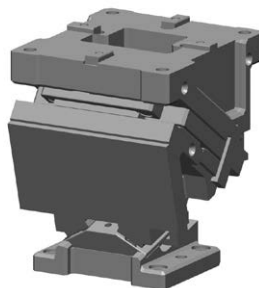


UCMSNR [Overview]

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	

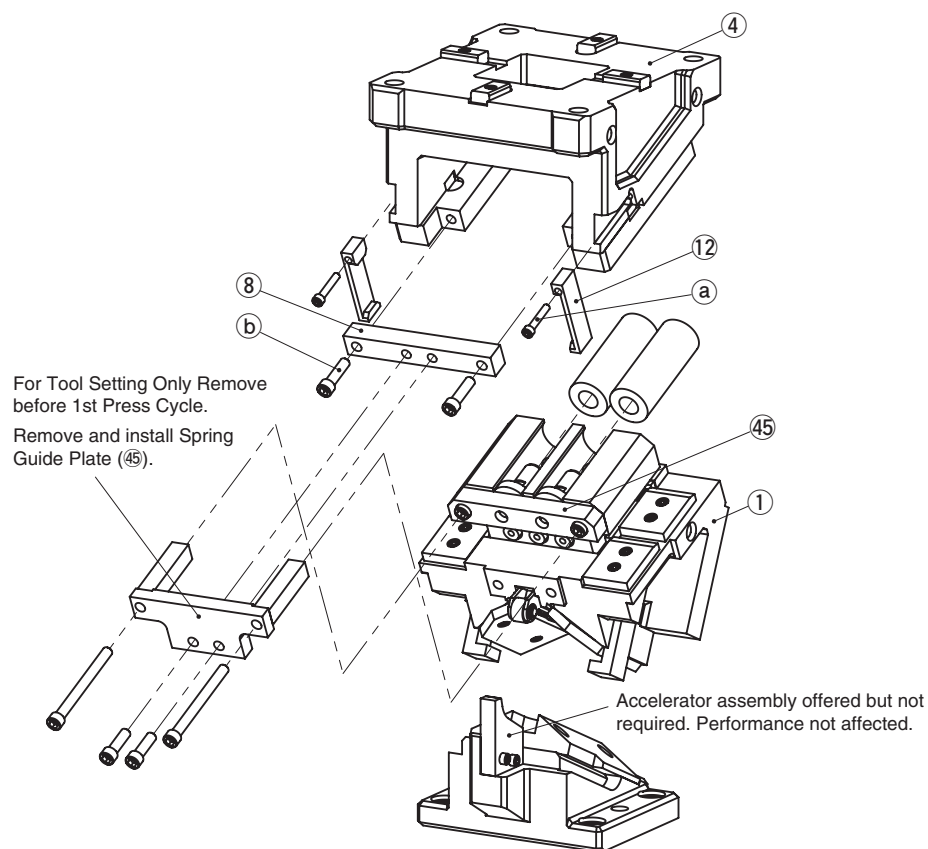
Mount Face		Working Angle	Travel	Working Force kN (tonf)
W	H			
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
	120	25	50.0	
165		30	54.3	294.2 (30.0)
		35	59.0	
		40	64.3	
		45	70.4	
		50	77.8	
	125	55	87.2	
		60	100.0	
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
		25	50.0	
200	120	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

■ UCMSNR300/400 Assembly Instructions



● Disassembly

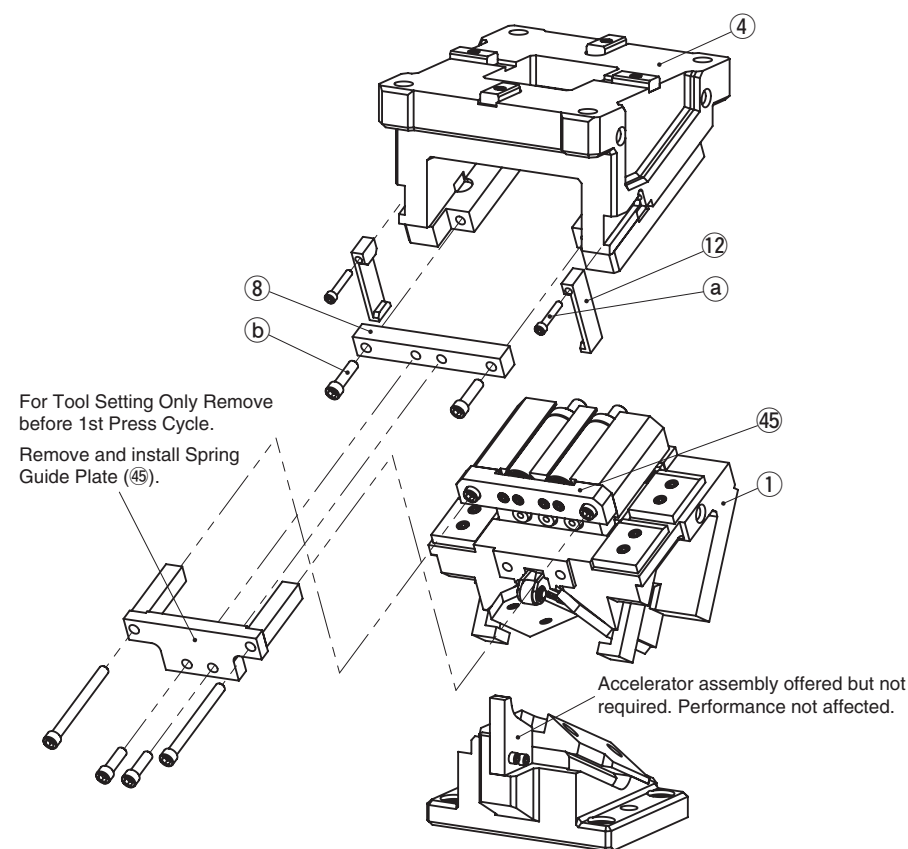
- 1) Remove Hexagon Socket Head Bolts (a), and remove Safety Plate (12).
- 2) Remove Hexagon Socket Head Bolts (b), and remove Stopper Plate (8).
- 3) Pull out and remove Cam Slider (1) from Cam Holder (4) to the rear.

● 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.

■ UCMSNR300/400 Assembly Instructions (Gas Spring)



● Disassembly

- 1) Remove Hexagon Socket Head Bolts (a), and remove Safety Plate (12).
- 2) Remove Hexagon Socket Head Bolts (b), and remove Stopper Plate (8).
- 3) Pull out and remove Cam Slider (1) from Cam Holder (4) to the rear.

