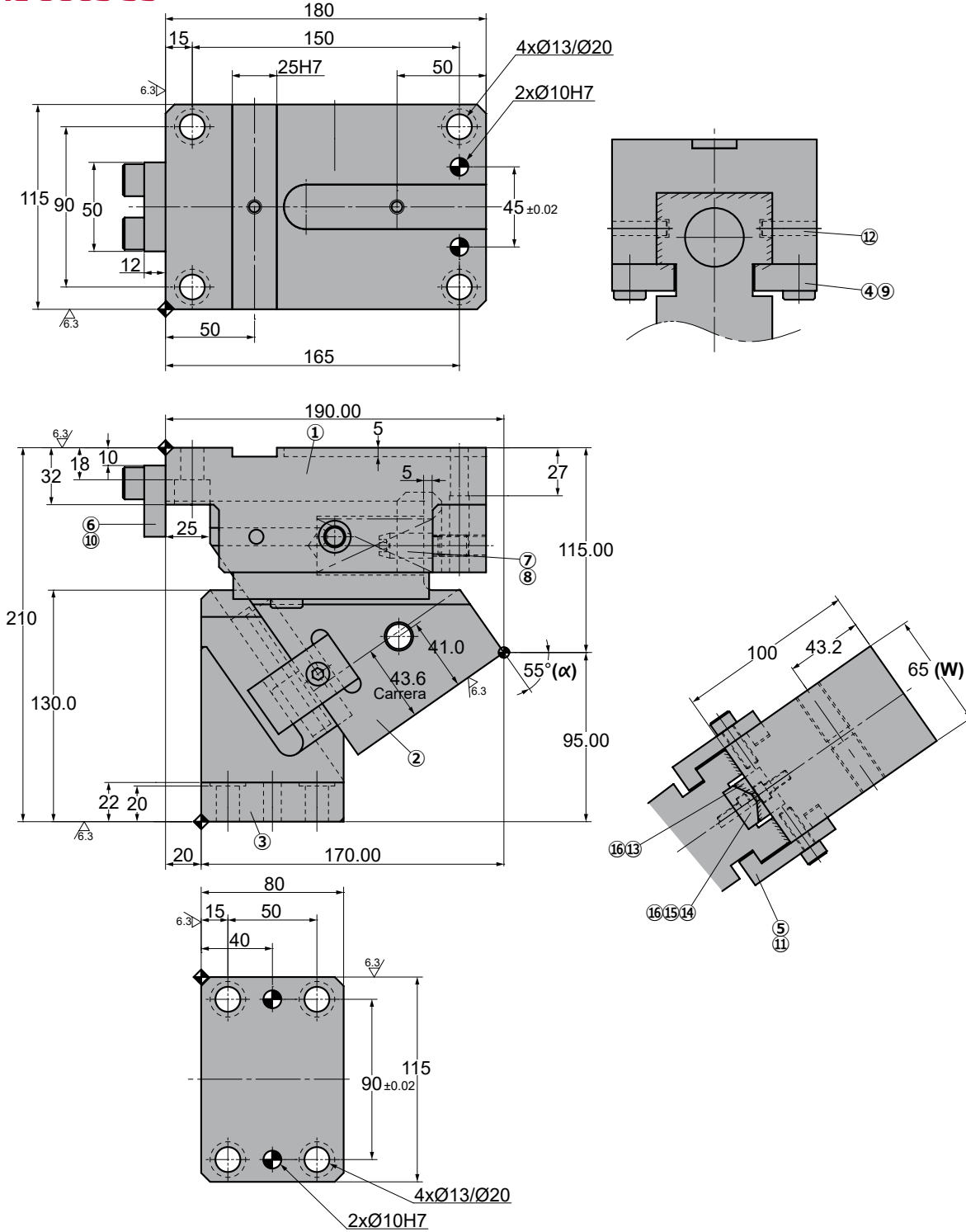
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

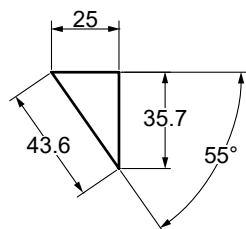
Aerial cam for pierce and flange



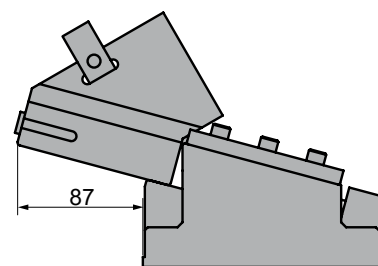
## ABKL 0065 55



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

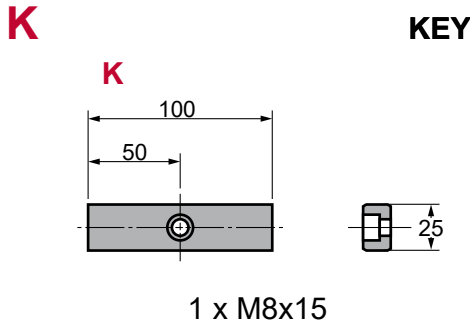
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
43.6	19.6 (2.0)	39.2 (4.0)	297.0 (30.3)	1039.2 (106.0)	<b>ABKL</b>	<b>0065</b>	<b>55</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 55**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 55-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-100
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

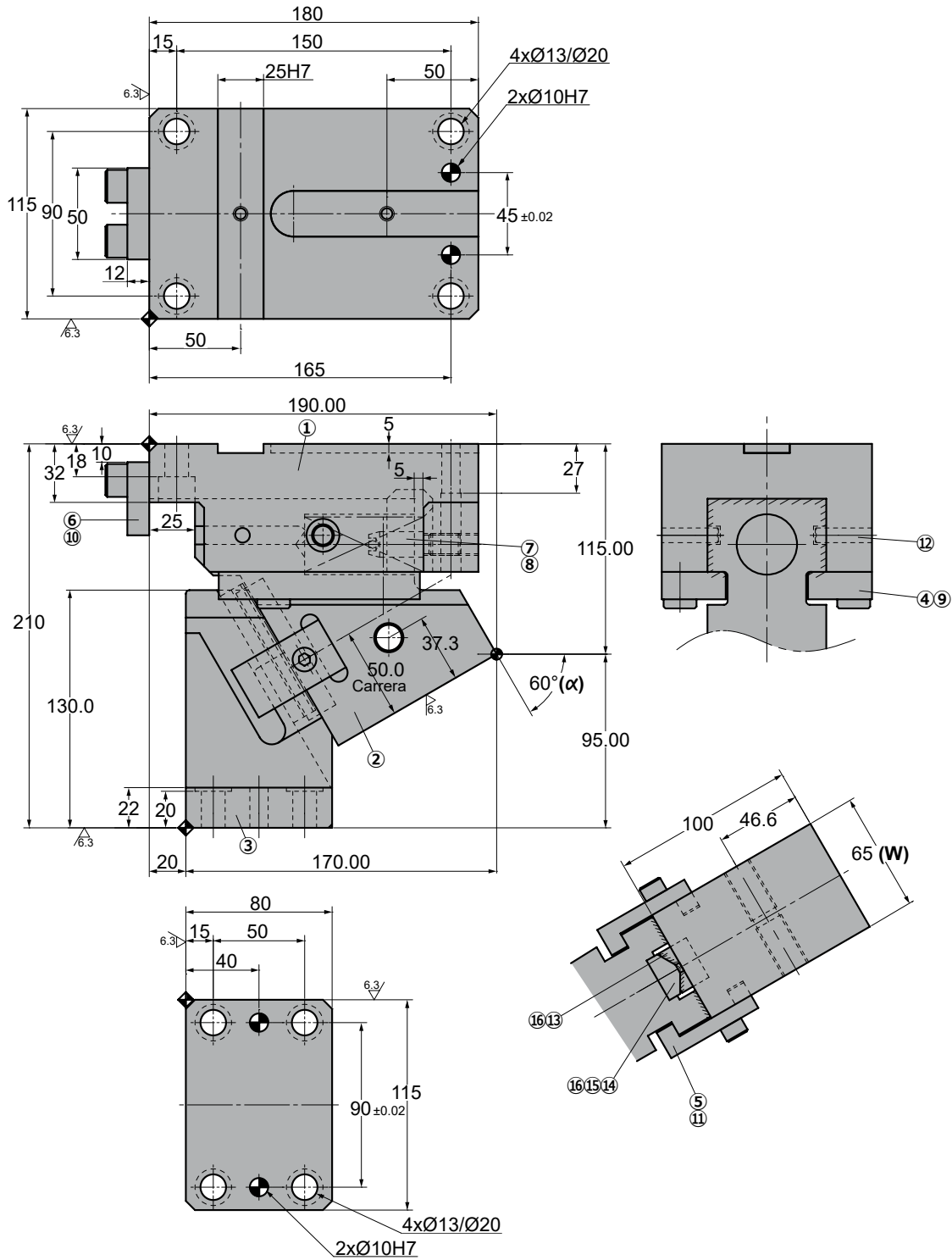
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

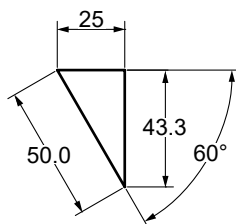
Aerial cam for pierce and flange



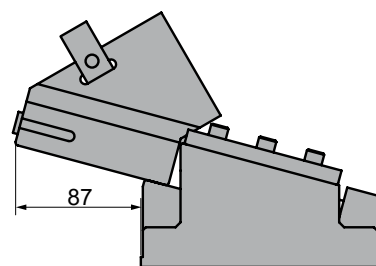
## ABKL 0065 60



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

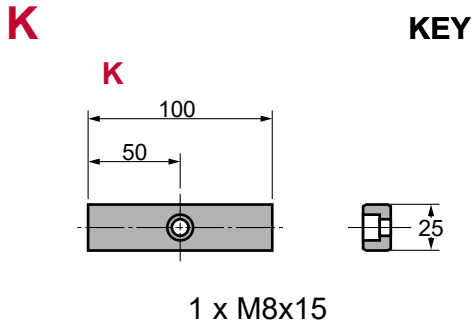
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
50.0	19.6 (2.0)	39.2 (4.0)	297.0 (30.3)	1039.2 (106.0)	<b>ABKL</b>	<b>0065</b>	<b>60</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 60**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 60-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-100
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

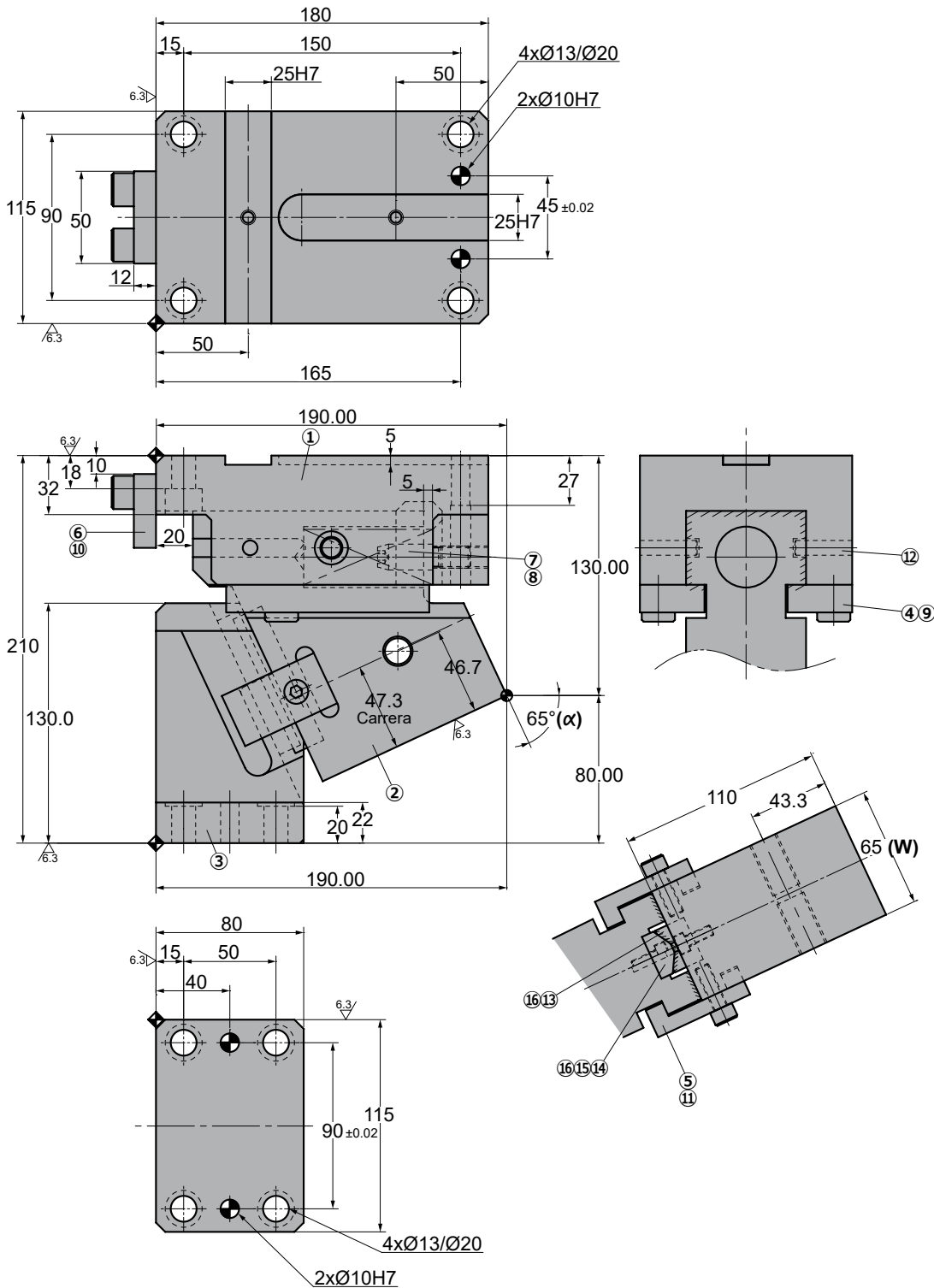
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

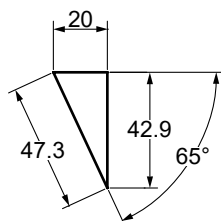
Aerial cam for pierce and flange



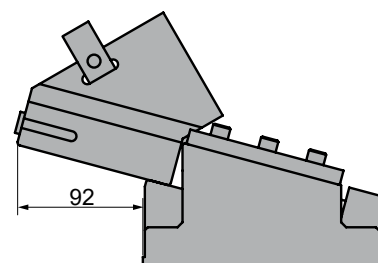
## ABKL 0065 65



◦Cam diagram:



◦Disassembling space:





# ABKL 0065

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
47.3	19.6 (2.0)	39.2 (4.0)	297.0 (30.3)	890.7 (90.8)	<b>ABKL</b>	<b>0065</b>	<b>65</b>



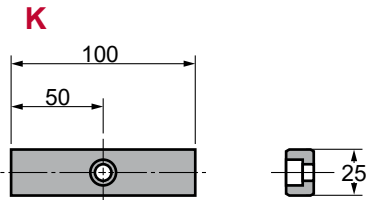
Order: Model (W) ( $\alpha$ )  
**ABKL 0065 65**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

**K**

**KEY**



1 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 65-K**



**SPARE PARTS:**

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-100
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

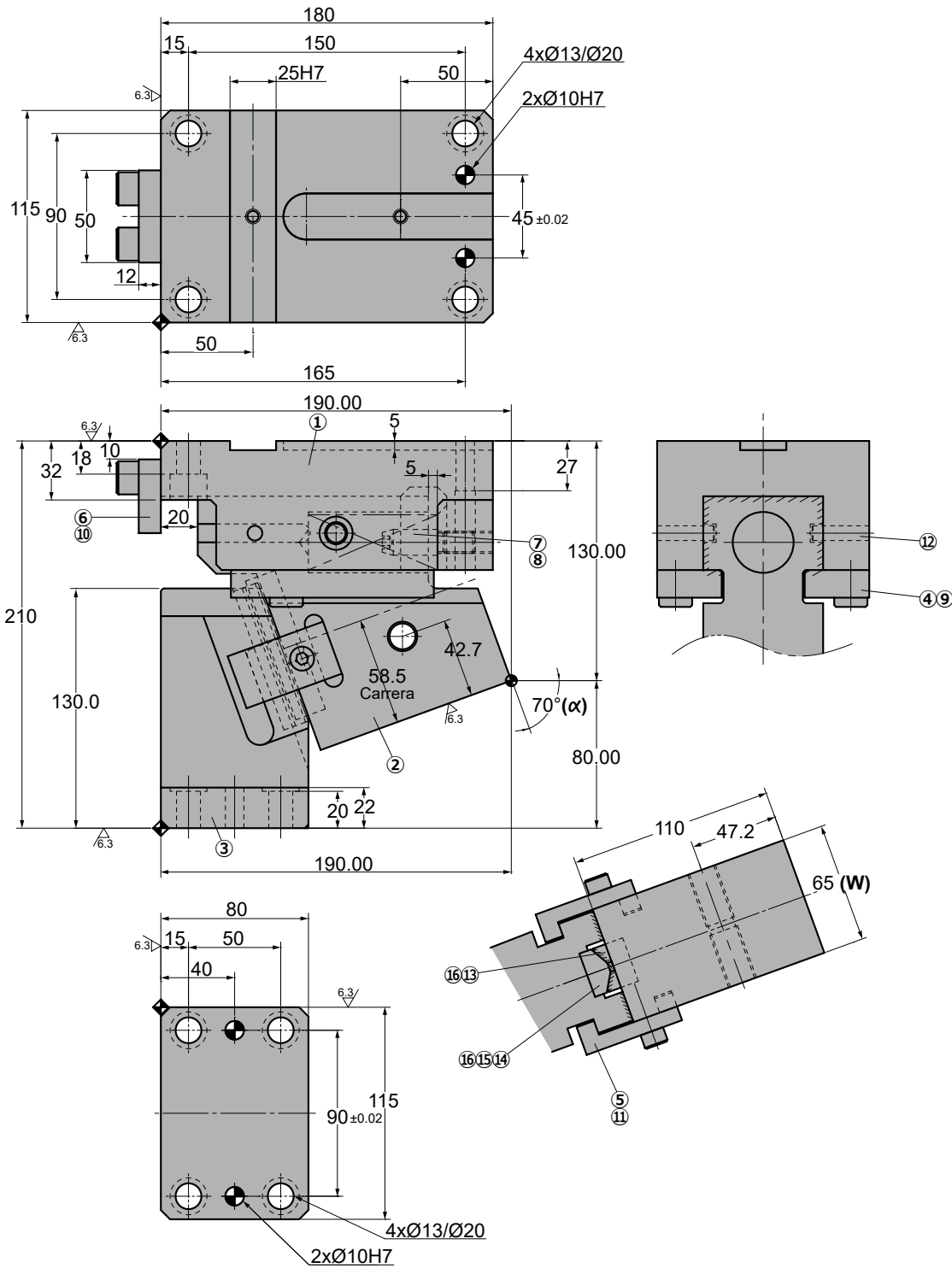
No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

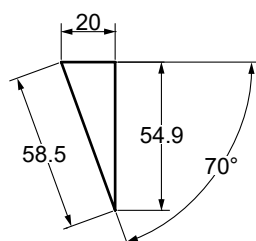
Aerial cam for pierce and flange



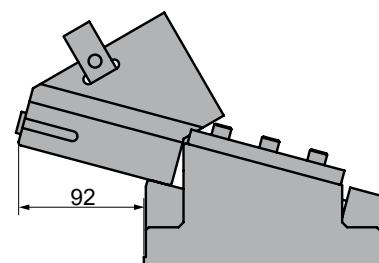
## ABKL 0065 70



◦Cam diagram:



◦Disassembling space:







# ABKL 0065

Aerial cam for pierce and flange

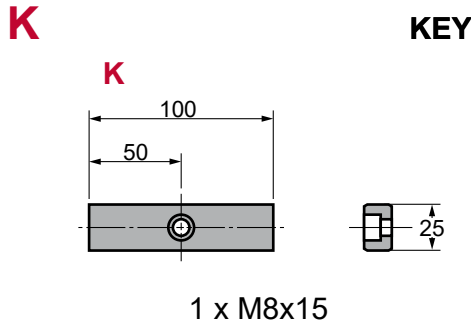
Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
58.5	19.6 (2.0)	39.2 (4.0)	297.0 (30.3)	890.7 (90.8)	<b>ABKL</b>	<b>0065</b>	<b>70</b>



Order: Model (W) ( $\alpha$ )  
**ABKL 0065 70**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0065 70-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑬ Upper Slide Guide
- ⑭ Lower Slide Guide

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50 + G
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	1	CK45
⑧	Coil Spring	1	TL30-100
⑨	Screw	4	M12 x 25
⑩	Screw	2	M12 x 35
⑪	Screw	2	M8 x 25
⑫	Screw	2	M8 x 20
⑬	Upper Slide Guide	1	Bronze + G
⑭	Lower Slide Guide	1	CK45
⑮	Dowel Pin	1	Ø6 x 20

