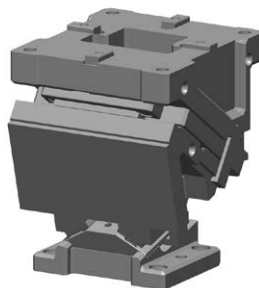


UCMSNR [Overview]

NAAMS Type

Product Information

- Mount face widths 70, 80, 165, 200, 300, and 400.
- Working angles from 0° to 60° in 5° increments.
- Coil or Gas Spring can be selected for pressure source.
- Gas Spring is removable from the rear without disassembling.
- 65°, 70°, 75° upon request.



Mount Face		Working Angle	Travel	Working Force kN (tonf)
W	H			
		00	19.3	
		05	21.3	
		10	23.3	
		15	25.4	
		20	27.6	
		25	30.0	
70	75	30	32.6	98.1 (10.0)
		35	35.4	
		40	38.6	
		45	42.3	
		50	46.7	
		55	43.6	
		60	50.0	
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
		25	50.0	
80	75	30	54.3	166.7 (17.0)
		35	59.0	
		40	64.3	
		45	70.4	
		50	77.8	
		55	78.5	
		60	80.0	

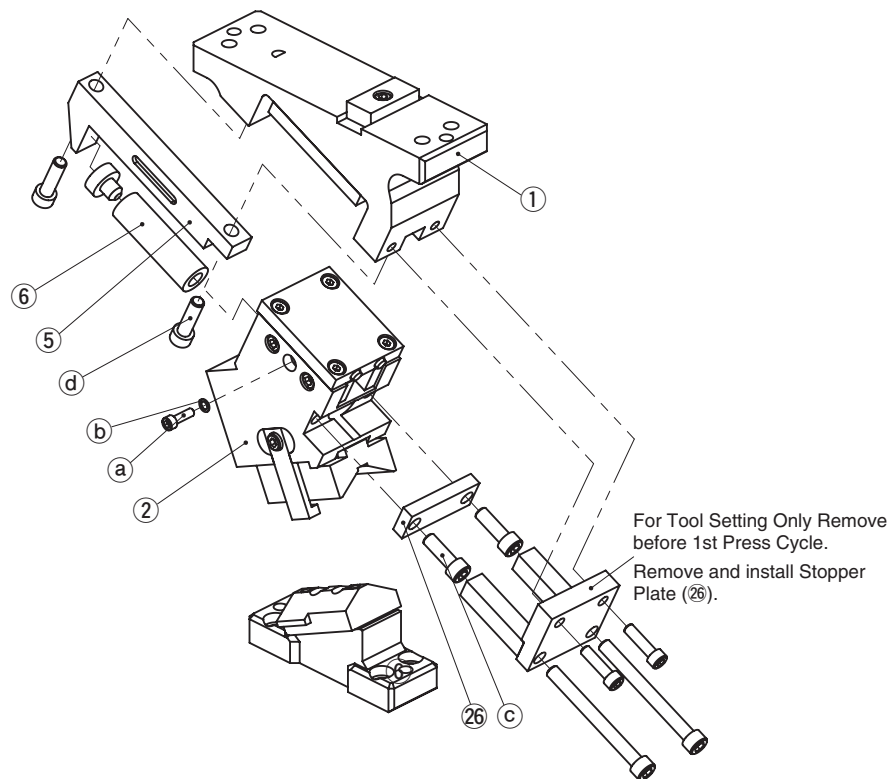
Mount Face		Working Angle	Travel	Working Force kN (tonf)
W	H			
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
	120	25	50.0	
165		30	54.3	294.2 (30.0)
		35	59.0	
		40	64.3	
		45	70.4	
		50	77.8	
	125	55	87.2	
		60	100.0	
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
		25	50.0	
200	120	30	54.3	353.0 (36.0)
		35	59.0	
		40	64.3	
		45	70.4	
		50	77.8	
		55	87.2	
		60	100.0	
		00	38.6	
		05	42.6	
		10	46.7	
		15	50.9	
		20	55.3	
		25	60.0	
300 400	160	30	65.1	451.1 (46.0)
		35	70.8	
		40	77.1	
		45	84.5	
		50	79.3	
		55	88.9	
		60	102.0	

UCMSNR [Overview]

NAAMS Type

Product Information

■UCMSNR70 Assembly Instructions



● Disassembly

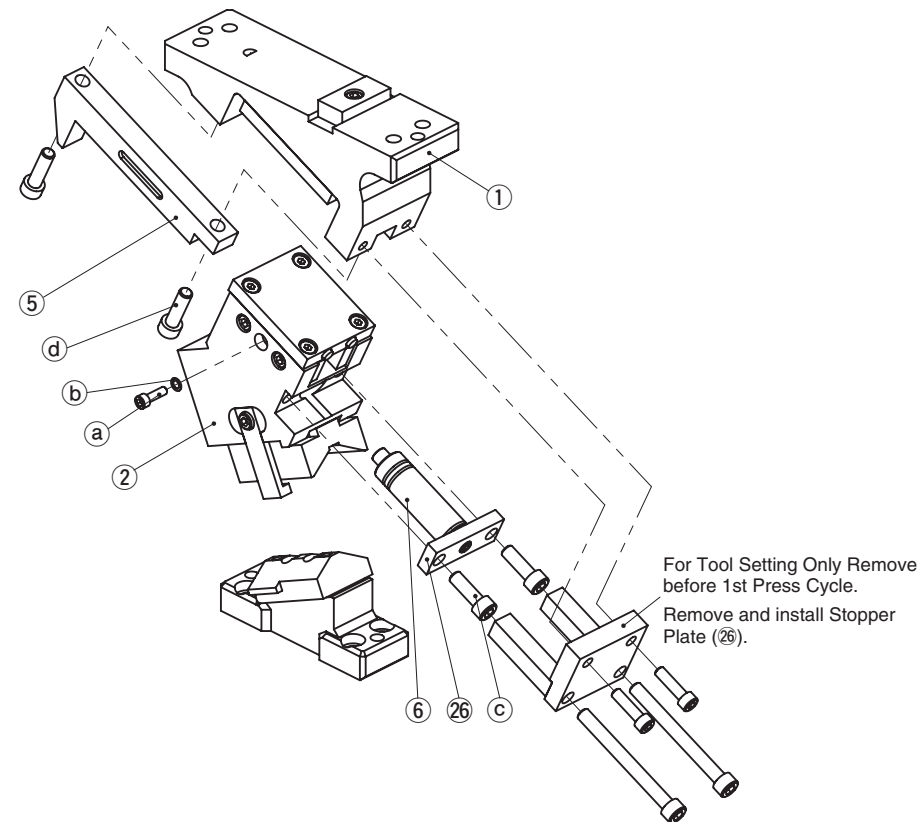
- 1) Remove Hexagon Socket Head Bolts (a) and Coned Disc Spring (b).
- 2) Remove Hexagon Socket Head Bolts (c), and remove Stopper Plate (26), and, Pull out Coil Spring (6).
- 3) Remove Hexagon Socket Head Bolts (d), and remove Guide Bar (5), and Cam Slider (2) from Cam Holder (1).
- 4) Pull up to remove Guide Bar from Cam Slider.