● 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

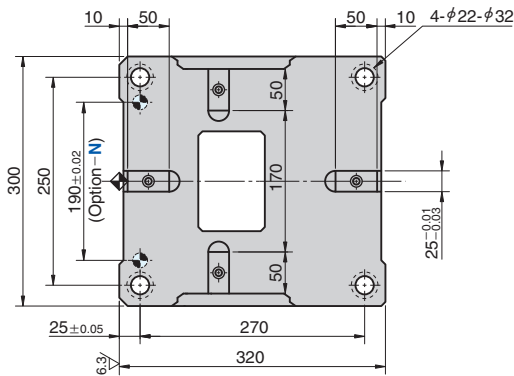
Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

UCMSNR

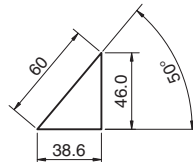
NAAMS Type

Aerial Cam Unit

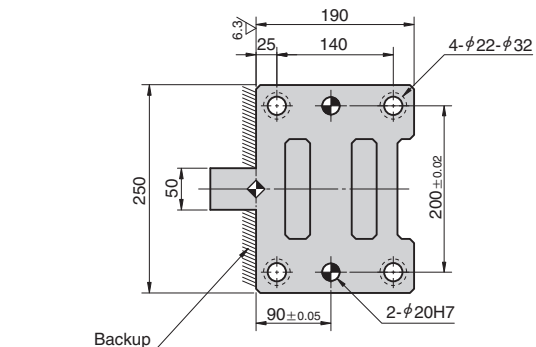
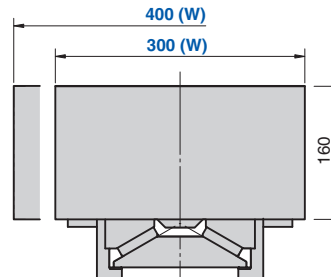
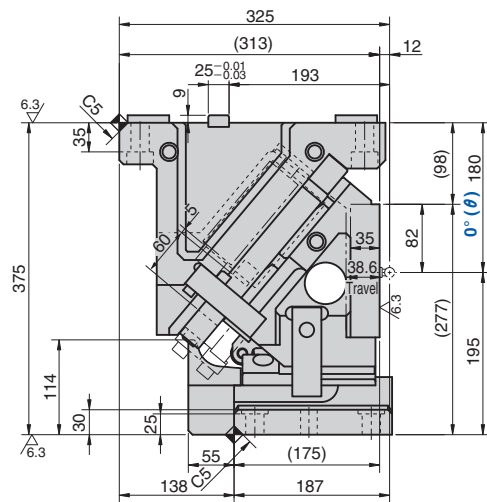
UCMSNR300-00/UCMSNR400-00



● Cam Diagram



The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



Refer to page 837 for Table of Components.

Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
38.6	451.1 (46.0)	—	10668.0 (1087.8)	14544 (1484.1)	153.2 (54.8)	160.2 (59.2)	UCMSNR	300 400	00	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12610 (1287.0)						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	400	—	00	—	GK		
UCMSNR	300	—	00	—	NGK		
UCMSNR	300	—	00	—	NISO		
UCMSNR	300	—	00	—	GK	— N	
UCMSNR	300	—	00	—	GK	— NF	



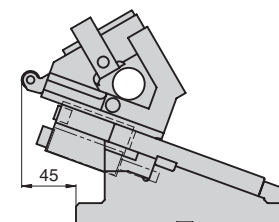
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



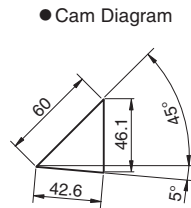
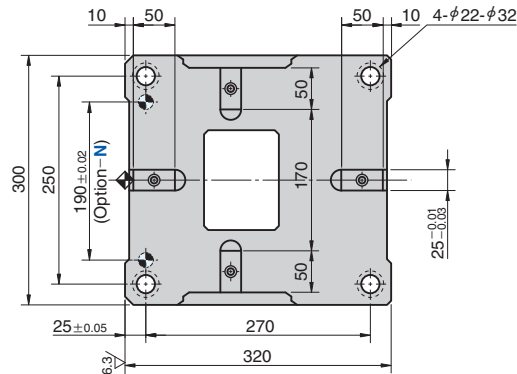
Standard Cam Units

UCMSNR
300/400

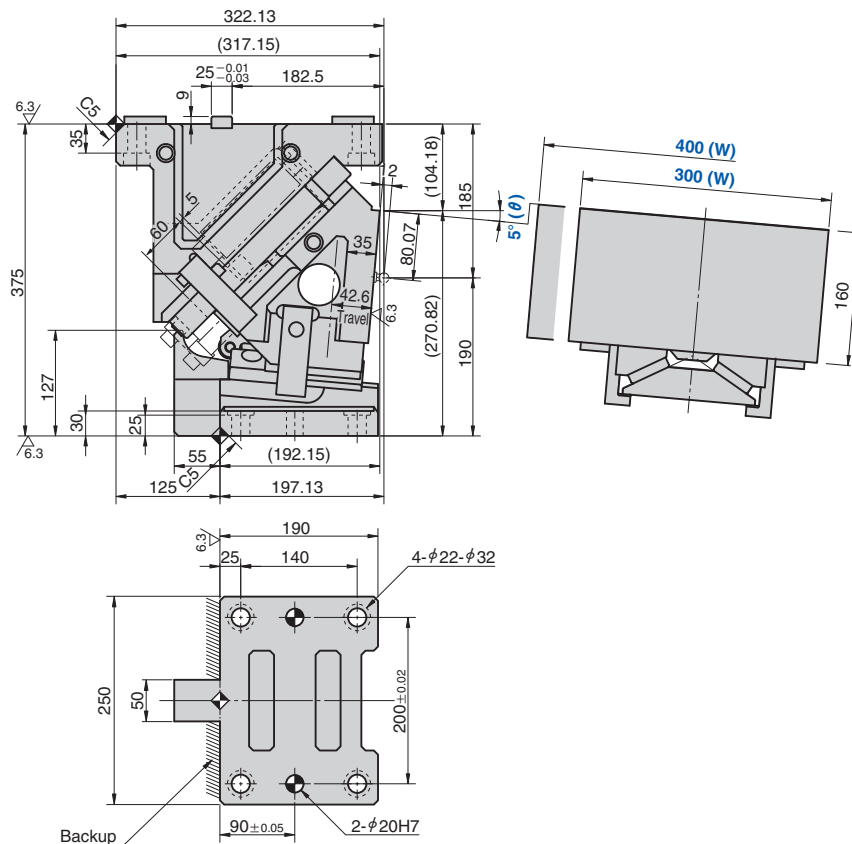
NAAMS Type

Aerial Cam Unit

UCMSNR300-05/UCMSNR400-05



The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS		
		Initial Load	Final Load		W = 300	W = 400						
			10668.0 (1087.8)							GK NGK		
42.6	451.1 (46.0)	—	10668.0 (1087.8)	14495 (1479.1)	152.5 (54.8)	159.5 (59.2)	UCMSNR	300 400	05	GD NGD		
			13800.0 (1407.2)							GS NGS		
		1314.1 (134.0)	9198.0 (937.9)	12570 (1282.0)								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	Options
UCMSNR	400	05	GK	
UCMSNR	300	05	NGK	
UCMSNR	300	05	NISO	
UCMSNR	300	05	GK	- N
UCMSNR	300	05	GK	- NF



