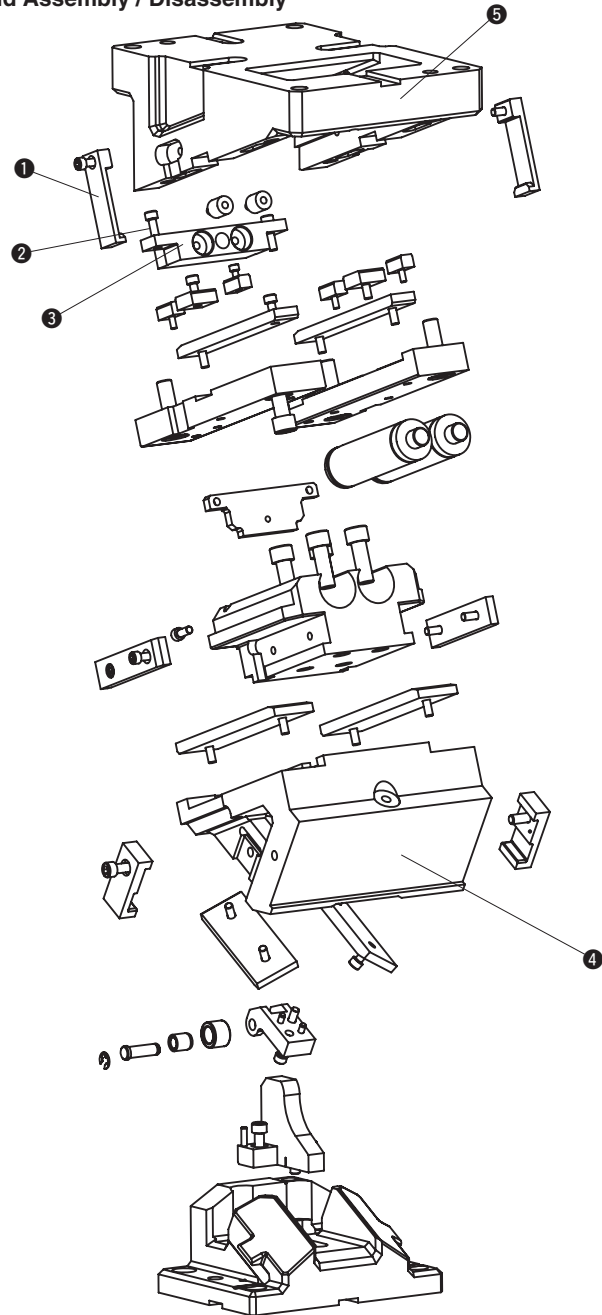


■ UCMSV165/200/250/300/400

Structure and Assembly / Disassembly



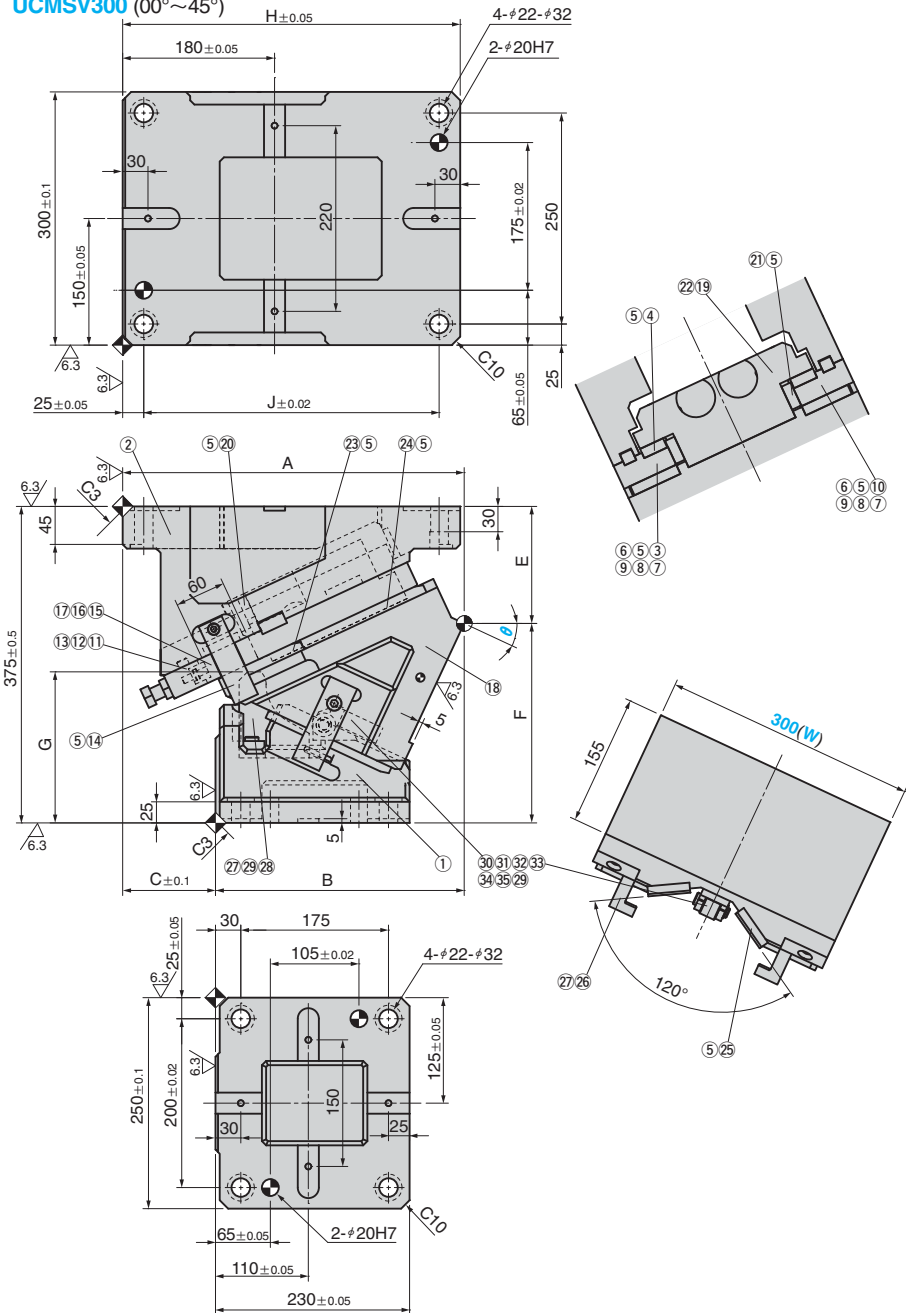
• Disassembly method of UCMSV 165 / 200 / 250 / 300 / 400

- 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.

UCMSV300 (00°~45°)



θ	Travel	A	B	C	E	F	G	H	J
00	38.6	395.00	232.00	163	98.00	277.00	128		
05	42.6	387.15	232.15	155	104.19	270.81	134		
10	46.7	394.13	249.13	145	111.86	263.14	144	390	340
15	50.9	395.82	260.82	135	121.01	253.99	154		
20	55.3	397.08	277.08	120	131.59	243.41	164		
25	60	404.71	294.71	110	138.65	236.35	179		
30	65.1	408.22	323.22	85	146.89	228.11	197		
35	70.8	404.52	334.52	70	159.17	215.83	211	400	350
40	77.1	400.46	345.46	55	167.30	207.70	230		
45	84.5	394.84	354.84	40	179.24	195.76	248		

Working Force kN	Catalog No.	(W)	θ	Spring Type PS
364	UCMSV	300	00	
			05	
			10	GS
			15	GK
			20	GD
			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 300 - 25 - GK

Spring Specification (Qty 2)

Spring Type PS	Spring Force N			Gas Spring Catalog No.
	F _A	F _E	F _{AP}	
GS	10000	13180	12120	SPF.500.80 (SANKYO)
GK	9400	13400	12082	TU500-80-TD (Kaller)
		12300	11338	90.10..00500.080 (Dadco)