● Assembly

Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.

■UCMSNR70 Assembly Instructions (Gas Spring)



● Disassembly

- 1) Remove Hexagon Socket Head Bolts (a) and Coned Disc Spring (b).
- 2) Remove Hexagon Socket Head Bolts (c), and remove Stopper Plate (26), and, Pull out Coil Spring (6).
- 3) Remove Hexagon Socket Head Bolts (d), and remove Guide Bar (5), and Cam Slider (2) from Cam Holder (1).
- 4) Pull up to remove Guide Bar from Cam Slider.

● Assembly

Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.



Gas Spring

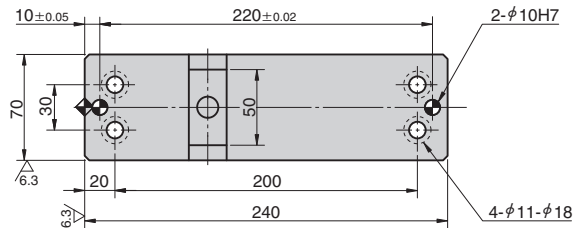
Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

UCMSNR

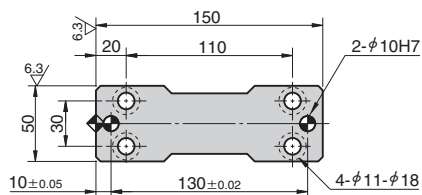
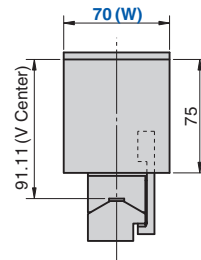
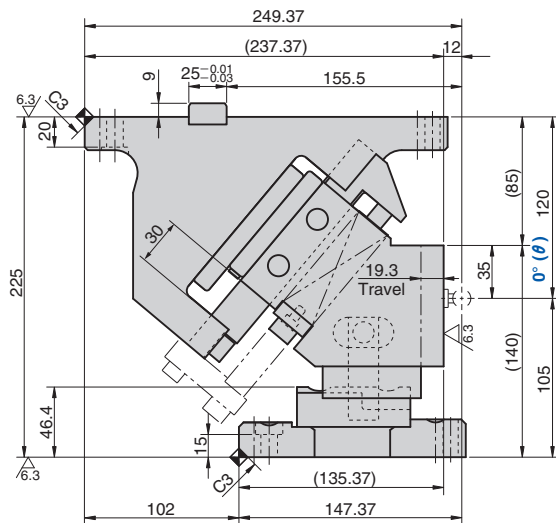
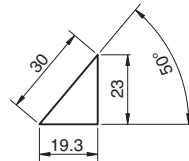
NAAMS Type

Aerial Cam Unit

UCMSNR70-00



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
19.3	98.1 (10.0)	—	2350.0 (239.6)	3150 (321.4)	16.1	UCMSNR	70	00	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	944 (96.3)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	00	—	GK		
UCMSNR	70	—	00	—	NGK		
UCMSNR	70	—	00	—	NISO		
UCMSNR	70	—	00	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

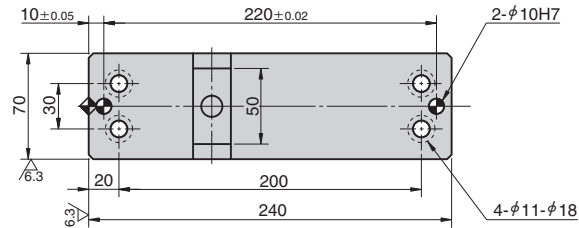
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

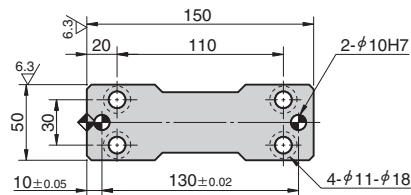
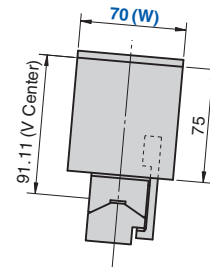
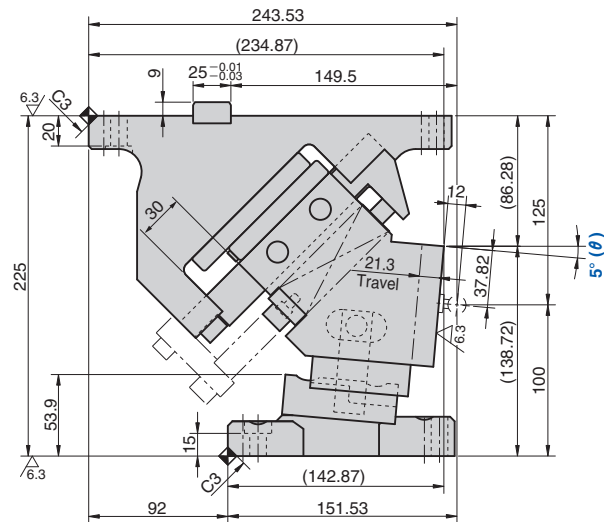
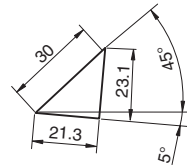
NAAMS Type