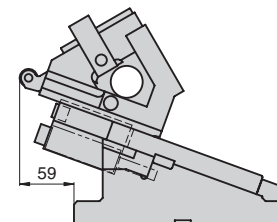
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

■ Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

■ Rear Removal Space

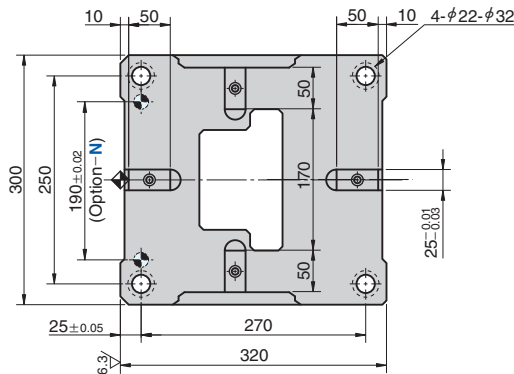


UCMSNR

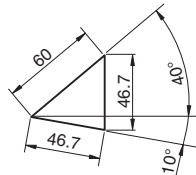
NAAMS Type

Aerial Cam Unit

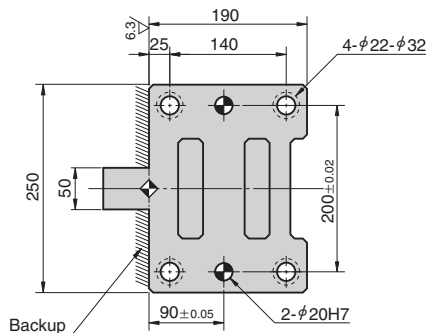
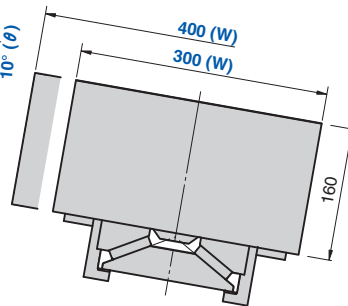
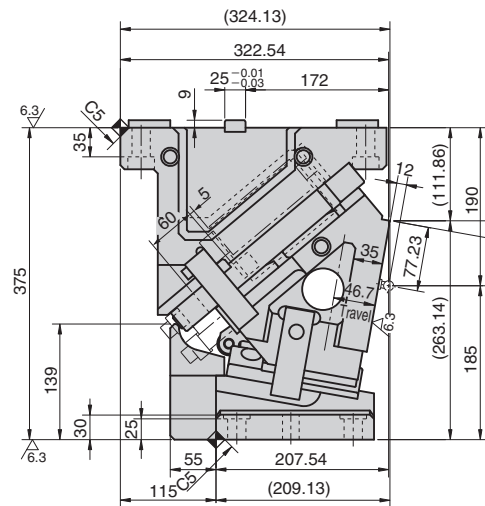
UCMSNR300-10/UCMSNR400-10



● Cam Diagram



The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



Refer to page 837 for Table of Components.

Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
46.7	451.1 (46.0)	—	10668.0 (1087.8)	14443 (1473.8)	151.4 (54.8)	158.4 (59.2)	UCMSNR	300 400	10	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12510 (1277.0)						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	400	—	10	—	GK		
UCMSNR	300	—	10	—	NGK		
UCMSNR	300	—	10	—	NISO		
UCMSNR	300	—	10	—	GK	— N	
UCMSNR	300	—	10	—	GK	— NF	



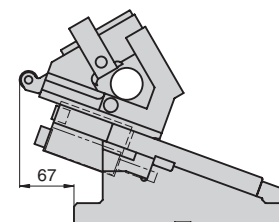
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

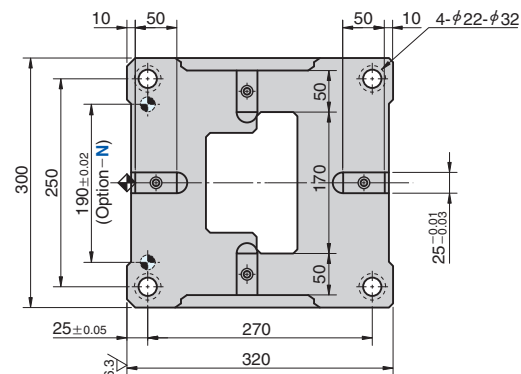
No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

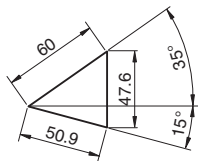
Rear Removal Space



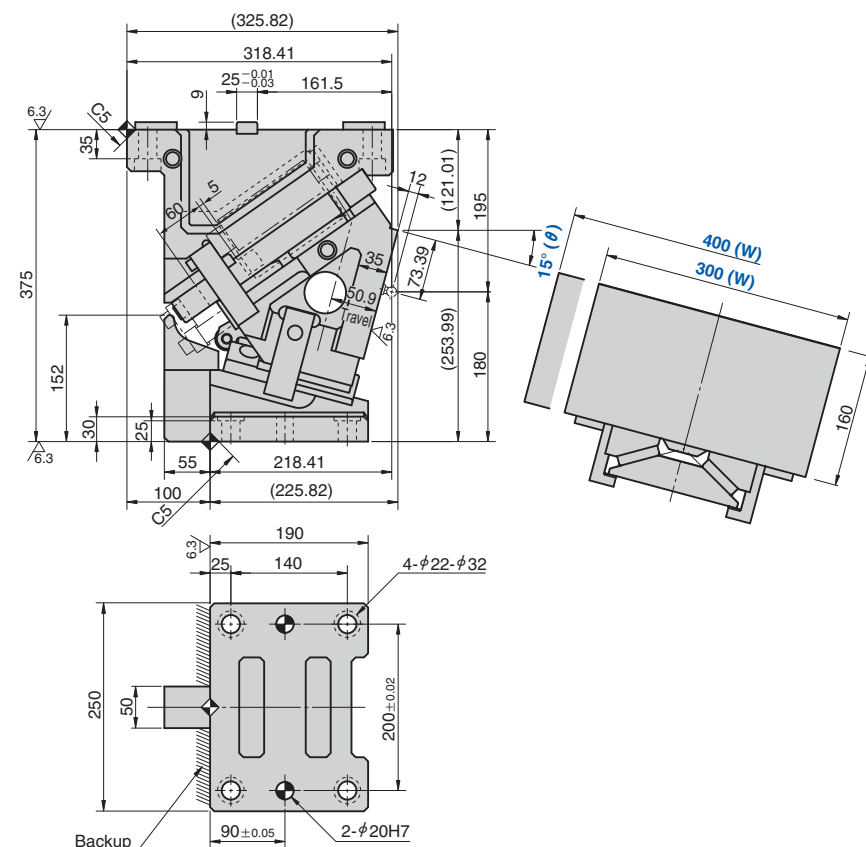
UCMSNR300-15/UCMSNR400-15



● Cam Diagram



The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
50.9	451.1 (46.0)	—	10668.0 (1087.8)	14389 (1468.2)	154.1 (54.8)	161.1 (59.2)	UCMSNR	300 400	15	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12460 (1271.0)						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.



