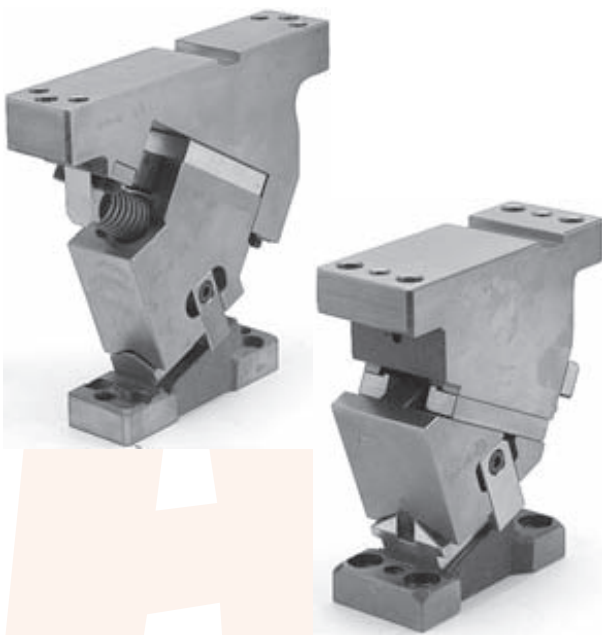


# Aerial Cam Unit

## - B-UCMSC/ B-UCMSF -



### ● Features of B-UCMSC

- Space saving design with the mount width equal to the cam width and reduction of weight.
- Automatic alignment mechanism of the V-shaped guide.
- Slider is removable from the back. This makes it possible to lay out the parts side by side.
- Available angle is  $0^{\circ}$  to  $70^{\circ}$  at increments of  $5^{\circ}$ .

### ● Features of B-UCMSF

- Space saving design with the mount width equal to the cam width and reduction of weight.
- Automatic alignment mechanism of the V-shaped guide.
- Slider is retractable from the back side. This makes it possible to lay out the parts side by side.
- Available angle is  $0^{\circ}$  to  $70^{\circ}$  at increments of  $5^{\circ}$ .
- 2-stage spring type is used.
- The spring force is about twice that of UCMSC.
- Durability in stamping is increased by changing the material of the cam slide guide. It is about 1.4 times that of UCMSC.

ASIAN ADVANCED TECHNICA CO.,LTD.

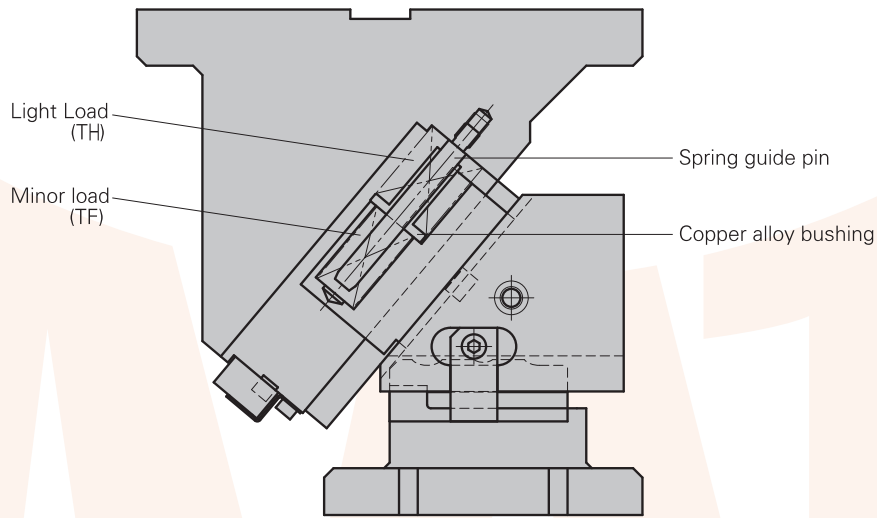
# Aerial Cam Unit

## - B-UCMSC/ B-UCMSF -

### ■ Structure of B-UCMSF

Although UCMSF has the same structure as UCMSC, the 2-stage spring type is used to improve the spring force.

Copper alloy for high pressure (SO#50SP7) is used for the cam slide guide (cam bottom) to increase the force.