No.	Description	Qty.	Material
⑯	Screw	4	M6 x 15

# ABKL 0065

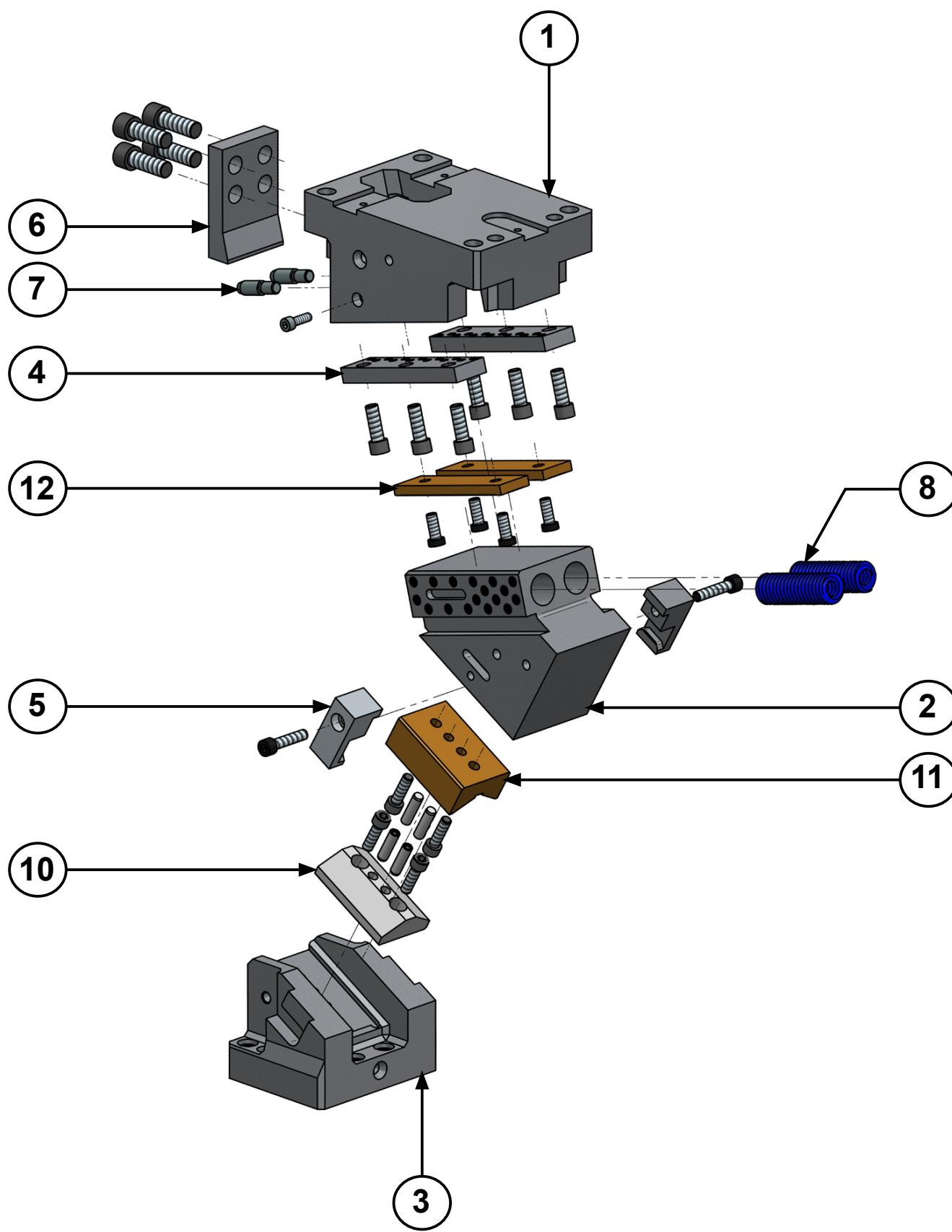


*Aerial cam for pierce and flange*



# ABKL 0100

Aerial cam for pierce and flange

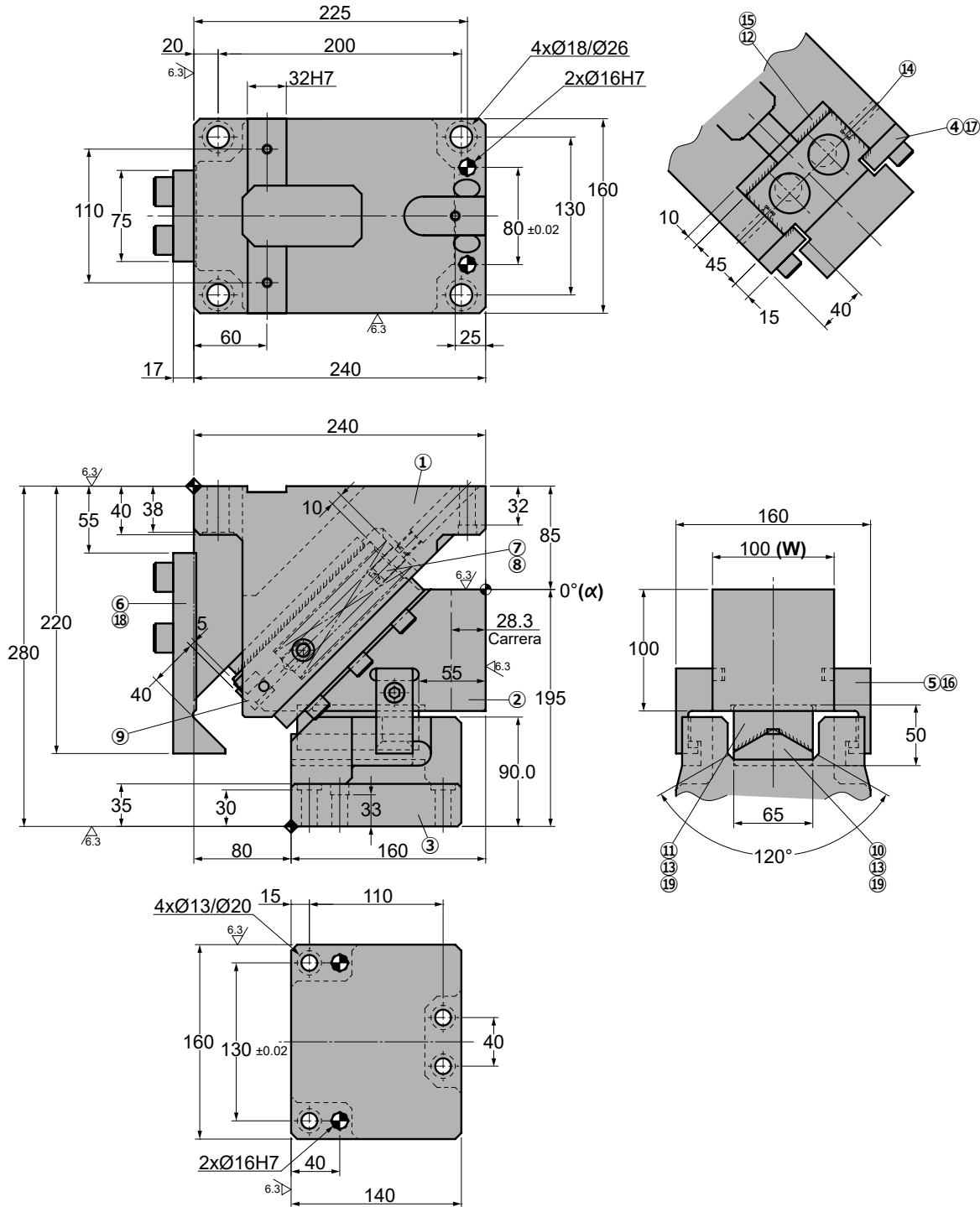


# ABKL 0100

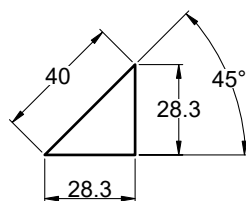
Aerial cam for pierce and flange



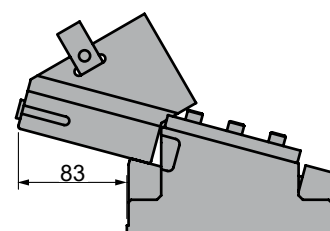
## ABKL 0100 00



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
28.3	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	<b>ABKL</b>	<b>0100</b>	<b>00</b>

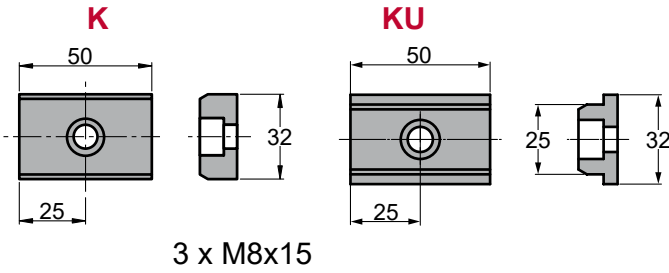


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 00**

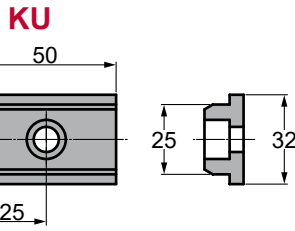
Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 00-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

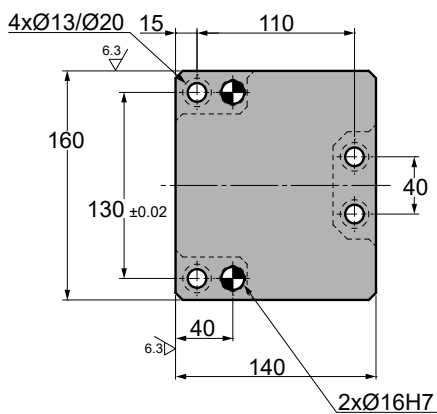
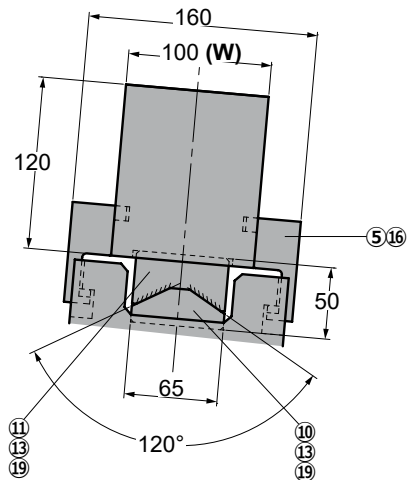
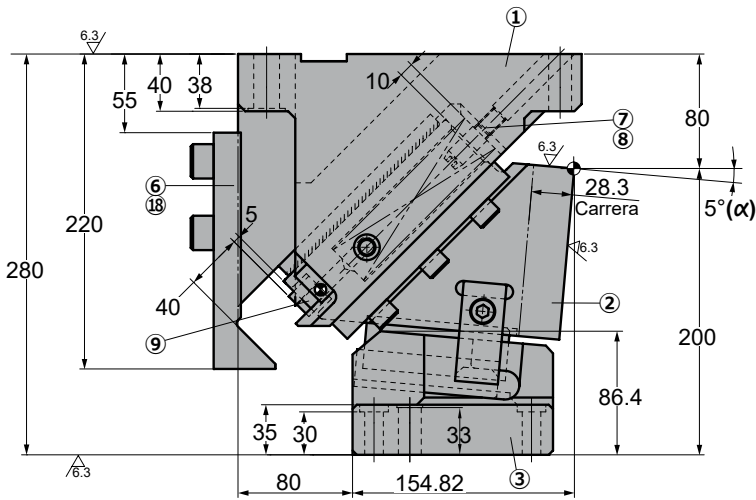
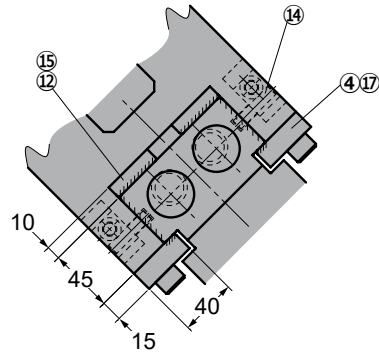
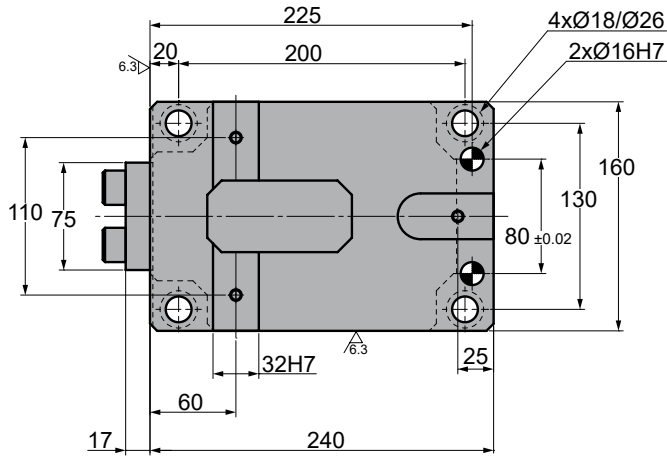
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

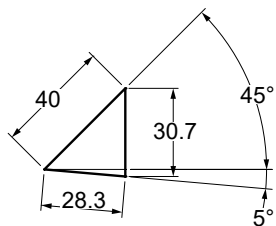
Aerial cam for pierce and flange



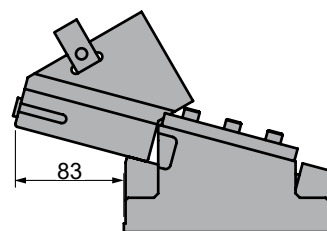
## ABKL 0100 05



### ◦Cam diagram:



### ◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
28.3	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	<b>ABKL</b>	<b>0100</b>	<b>05</b>

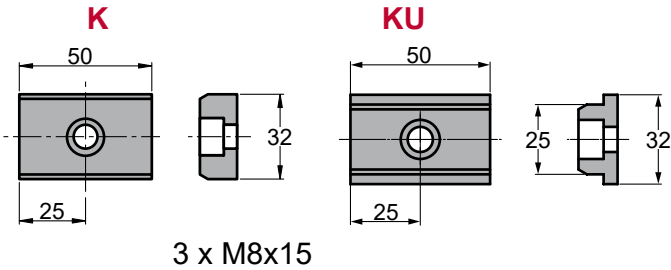


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 05**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY

#### KU

3 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 05-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

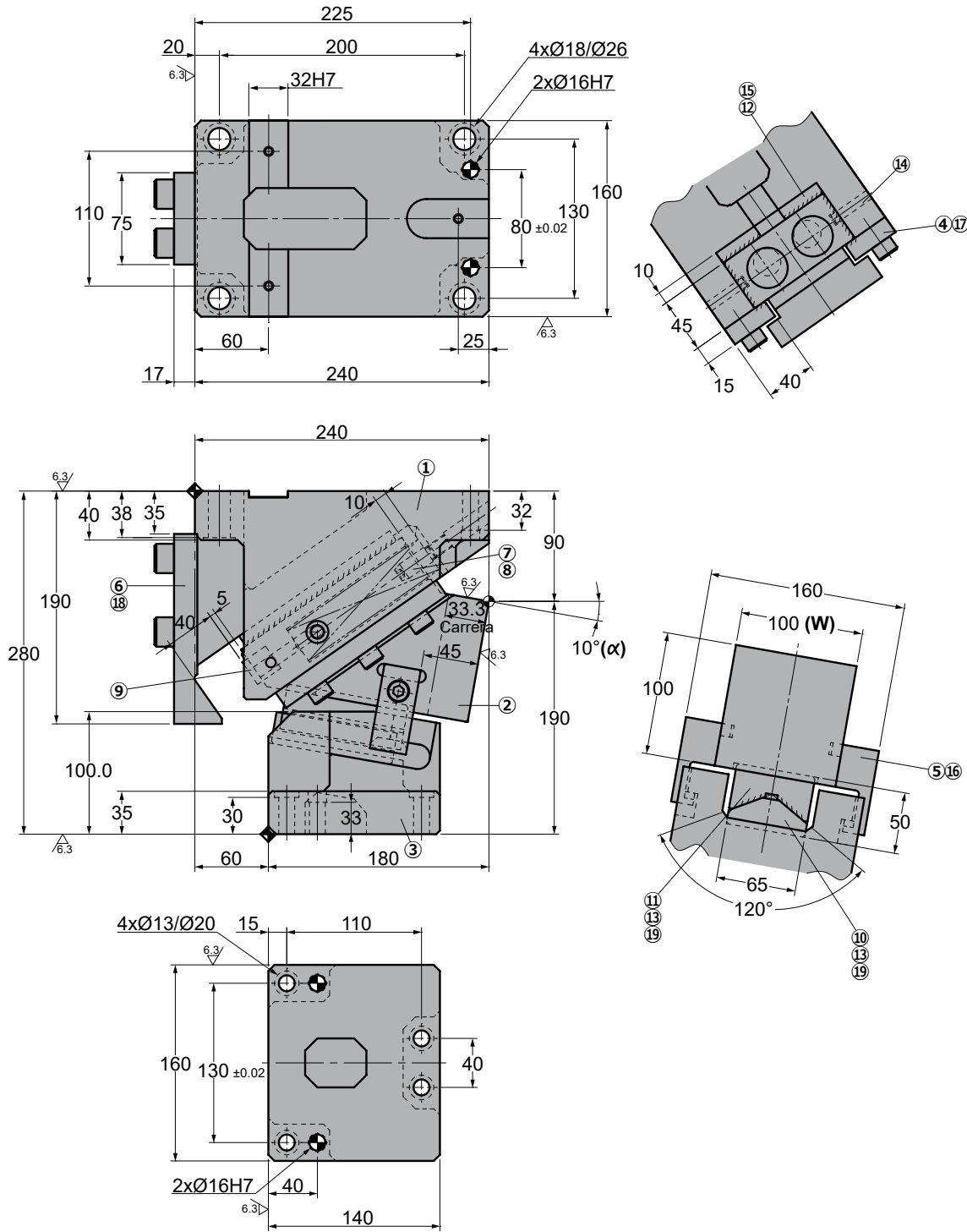
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

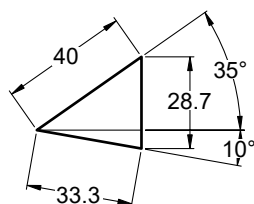
Aerial cam for pierce and flange



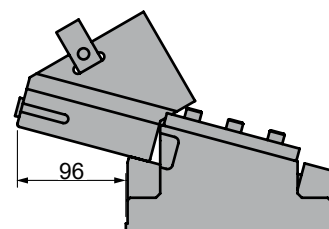
## ABKL 0100 10



◦Cam diagram:



◦Disassembling space:







# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.3	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	<b>ABKL</b>	<b>0100</b>	<b>10</b>

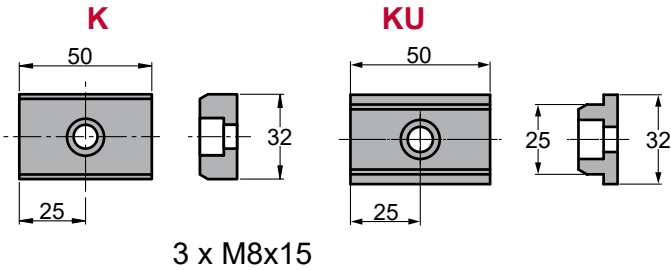


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 10**

Standard order example according to catalog sheet. Add options applying options table contents.

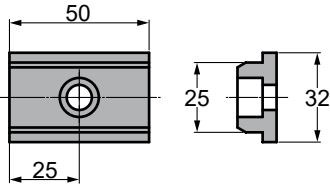
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 10-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

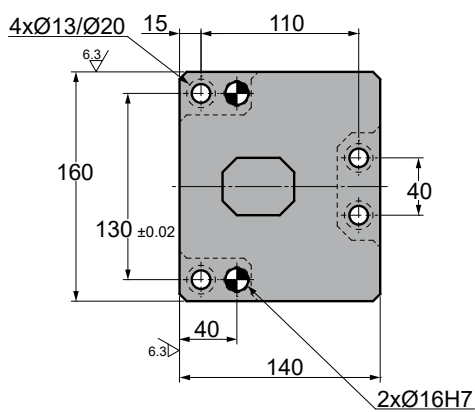
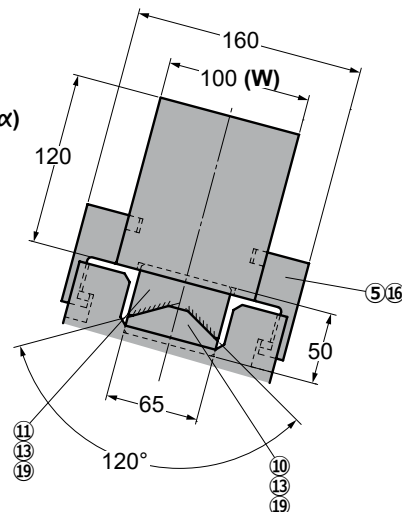
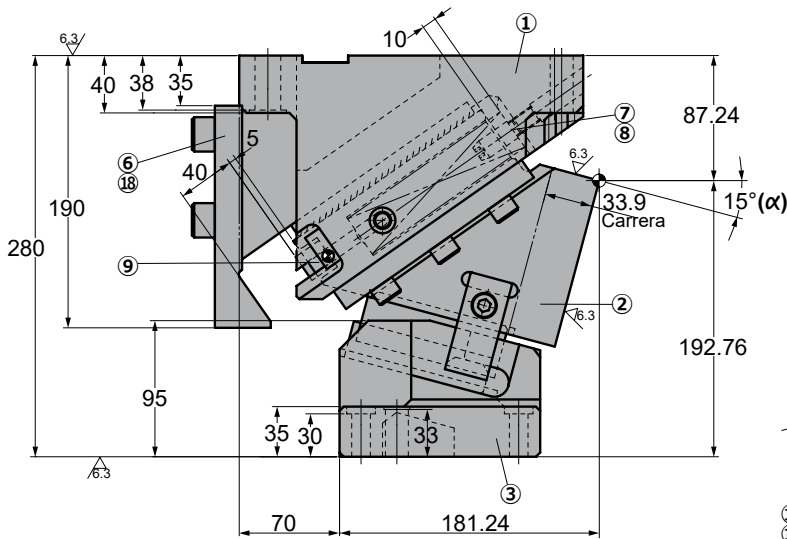
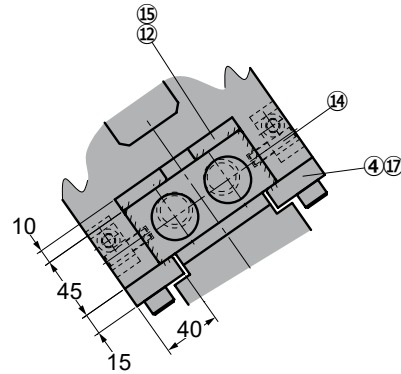
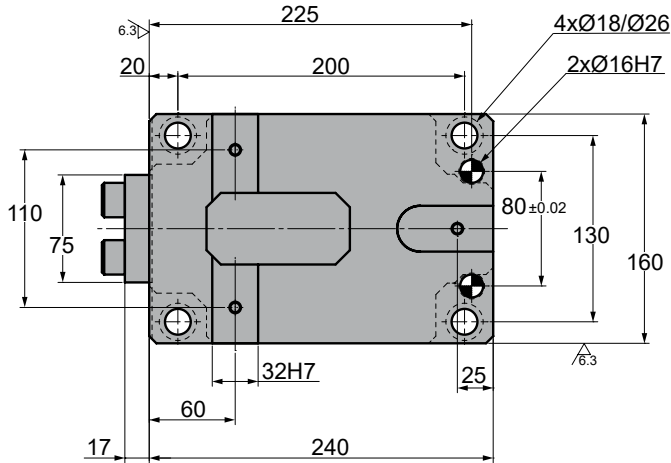
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

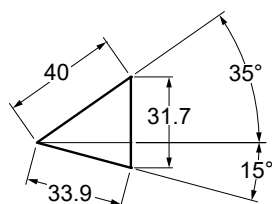
Aerial cam for pierce and flange



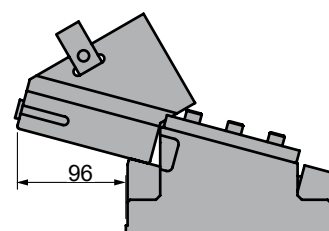
## ABKL 0100 15



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.9	44.1 (4.5)	88.2 (9.0)	313.3 (31.9)	2819.7 (287.5)	<b>ABKL</b>	<b>0100</b>	<b>15</b>

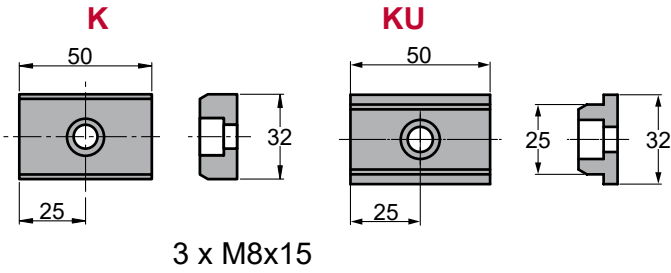


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 15**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 15-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

