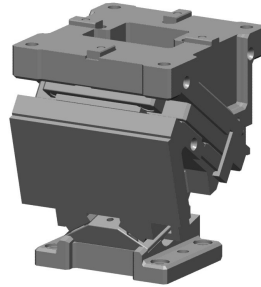


UCMSNR [Overview]

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	

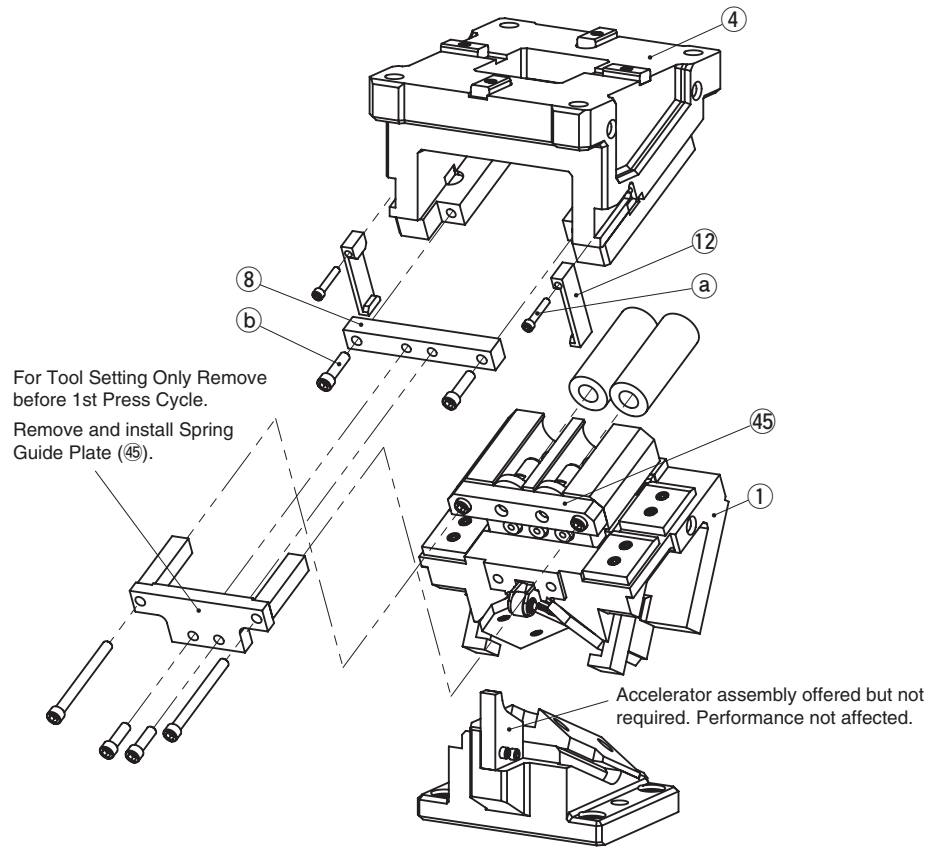
Mount face		Working Angle	Travel	Working Force kN (tonf)
W	H			
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
	120	25	50.0	
165		30	54.3	294.2 (30.0)
		35	59.0	
		40	64.3	
		45	70.4	
		50	77.8	
	125	55	87.2	
		60	100.0	
		00	32.1	
		05	35.5	
		10	38.9	
		15	42.4	
		20	46.1	
		25	50.0	
200	120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