### Performance Specifications

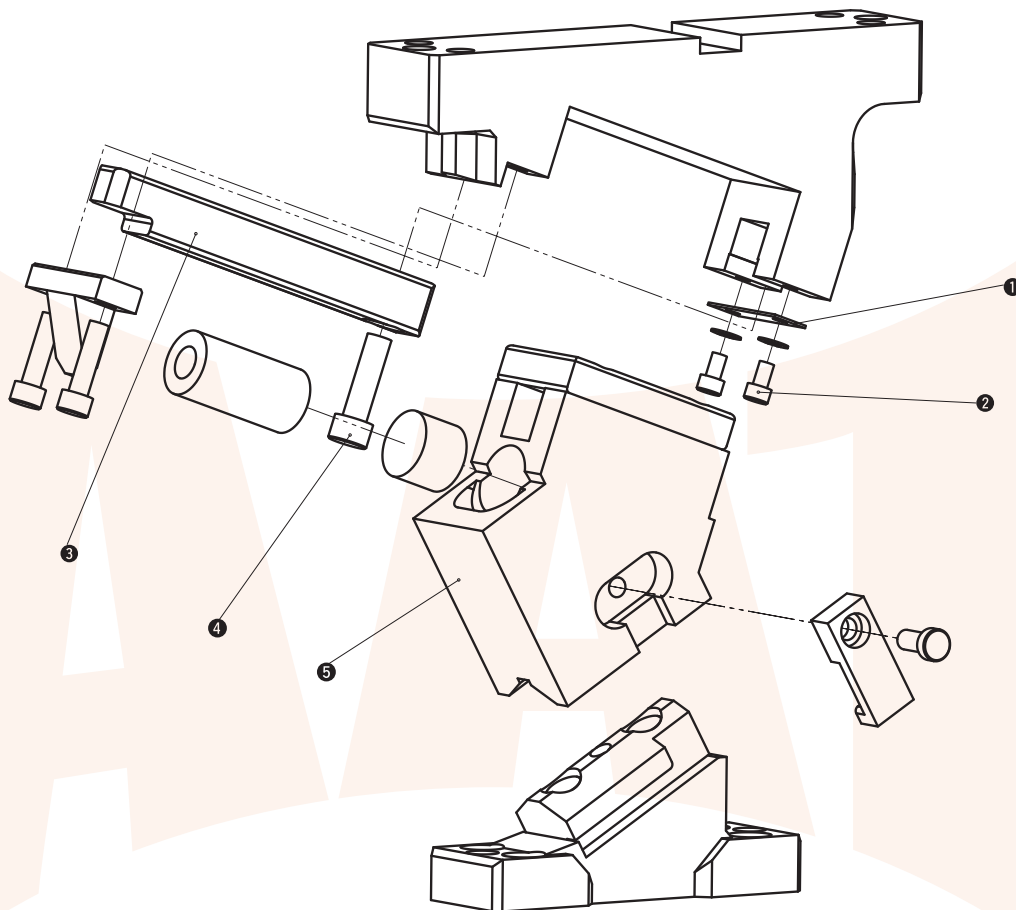
Catalog No.	Mount Width	Working angle (increments of 5°)	Working Force kN(tonf)		Spring Force (Final Load) N (kgf)	Shut height
			Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)		
B-UCMSC	50	0° ~ 70°	19.6 (2.0)	39.2 (4.0)	* about 980 (100)	200
	65	0° ~ 70°	19.6 (2.0)	39.2 (4.0)	* about 1220 (124)	180 (0° ~ 45°) 190 (0° ~ 45°) 210 (60° ~ 70°)
	80	0° ~ 70°	39.2 (4.0)	78.4 (4.0)	* about 1600 (163)	270
	150	0° ~ 70°	88.2 (9.0)	132.3 (13.5)	4607.5 (470.2)	270
B-UCMSF	80	0° ~ 70°	54.9 (2.0)	109.8 (4.0)	3250.0 (331.4)	270
	150	0° ~ 70°	123.5 (12.6)	185.2 (18.9)	9540.0 (973.4)	270

\* There are some difference depending on the angle.