NOTE

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

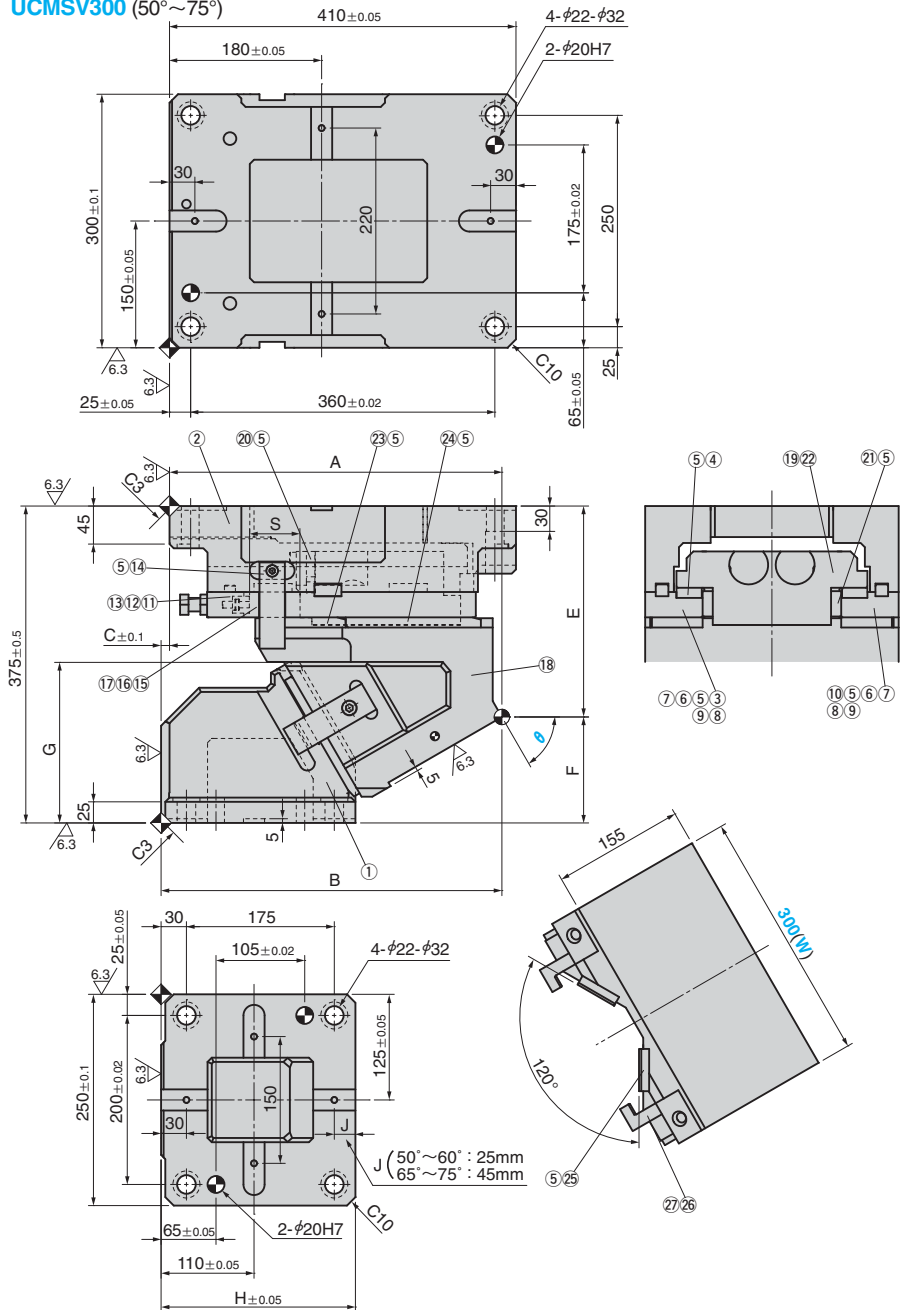
Option

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

- Parts list is shown in p.1545
- Detail of key is shown in p.1544
- Cam diagram is shown in p.1543
- NF : Gas Springs are not filled with nitrogen gas if delivery is by air freight.