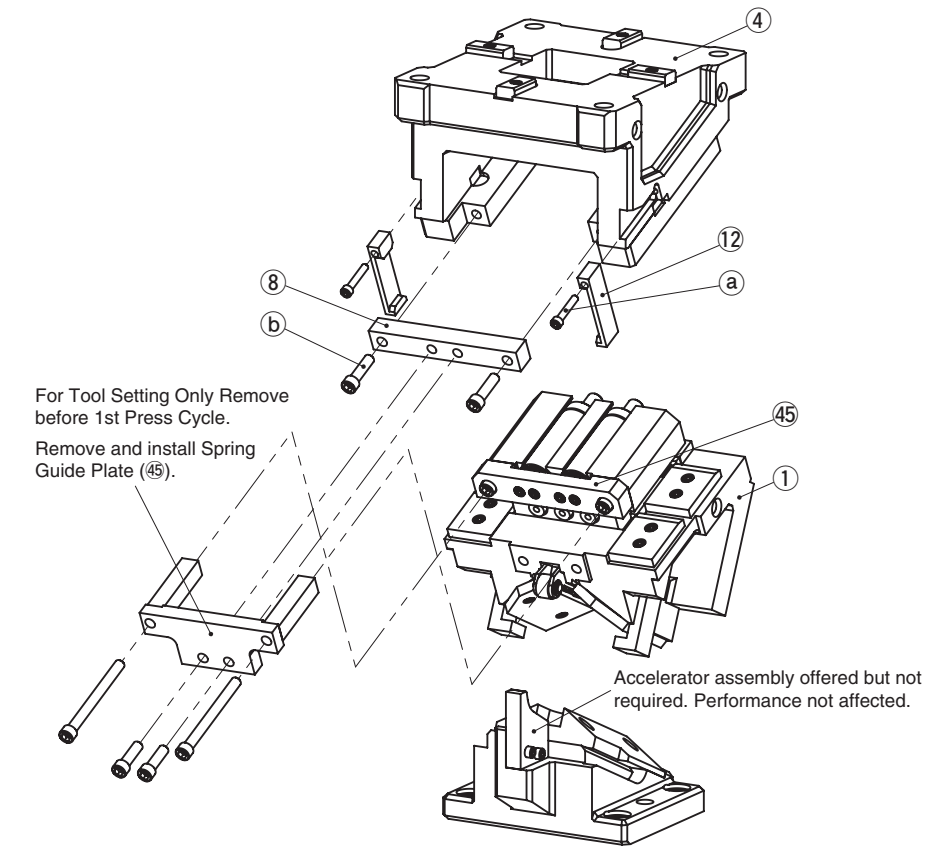
- 1) Remove Hexagon Socket Head Bolts (a), and remove Safety Plate (12).
- 2) Remove Hexagon Socket Head Bolts (b), and remove Stopper Plate (8).
- 3) Pull out and remove Cam Slider (1) from Cam Holder (4) to the rear.

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 tightened 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 tightened to the recommended torque after assembly and disassembly.

Gas Spring

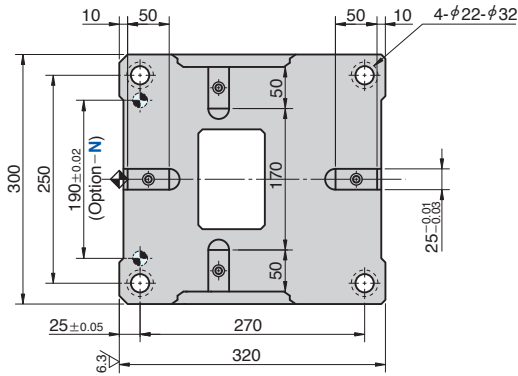
Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