Aerial Cam Unit

UCMSNR70-05



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
21.3	98.1 (10.0)	—	2350.0 (239.6)	3145 (320.9)	15.4	UCMSNR	70	05	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	938 (95.8)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	05	—	GK		
UCMSNR	70	—	05	—	NGK		
UCMSNR	70	—	05	—	NISO		
UCMSNR	70	—	05	—	GK	—	NF



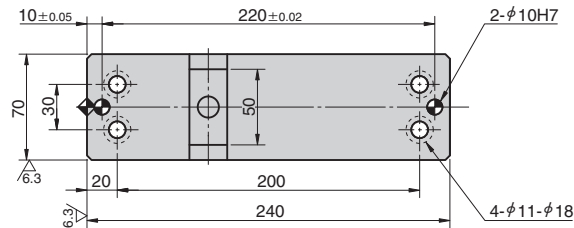
Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

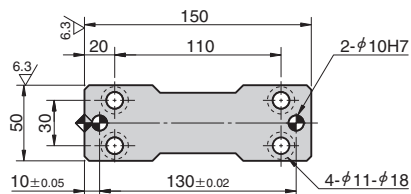
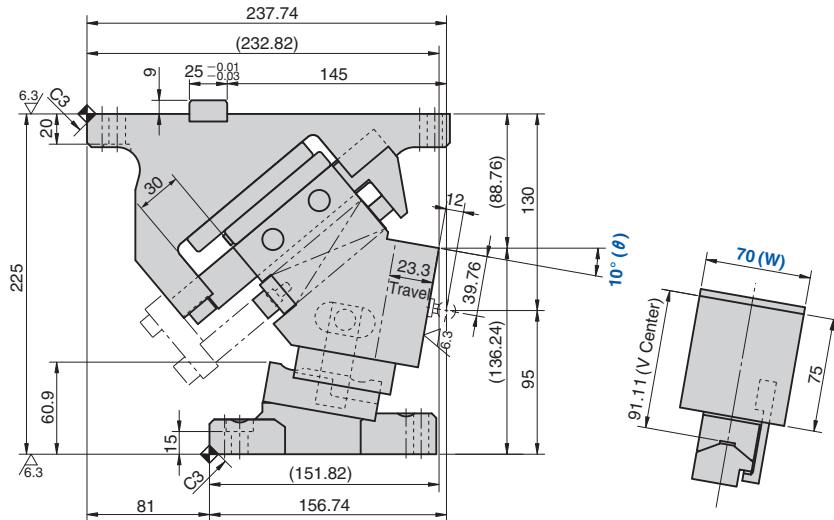
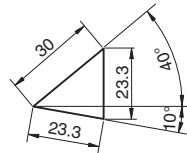
No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR70-10



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
23.3	98.1 (10.0)	—	2350.0 (239.6)	3139 (320.3)	14.8	UCMSNR	70	10	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	933 (95.2)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	10	—	GK		
UCMSNR	70	—	10	—	NGK		
UCMSNR	70	—	10	—	NISO		
UCMSNR	70	—	10	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

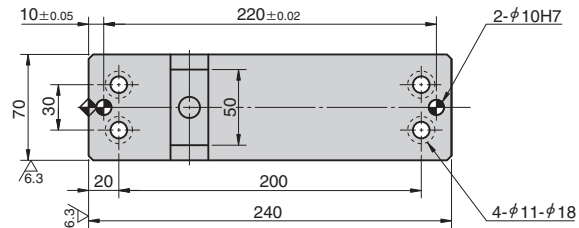
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

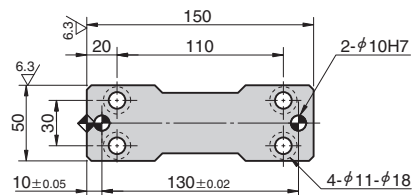
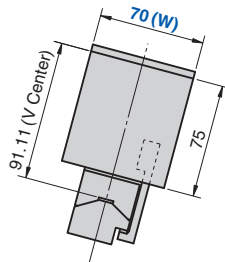
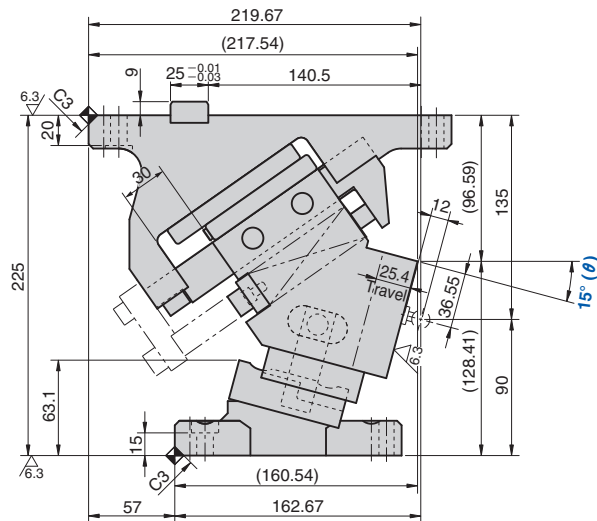
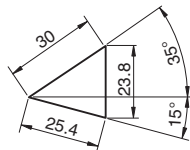
NAAMS Type

Aerial Cam Unit

UCMSNR70-15



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
25.4	98.1 (10.0)	—	2350.0 (239.6)	3133 (319.7)	14.1	UCMSNR	70	15	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	927 (94.6)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	15	—	GK		
UCMSNR	70	—	15	—	NGK		
UCMSNR	70	—	15	—	NISO		
UCMSNR	70	—	15	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

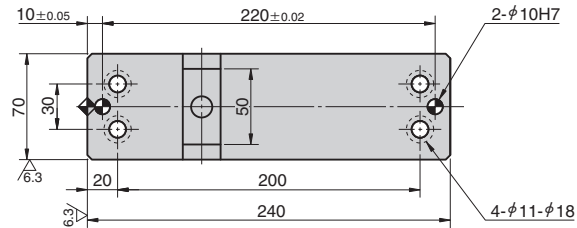
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

