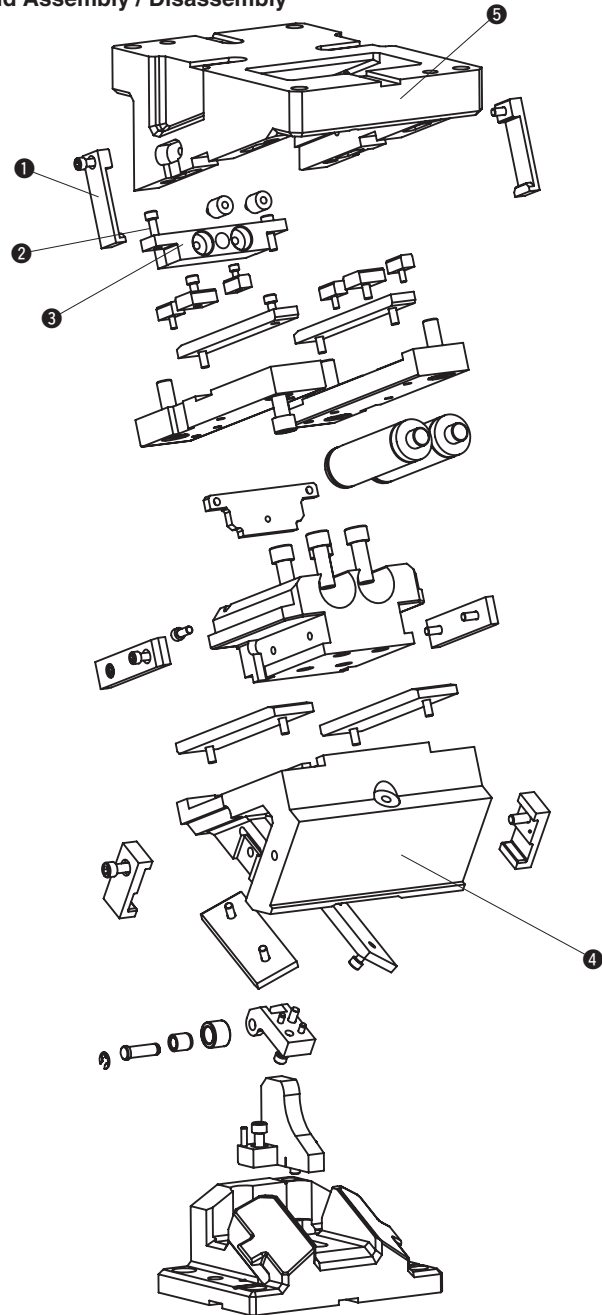


■ UCMSV165/200/250/300/400

Structure and Assembly / Disassembly



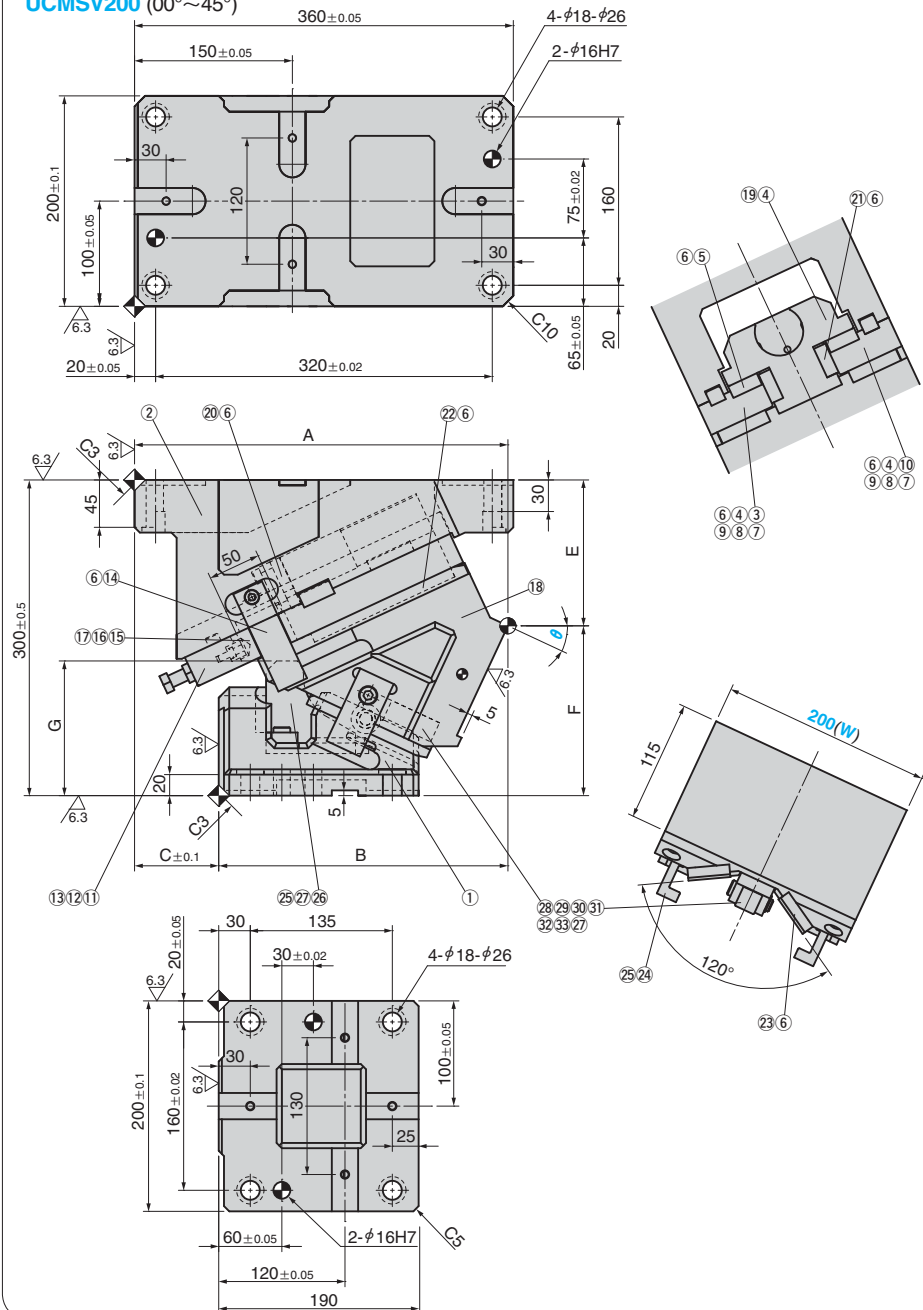
- Disassembly method of UCMSV 165 / 200 / 250 / 300 / 400

- 1) Remove safety plate (1) .
- 2) Remove hexagon socket head bolt(2) and stopper plate(3).
- 3) Remove cam slider (4) from cam holder (5) at rear of cam.

- Assembly method of UCMSV 165 / 200 / 250 / 300 / 400

- 1) Assemble components in the reverse order to which they were removed.
 - Make sure that there is no foreign matter on the slide surfaces before assembly.
 - The clearance between the cam slider and the cam holder is carefully controlled. Check that the serial number stamped on both parts is the same.
 - Please ensure that all bolts removed are re-installed and tightened.

UCMSV200 (00°~45°)



θ	Travel	A	B	C	E	F	G
00	32.1	360.00	210.00	150	95.00	205.00	92
05	35.5	356.25	222.25	134	100.91	199.09	102
10	38.9	359.27	241.27	118	111.09	188.91	103
15	42.4	355.78	244.78	111	122.47	177.53	109
20	46.1	355.68	262.68	93	130.00	170.00	119
25	50.0	354.88	274.88	80	138.62	161.38	128
30	54.3	357.28	287.28	70	148.28	151.72	138
35	59.0	345.80	281.80	64	158.89	141.11	150
40	64.3	344.27	286.27	58	170.38	129.62	161
45	70.4	344.86	304.86	40	182.66	117.34	172

Working Force kN	Catalog No.	(W)	θ	Spring Type PS
			00	
			05	
			10	GS
			15	GK
			20	GD
218	UCMSV	200	25	*NGS
			30	*NGK
			35	*NGD
			40	
			45	

Mark * Without gas spring but accessories for installation of each type are included.