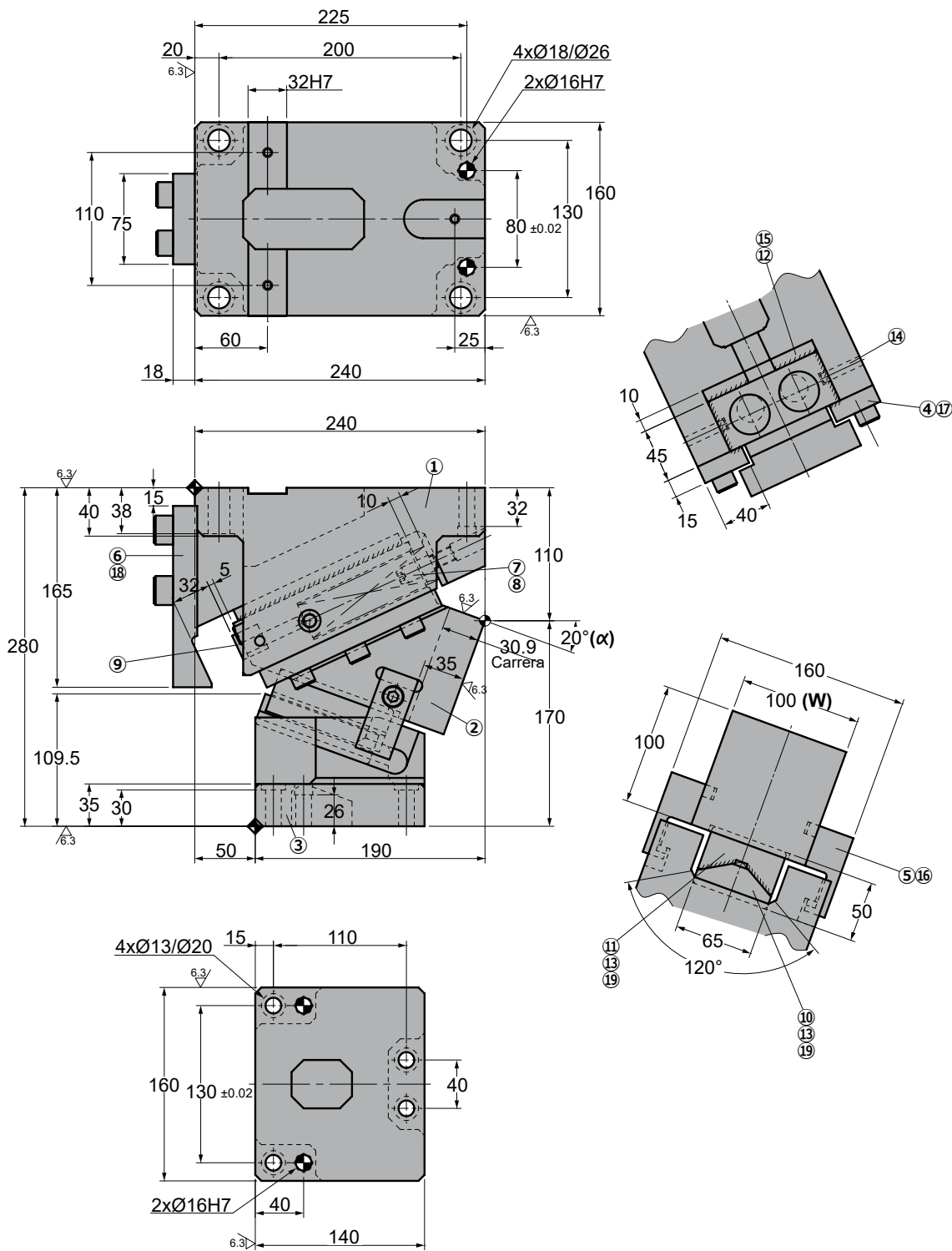
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

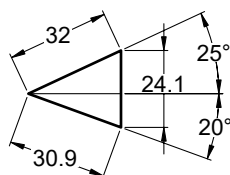
Aerial cam for pierce and flange



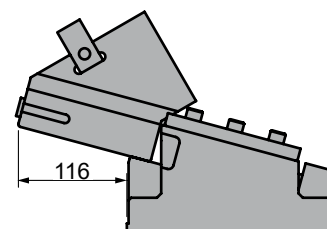
## ABKL 0100 20



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
30.9	44.1 (4.5)	88.2 (9.0)	219.3 (22.4)	2558.5 (260.9)	<b>ABKL</b>	<b>0100</b>	<b>20</b>



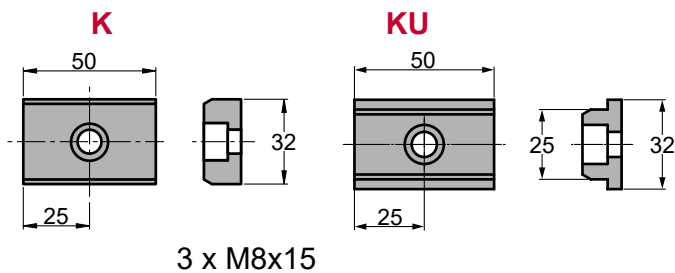
Order: Model (W) ( $\alpha$ )

**ABKL 0100 20**

Standard order example according to catalog sheet. Add options applying options table contents.

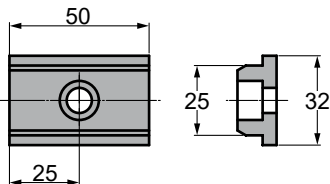
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 20-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-150
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

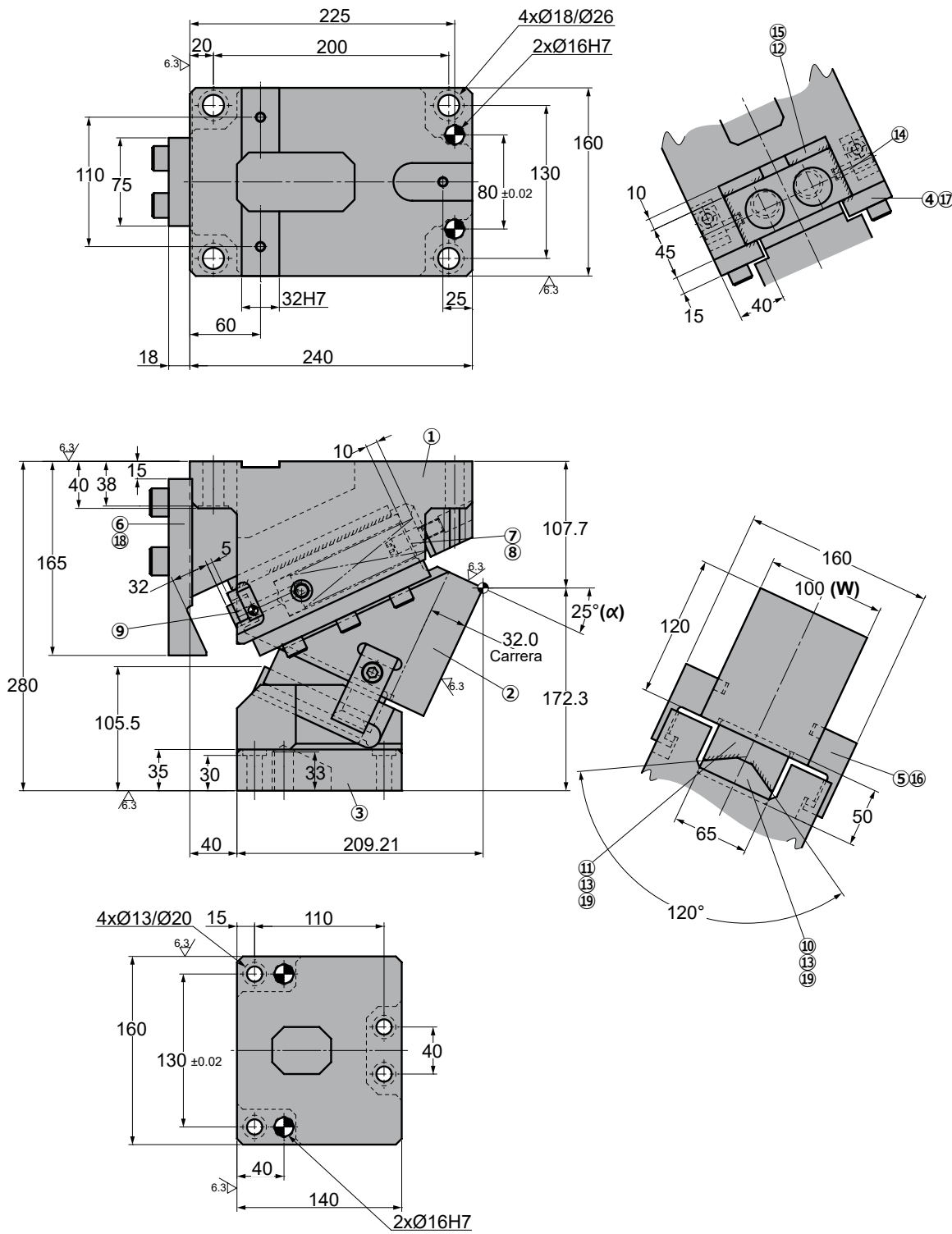
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

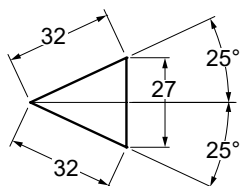
Aerial cam for pierce and flange



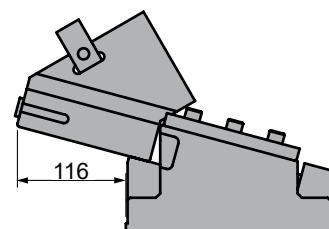
## ABKL 0100 25



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
32.0	44.1 (4.5)	88.2 (9.0)	219.3 (22.4)	2558.5 (260.9)	<b>ABKL</b>	<b>0100</b>	<b>25</b>

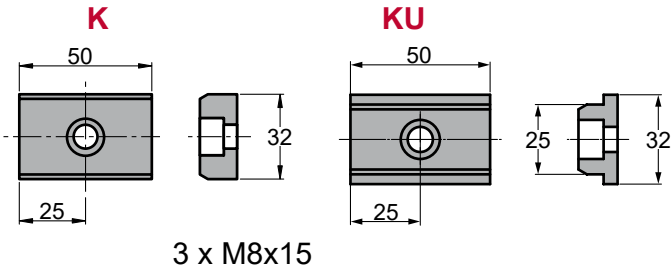


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 25**

Standard order example according to catalog sheet. Add options applying options table contents.

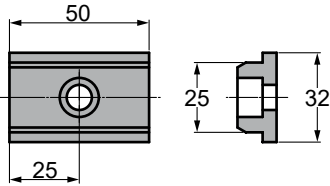
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 25-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

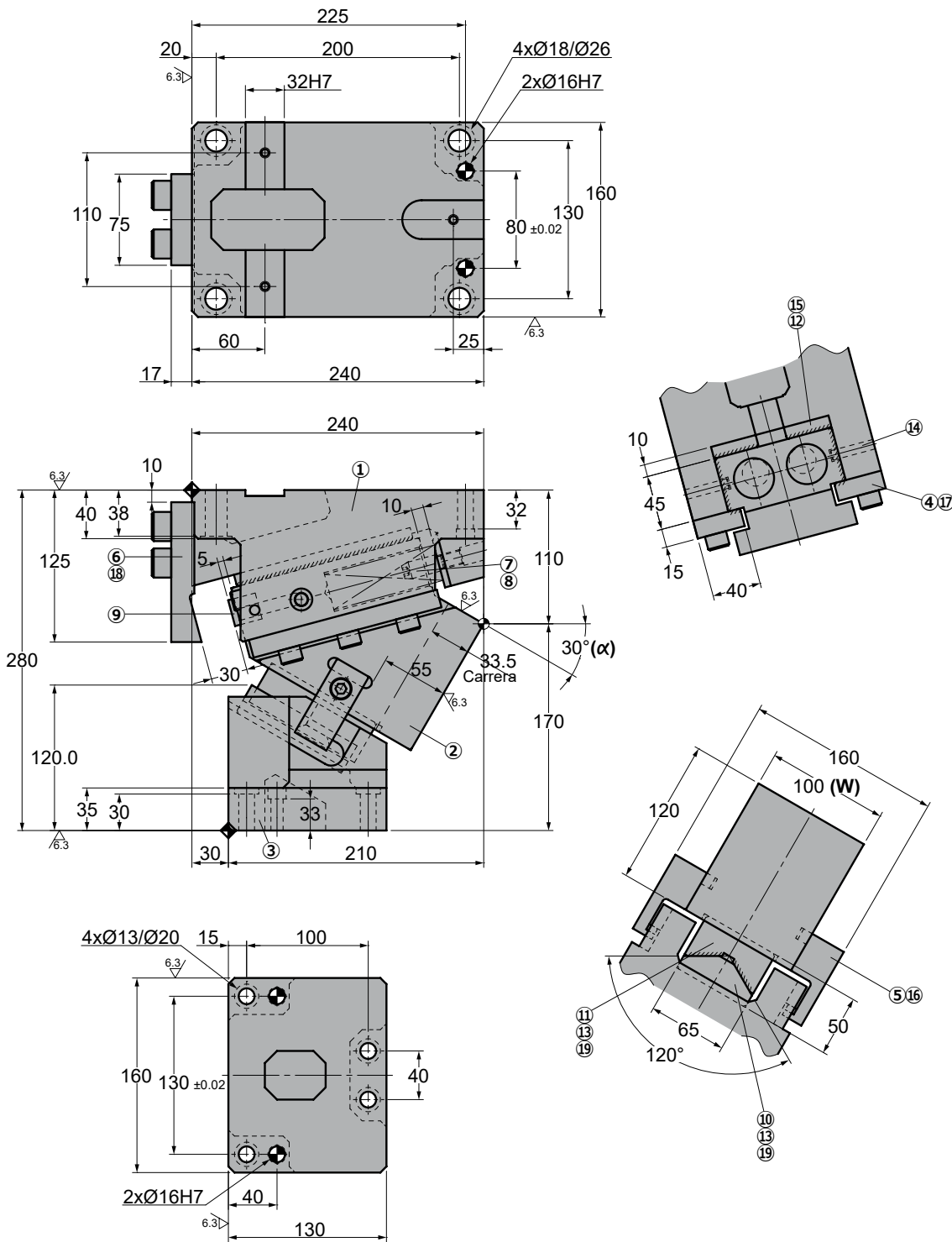
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

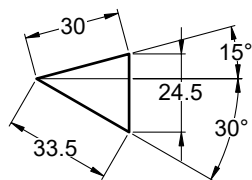
Aerial cam for pierce and flange



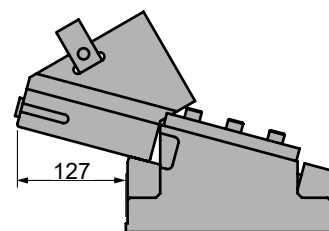
## ABKL 0100 30



### Cam diagram:



### Disassembling space:







# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.5	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>30</b>

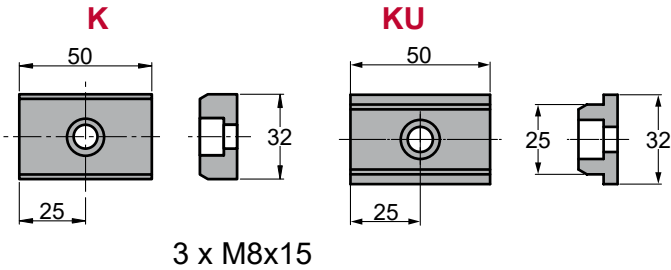


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 30**

Standard order example according to catalog sheet. Add options applying options table contents.

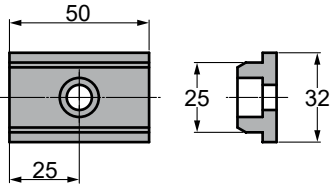
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 30-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-125
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

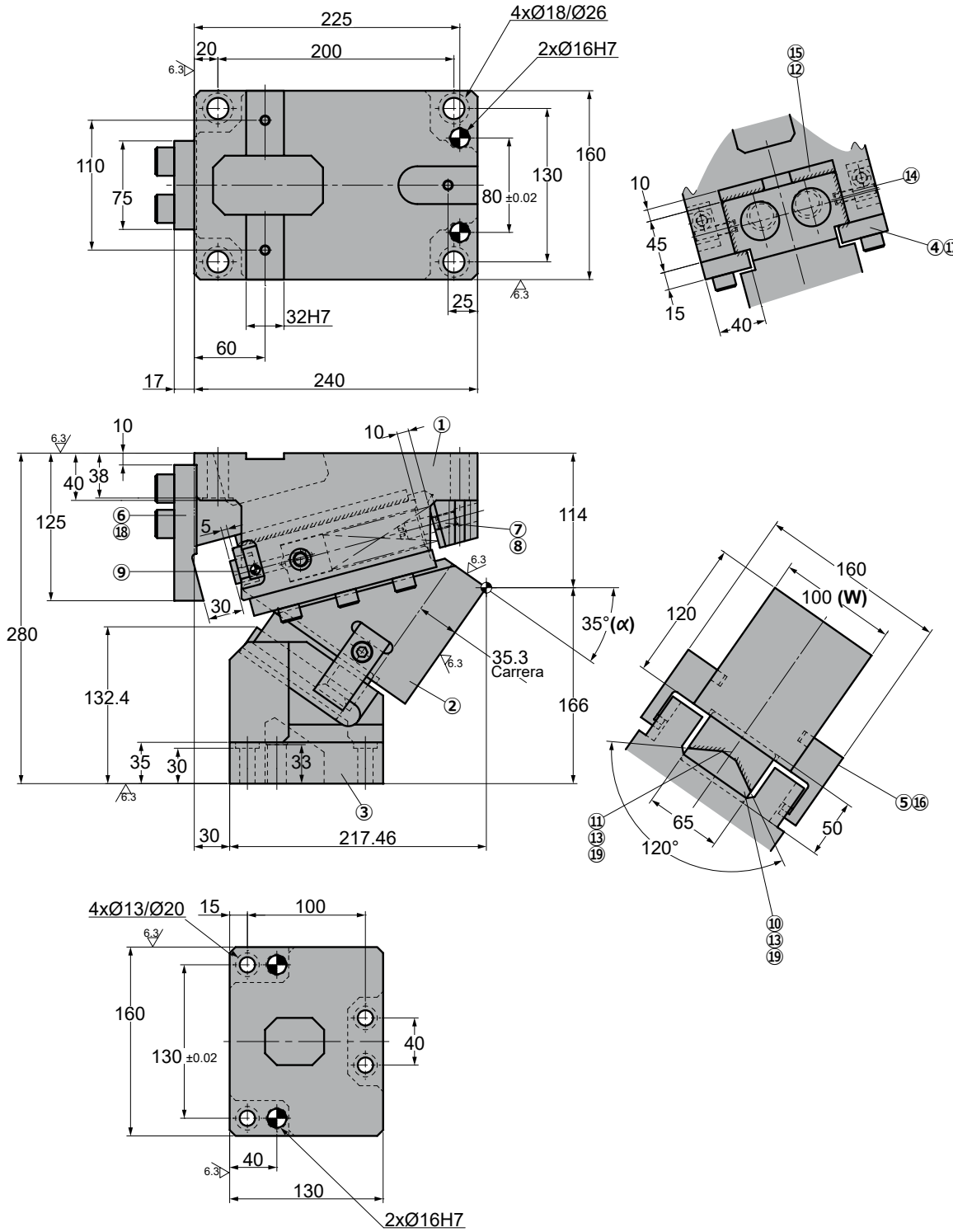
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

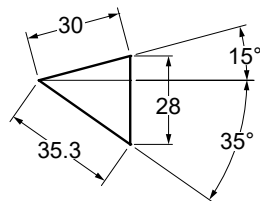
Aerial cam for pierce and flange



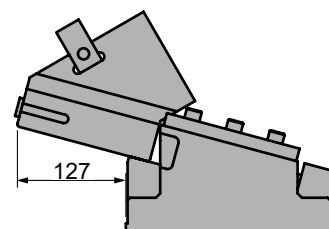
## ABKL 0100 35



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
35.3	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>35</b>

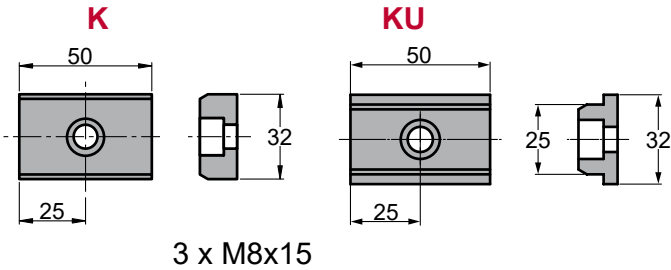


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 35**

Standard order example according to catalog sheet. Add options applying options table contents.

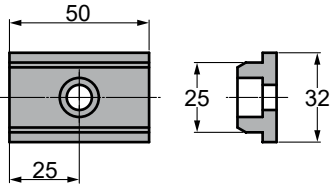
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 35-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

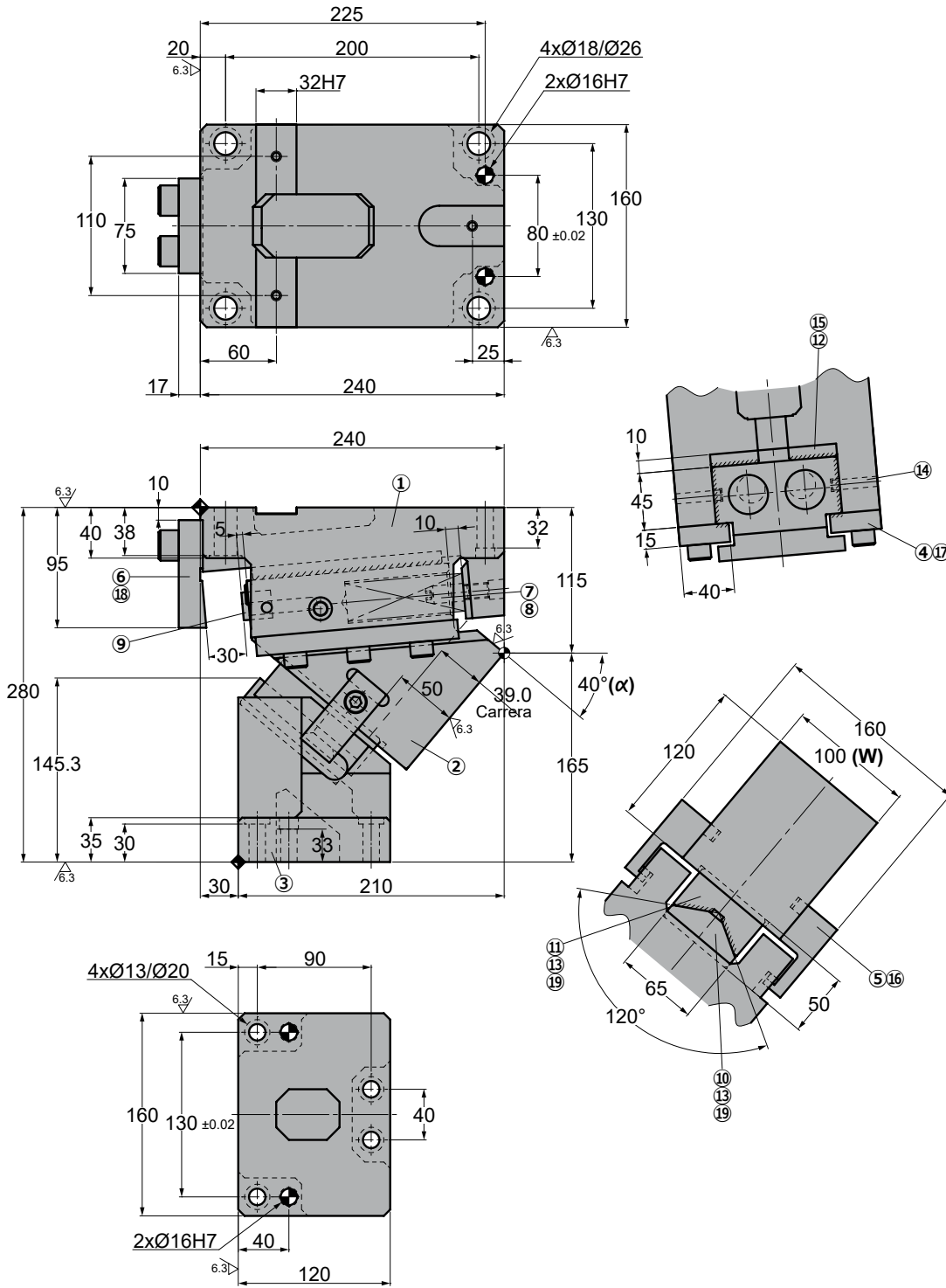
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

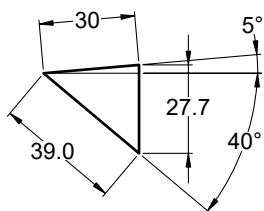
Aerial cam for pierce and flange



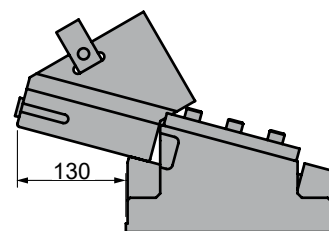
## ABKL 0100 40



### ◦Cam diagram:



### ◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
39.0	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>40</b>

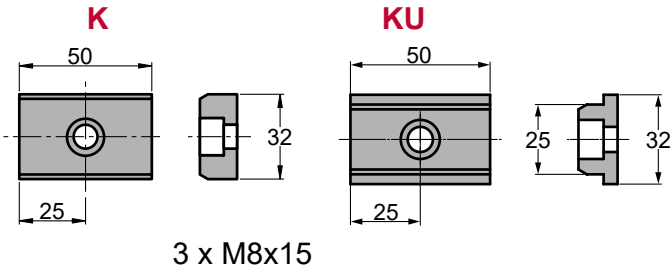


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 40**

Standard order example according to catalog sheet. Add options applying options table contents.