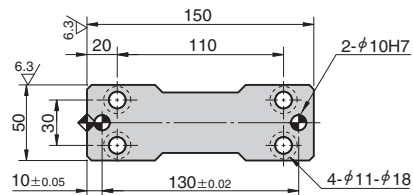
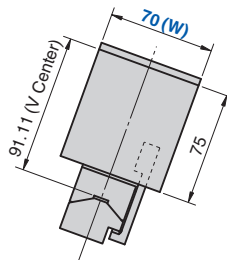
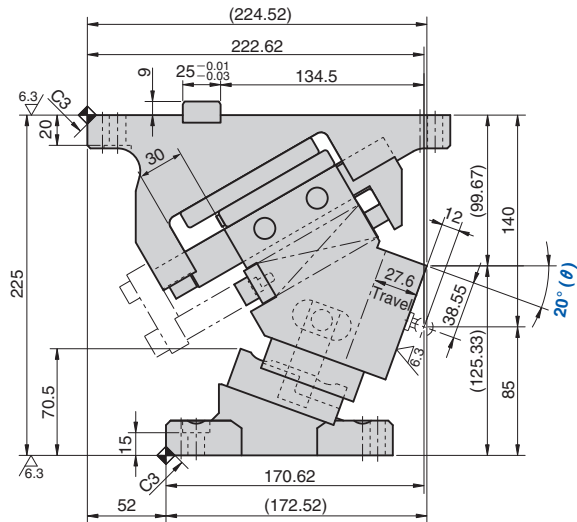
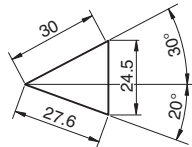
NAAMS Type

Aerial Cam Unit

UCMSNR70-20



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
27.6	98.1 (10.0)	—	2350.0 (239.6)	3127 (319.1)	14.1	UCMSNR	70	20	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	921 (94.0)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	20	—	GK		
UCMSNR	70	—	20	—	NGK		
UCMSNR	70	—	20	—	NISO		
UCMSNR	70	—	20	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

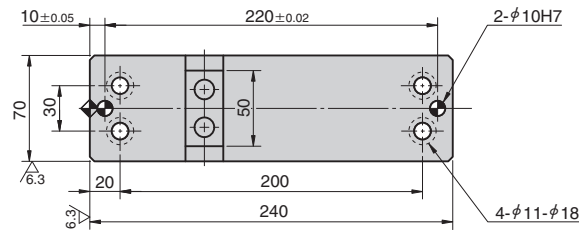
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

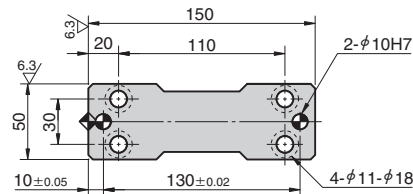
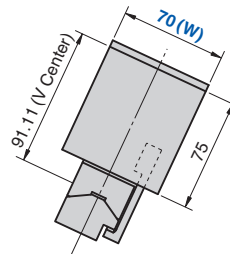
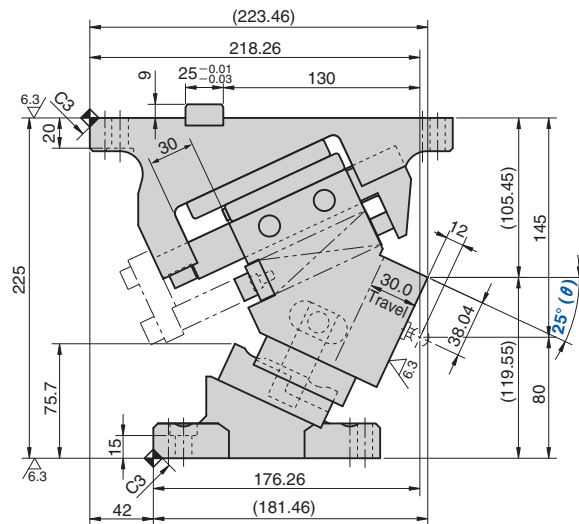
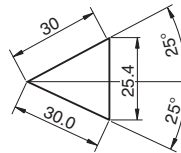
NAAMS Type

Aerial Cam Unit

UCMSNR70-25



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
30.0	98.1 (10.0)	—	2350.0 (239.6)	3121 (318.5)	14.0	UCMSNR	70	25	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	914 (93.3)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	25	—	GK		
UCMSNR	70	—	25	—	NGK		
UCMSNR	70	—	25	—	NISO		
UCMSNR	70	—	25	—	GK	—	NF



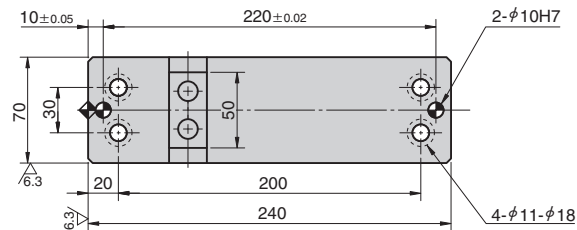
Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

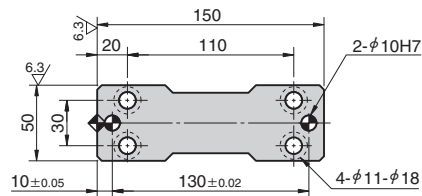
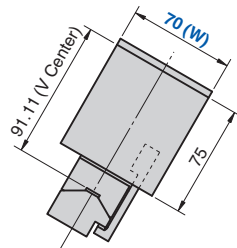
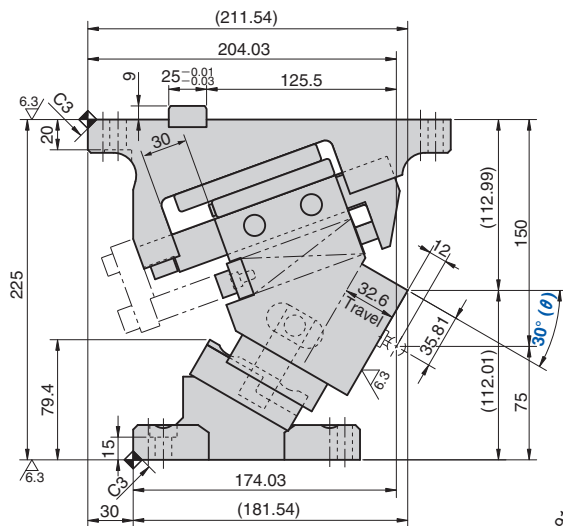
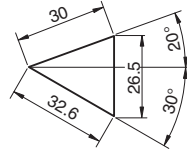
No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR70-30