Order **Catalog No.** (W) - θ - PS
UCMSV 200 - 25 - GK

Spring Specification (Qty 1)

Spring Type PS	Spring Force N			Gas Spring Catalog No.
	F _A	F _E	F _{AP}	
GS	5000	6590	6115	SPF.500.63 (SANKYO)
GK	4700	6600	6062	TU500-63.5-TD (Kaller)
GD		6150	5739	90.10..00500.063 (Dadco)

NOTE

F_A :Initial Force
 F_E :Final Force
 F_{AP} :Force at working point

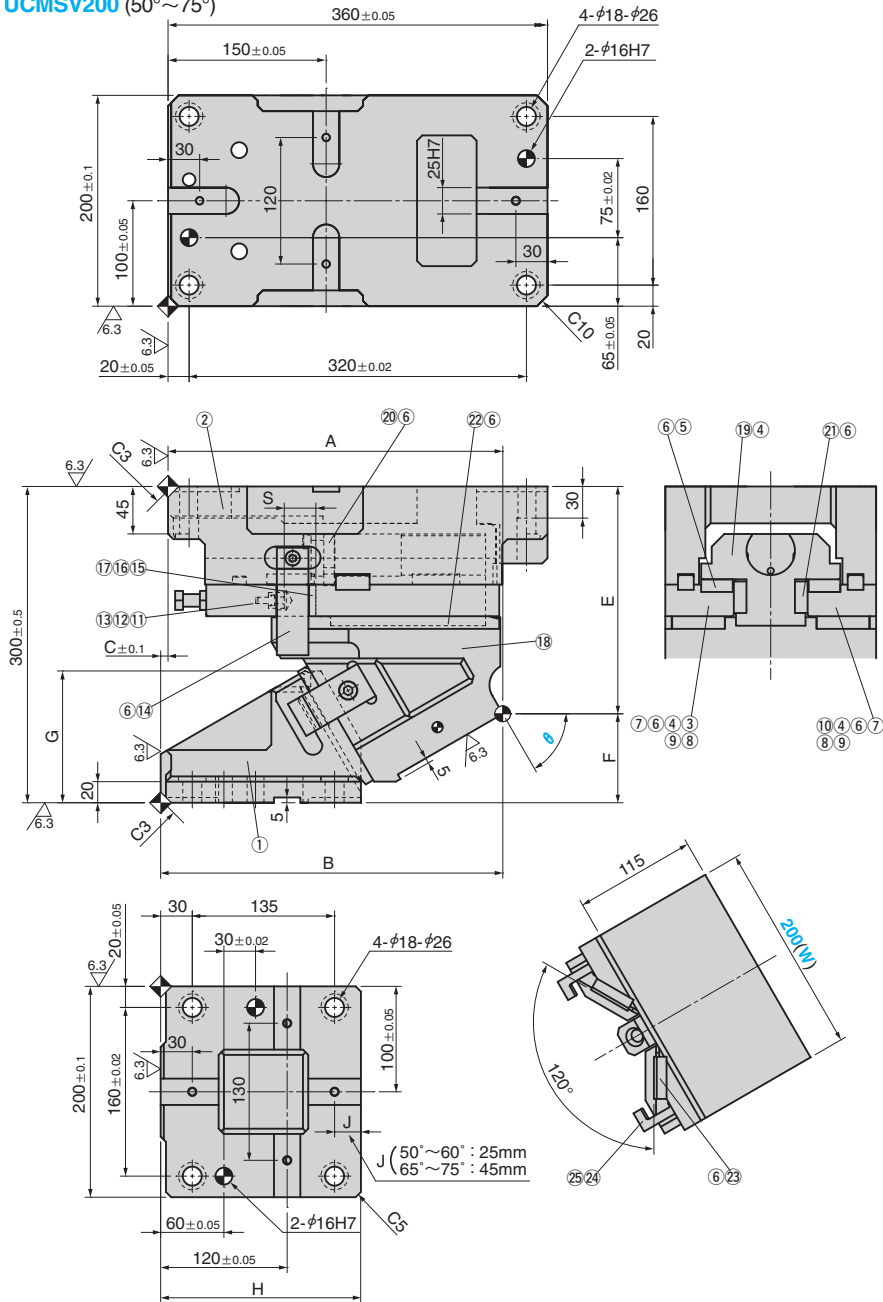
Option

Code	Specification
LA	without accelerator
K	with key
NF	without nitrogen gas

Parts list is shown in p.1529
 Detail of key is shown in p.1528
 Cam diagram is shown in p.1527
 NF : Gas Springs are not filled with nitrogen gas if delivery is by air freight.

