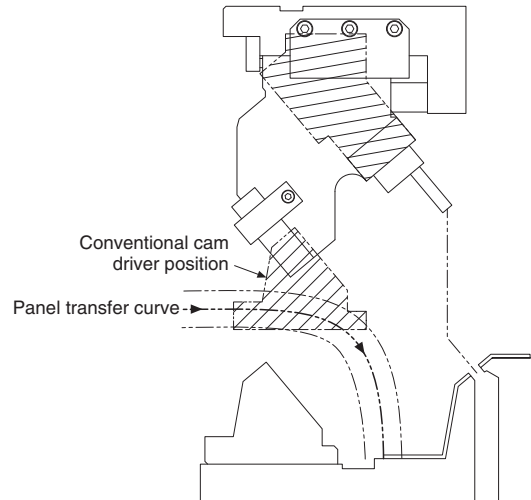
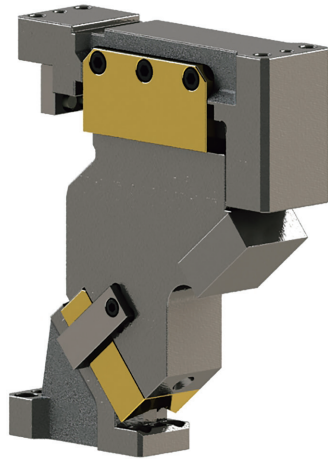


Cam unit that can avoid interference with panel LONG LEG CAM-angle 50~80-

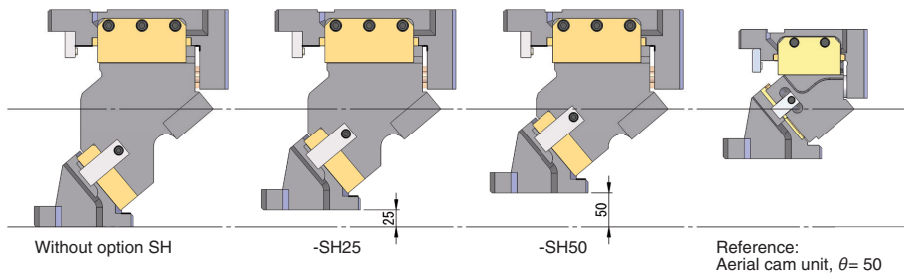
AERIAL CAM UNIT

NEW CAD FILE



Features

- The lowered cam driver position provides no interference with the panel.
- Option SH, which is to change shut height, provides optimal designing of the die.

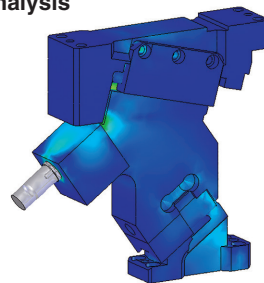


- Space saving
- Rigid and durable cam unit confirmed by CAE analysis and in-house endurance test