Order

Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	400	—	15	—	GK		
UCMSNR	300	—	15	—	NGK		
UCMSNR	300	—	15	—	NISO		
UCMSNR	300	—	15	—	GK	— N	
UCMSNR	300	—	15	—	GK	— NF	



Option

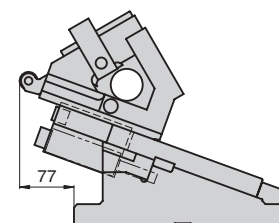
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space

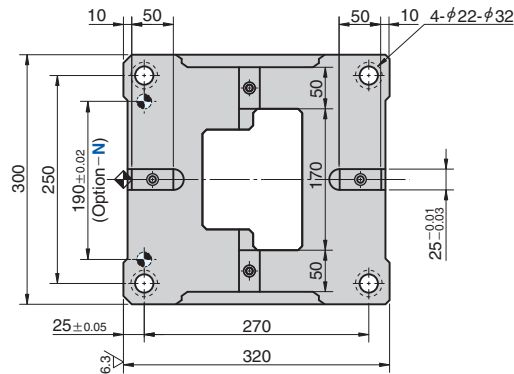


UCMSNR

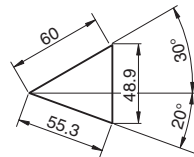
NAAMS Type

Aerial Cam Unit

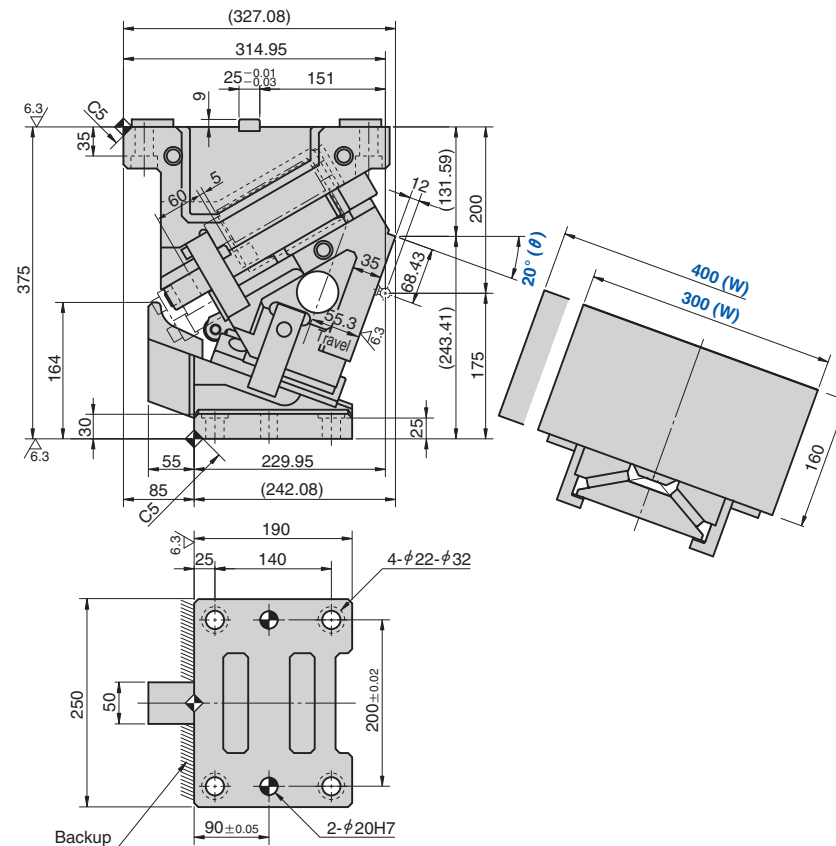
UCMSNR300-20/UCMSNR400-20



● Cam Diagram



The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
55.3	451.1 (46.0)	—	10668.0 (1087.8)	14332 (1462.4)	148.2 (54.8)	155.2 (59.2)	UCMSNR	300 400	20	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12400 (1265.0)						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	400	—	20	—	GK		
UCMSNR	300	—	20	—	NGK		
UCMSNR	300	—	20	—	NISO		
UCMSNR	300	—	20	—	GK	— N	
UCMSNR	300	—	20	—	GK	— NF	



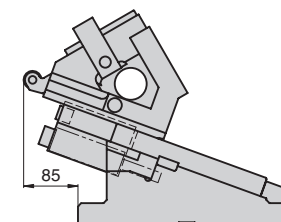
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



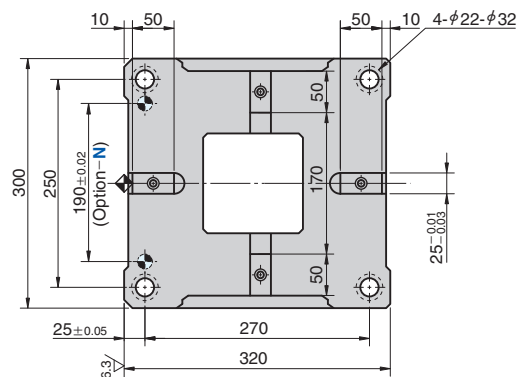
Refer to page 837 for Table of Components.