Order **UCMSV200 - 25 - GK - NF**

UCMSV200 (50°~75°)



θ	Travel	A	B	C	E	F	G	S	H
50	77.8	327.27	317.27	10	195.63	104.37	140	50	
55	52.3	324.39	324.39	0	210.20	89.80	125		190
60	60	317.59	324.59	-7	215.63	84.37	125	30	
65	71	319.23	334.23	-15	231.40	68.60	130		
70	58.5	313.07	338.07	-25	245.67	54.33	135	20	210
75	77.3	306.08	341.08	-35	260.24	39.76	135		

Working Force kN	Catalog No.	(W)	θ	Spring Type PS
218	UCMSV	200	50	GS
			55	GK
			60	GD
			65	*NGS
			70	*NGK
			75	*NGD

Mark * Without gas spring but accessories for installation of each type are included.



Order

Catalog No. (W) - θ - PS
 UCMSV 200 - 60 - GK

Spring Specification (Qty 1)

Spring Type PS	θ	Spring Force N			Gas Spring Catalog No.
		F _A	F _E	F _{AP}	
GS	50			6115	SPF.500.63 (SANKYO)
	55~65	5000	6590	5781	SPF.500.50 (SANKYO)
	70~75			5645	SPF.500.38 (SANKYO)
GK	50		6600	6062	TU500-63.5-TD (Kaller)
	55~65	4700		5603	TU500-50-TD (Kaller)
	70~75		6500	5463	TU500-38.1-TD (Kaller)
GD	50			5739	90.10.00500.063 (Dadco)
	55~65	4700	6150	5415	90.10.00500.050 (Dadco)
	70~75			5262	90.10.00500.038 (Dadco)