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
32.6	98.1 (10.0)	—	2350.0 (239.6)	3114 (317.8)	13.8	UCMSNR	70	30	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	908 (92.6)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	30	—	GK		
UCMSNR	70	—	30	—	NGK		
UCMSNR	70	—	30	—	NISO		
UCMSNR	70	—	30	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

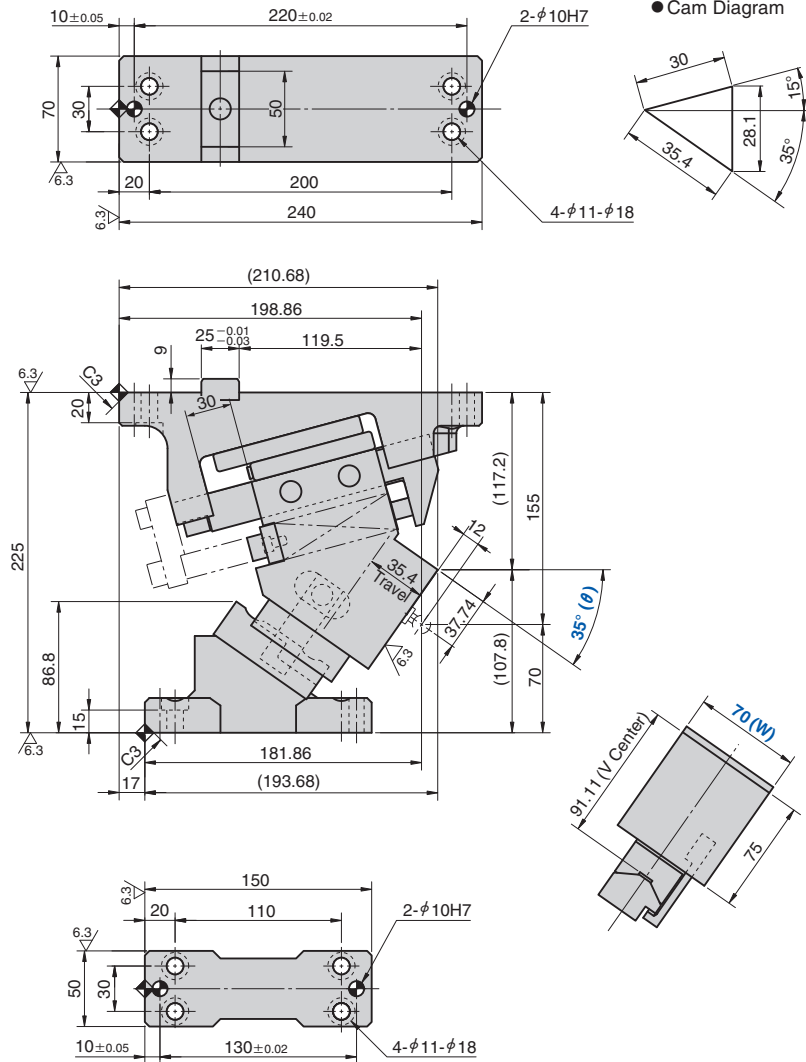
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR70-35



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
35.4	98.1 (10.0)	—	2350.0 (239.6)	3108 (317.1)	13.7	UCMSNR	70	35	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	901 (92.0)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	35	—	GK		
UCMSNR	70	—	35	—	NGK		
UCMSNR	70	—	35	—	NISO		
UCMSNR	70	—	35	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

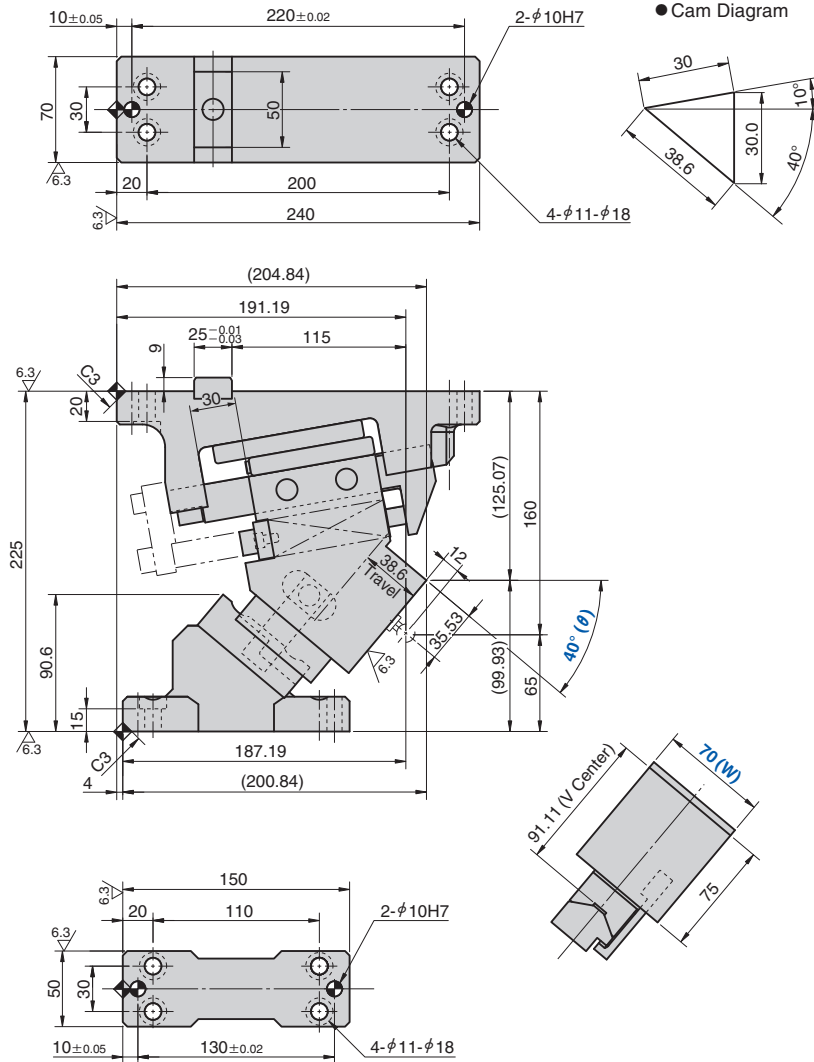
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR70-40