UCMSNR

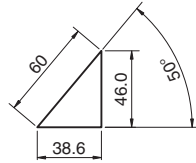
NAAMS Type

Aerial Cam Unit

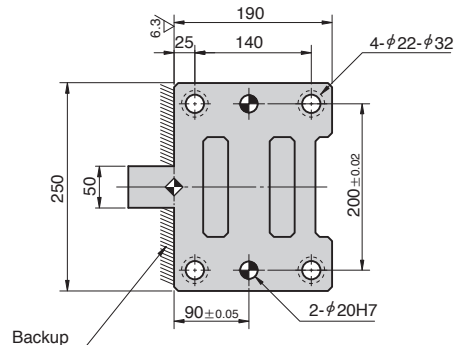
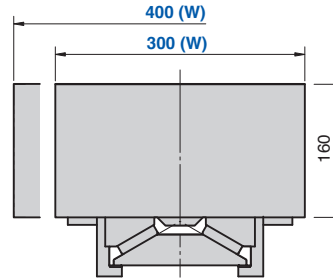
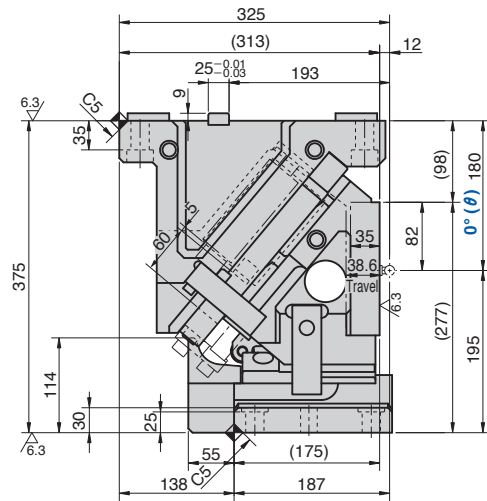
UCMSNR300-00/UCMSNR400-00



● Cam Diagram



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



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)							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	00	GK	
	UCMSNR	300	00	NGK	
	UCMSNR	300	00	NISO	
	UCMSNR	300	00	GK	- N
	UCMSNR	300	00	GK	- NF



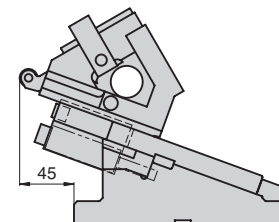
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



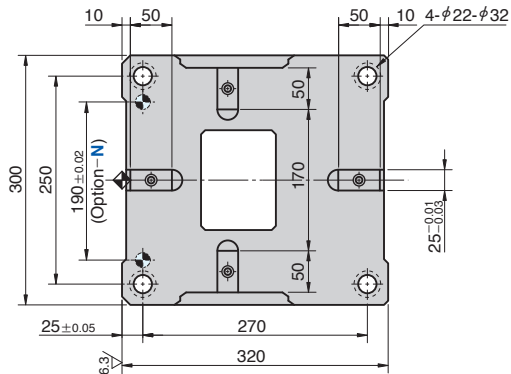
Refer to page 837 for Table of Components.

UCMSNR

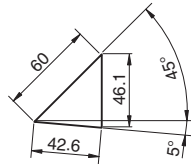
NAAMS Type

Aerial Cam Unit

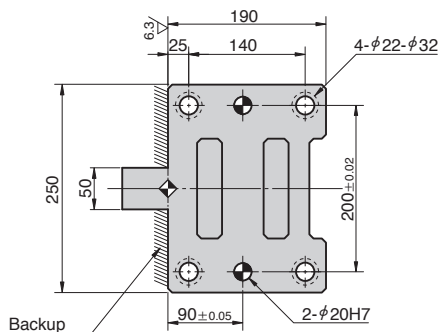
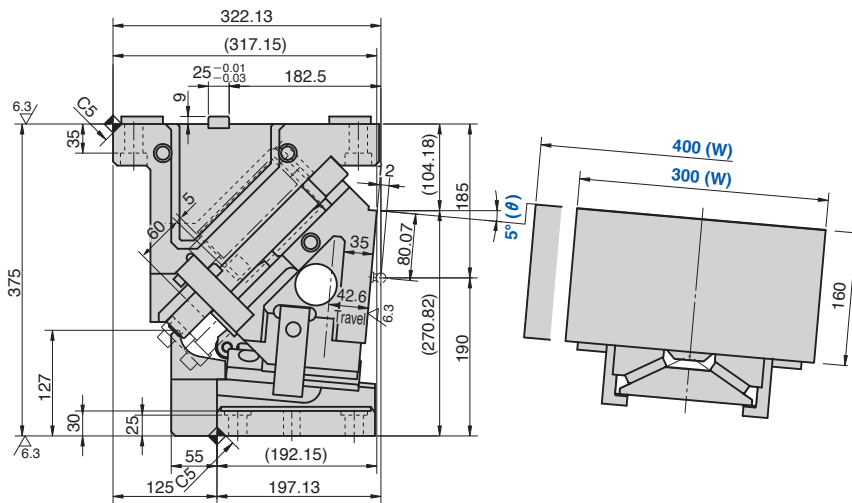
UCMSNR300-05/UCMSNR400-05