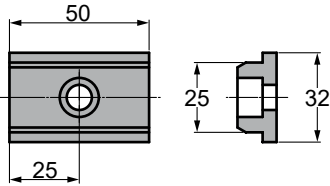
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 40-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-125
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

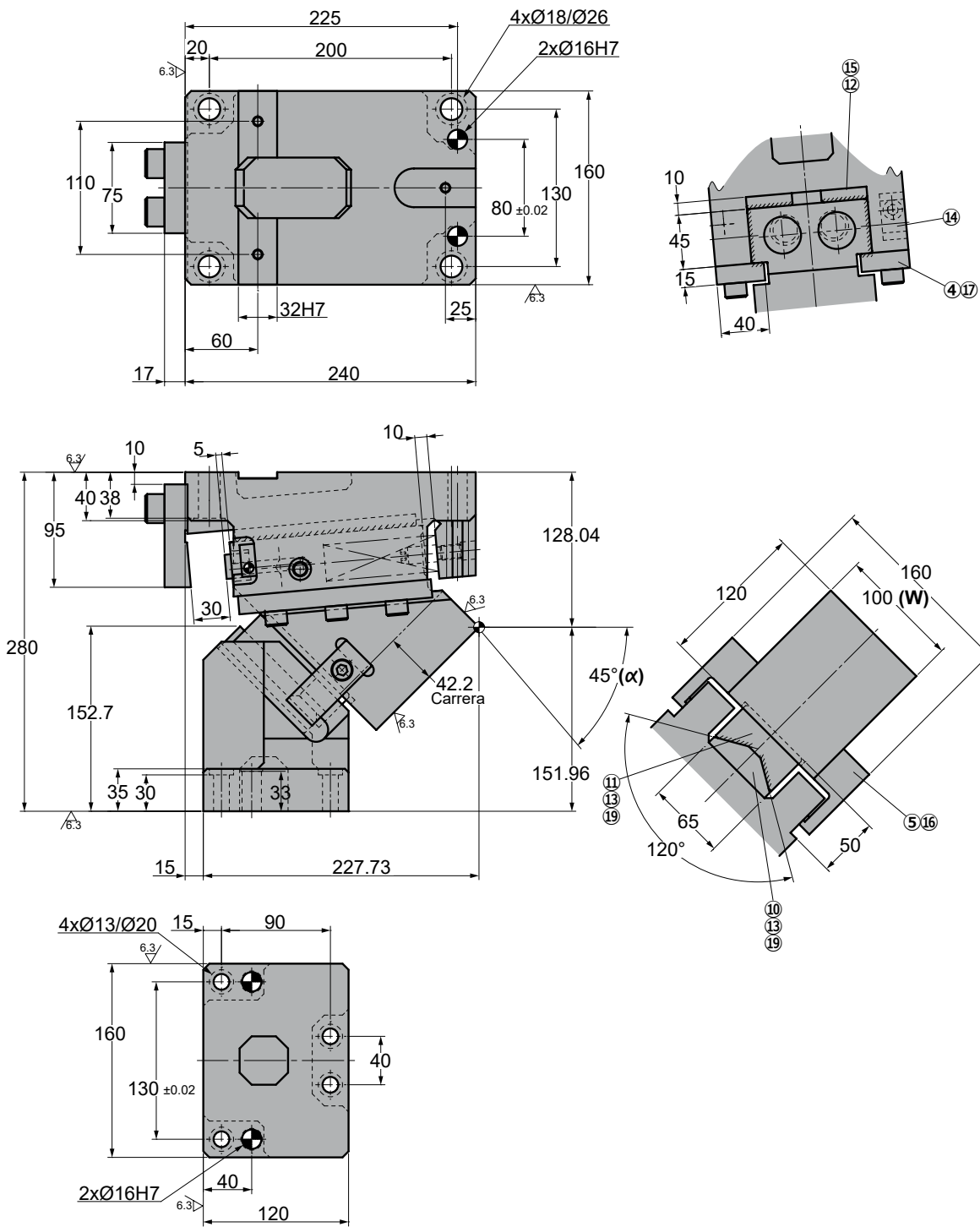
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	2	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

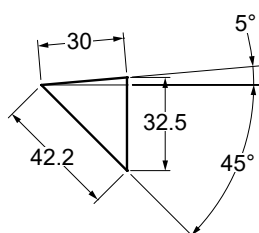
Aerial cam for pierce and flange



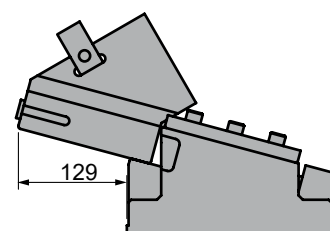
## ABKL 0100 45



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
42.2	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>45</b>

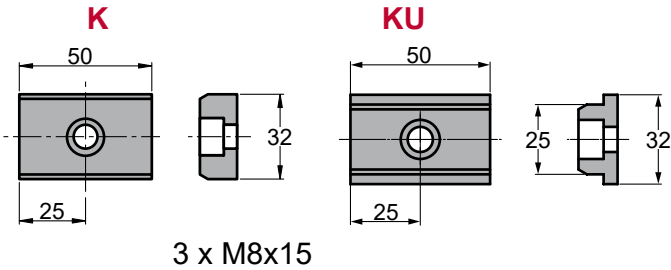


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 45**

Standard order example according to catalog sheet. Add options applying options table contents.

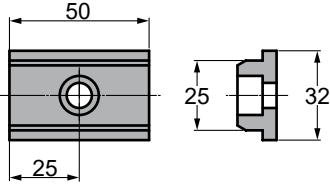
## OPTIONS

### K - KU



### KEY

### KU



3 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 45-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

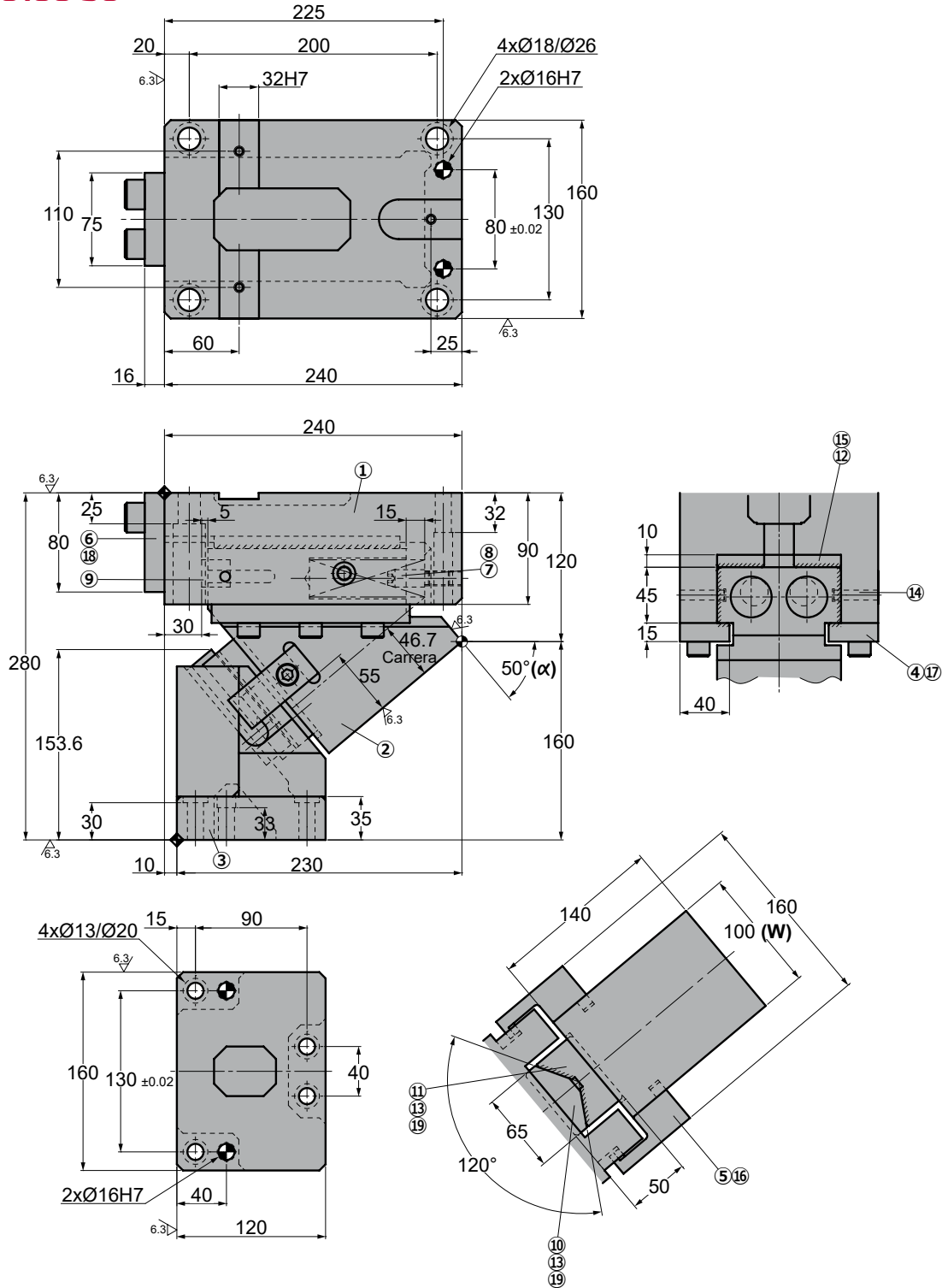
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

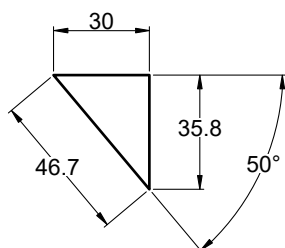
Aerial cam for pierce and flange



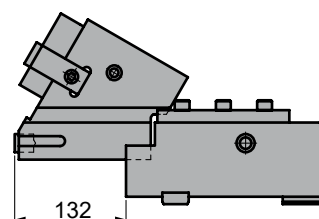
## ABKL 0100 50



◦Cam diagram:



◦Disassembling space:







# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
46.7	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>50</b>

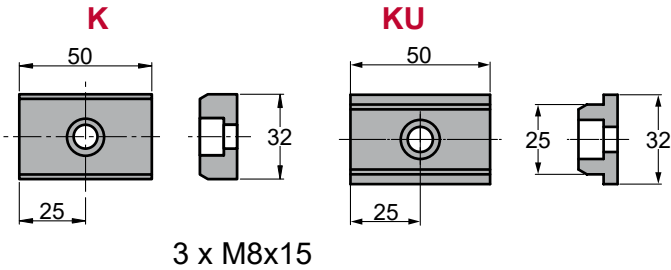


Order: **Model (W) ( $\alpha$ )**  
**ABKL 0100 50**

Standard order example according to catalog sheet. Add options applying options table contents.

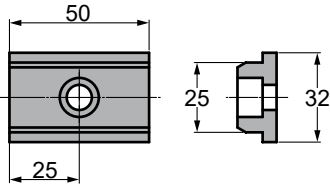
## OPTIONS

### K - KU



### KEY

#### KU



Order Options: **Model (W) ( $\alpha$ )-Option**



**ABKL 0100 50-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-125
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

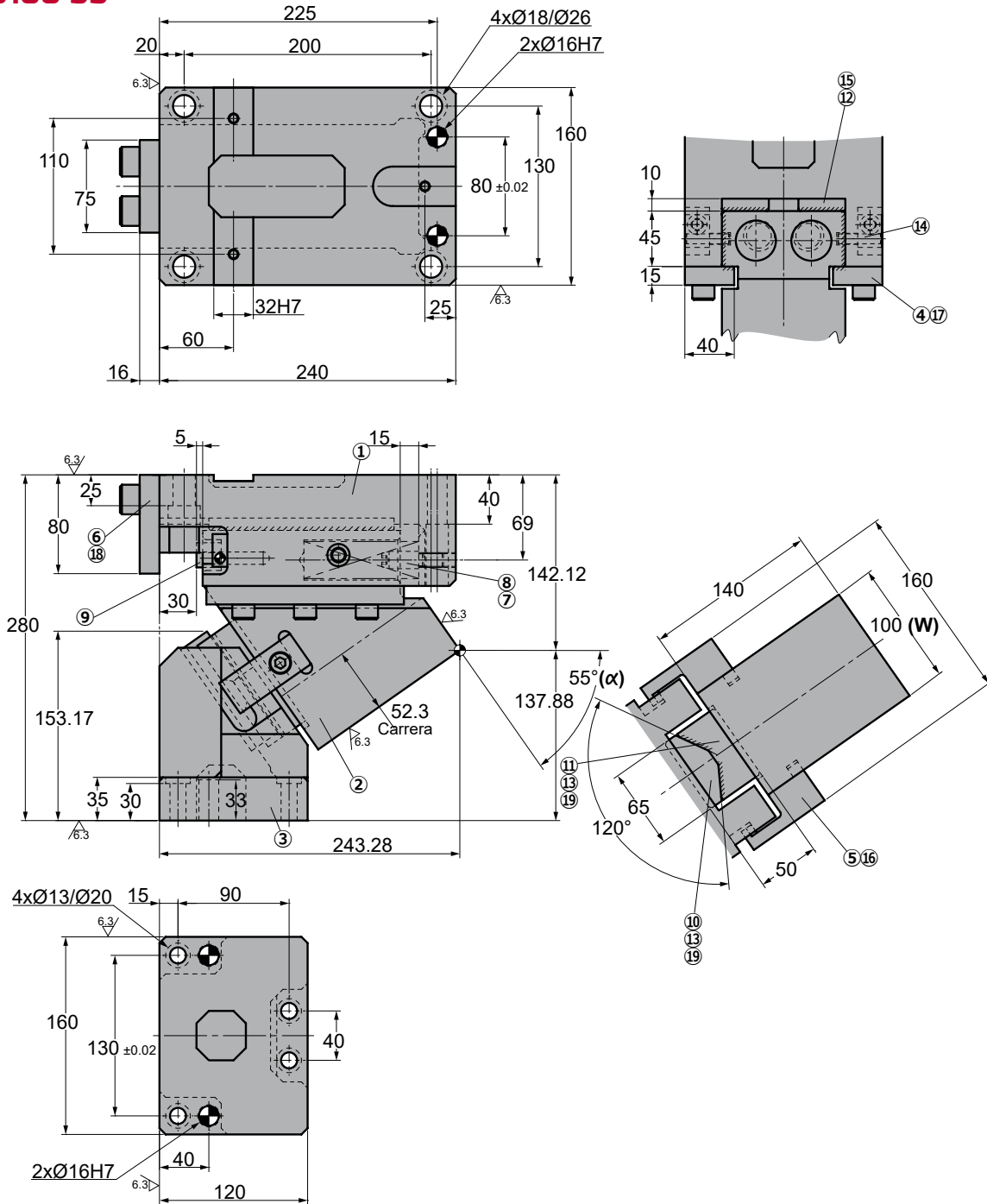
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	2	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

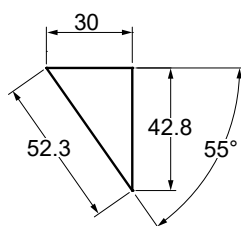
Aerial cam for pierce and flange



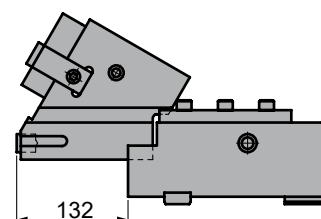
## ABKL 0100 55



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
52.3	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>55</b>

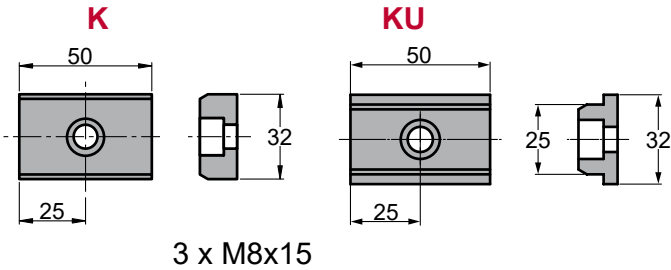


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 55**

Standard order example according to catalog sheet. Add options applying options table contents.

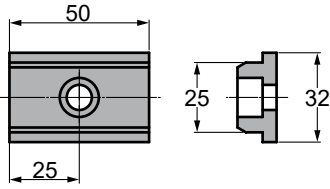
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 55-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

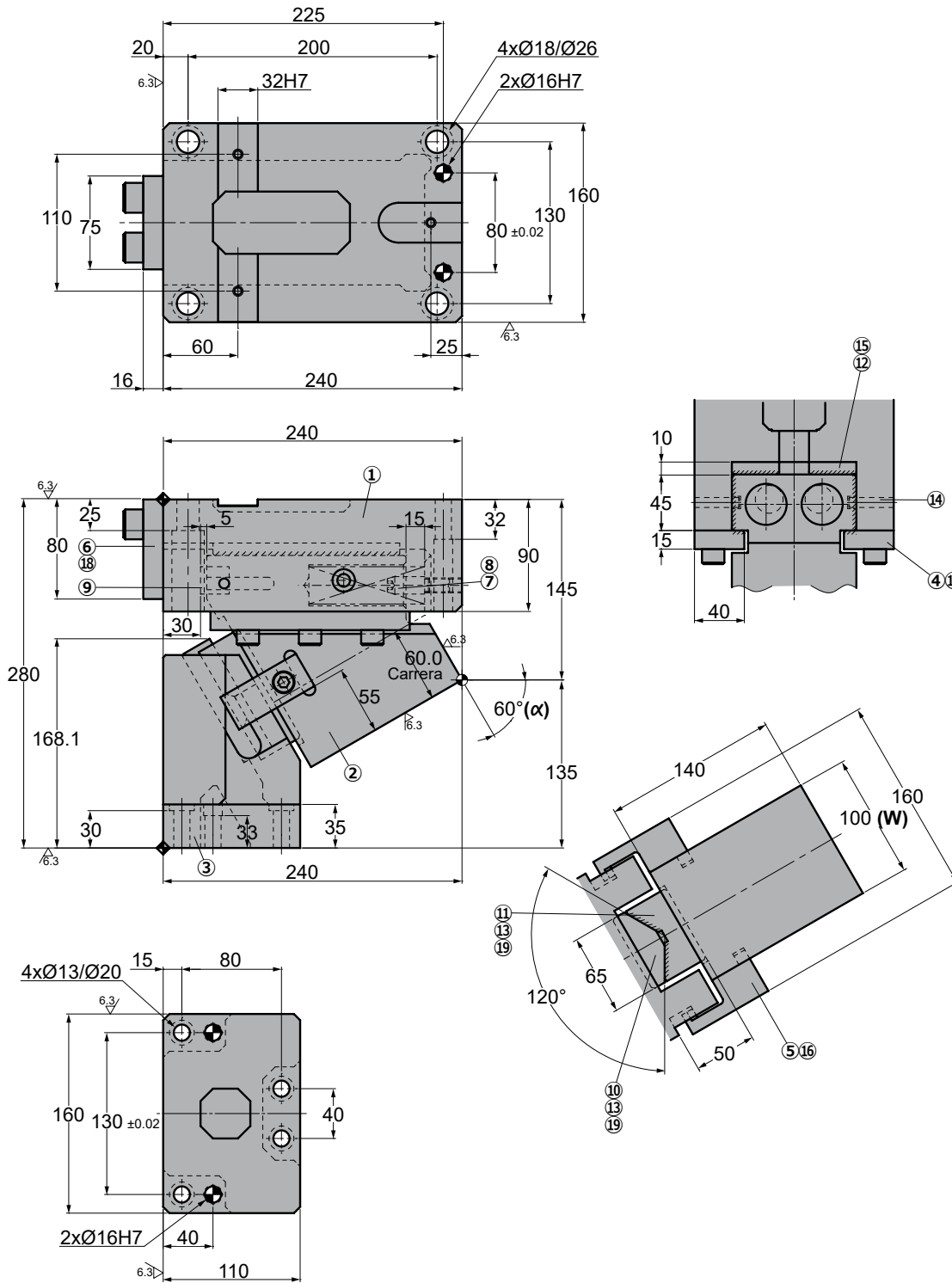
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

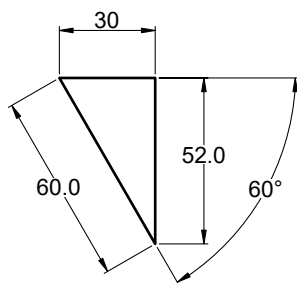
Aerial cam for pierce and flange



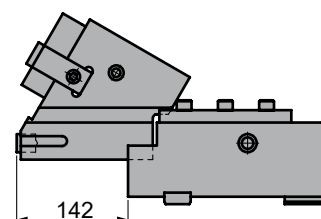
## ABKL 0100 60



◦Cam diagram:



◦Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
60.0	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>60</b>

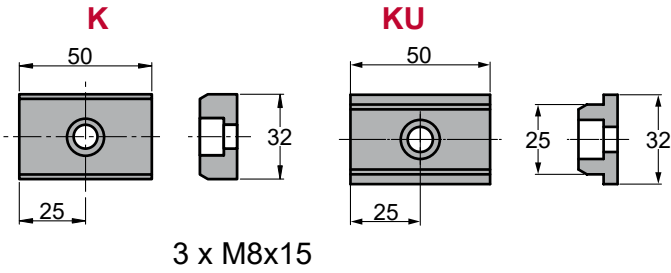


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 60**

Standard order example according to catalog sheet. Add options applying options table contents.