NOTE

F_A :Initial Force
 F_E :Final Force
 F_{AP} :Force at working point



Option

Code	Specification
K	with key
NF	without nitrogen gas

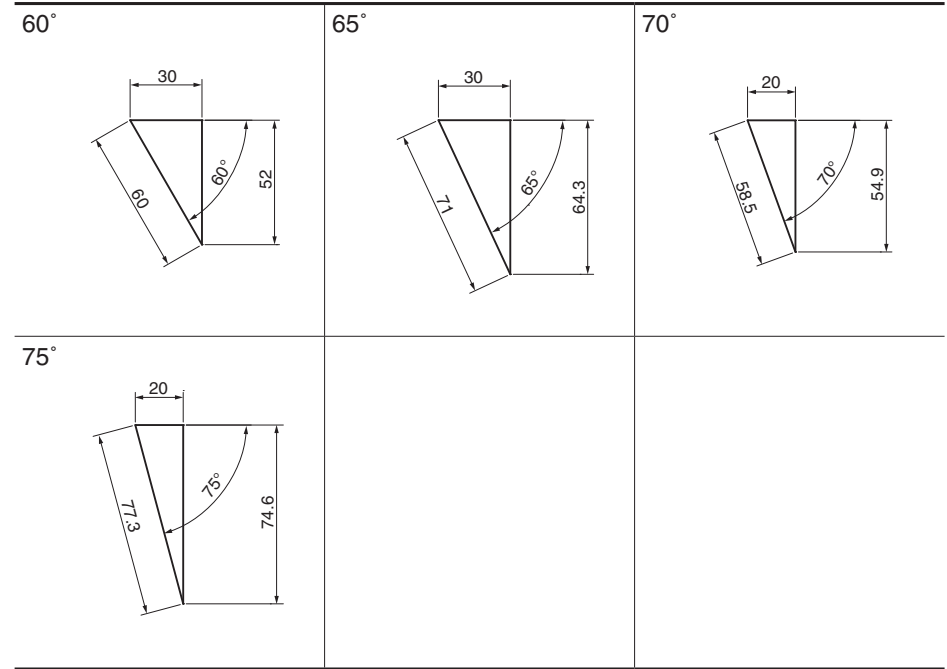
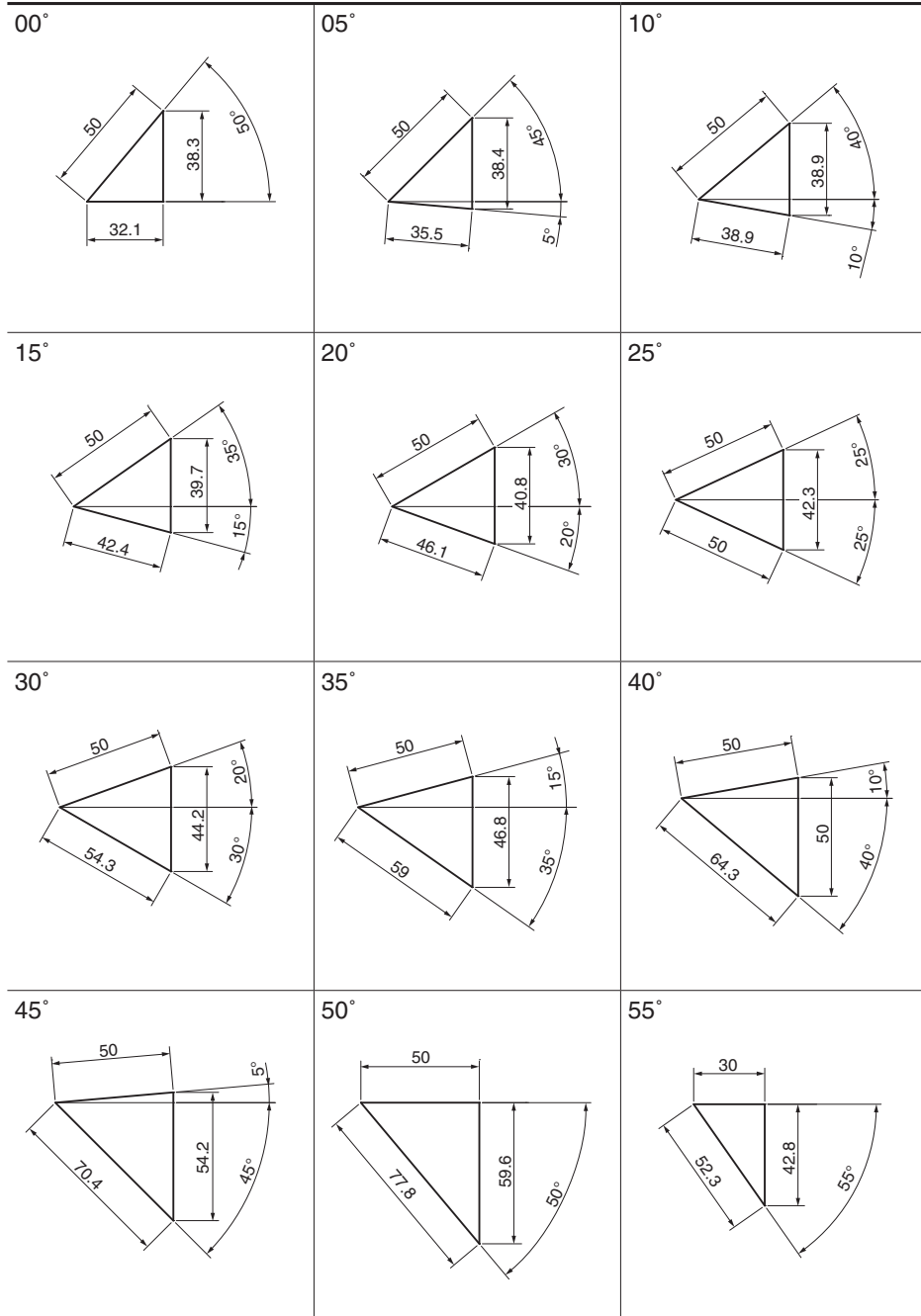


Order

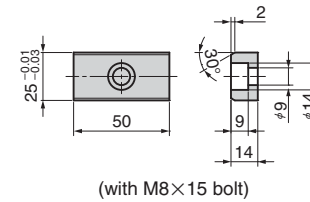
UCMSV200 - 60 - GK - NF



Parts list is shown in p.1529
 Detail of key is shown in p.1528
 Cam diagram is shown in p.1527
 NF : Gas Springs are not filled with nitrogen gas if delivery is by air freight.