● 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				
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	GK NGK
		-	10668.0 (1087.8)							GD NGD
		-	13800.0 (1407.2)	GS NGS						
		1314.1 (134.0)	9198.0 (937.9)	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 400	400	05	GK	
UCMSNR 300	300	05	NGK	
UCMSNR 300	300	05	NISO	
UCMSNR 300	300	05	GK	- N
UCMSNR 300	300	05	GK	- NF



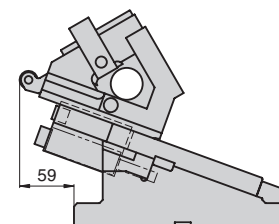
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



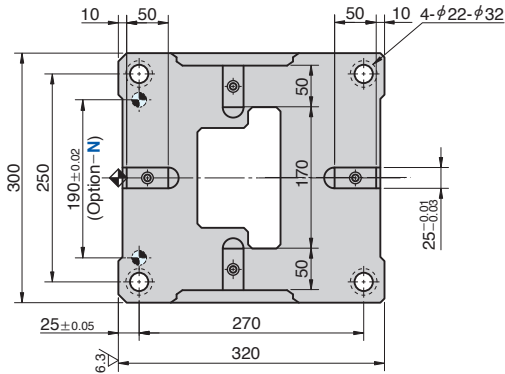
Refer to page 837 for Table of Components.

UCMSNR

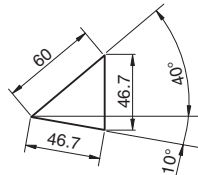
NAAMS Type

Aerial Cam Unit

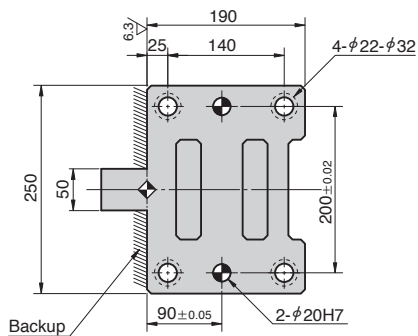
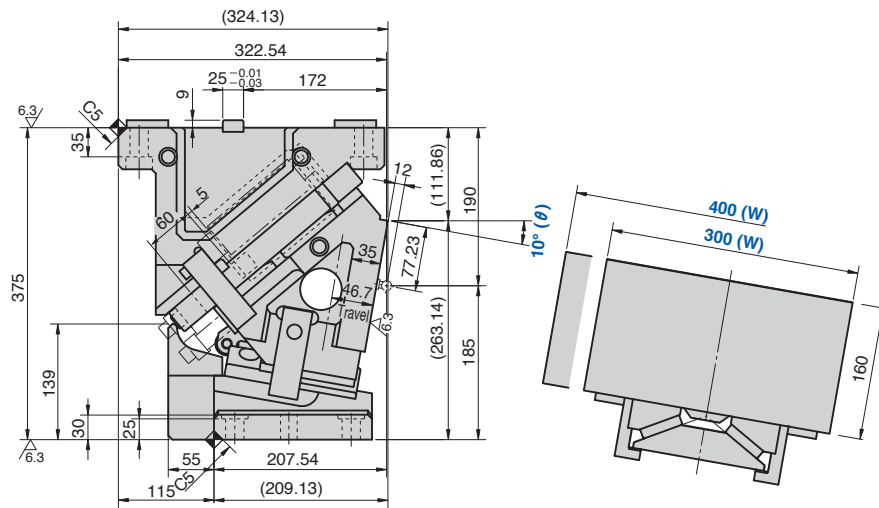
UCMSNR300-10/UCMSNR400-10