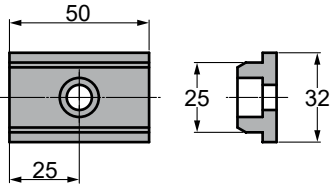
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 60-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-125
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

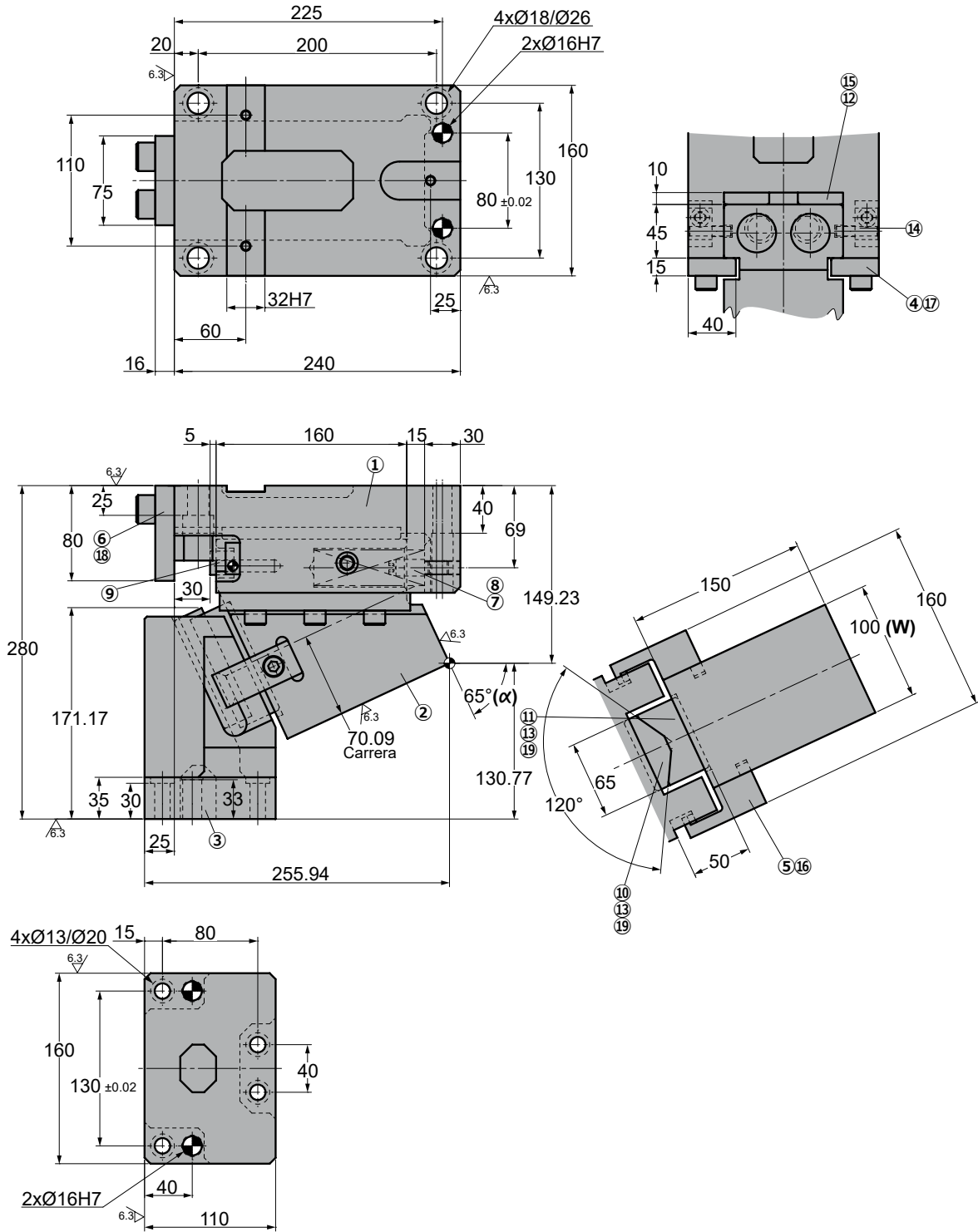
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	2	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

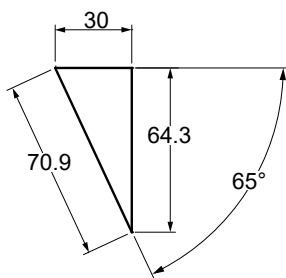
Aerial cam for pierce and flange



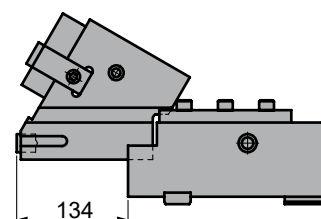
## ABKL 0100 65



### Cam diagram:



### Disassembling space:





# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
70.9	44.1 (4.5)	88.2 (9.0)	175.4 (17.9)	2807.0 (286.2)	<b>ABKL</b>	<b>0100</b>	<b>65</b>



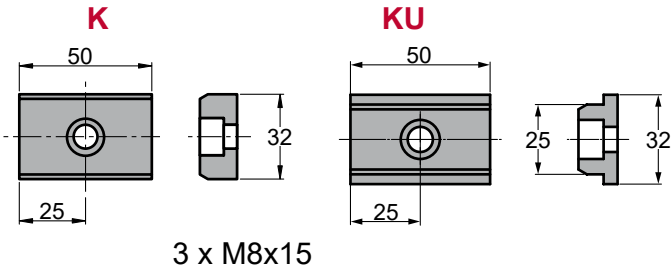
Order: Model (W) ( $\alpha$ )

**ABKL 0100 65**

Standard order example according to catalog sheet. Add options applying options table contents.

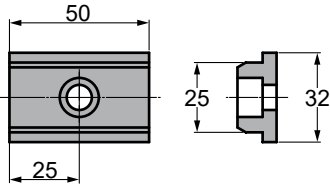
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 65-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-100
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

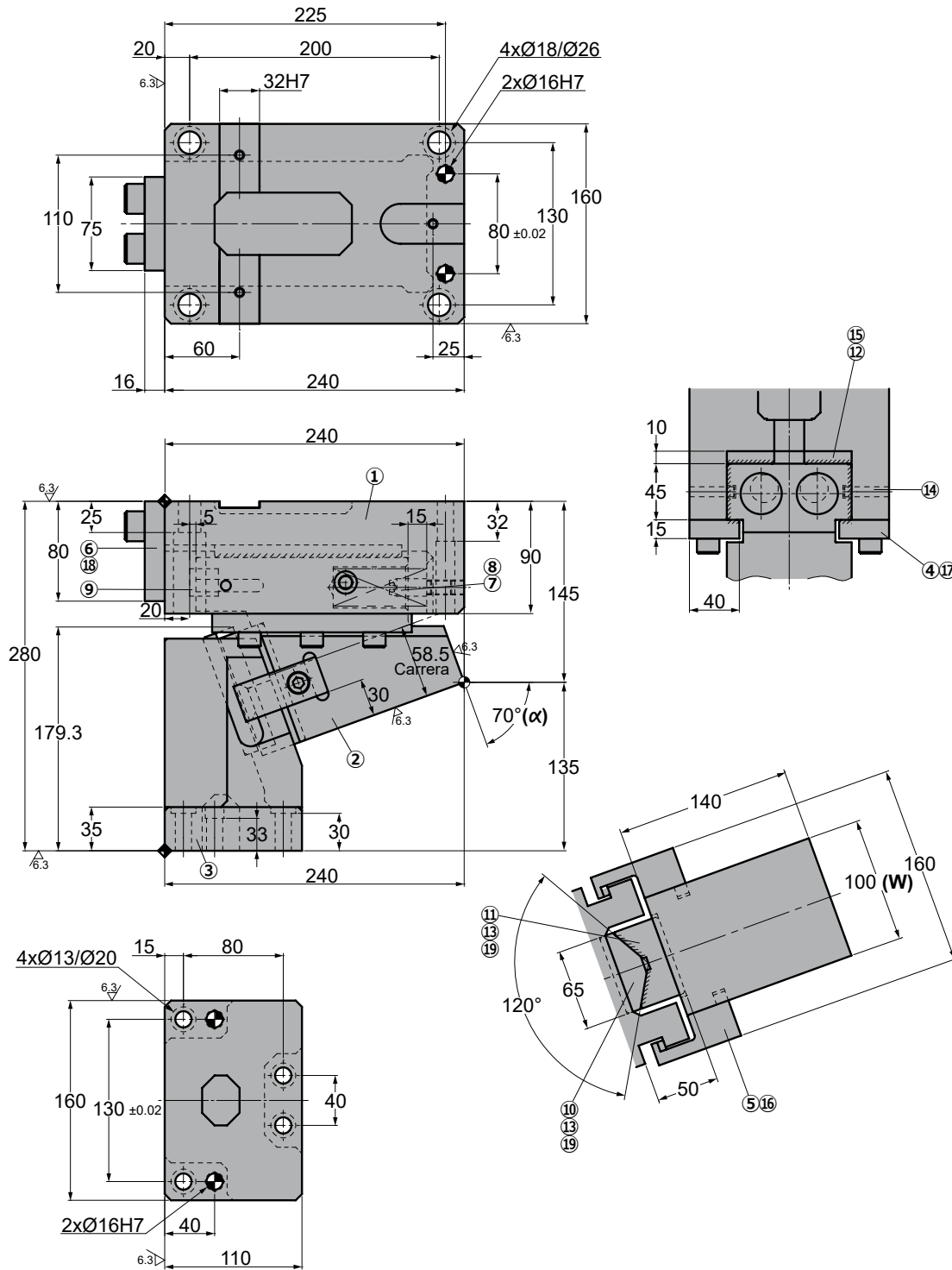
No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	2	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

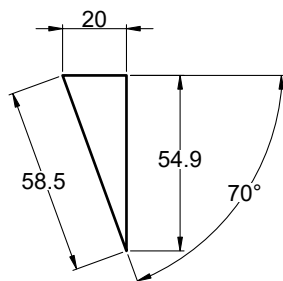
Aerial cam for pierce and flange



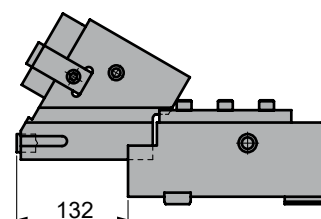
## ABKL 0100 70



◦Cam diagram:



◦Disassembling space:







# ABKL 0100

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
58.5	44.1 (4.5)	88.2 (9.0)	548.3 (55.9)	2741.5 (279.6)	<b>ABKL</b>	<b>0100</b>	<b>70</b>

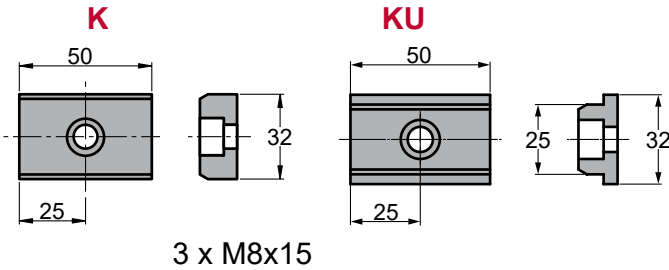


Order: Model (W) ( $\alpha$ )  
**ABKL 0100 70**

Standard order example according to catalog sheet. Add options applying options table contents.

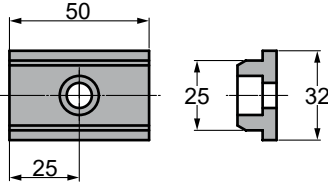
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0100 70-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	2	CK45
⑧	Coil Spring	2	TM30-175
⑨	Cushioning Stopper	2	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Screw	4	M10 x 30
⑭	Screw	2	M8 x 25
⑮	Screw	4	M10 x 20

No.	Description	Qty.	Material
⑯	Screw	2	M10 x 40
⑰	Screw	6	M12 x 35
⑱	Screw	4	M16 x 45
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0100

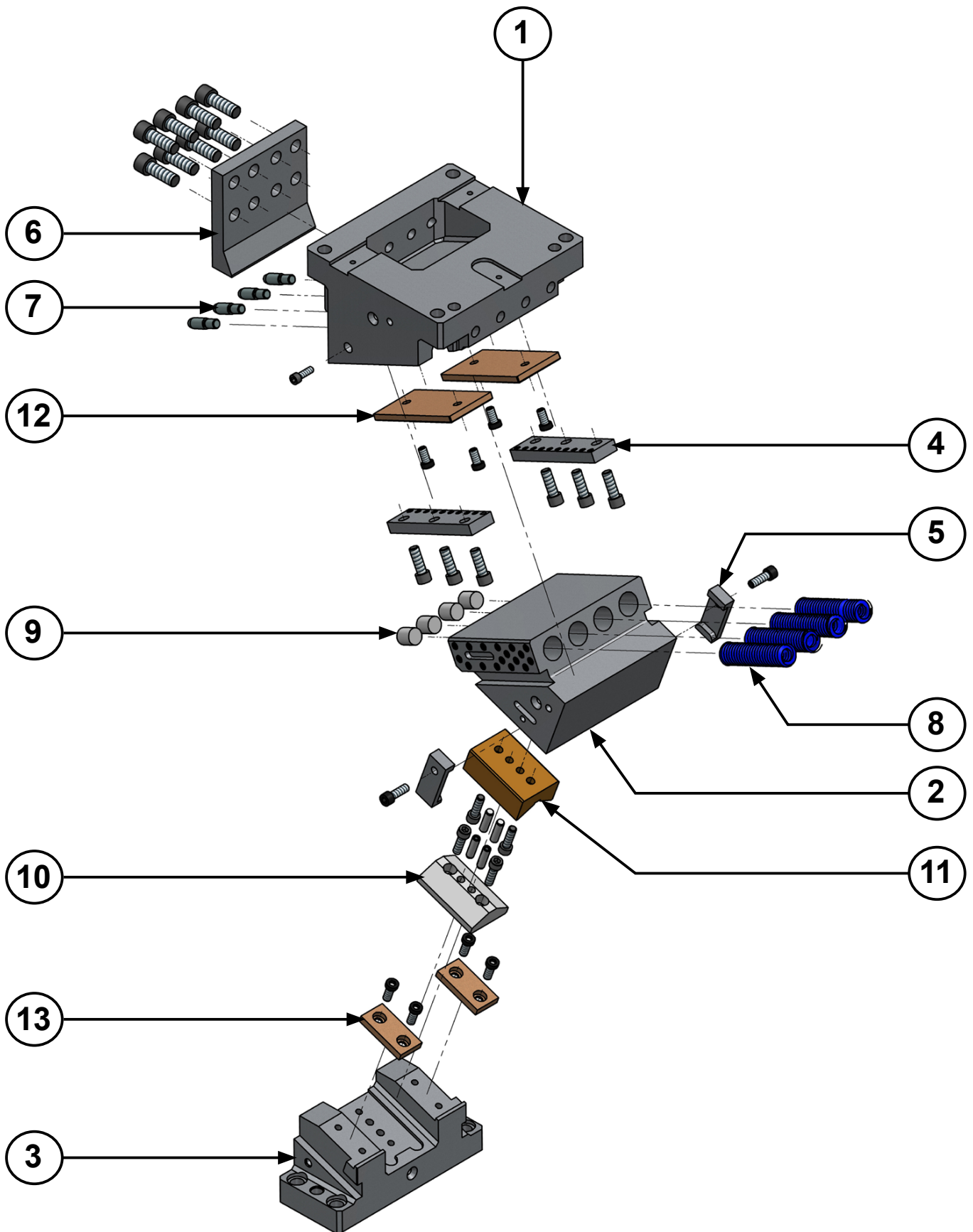


*Aerial cam for pierce and flange*



# ABKL 0200

Aerial cam for pierce and flange

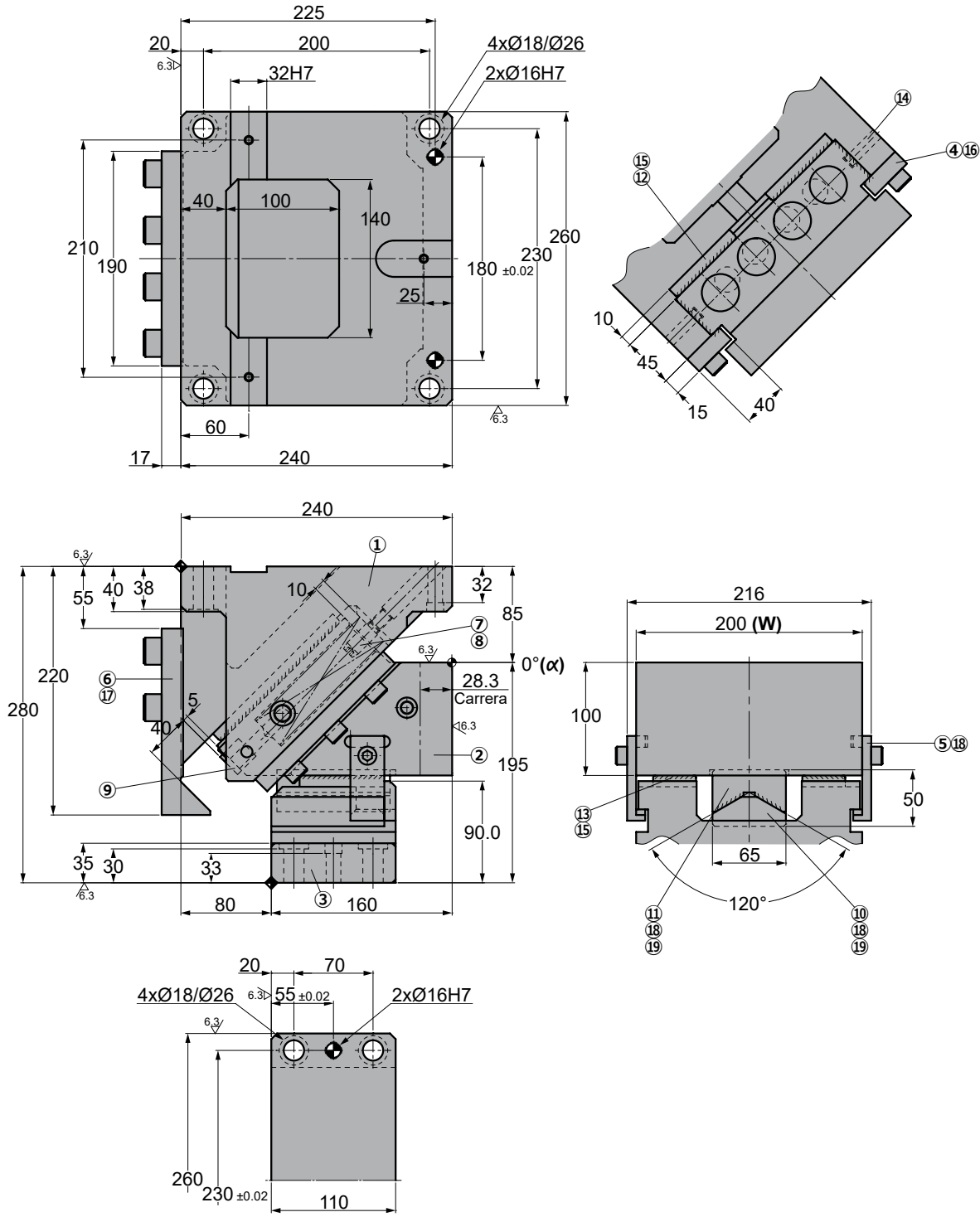


# ABKL 0200

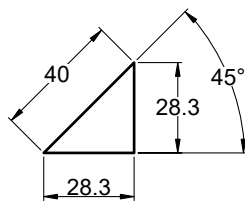
Aerial cam for pierce and flange



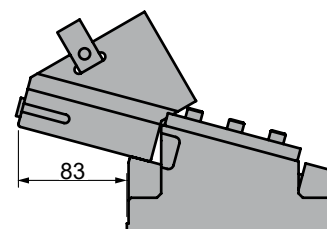
## ABKL 0200 00



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
28.3	93.1 (9.5)	186.2 (19.0)	626.6 (63.9)	5634.0 (574.9)	<b>ABKL</b>	<b>0200</b>	<b>00</b>

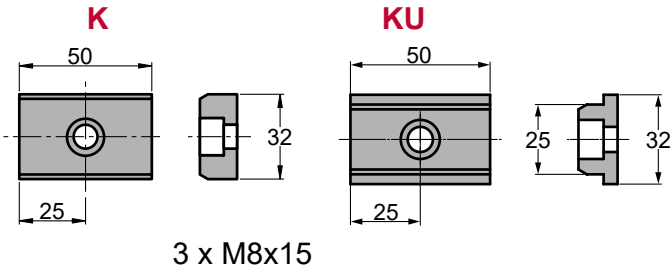


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 00**

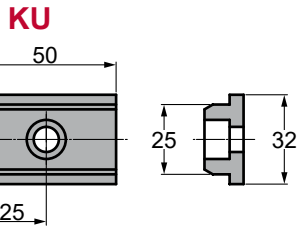
Standard order example according to catalog sheet.  
 Add options applying options table contents.