UCMSNR

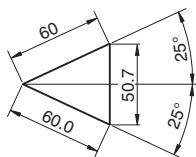
NAAMS Type

Aerial Cam Unit

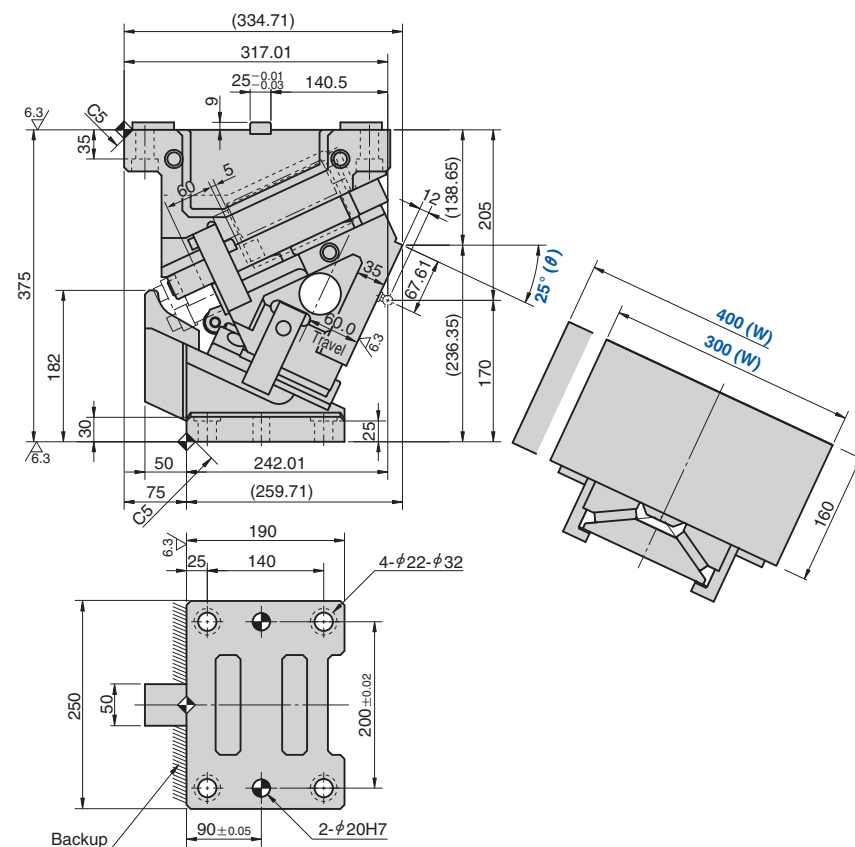
UCMSNR300-25/UCMSNR400-25



● Cam Diagram



The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
60.0	451.1 (46.0)	—	10668.0 (1087.8)	14273 (1456.4)	150.2 (54.8)	157.3 (59.2)	UCMSNR	300 400	25	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12340 (1259.0)						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.



Order

Catalog No.	W	—	θ	—	PS	—	Option
UCMSNR	400	—	25	—	GK		
UCMSNR	300	—	25	—	NGK		
UCMSNR	300	—	25	—	NISO		
UCMSNR	300	—	25	—	GK	— N	
UCMSNR	300	—	25	—	GK	— NF	



Option

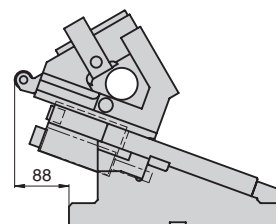
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

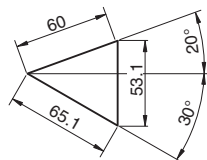
Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



Refer to page 837 for Table of Components.

Aerial Cam Unit



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.

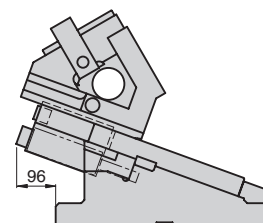


Option

■ Spring Specification

Life expectancy of Coil Spring is approximately 500,000 strokes.

■ Rear Removal Space



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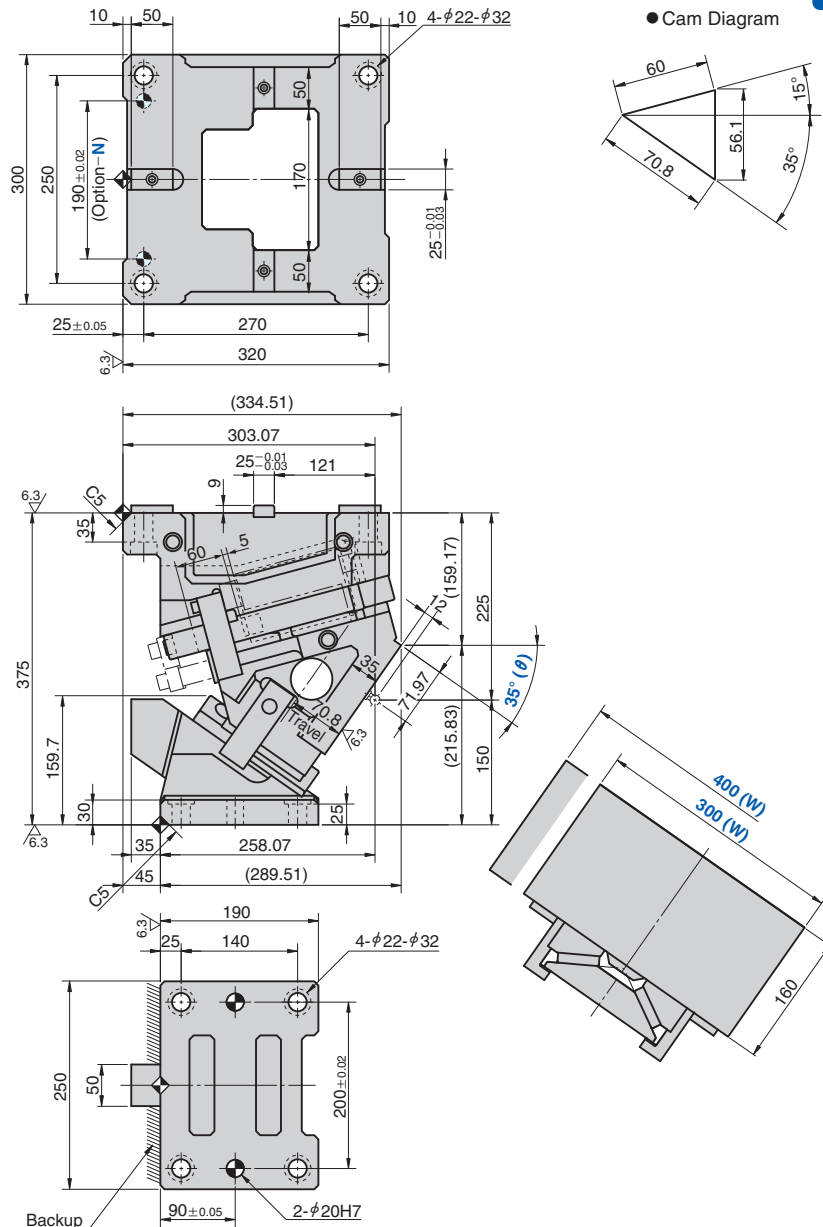
UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR300-35/UCMSNR400-35

CAD
FILE



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
70.8	451.1 (46.0)	—	10668.0 (1087.8)	14150 (1443.9)	148.0 (54.8)	155.0 (59.2)	UCMSNR	300 400	35	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12220 (1247.0)						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	400	—	35	—	GK		
UCMSNR	300	—	35	—	NGK		
UCMSNR	300	—	35	—	NISO		
UCMSNR	300	—	35	—	GK	— N	
UCMSNR	300	—	35	—	GK	— NF	



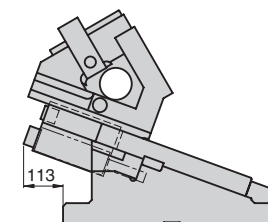
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



Refer to page 837 for Table of Components.

Aerial Cam Unit



Backup 90 ± 0.05 2- $\phi 20H7$

 Refer to page 837 for Table of Components.