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
38.6	98.1 (10.0)	—	2350.0 (239.6)	3101 (316.4)	13.8	UCMSNR	70	40	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	894 (91.3)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	40	—	GK		
UCMSNR	70	—	40	—	NGK		
UCMSNR	70	—	40	—	NISO		
UCMSNR	70	—	40	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

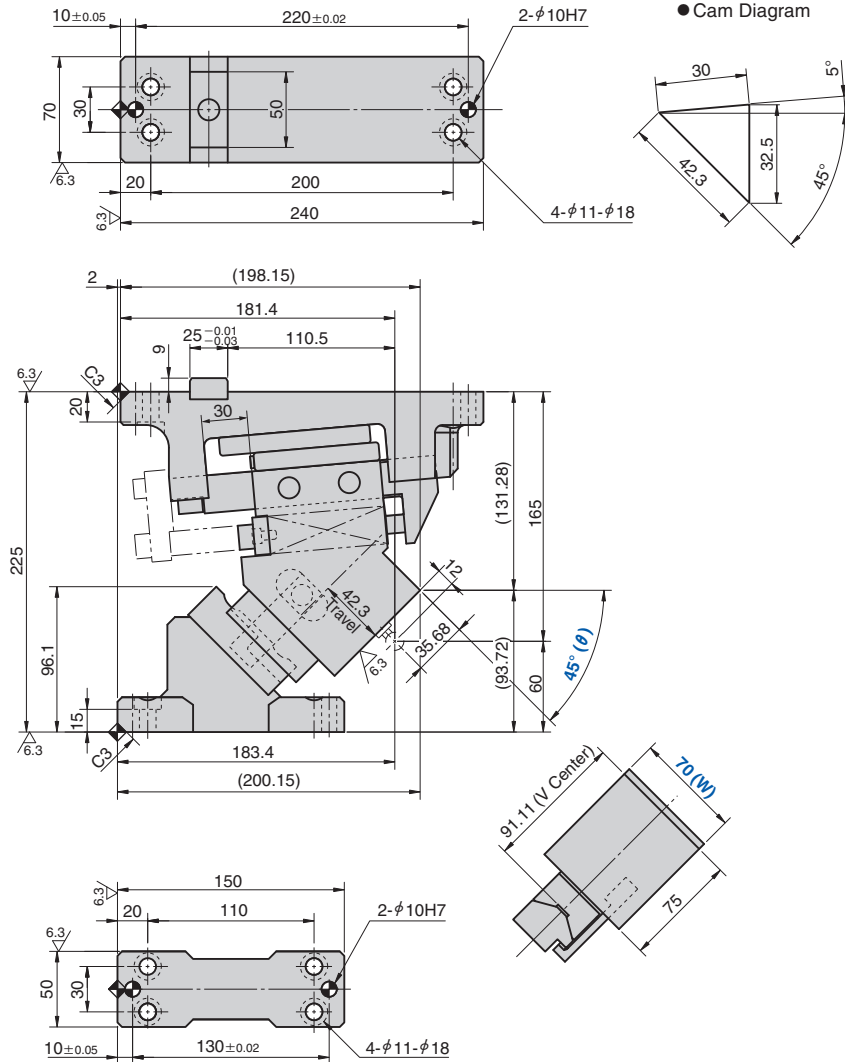
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR70-45



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
42.3	98.1 (10.0)	—	2350.0 (239.6)	3094 (315.7)	13.8	UCMSNR	70	45	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	888 (90.6)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	45	—	GK		
UCMSNR	70	—	45	—	NGK		
UCMSNR	70	—	45	—	NISO		
UCMSNR	70	—	45	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

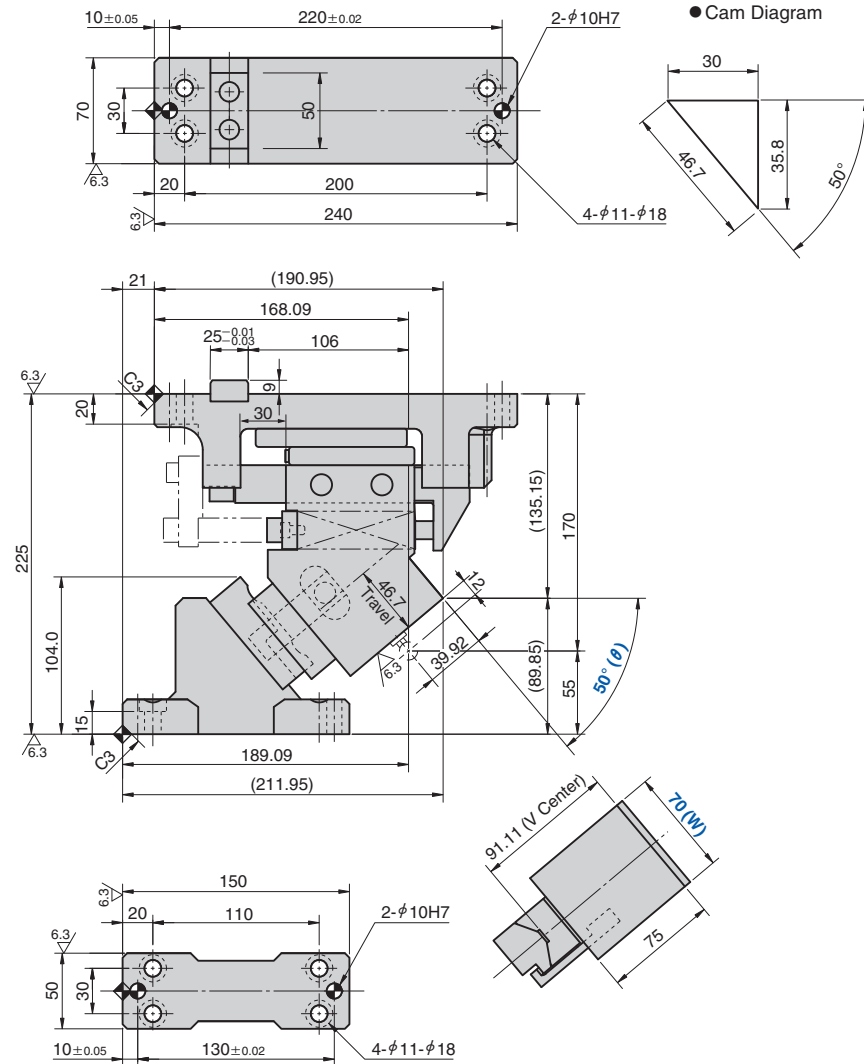
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR70-50