## OPTIONS

### K - KU



### KEY



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 00-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-175
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

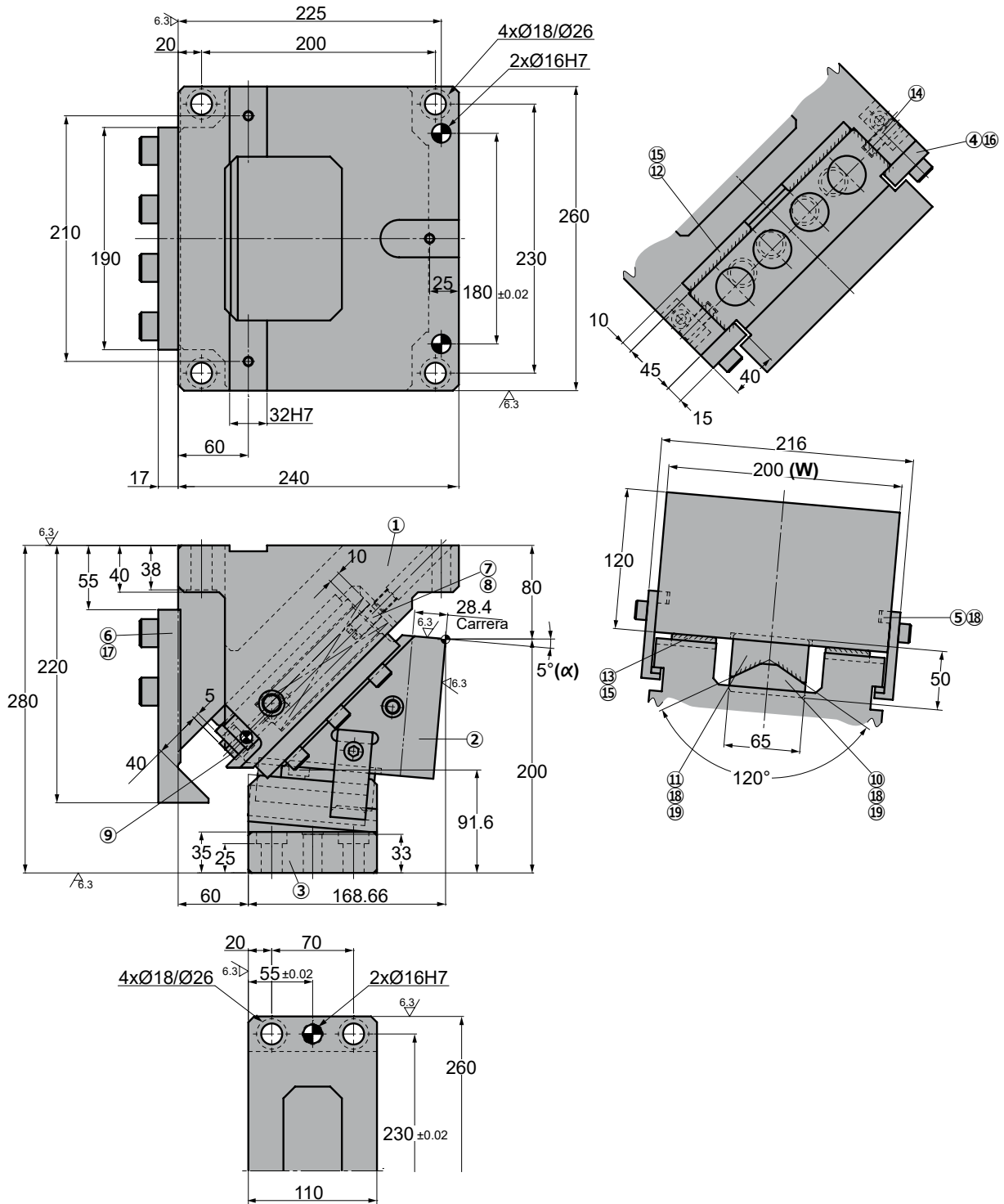
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

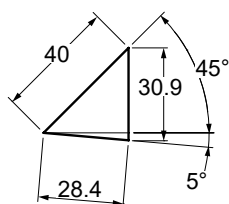
Aerial cam for pierce and flange



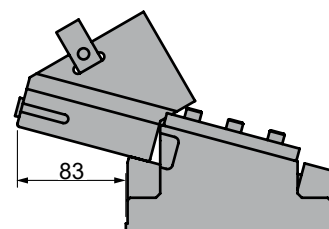
## ABKL 0200 05



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
28.3	93.1 (9.5)	186.2 (19.0)	626.6 (63.9)	5639.4 (575.1)	<b>ABKL</b>	<b>0200</b>	<b>05</b>

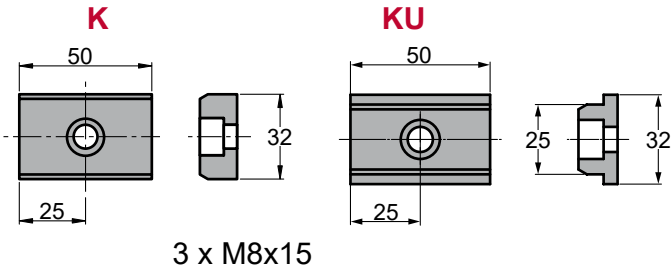


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 05**

Standard order example according to catalog sheet. Add options applying options table contents.

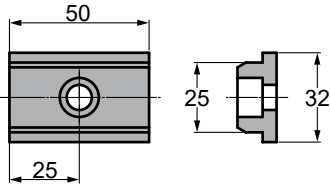
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 05-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-175
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

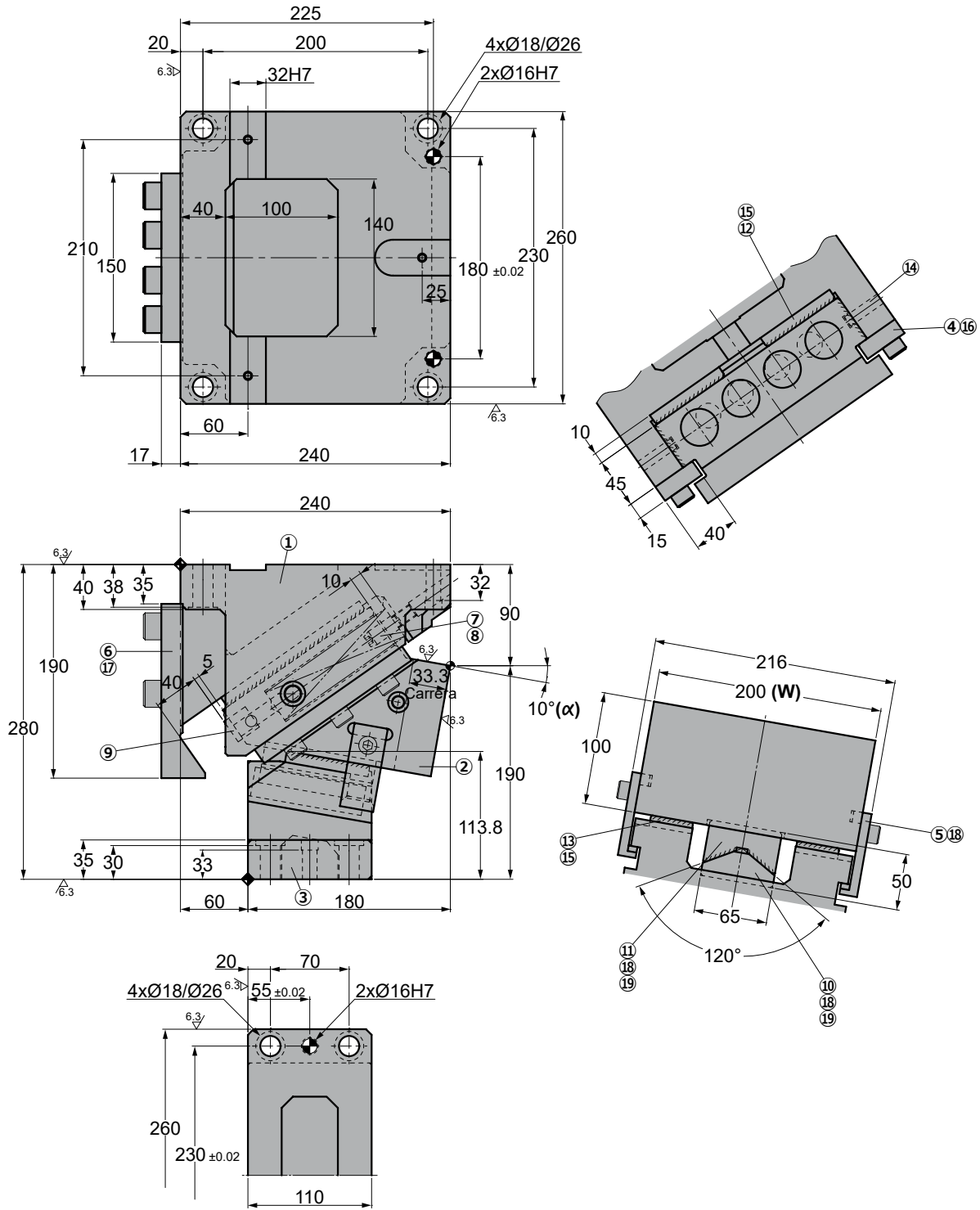
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

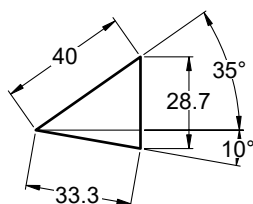
Aerial cam for pierce and flange



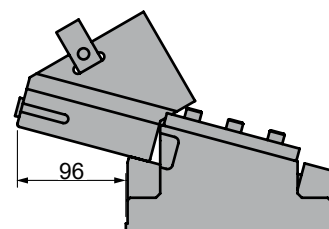
## ABKL 0200 10



◦Cam diagram:



◦Disassembling space:







# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.3	93.1 (9.5)	186.2 (19.0)	626.6 (63.9)	5639.4 (575.1)	<b>ABKL</b>	<b>0200</b>	<b>10</b>



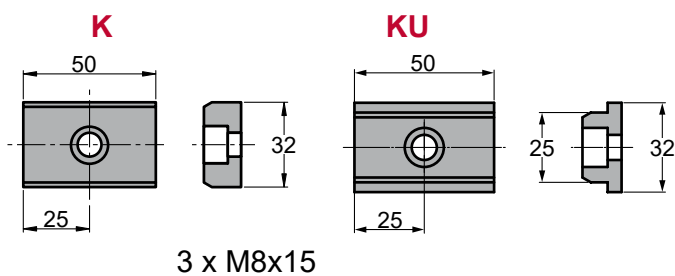
Order: Model (W) ( $\alpha$ )

**ABKL 0200 10**

Standard order example according to catalog sheet. Add options applying options table contents.

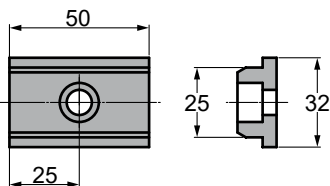
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 10-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-175
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

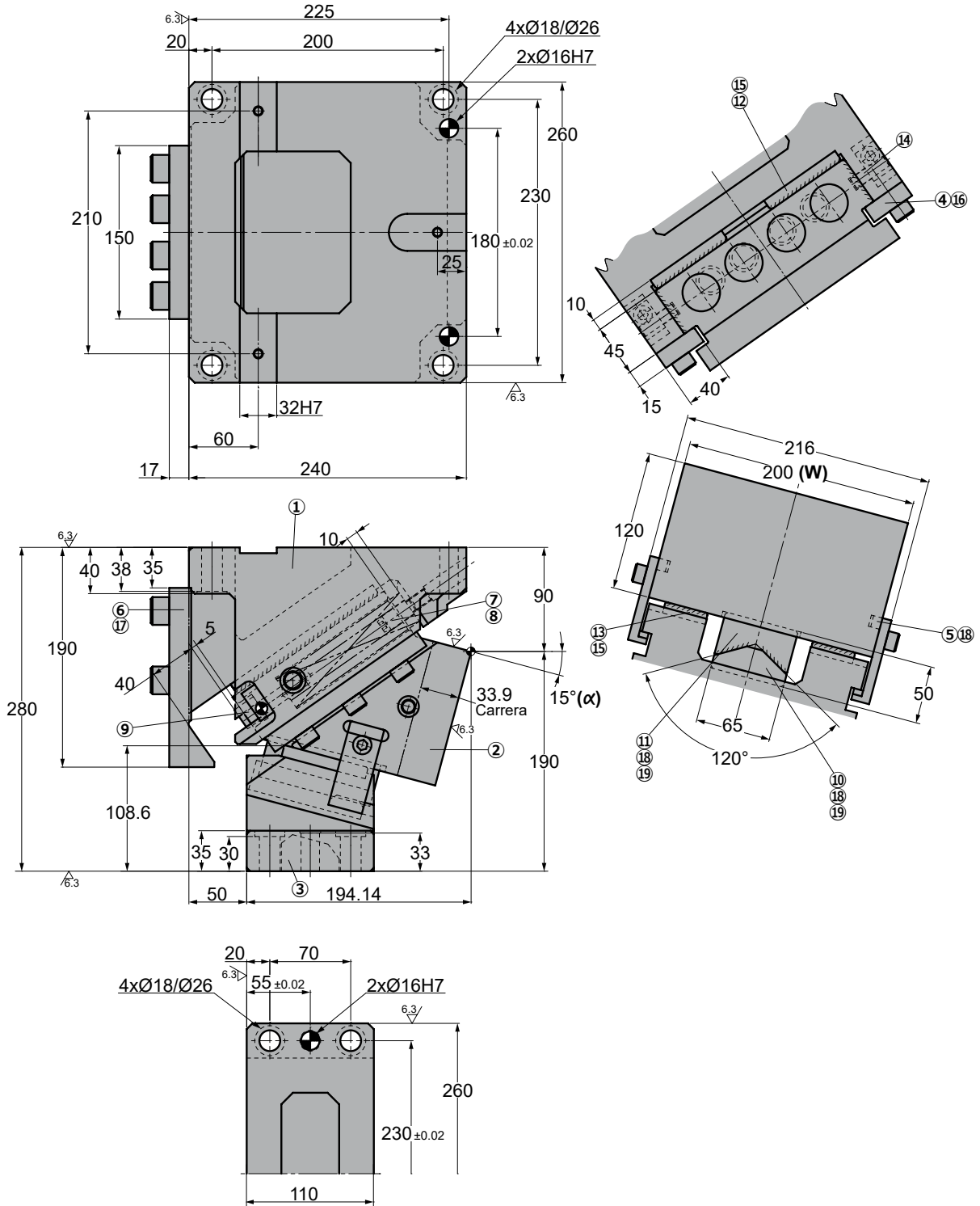
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

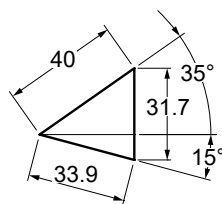
Aerial cam for pierce and flange



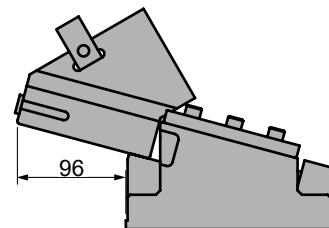
## ABKL 0200 15



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.9	93.1 (9.5)	186.2 (19.0)	626.6 (63.9)	5639.4 (575.1)	<b>ABKL</b>	<b>0200</b>	<b>15</b>

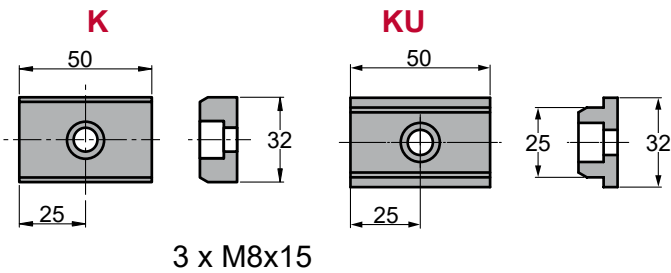


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 15**

Standard order example according to catalog sheet. Add options applying options table contents.

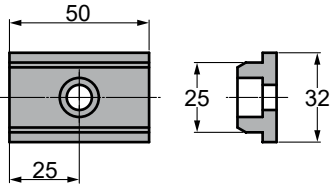
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 15-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-175
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

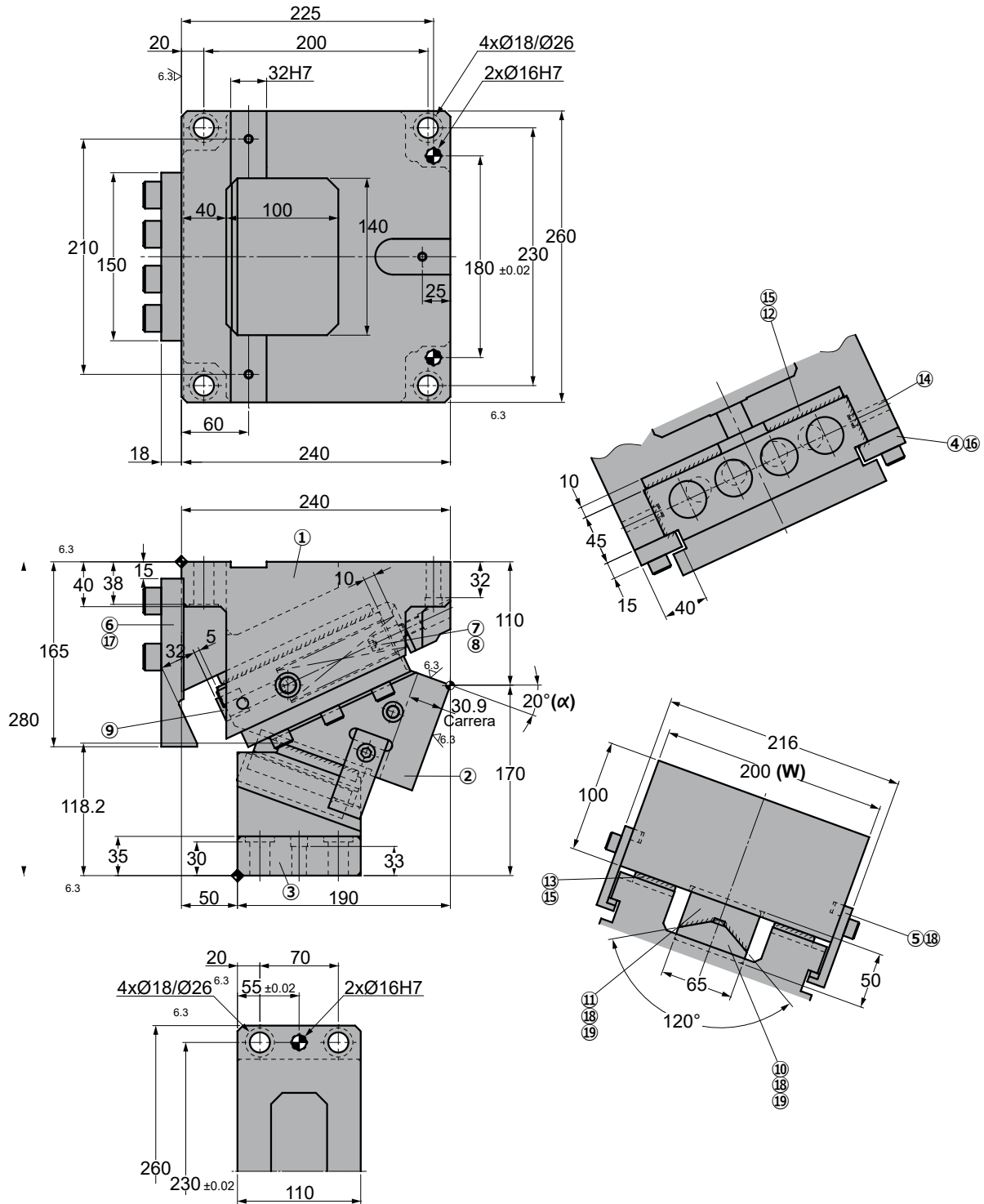
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

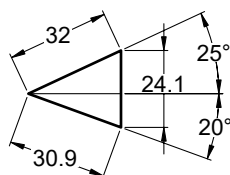
Aerial cam for pierce and flange



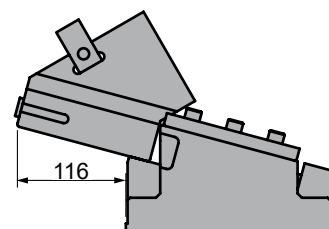
## ABKL 0200 20



### ◦Cam diagram:



### ◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
30.9	93.1 (9.5)	186.2 (19.0)	438.6 (44.7)	5117.0 (521.8)	<b>ABKL</b>	<b>0200</b>	<b>20</b>

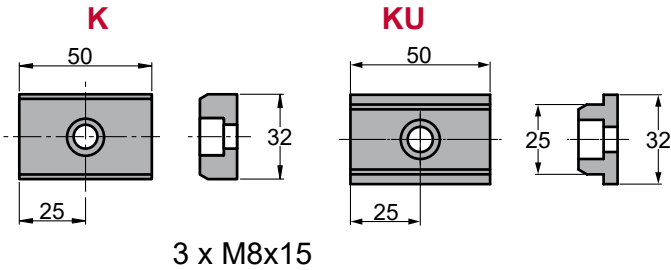


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 20**

Standard order example according to catalog sheet. Add options applying options table contents.

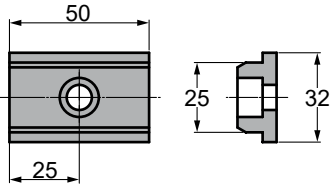
## OPTIONS

### K - KU



### KEY

### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 20-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-150
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

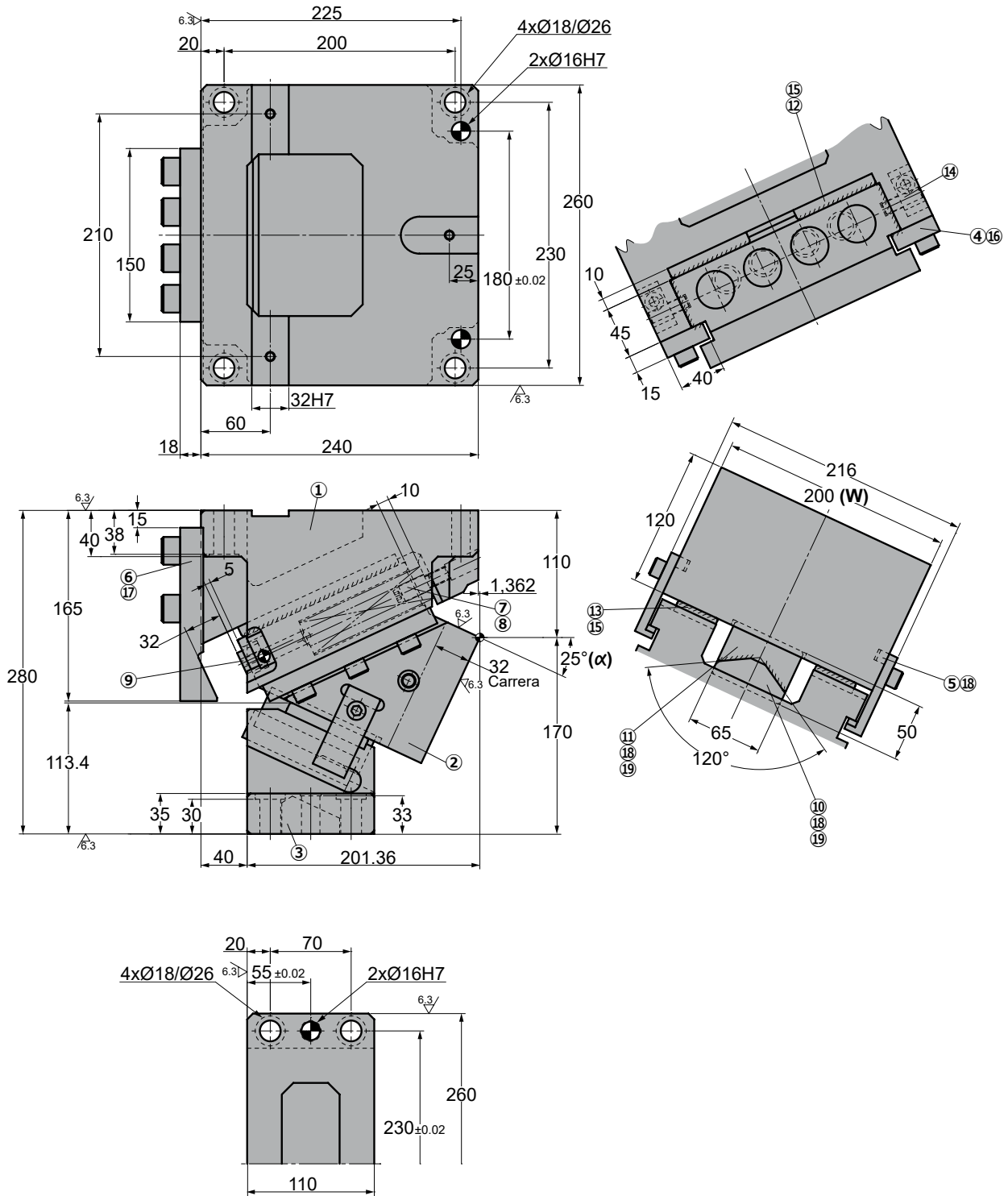
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