# Aerial Cam Unit

## - B-UCMSC/ B-UCMSF -

### ■ B-UCMSC50 Structure and Assembly / Disassembly

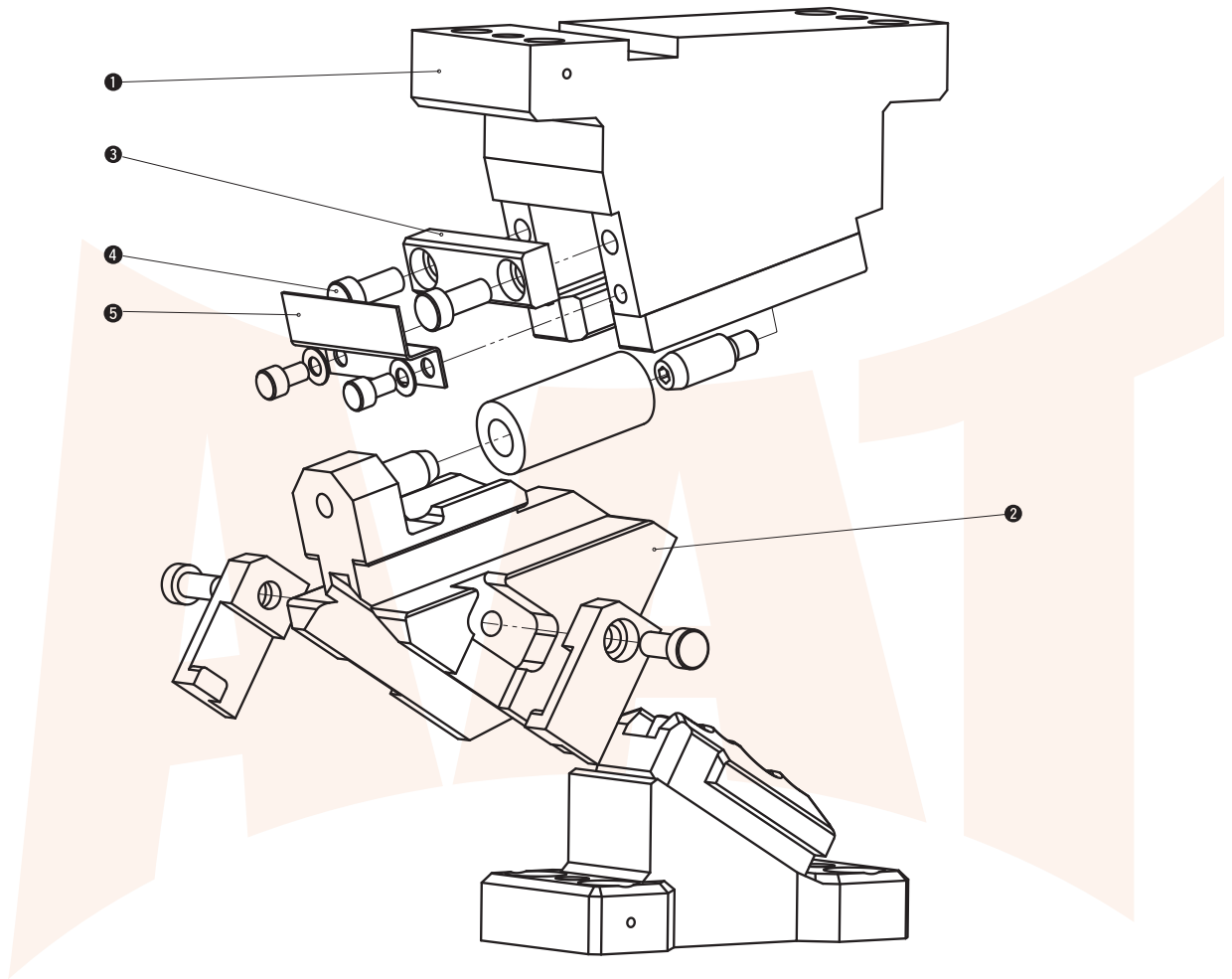


- Disassembly method of B-UCMSC50
  - 1) Remove hexagon socket head bolt ( ❷ ) and remove safety plate ( ❶ ).
  - 2) Remove hexagon socket head bolt ( ❹ ).
  - 3) Shift guide bar ( ❸ ) to the back then remove cam slider ( ❺ ) from cam holder.
- Assembly method of B-UCMSC50
  - 1) Assemble components in the reverse order of disassembly.
    - Make sure that there is no foreign matter on the sliding area and assemble components.
    - The clearance between the guide bar/cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly.
    - When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided.