● Cam Diagram

Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
46.7	98.1 (10.0)	—	2350.0 (239.6)	3088 (315.1)	13.9	UCMSNR	70	50	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	881 (89.9)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	50	—	GK		
UCMSNR	70	—	50	—	NGK		
UCMSNR	70	—	50	—	NISO		
UCMSNR	70	—	50	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

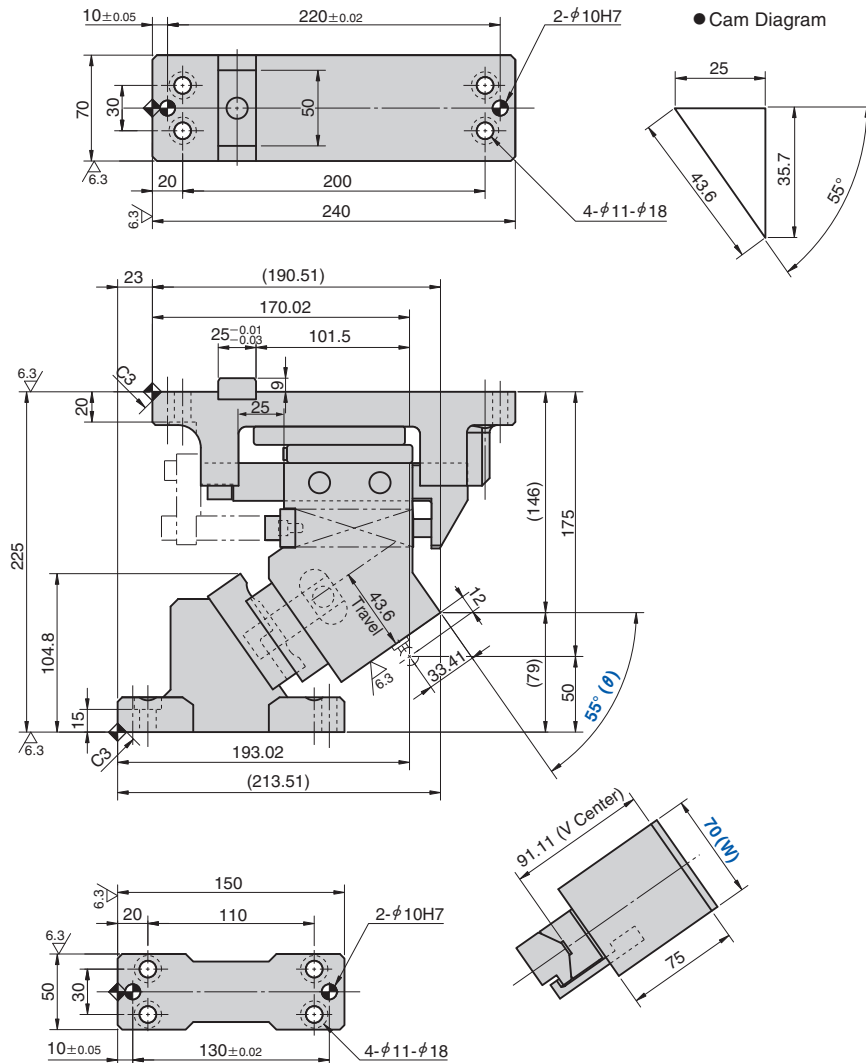
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR70-55



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
43.6	98.1 (10.0)	—	2350.0 (239.6)	3359 (342.7)	14.1	UCMSNR	70	55	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	818 (83.4)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	55	—	GK		
UCMSNR	70	—	55	—	NGK		
UCMSNR	70	—	55	—	NISO		
UCMSNR	70	—	55	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

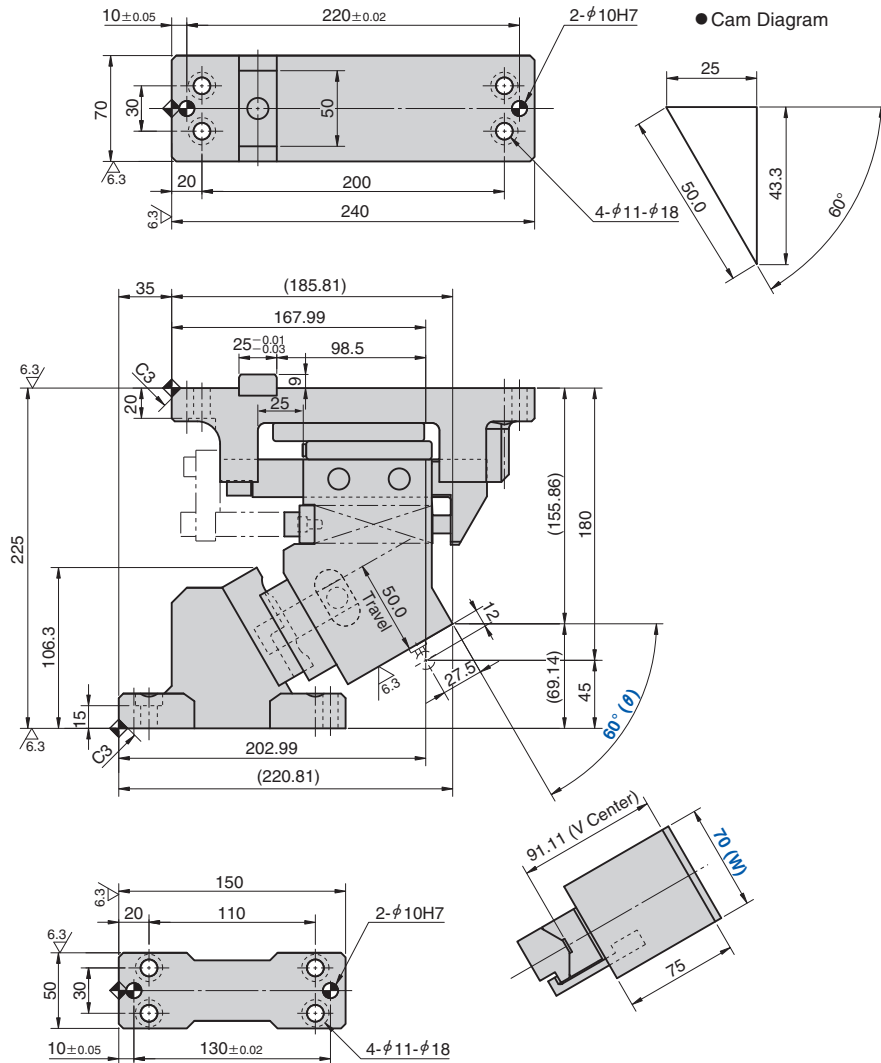
Life expectancy of Coil Spring is approximately 1,000,000 strokes.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR70-60