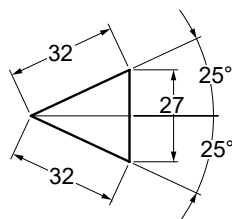
Aerial cam for pierce and flange



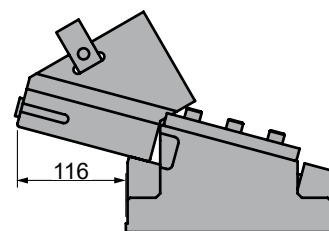
## ABKL 0200 25



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
32.0	93.1 (9.5)	186.2 (19.0)	438.6 (44.7)	5117.0 (521.8)	<b>ABKL</b>	<b>0200</b>	<b>25</b>

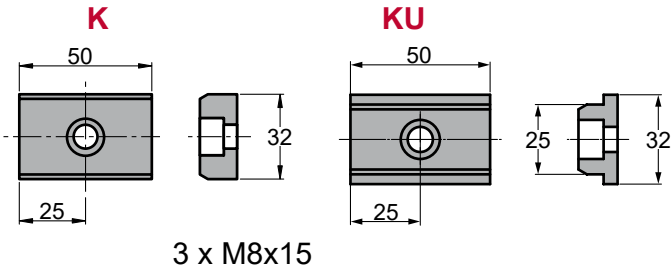


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 25**

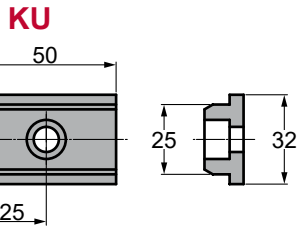
Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY



### Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 25-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-150
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

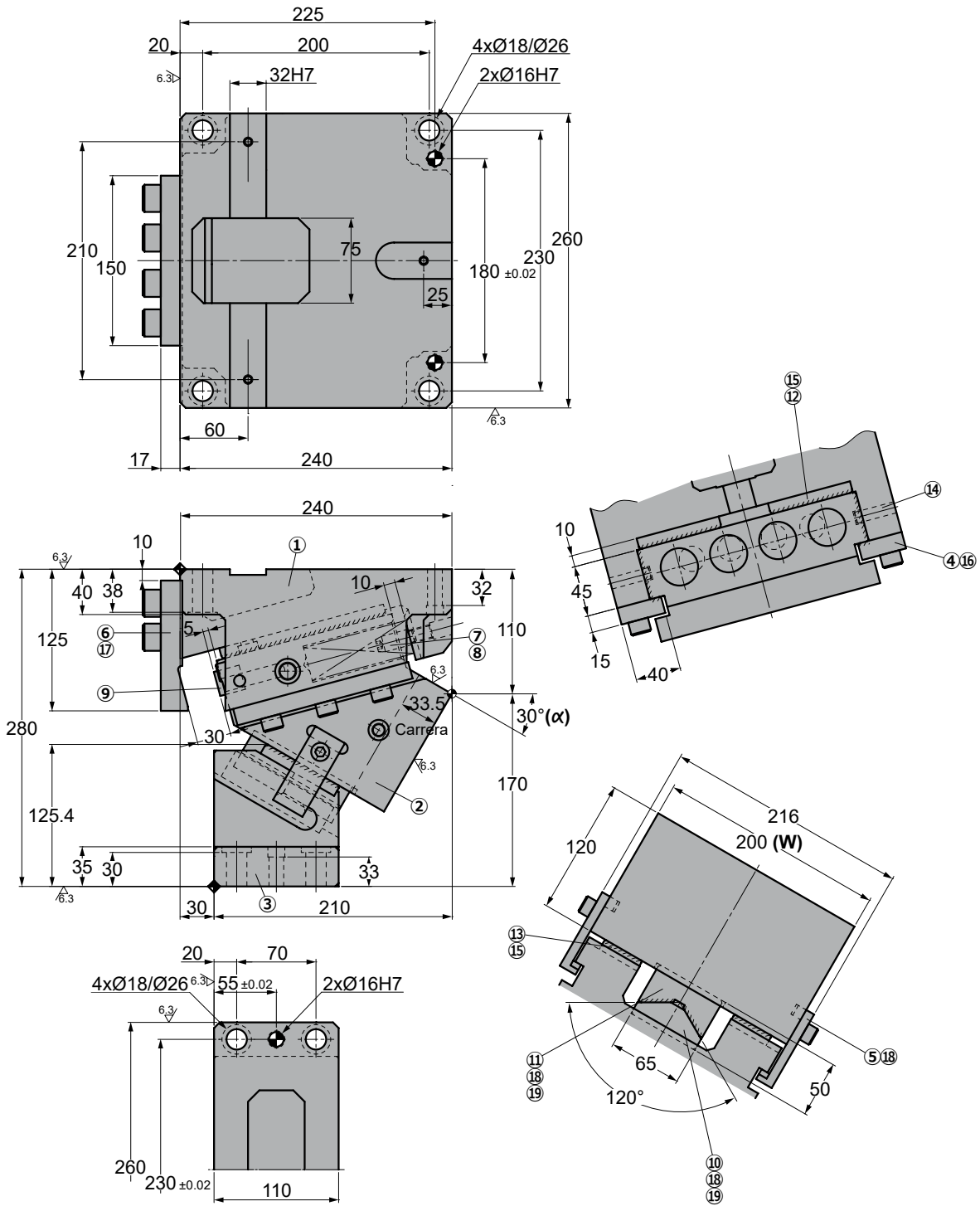
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

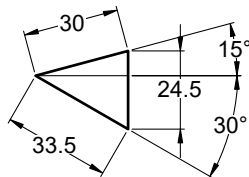
Aerial cam for pierce and flange



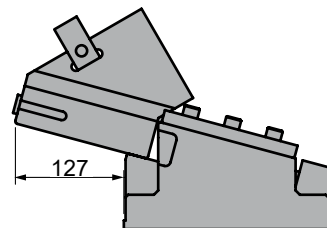
## ABKL 0200 30



### Cam diagram:



### Disassembling space:







# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
33.5	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>30</b>

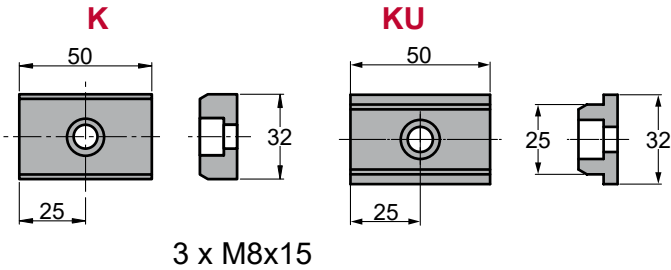


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 30**

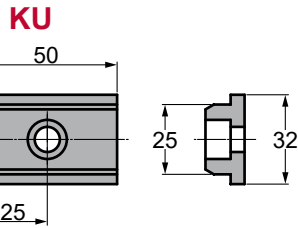
Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 30-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

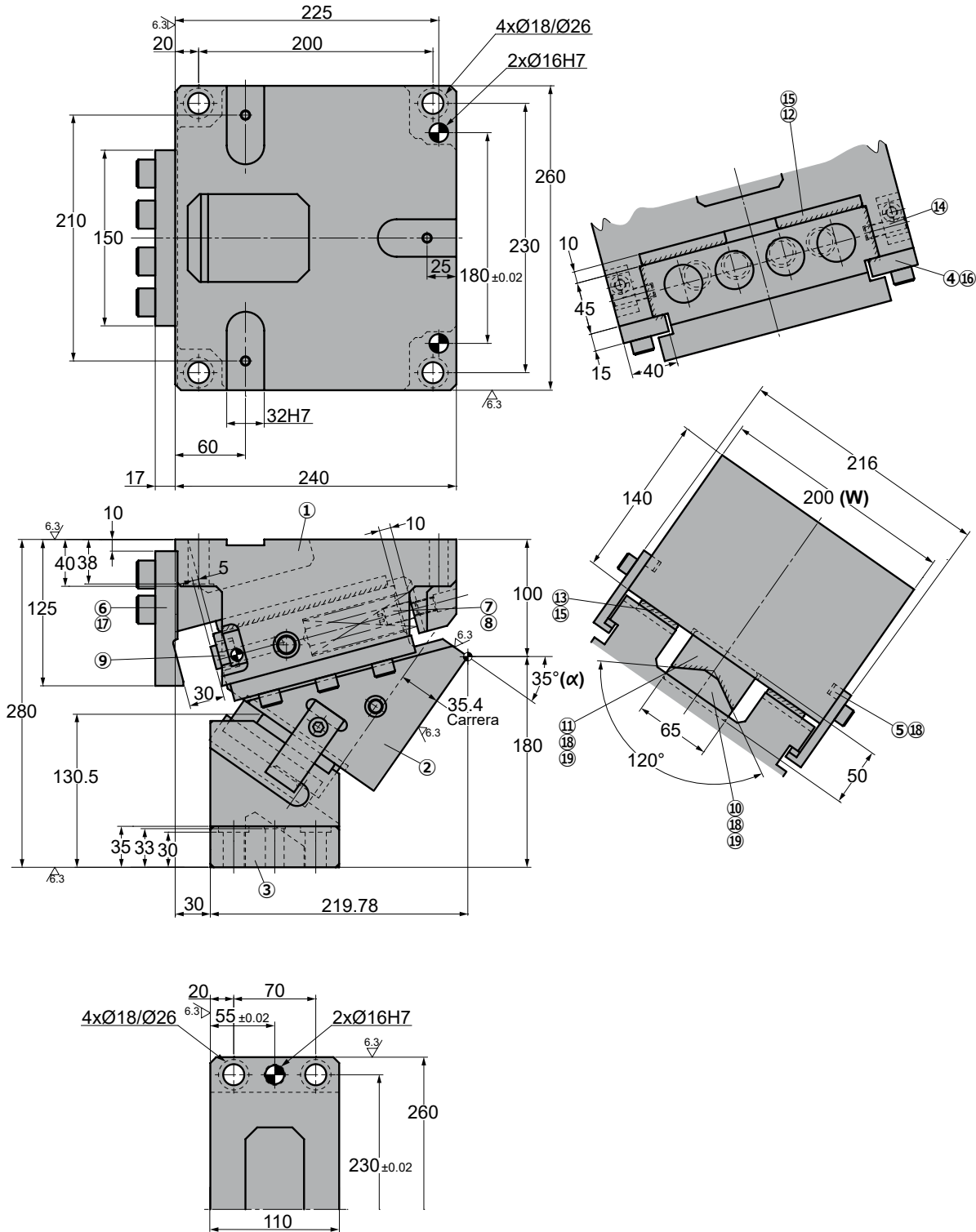
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	8	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

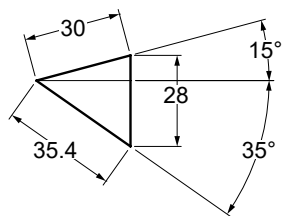
Aerial cam for pierce and flange



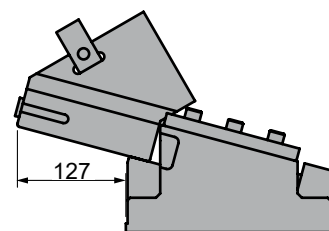
## ABKL 0200 35



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
35.3	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>35</b>

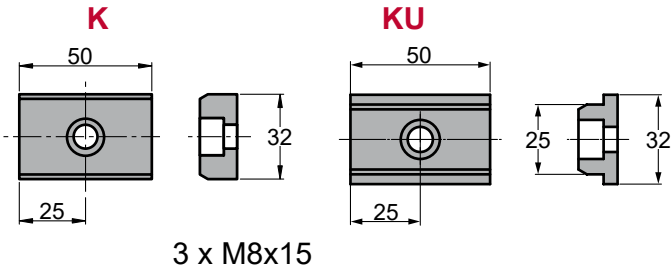


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 35**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

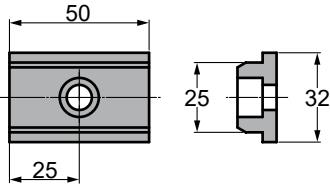
### K - KU



3 x M8x15

### KEY

#### KU



### Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 35-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

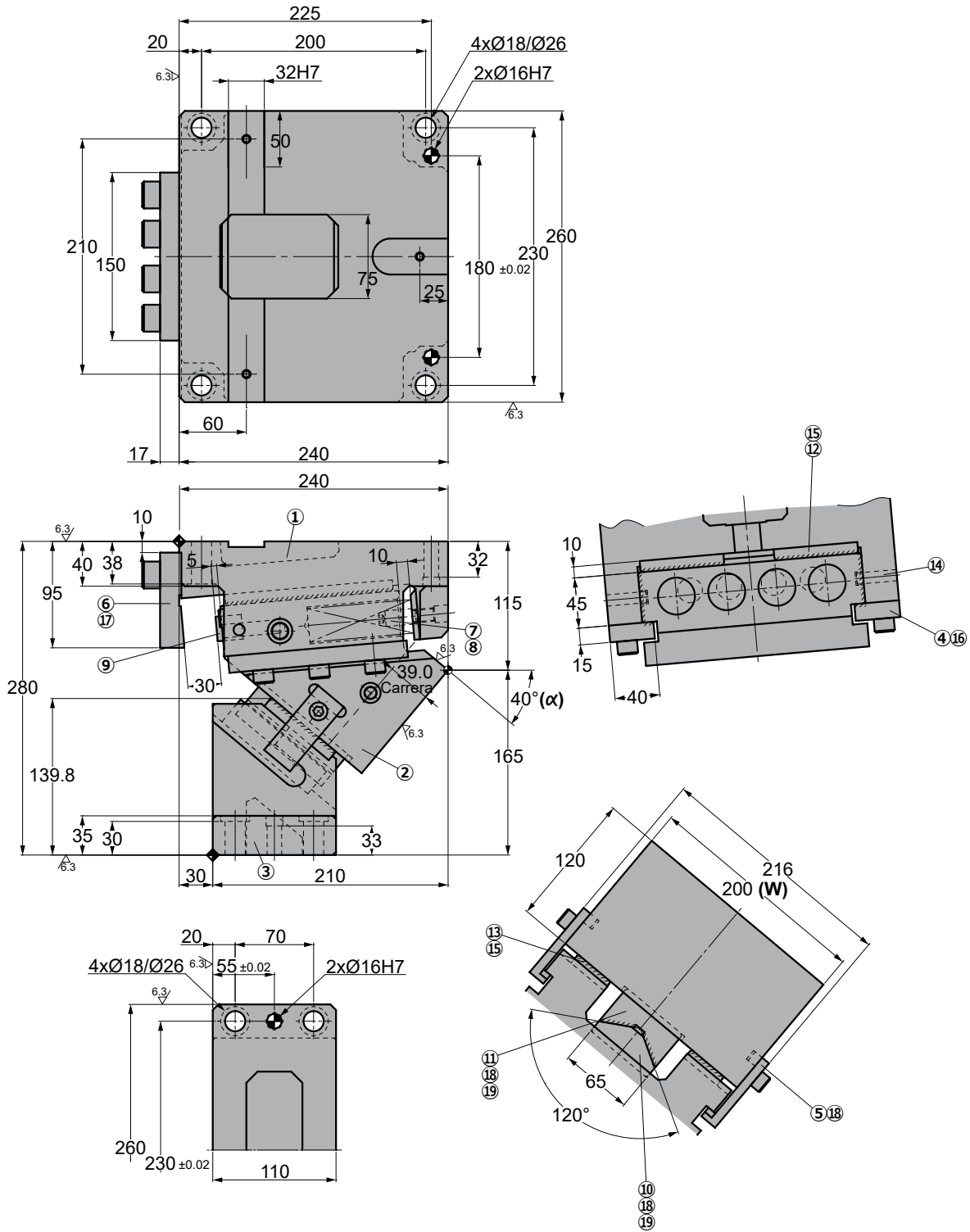
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

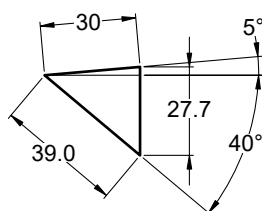
Aerial cam for pierce and flange



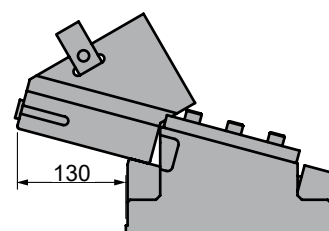
## ABKL 0200 40



### Cam diagram:



### Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
39.0	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>40</b>



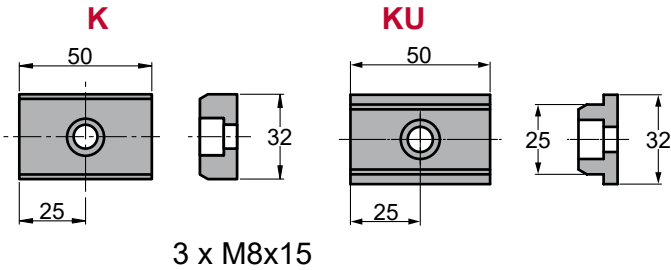
Order: Model (W) ( $\alpha$ )

**ABKL 0200 40**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

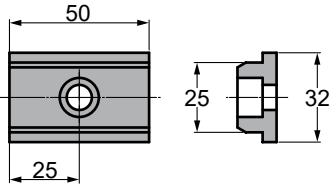
### K - KU



3 x M8x15

### KEY

#### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 40-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
42.2	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>45</b>

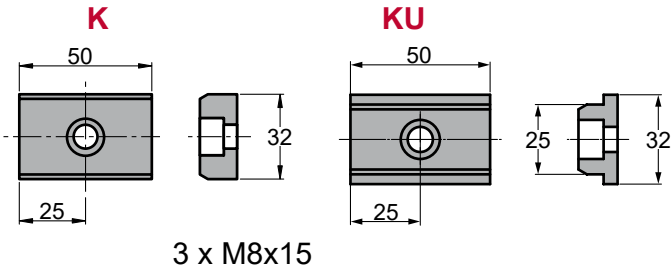


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 45**

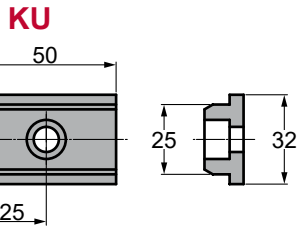
Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 45-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

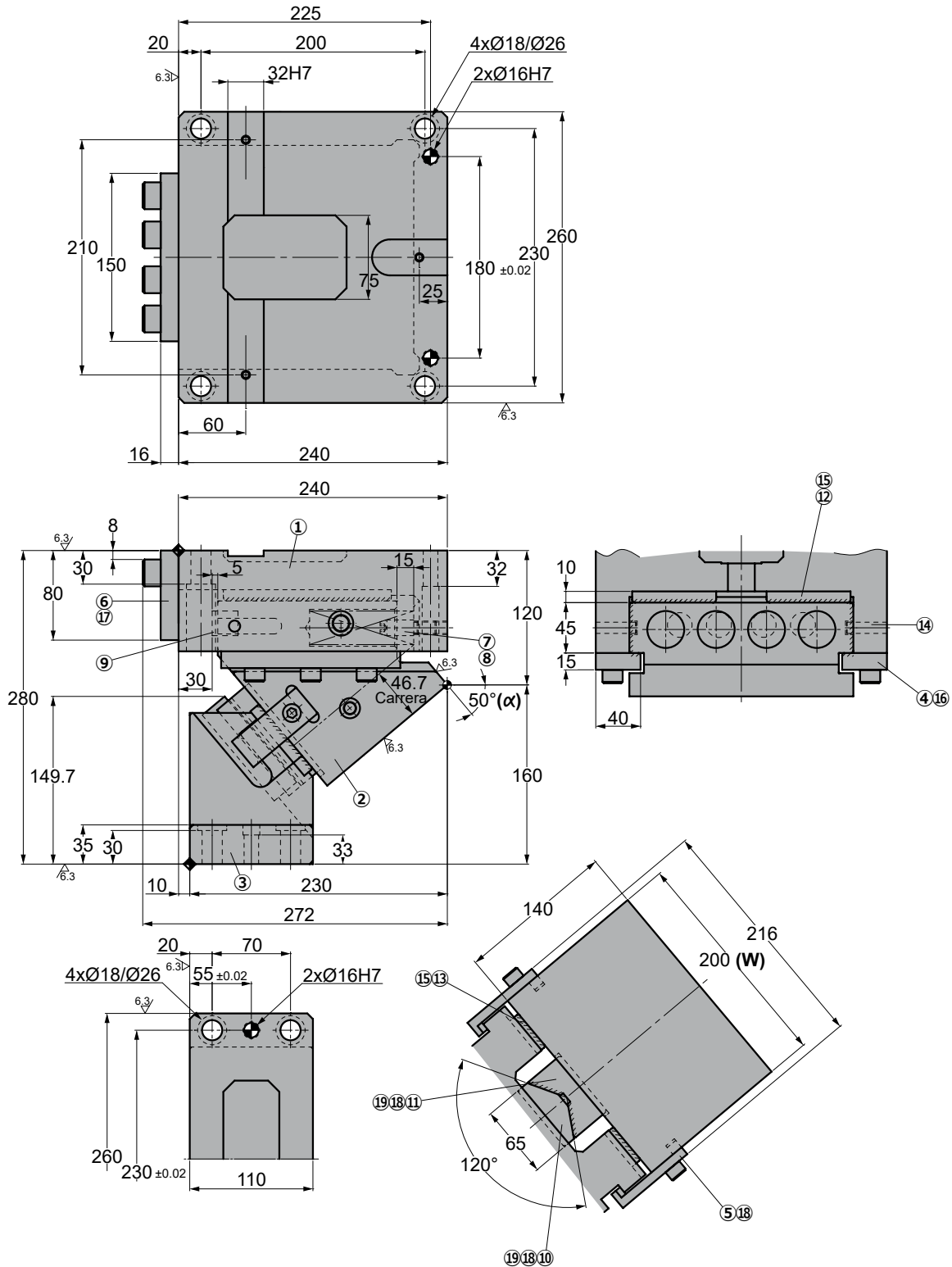
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

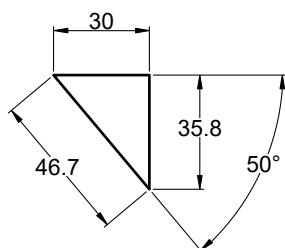
Aerial cam for pierce and flange



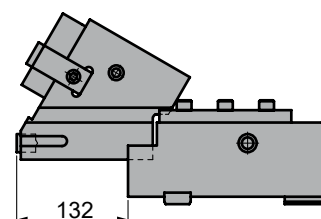
## ABKL 0200 50



◦Cam diagram:



◦Disassembling space:







# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
46.7	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>50</b>



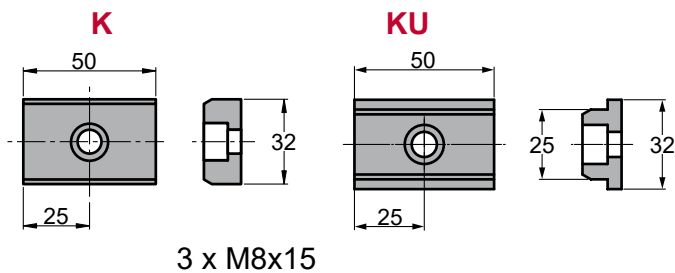
Order: Model (W) ( $\alpha$ )

**ABKL 0200 50**

Standard order example according to catalog sheet. Add options applying options table contents.