# Aerial Cam Unit

## - B-UCMSC/ B-UCMSF -

### ■ B-UCMSC65 Structure and Assembly / Disassembly



- Disassembly method of B-UCMSC65

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

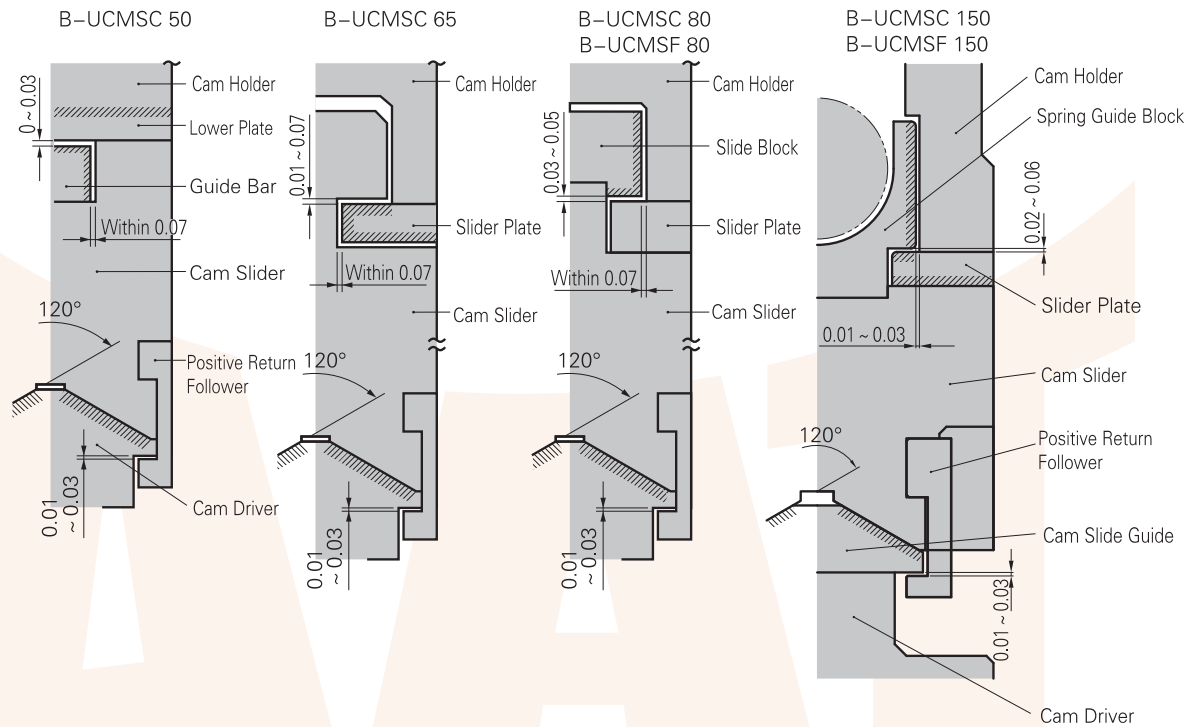
- Assembly method of B-UCMSC65

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

# Aerial Cam Unit

## - B-UCMSC/ B-UCMSF -

### Slide Structure and Positive Return Structure



\* Oilless System at Hatched Area  
(copper powder sintered) Area

Option Code		K	TK	SC	WC	N12	N16
Catalogs No.	Details	Key is attached for the cam holder.	T-shaped key type is used for both holder and driver.	The mount surface is pulled forward (increments of 1mm)	The mount surface width is widened to the constant size.	The dowel holes for cam holder and cam driver are changed to $\varnothing 12H7$	The dowel holes for cam holder and cam driver are changed to $\varnothing 16H7$
B-UCMSC	50	O	-	O	O	O	-
	65	O	-	O	-	-	-
	80	O	-	O	O	-	O
	150	O	O	-	-	-	O
B-UCMSF	80	O	-	O	O	-	O
	150	O	O	-	-	-	O

# Aerial Cam Unit

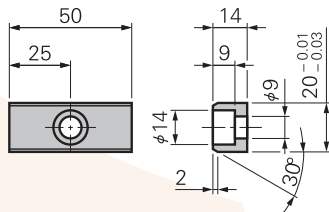
## - B-UCMSC/ B-UCMSF -

### Option of B-UCMSC and B-UCMSF

#### ● Key specification(-K)

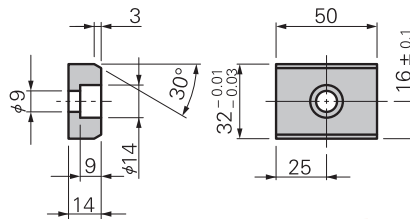
##### • B-UCMSC 50/65

LKU20-50  
(with 1-M8 x 15 bolts)

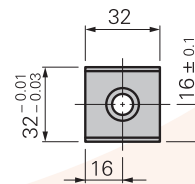


##### • B-UCMSC · B-UCMSF 80/150

For 80  
LKU32-50  
(with 1-M8 x 15 bolts)



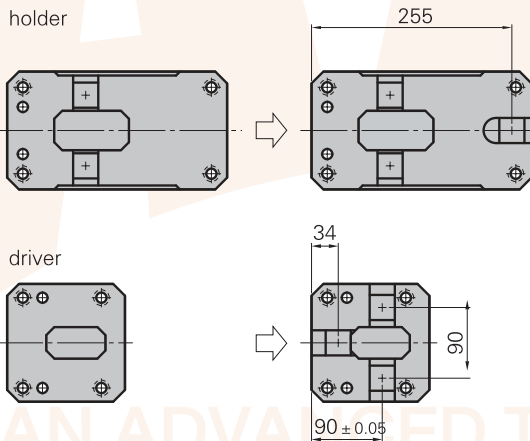
For 150  
LKU32-32  
(with 1-M8 x 15 bolts)



#### ● T-shaped key type(-TK)

##### B-UCMSC · B-UCMSF 150

T-shaped key grooves are additionally machined as shown in the figure below.



ASIAN ADVANCED TECHNICA CO.,LTD.