Order **UCMSV300 - 25 - GK - NF**

UCMSV300 (50°~75°)



θ	Travel	A	B	C	E	F	G	S	H
50	93.3	393.35	376.35	17	196.04	178.96	195	60	230
55	104.6	393.35	393.35	0	222.75	152.25			
60	120.0	393.35	403.35	-10	249.61	125.39	190	40	250
65	94.6	387.48	415.48	-28	266.49	108.51			
70	73.1	378.65	423.65	-45	281.99	93.01			
75	96.6	364.72	429.72	-65	296.88	78.12			

Working Force kN	Catalog No.	(W)	θ	Spring Type PS
364	UCMSV	300	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 300 - 60 - GK

Spring Specification (Qty 2)

Spring Type PS	θ	Spring Force N			Gas Spring Catalog No.
		F _A	F _E	F _{AP}	
GS	50~60	10000	13180	12120	SPF.500.80 (SANKYO)
	65			11248	SPF.500.63 (SANKYO)
	70~75			11248	SPF.500.50 (SANKYO)
GK	50~60	9400	13400	12082	TU500-80-TD (Kaller)
	65		13200	11434	TU500-63.5-TD (Kaller)
	70~75			10904	TU500-50-TD (Kaller)
GD	50~60	9400	12300	11338	90.10.00500.080 (Dadco)
	65			10972	90.10.00500.063 (Dadco)
	70~75			10544	90.10.00500.050 (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 **UCMSV300 - 60 - GK - NF**



• Parts list is shown in p.1545
 • Detail of key is shown in p.1544
 • Cam diagram is shown in p.1543
 • NF : Gas Springs are not filled with nitrogen gas if delivery is by air freight.

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	Wear Plate	2	Bronze With Graphite(VSM)
⑤	Hexagon Socket Head Bolt	26	SCM435 M8×20
⑥	Key	4	SS400
⑦	Hexagon Socket Head Bolt	4	SCM435 M6×20
⑧	Key	2	SS400
⑨	Hexagon Socket Head Bolt	4	SCM435 M16×45
⑩	Base Plate L	1	S45C
⑪	Stopper Plate	1	SS400
⑫	Stopper	4	Urethane(PCU20)
⑬	Hexagon Socket Head Bolt	2	SCM435 M8×30
⑭	Safety Plate	2	S45C
⑮	Lock Block	1	SS400
⑯	Hexagonal Bolt	1	SCM435 M16×150
⑰	Hexagonal Nut	1	SCM435 M16
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	Hexagon Socket Head Bolt	4	SCM435 M20×50
㉓	Wear Plate	2	Bronze With Graphite(VSM)
㉔	Wear Plate	2	Bronze With Graphite(VSM)
㉕	Wear Plate	2	Bronze With Graphite(VSM)
㉖	Cam Positive Return Plate	2	S45C
㉗	Hexagon Socket Head Bolt	4	SCM435 M10×30
㉘	Roller Driver	1	S45C
㉙	Dowel Pin with Female Thread	4	SUJ2 $\phi 6-30$
㉚	Roller Bracket	1	SS400
㉛	Roller	1	S45C
㉜	Oilless Bush	1	Bronze with Graphite(SO#50SP2)
㉝	Roller Pin	1	S45C
㉞	E-Ring	1	
㉟	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	Wear Plate	2	Bronze With Graphite(VSM)
⑤	Hexagon Socket Head Bolt	26	SCM435 M8×20
⑥	Key	4	SS400
⑦	Hexagon Socket Head Bolt	4	SCM435 M6×20
⑧	Key	2	SS400
⑨	Hexagon Socket Head Bolt	4	SCM435 M16×45
⑩	Base Plate L	1	S45C
⑪	Stopper Plate	1	SS400
⑫	Stopper	4	Urethane(PCU20)
⑬	Hexagon Socket Head Bolt	2	SCM435 M8×30
⑭	Safety Plate	2	S45C
⑮	Lock Block	1	SS400
⑯	Hexagonal Bolt	1	SCM435 M16×150
⑰	Hexagonal Nut	1	SCM435 M16
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	Hexagon Socket Head Bolt	4	SCM435 M20×50
㉓	Wear Plate	2	Bronze With Graphite(VSM)
㉔	Wear Plate	2	Bronze With Graphite(VSM)
㉕	Wear Plate	2	Bronze With Graphite(VSM)
㉖	Cam Positive Return Plate	2	S45C
㉗	Hexagon Socket Head Bolt	2	SCM435 M10×30