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	Options
UCMSNR	400	40	GK	
UCMSNR	300	40	NGK	
UCMSNR	300	40	NISO	
UCMSNR	300	40	GK	N
UCMSNR	300	40	GK	NF



Option Code	Specification
N	φ 16H7 dowel hole is drilled on the cam holder.
N20	φ 20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

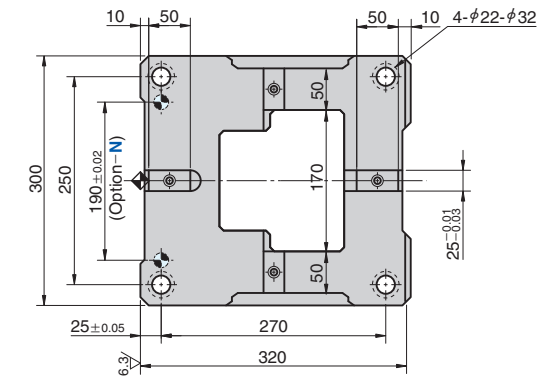
Life expectancy of Coil Spring is approximately 500,000 strokes.

UCMSNR

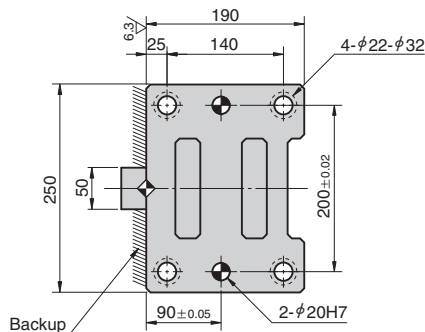
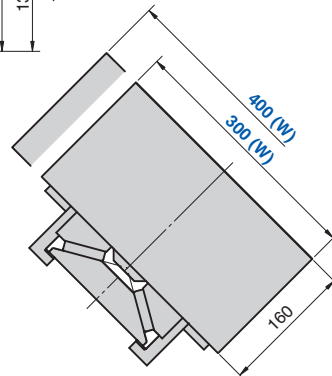
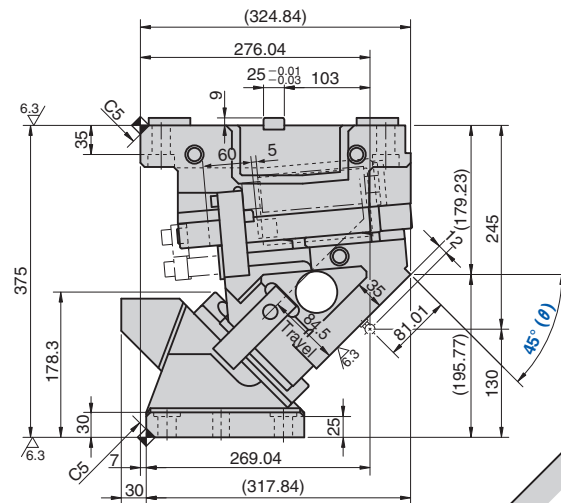
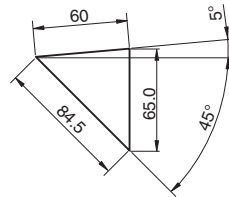
NAAMS Type

Aerial Cam Unit

UCMSNR300-45/UCMSNR400-45



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
84.5	451.1 (46.0)	—	10668.0 (1087.8)	14026 (1431.2)	148.6 (54.8)	155.6 (59.2)	UCMSNR	300 400	45	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)	12100 (1234.0)						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	400	—	45	—	GK		
UCMSNR	300	—	45	—	NGK		
UCMSNR	300	—	45	—	NISO		
UCMSNR	300	—	45	—	GK	— N	
UCMSNR	300	—	45	—	GK	— NF	



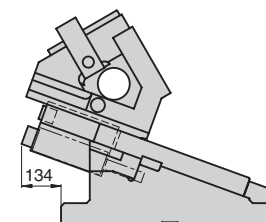
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



Refer to page 837 for Table of Components.

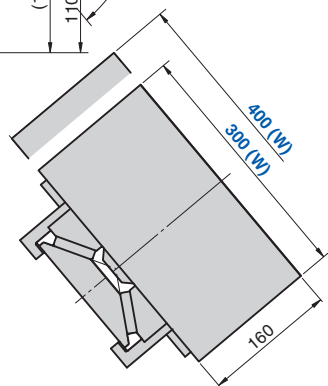
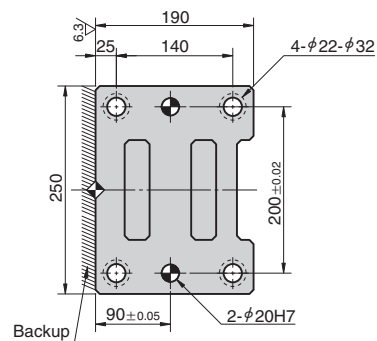
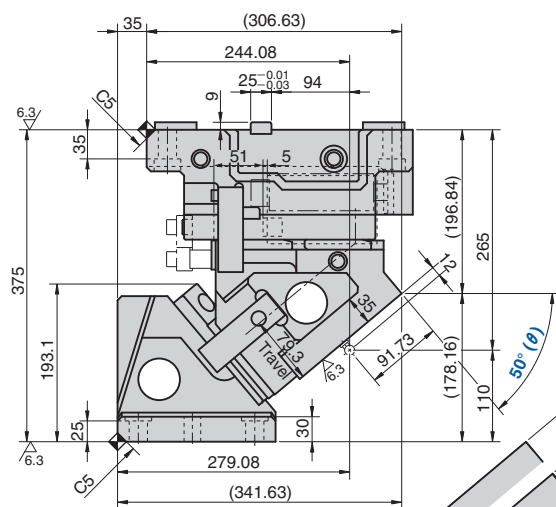
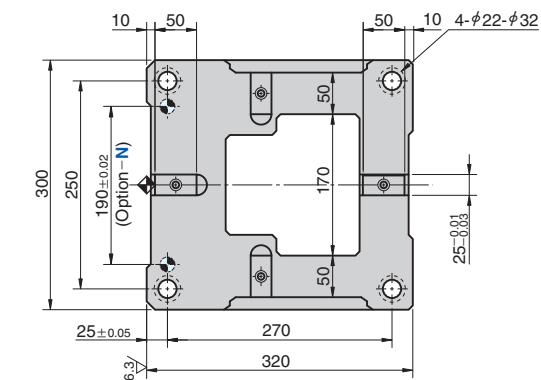
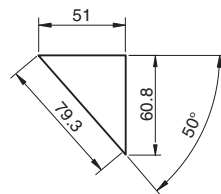
NAAMS Type

Aerial Cam Unit

UCMSNR300-50/UCMSNR400-50



- Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
79.3	451.1 (46.0)	—	10294.6 (1049.4)	13960 (1424.5)	145.8 (55.9)	151.2 (60.3)	UCMSNR	300 400	50	GK NGK
			10294.6 (1049.4)							GD NGD
			13800.0 (1407.2)							GS NGS
	1314.1 (134.0)	8015.4 (817.9)	10470 (1068.0)	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	Options
UCMSNR	400	50	GK	
UCMSNR	300	50	NGK	
UCMSNR	300	50	NISO	
UCMSNR	300	50	GK	N
UCMSNR	300	50	GK	NF



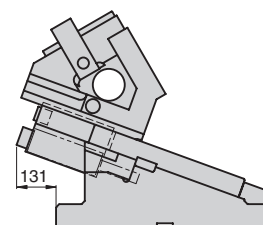
Option Code	Specification
N	φ 16H7 dowel hole is drilled on the cam holder.
N20	φ 20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

■ Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

■ Rear Removal Space



Refer to page 837 for Table of Components.