■ Key Specification



Aerial Cam Unit Table of Components

FOR PIERCE AND FLANGE

■ $\theta = 00^\circ \sim 45^\circ$

No.	Description	Qty	Material and Remark
①	Cam Driver	1	FCD600(GGG60)
②	Cam Holder	1	FCD600(GGG60)
③	Base Plate R	1	S45C
④	Hexagon Socket Head Bolt	6	SCM435 M16×45
⑤	Wear Plate	2	Bronze With Graphite(VSM)
⑥	Hexagon Socket Head Bolt	22	SCM435 M6×20
⑦	Key	4	SS400
⑧	Hexagon Socket Head Bolt	4	SCM435 M6×20
⑨	Key	2	SS400
⑩	Base Plate L	1	S45C
⑪	Stopper Plate	1	SS400
⑫	Stopper	1	Urethane(PCU20)
⑬	Hexagon Socket Head Bolt	2	SCM435 M8×30
⑭	Safety Plate	2	S45C
⑮	Lock Block	1	SS400
⑯	Hexagonal Bolt	2	SCM435 M12×140
⑰	Hexagonal Nut	2	SCM435 M12
⑱	Cam Slider	1	FCD600(GGG60)
⑲	Spring Guide	1	S45C
⑳	Gas Spring Guide Plate	1	SS400
㉑	Wear Plate	2	Bronze With Graphite(VSM)
㉒	Wear Plate	2	Bronze With Graphite(VSM)
㉓	Wear Plate	2	Bronze With Graphite(VSM)
㉔	Cam Positive Return Plate	2	S45C
㉕	Hexagon Socket Head Bolt	4	SCM435 M10×30
㉖	Roller Driver	1	S45C
㉗	Dowel Pin with Female Thread	4	SUJ2 #6-30
㉘	Roller Bracket	1	SS400
㉙	Roller	1	S45C
㉚	Oiless Bush	1	Bronze with Graphite(SO#50SP2)
㉛	Roller Pin	1	S45C
㉜	E-Ring	1	
㉝	Hexagon Socket Head Bolt	2	SCM435 M8×25

■ $\theta = 50^\circ \sim 75^\circ$

No.	Description	Qty	Material and Remark
①	Cam Driver	1	FCD600(GGG60)
②	Cam Holder	1	FCD600(GGG60)
③	Base Plate R	1	S45C
④	Hexagon Socket Head Bolt	6	SCM435 M16×45
⑤	Wear Plate	2	Bronze With Graphite(VSM)
⑥	Hexagon Socket Head Bolt	22	SCM435 M6×20
⑦	Key	4	SS400
⑧	Hexagon Socket Head Bolt	4	SCM435 M6×20
⑨	Key	2	SS400
⑩	Base Plate L	1	S45C
⑪	Stopper Plate	1	SS400
⑫	Stopper	1	Urethane(PCU20)
⑬	Hexagon Socket Head Bolt	2	SCM435 M8×30
⑭	Safety Plate	2	S45C
⑮	Lock Block	1	SS400
⑯	Hexagonal Bolt	2	SCM435 M12×140
⑰	Hexagonal Nut	2	SCM435 M12
⑱	Cam Slider	1	FCD600(GGG60)
⑲	Spring Guide	1	S45C
⑳	Gas Spring Guide Plate	1	SS400
㉑	Wear Plate	2	Bronze With Graphite(VSM)
㉒	Wear Plate	2	Bronze With Graphite(VSM)
㉓	Wear Plate	2	Bronze With Graphite(VSM)
㉔	Cam Positive Return Plate	2	S45C
㉕	Hexagon Socket Head Bolt	2	SCM435 M10×30