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight kg	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load						
50.0	98.1 (10.0)	—	2350.0 (239.6)	3713 (378.9)	14.5	UCMSNR	70	60	GK NGK
			1333.8 (136.0)						GD NGD
			2280.0 (232.5)						GS NGS
		88.2 (9.0)	676.2 (69.0)	904 (92.2)					ISO NISO

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GS: Gas Spring (SDT)
NGK/NGD/NGS: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	70	—	60	—	GK		
UCMSNR	70	—	60	—	NGK		
UCMSNR	70	—	60	—	NISO		
UCMSNR	70	—	60	—	GK	—	NF



Option Code	Specification
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
6	GK	M2-150-38.1	1	Gas Spring (KALLER)
	GD	C180-38.BU	1	Gas Spring (DADCO)
	GS	SFND150.38	1	Gas Spring (SDT)
	ISO	TJL25-115	1	Coil Spring [Spring constant = 19.6 N/mm]

Life expectancy of Coil Spring is approximately 1,000,000 strokes.



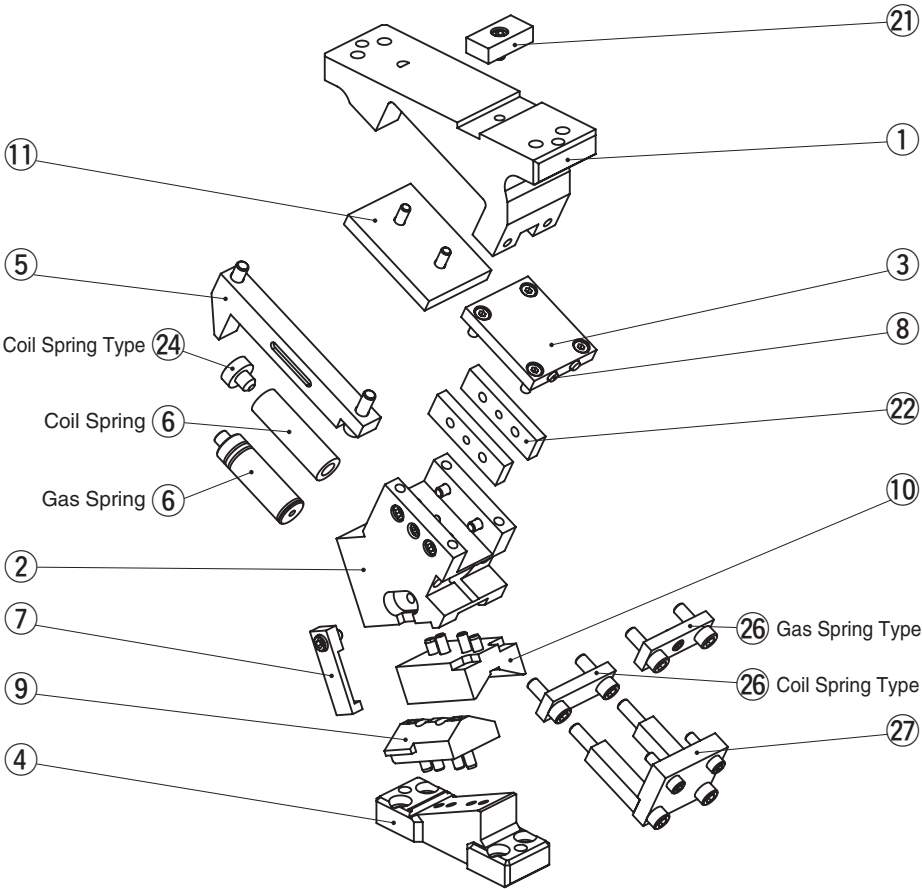
Refer to page 725 for Table of Components.

UCMSNR [Table of Components]

NAAMS Type

Aerial Cam Unit

UCMSNR70



No.	Description	Qty		Material and Remark
		Coil Spring	Gas Spring	
1	Cam Holder	1		Cast Iron
2	Cam Slider	1		Cast Iron
3	Wear Plate	1		Bronze with Graphite
4	Cam Driver	1		Cast Iron
5	Guide Bar	1		Steel
6	Spring	1		Refer to the Spring Specification.
7	Positive Return Follower	1		Steel
8	Stopper	2		—
9	Cam Slide Guide	1		Bronze with Graphite
10	Cam Slide Guide	1		Steel
11	Slide Plate	1		Steel
21	Key A	1		Steel
22	Wear Plate	2		Bronze with Graphite
24	Spring Guide Pin	1	—	Steel ISO specification only
26	Spring Stopper Plate	1		Steel
27	Slide Lock Plate	1		Steel

Bolts, nuts, dowels, and washers for assembly are not indicated.