UCMSNR

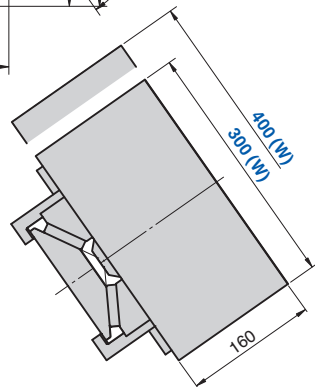
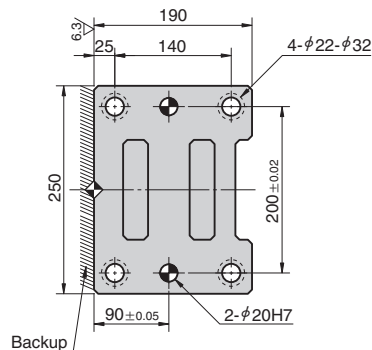
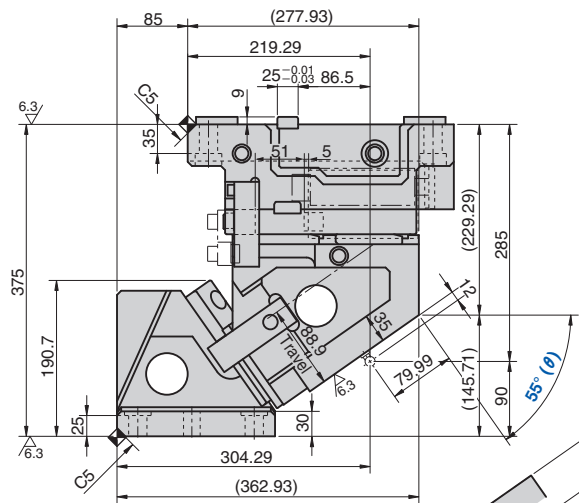
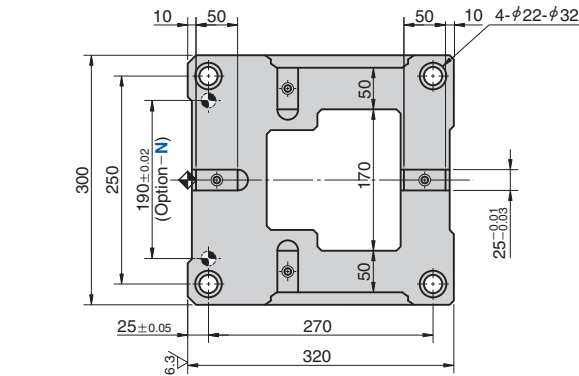
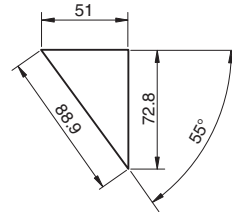
NAAMS Type

Aerial Cam Unit

UCMSNR300-55/UCMSNR400-55



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
88.9	451.1 (46.0)	—	10294.6 (1049.4)	15170 (1548.0)	152.5 (62.2)	161.3 (66.6)	UCMSNR	300 400	55	GK NGK
			10294.6 (1049.4)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	8015.4 (817.9)	11370 (1160.0)						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	400	—	55	—	GK		
UCMSNR	300	—	55	—	NGK		
UCMSNR	300	—	55	—	NISO		
UCMSNR	300	—	55	—	GK	— N	
UCMSNR	300	—	55	—	GK	— NF	



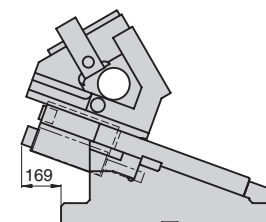
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



Refer to page 837 for Table of Components.

UCMSNR

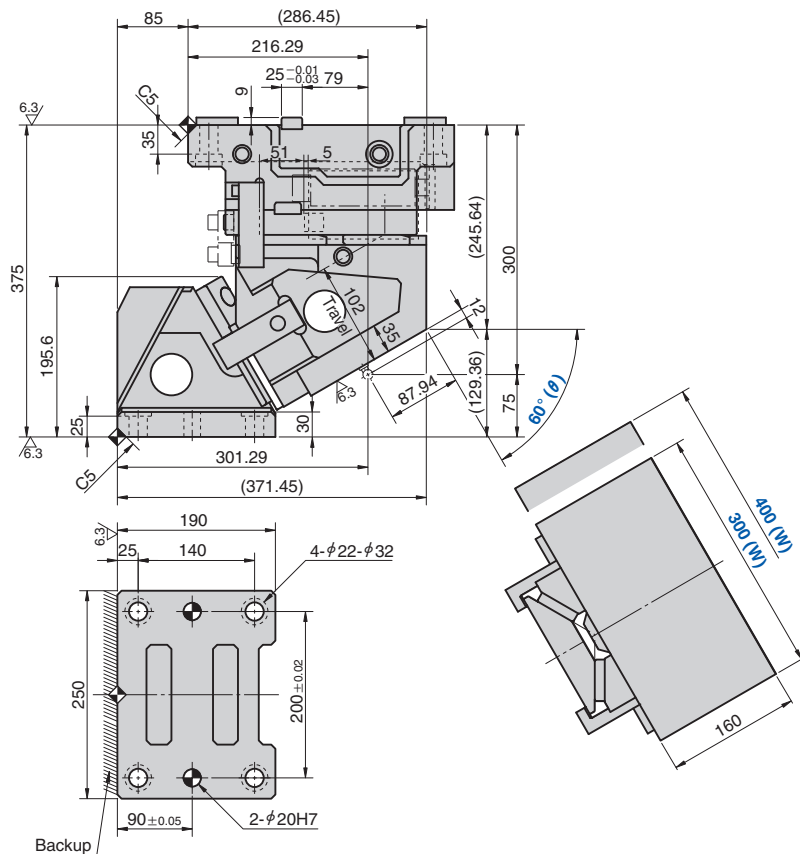
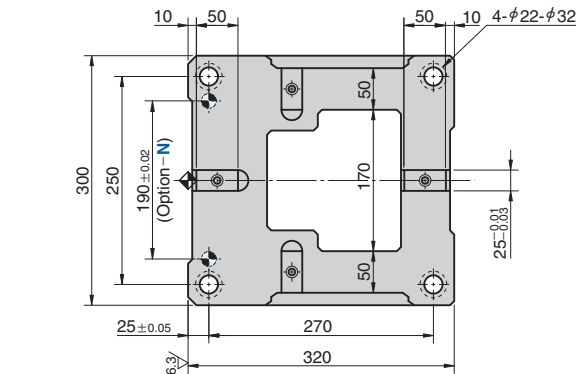
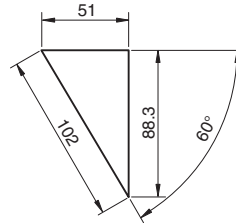
NAAMS Type