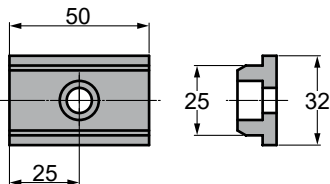
## OPTIONS

### K - KU



### KEY

#### KU



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 50-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

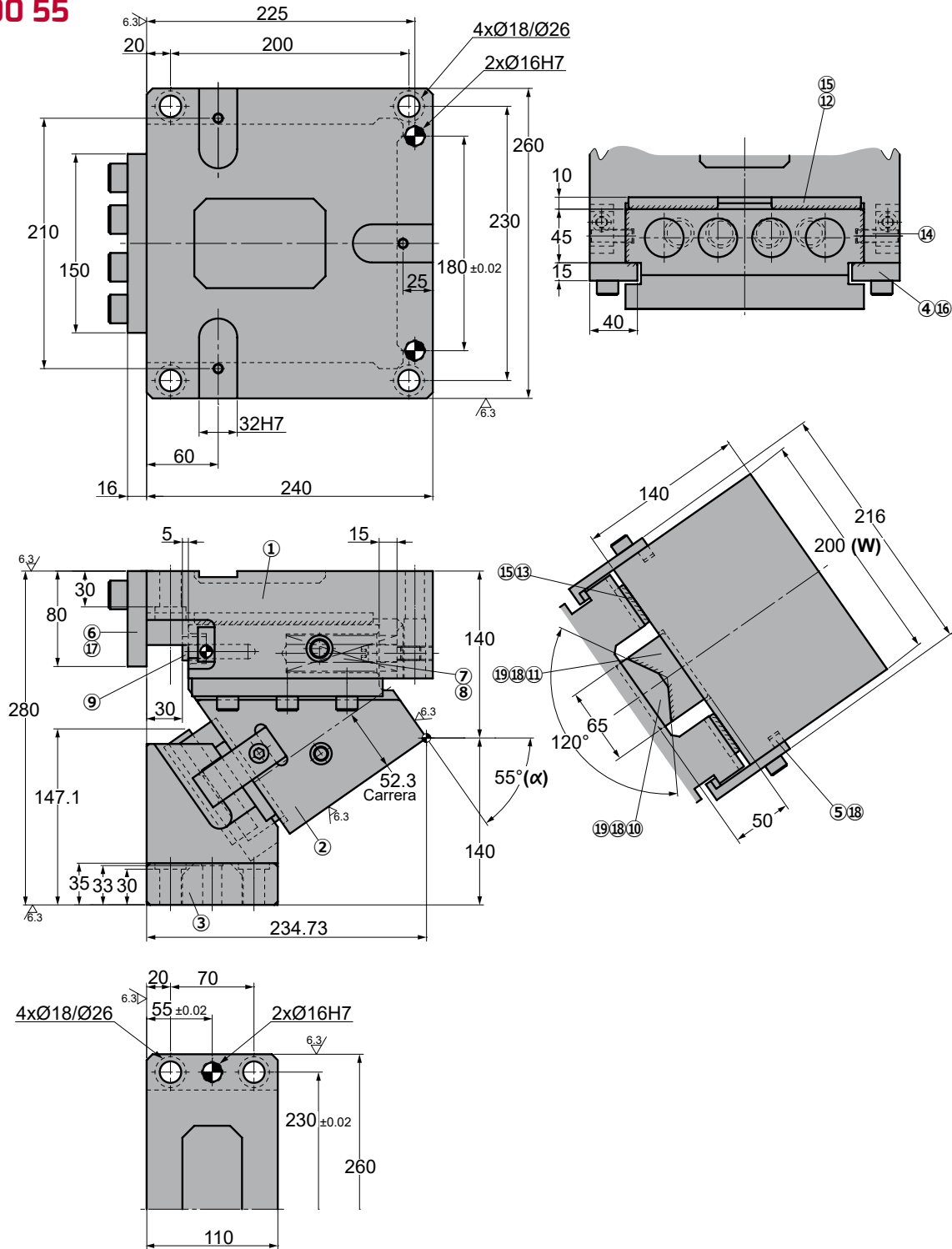
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

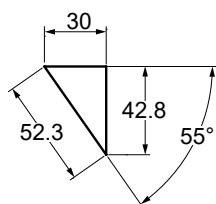
Aerial cam for pierce and flange



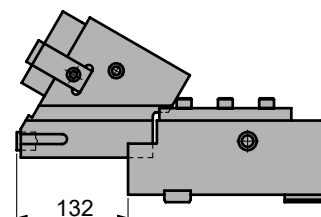
## ABKL 0200 55



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
52.3	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>55</b>

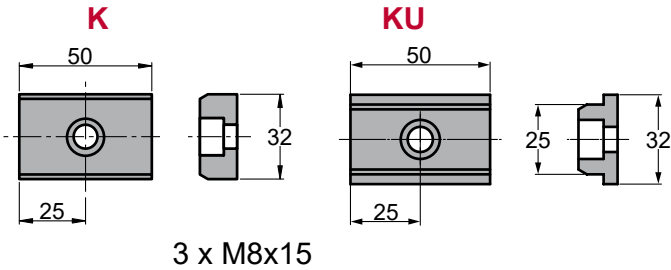


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 55**

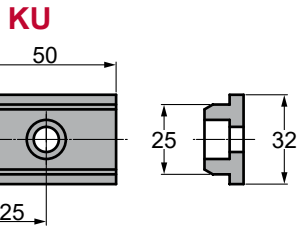
Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY



Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 55-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

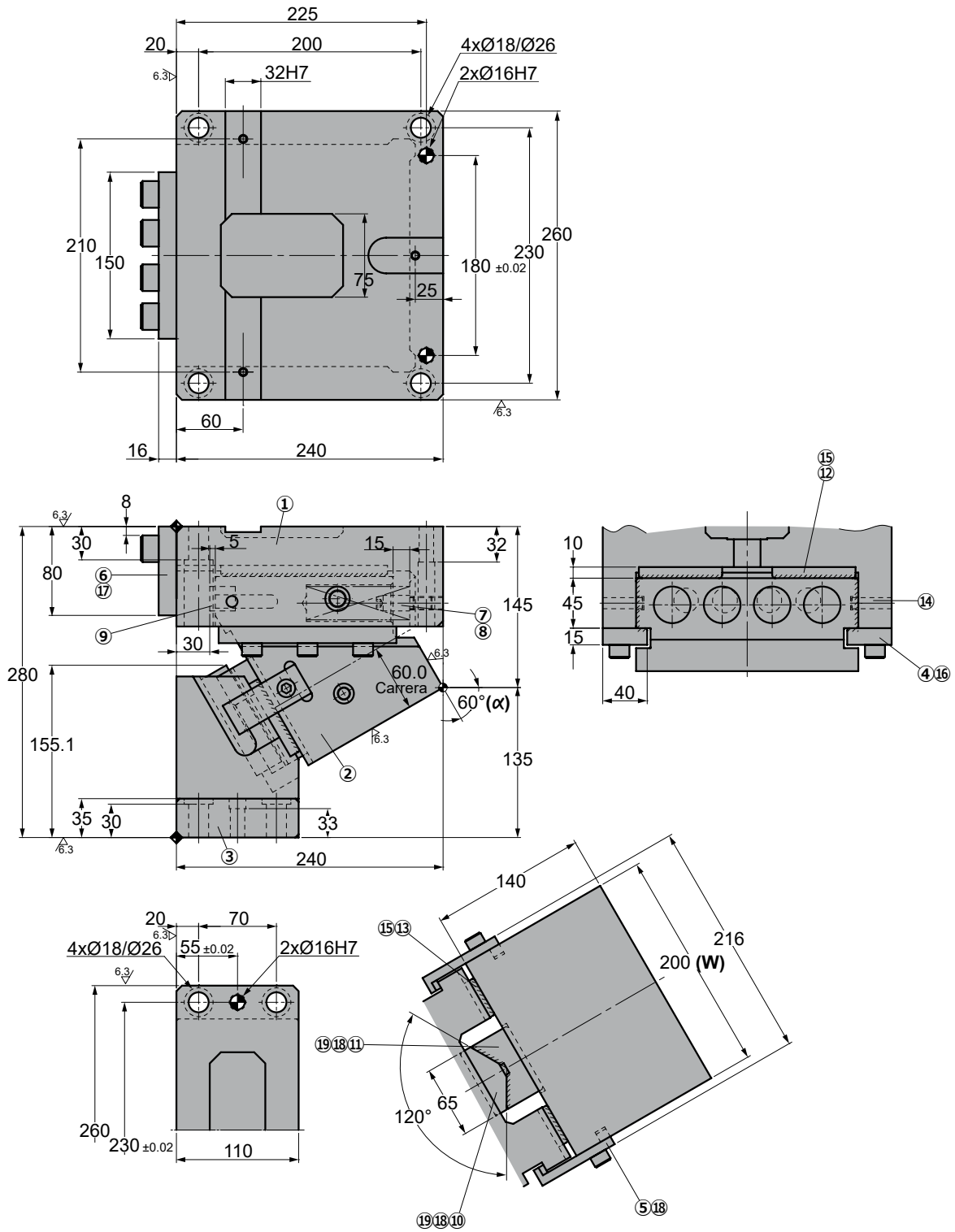
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

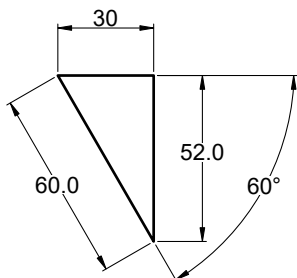
Aerial cam for pierce and flange



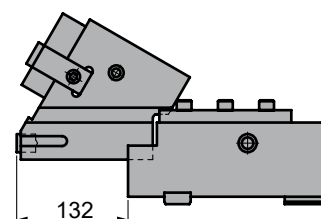
## ABKL 0200 60



◦Cam diagram:



◦Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
60.0	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>60</b>

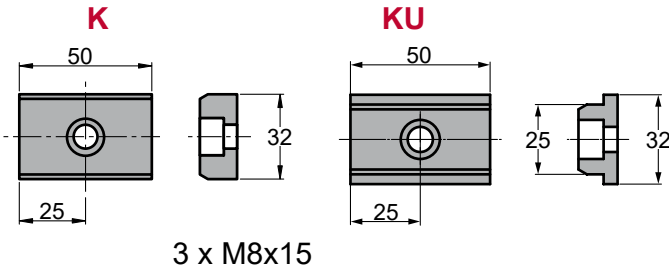


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 60**

Standard order example according to catalog sheet. Add options applying options table contents.

## OPTIONS

### K - KU



### KEY

### KU

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 60-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

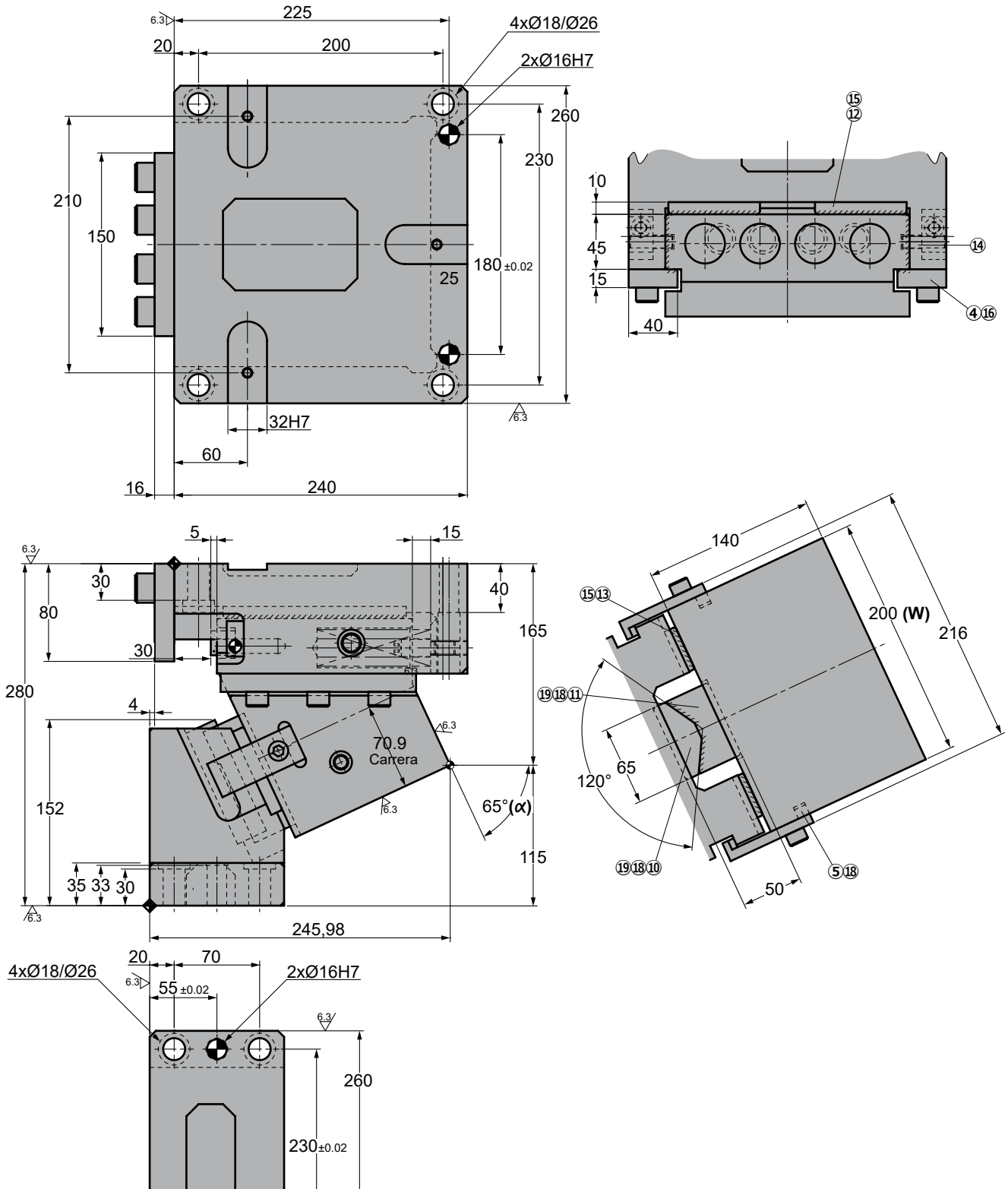
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

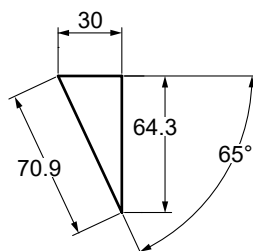
Aerial cam for pierce and flange



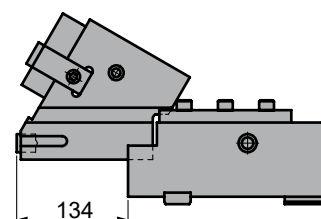
## ABKL 0200 65



### Cam diagram:



### Disassembling space:





# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
70.9	93.1 (9.5)	186.2 (19.0)	350.9 (35.8)	5614.1 (572.5)	<b>ABKL</b>	<b>0200</b>	<b>65</b>

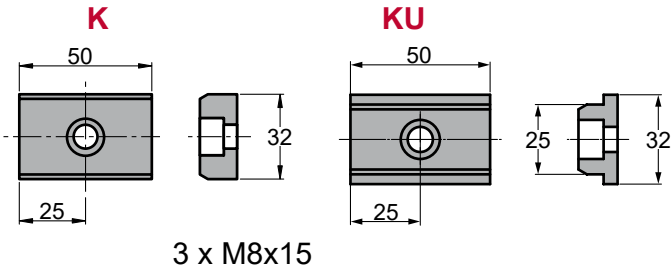


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 65**

Standard order example according to catalog sheet.  
 Add options applying options table contents.

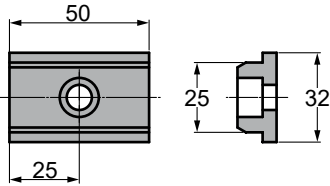
## OPTIONS

### K - KU



### KEY

### KU



### Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 65-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-125
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

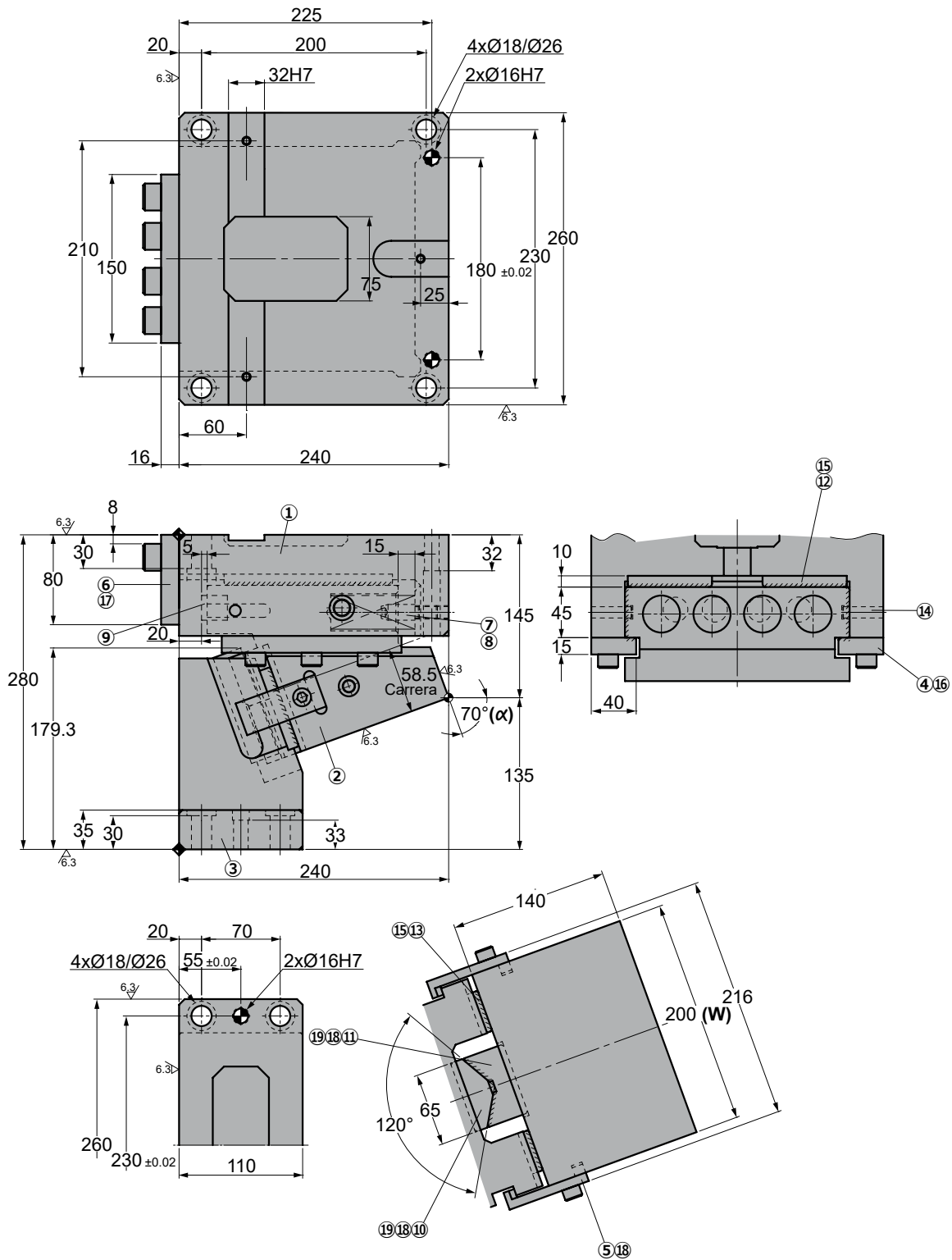
No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200

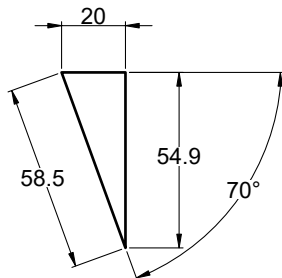
Aerial cam for pierce and flange



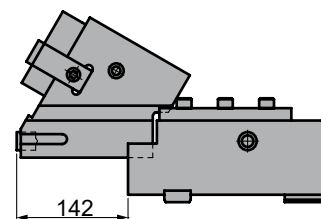
## ABKL 0200 70



◦Cam diagram:



◦Disassembling space:







# ABKL 0200

Aerial cam for pierce and flange

Stroke (mm)	Working force kN - (tons)		Spring Force N - (kgf)		Model	W (mm)	$\alpha$ (mm)
	(1 Million Strokes)	(300.000 Strokes)	Initial F <sub>0</sub>	Final F <sub>1</sub>			
58.5	93.1 (9.5)	186.2 (19.0)	1096.6 (111.8)	5483.0 (559.1)	<b>ABKL</b>	<b>0200</b>	<b>70</b>

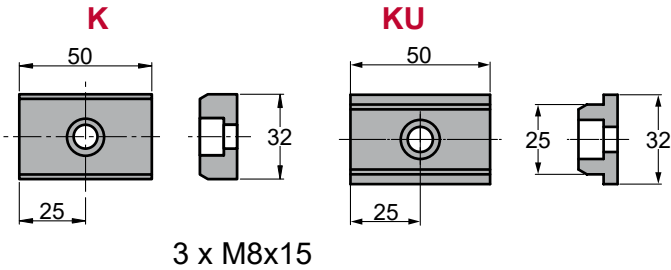


Order: Model (W) ( $\alpha$ )  
**ABKL 0200 70**

Standard order example according to catalog sheet. Add options applying options table contents.

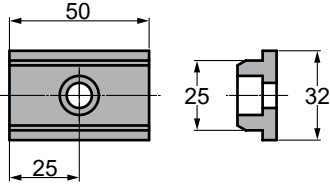
## OPTIONS

### K - KU



### KEY

#### KU



3 x M8x15

Order Options: Model (W) ( $\alpha$ )-Option



**ABKL 0200 70-K**



### SPARE PARTS:

- ⑧ Coil Spring
- ⑩ Lower Slide Guide
- ⑪ Upper Slide Guide
- ⑫ Upper Slide Plate
- ⑬ Cam Slider Plate

## COMPONENTS

No.	Description	Qty.	Material
①	Cam Holder	1	GG25
②	Cam Slider	1	GGG50 + G
③	Cam Driver	1	GGG50
④	Slider Plate	2	CK45 + G
⑤	Positive Return	2	CK45
⑥	Stopper Plate	1	CK45
⑦	Spring guide	4	CK45
⑧	Coil Spring	4	TM30-100
⑨	Cushioning Stopper	4	Urethane
⑩	Lower Slide Guide	1	CK45
⑪	Upper Slide Guide	1	Bronze + G
⑫	Upper Slide Plate	2	Bronze + G
⑬	Cam Slider Plate	2	Bronze + G
⑭	Screw	2	M10 x 25
⑮	Screw	8	M10 x 20

No.	Description	Qty.	Material
⑯	Screw	6	M12 x 35
⑰	Screw	4	M16 x 45
⑱	Screw	6	M10 x 30
⑲	Dowel Pin	4	Ø10 x 25

# ABKL 0200



*Aerial cam for pierce and flange*