Endurance test



CAE analysis



Structure and Assembly · Disassembly

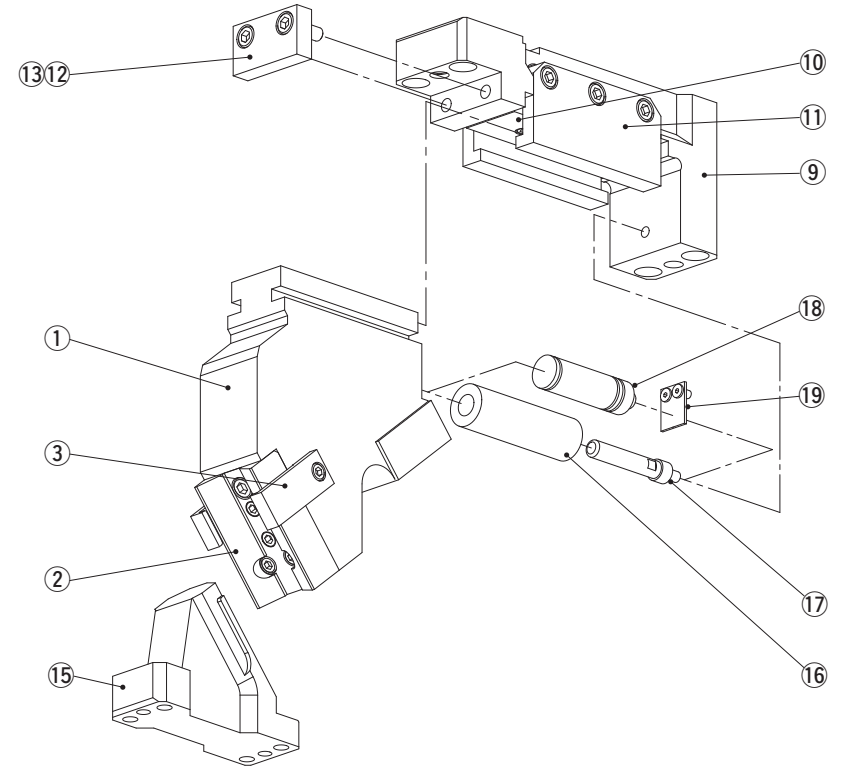


Table of Components

No.	Description	Qty	
		Coil spring	Gas Spring
1	Cam Slider	1	
2	Cam Bottom Slide Plate	1	
3	Positive Return Follower	2	
9	Cam Holder	1	
10	Wear Plate	1	
11	Slide Keeper	2	
12	Stopper Plate	1	
13	Urethane Stopper	3	
15	Cam Driver	1	
16	Coil Spring	1	
17	Spring Guide Pin	1	
18	Gas Spring		1
19	Spring Plate		1

Disassembly method

- 1) Loosen hexagonal socket head bolts and remove #12 Stopper Plate.
 - 2) Pull out and remove #1 Cam Slider from #9 Cam Holder to the rear.
- ※ Note that #18 Gas Spring is not fixed to #1 Cam Slider.

Assembly method

- 1) Assemble parts in the reverse order of disassembly.
- Make sure that there is no foreign matter on the sliding area and apply grease on sliding surface.
 - Since clearances of #1 Cam Slider and #9 Cam Holder are controlled, make sure that serial numbers engraved on the Cam Slider and the Cam Holder are identical.
 - After assembly, make sure that all bolts are correctly tightened.

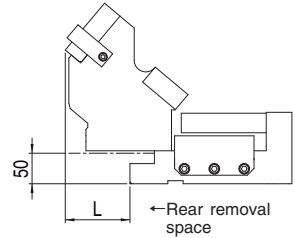
Bolts for assembly are not indicated.

■ Weight

Angle θ	Option SH	Cam slider weight kg	Total weight kg	Tool installation weight kg
50	—	12.0	23.3	3.0
	-SH25	10.9	22.2	
	-SH50	9.7	21.0	
55	—	12.3	23.8	3.0
	-SH25	11.2	22.7	
	-SH50	10.1	21.6	
60	—	12.4	23.8	3.0
	-SH25	11.4	22.8	
	-SH50	10.4	21.8	
65	—	12.3	23.8	3.0
	-SH25	11.3	22.8	
	-SH50	10.3	21.8	
70	—	12.2	23.8	3.0
	-SH25	11.2	22.8	
	-SH50	10.2	21.8	
75	—	12.2	23.8	3.0
	-SH25	11.2	22.8	
	-SH50	10.2	21.8	
80	—	12.4	24.2	3.0
	-SH25	11.5	23.3	
	-SH50	10.5	22.3	

■ Rear removal space

Angle θ	L (mm)
50	105.8
55	112.8
60	110.3
65	110.7
70	119.6
75	122.7
80	128.7



■ Spring force & Return force

● Coil spring specification

Angle θ	Spring force				Return force	
	Initial load		Final load		N	kgf
	N	kgf	N	kgf		
50	260.8	26.6	2950.3	301.1	3871.1	395.0
55	401.4	41.0	2809.8	286.7	4011.0	409.3
60	394.4	40.2	2760.8	281.7	4354.7	444.4
65	388.9	39.7	2722.0	277.8	4841.3	494.0
70	381.9	39.0	2673.3	272.8	5497.9	561.0
75	447.3	45.6	2534.7	258.6	6234.5	636.2
80	442.8	45.2	2390.9	244.0	7383.3	753.4

● Gas spring specification

Angle θ	Spring force		Return force	
	Final load		N	kgf
	N	kgf		
50	2886.9	294.6	3786.8	386.4
55	2715.2	277.1	3872.7	395.2
60	2950.4	301.1	4655.0	475.0
65	2820.8	287.8	5017.7	512.0
70	2691.2	274.6	5535.0	564.8
75	2856.0	291.4	7030.0	717.3
80	2758.3	281.5	8526.2	870.0