Aerial Cam Unit

UCMSNR300-60 / UCMSNR400-60



● Cam Diagram



Travel S	Working Force kN (tonf)	Spring Force N (kgf)		Return Force N (kgf)	Total Weight (Slider Weight) [kg]		Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load		W = 300	W = 400				
102.0	451.1 (46.0)	—	10294.6 (1049.4)	16764 (1710.6)	156.9 (68.0)	165.7 (72.4)	UCMSNR	300 400	60	GK NGK
			10294.6 (1049.4)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	8015.4 (817.9)	12560 (1282.0)						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	400	—	60	—	GK		
UCMSNR	300	—	60	—	NGK		
UCMSNR	300	—	60	—	NISO		
UCMSNR	300	—	60	—	GK	— N	
UCMSNR	300	—	60	—	GK	— NF	



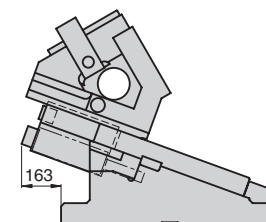
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

Spring Specification

No.	PS	Spring Model	Qty	Remark
46	GK	K500-80	2	Gas Spring (KALLER)
	GD	L500.075.138	2	Gas Spring (DADCO)
	GS	SM500.80	2	Gas Spring (SDT)
	ISO	TJM50-203	2	Coil Spring [Spring constant = 65.7 N/mm]

Life expectancy of Coil Spring is approximately 500,000 strokes.

Rear Removal Space



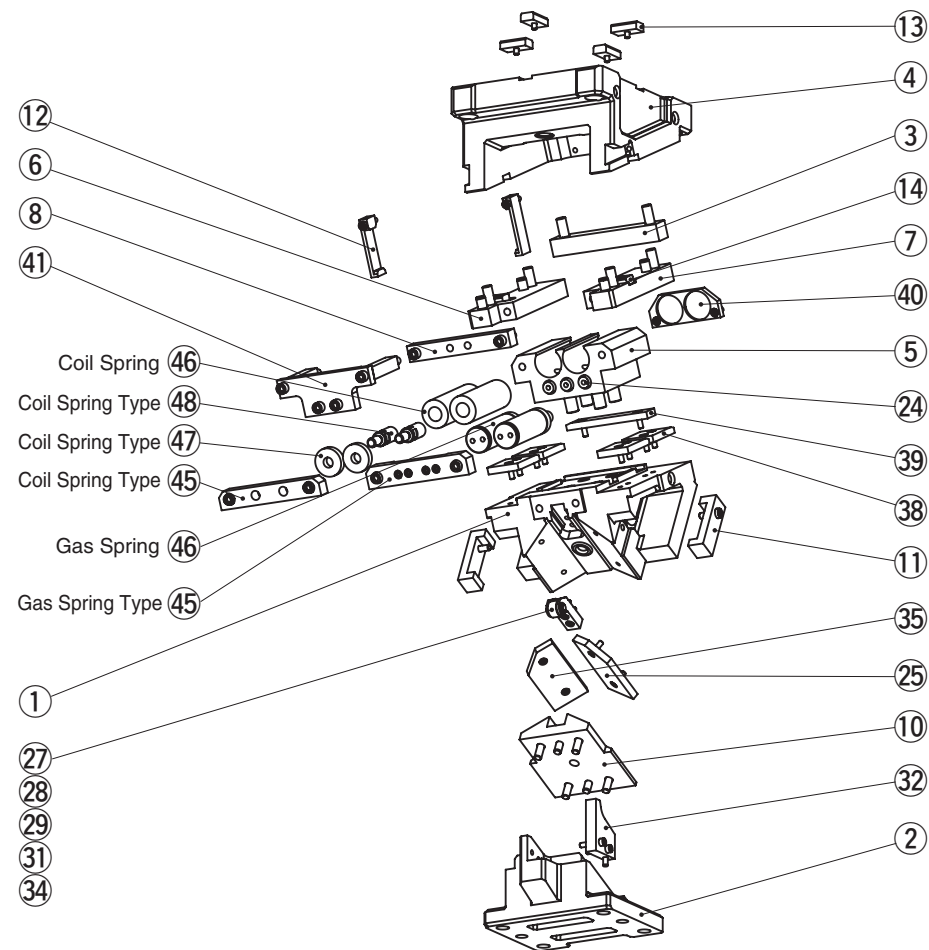
Refer to page 837 for Table of Components.

UCMSNR [Table of Components]

NAAMS Type

Aerial Cam Unit

UCMSNR300/400



No.	Description	Qty		Material and Remark
		Coil Spring	Gas Spring	
1	Cam Slider	1		Cast Iron
2	Cam Driver	1		Cast Iron
3	Base Plate C	1		Steel 0°~45° only
4	Cam Holder	1		Cast Iron
5	Spring Guide	1		Bronze with Graphite
6	Base Plate F R	1		Steel
7	Base Plate F L	1		Steel
8	Stopper Plate	1		Steel
10	Cam Slide Guide	1		Bronze with Graphite
11	Positive Return Follower	2		Steel
12	Safety Plate	2		Steel
13	Key A	4		Steel
14	Key B	2		Steel
24	Stopper	3		—
25	Slide Plate L	1		Steel
27	Roller	1		Steel 0°~25° only
28	Roller Pin	1		Steel 0°~25° only
29	Bushing	1		SOB12-18-16 0°~25° only
31	Roller Bracket	1		Steel 0°~25° only
32	Roller Driver	1		Steel 0°~25° only
34	Snap Ring E type	2		φ 9 0°~25° only
35	Slide Plate R	1		Steel
38	Wear Plate A	4		Bronze with Graphite
39	Wear Plate B	1		Bronze with Graphite 0°~45° only
40	Spring Support	1		Steel
41	Slide Lock Plate	1		Steel
45	Spring Guide Plate	1		Steel
46	Spring	2		Refer to the Spring Specification.
47	Washer	2	—	Steel ISO specification only
48	Spring Guide Pin	2	—	Steel ISO specification only

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

Standard
Cam Units