● Cam Diagram



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



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)	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	10	GK	
	UCMSNR	300	10	NGK	
	UCMSNR	300	10	NISO	
	UCMSNR	300	10	GK	- N
	UCMSNR	300	10	GK	- NF



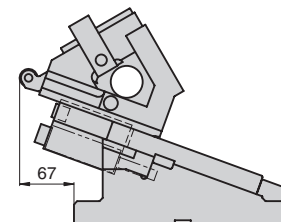
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



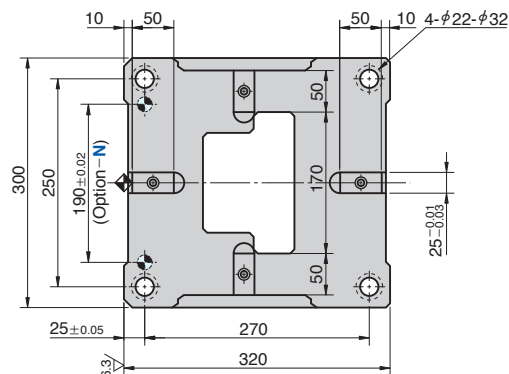
Refer to page 837 for Table of Components.

UCMSNR

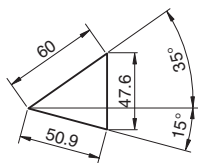
NAAMS Type

Aerial Cam Unit

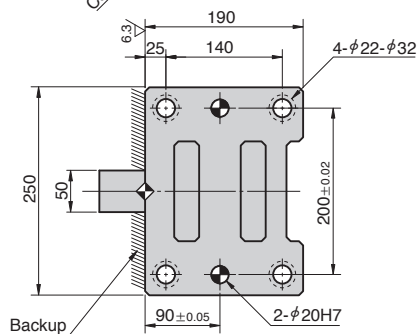
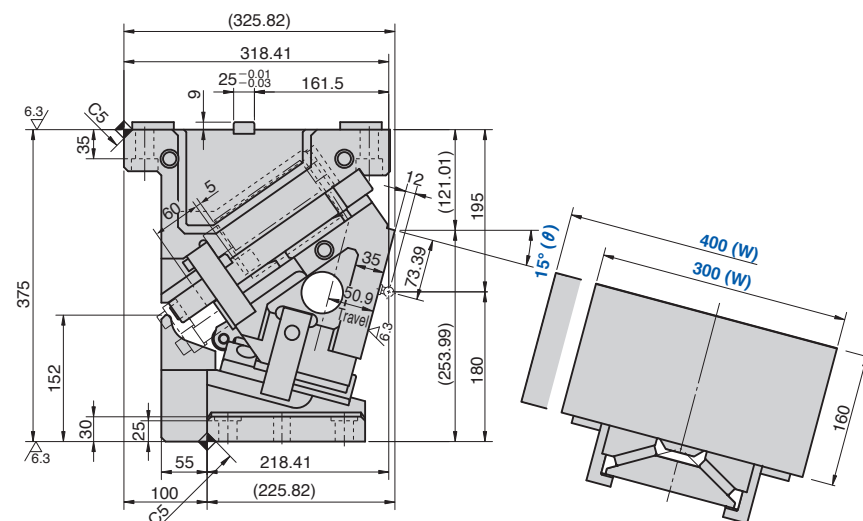
UCMSNR300-15/UCMSNR400-15



● Cam Diagram



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



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				
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)	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	400	15	GK	
UCMSNR 300	300	15	NGK	
UCMSNR 300	300	15	NISO	
UCMSNR 300	300	15	GK	- N
UCMSNR 300	300	15	GK	- NF



Option

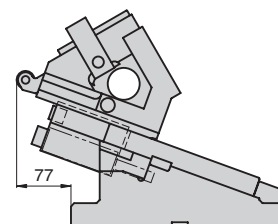
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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

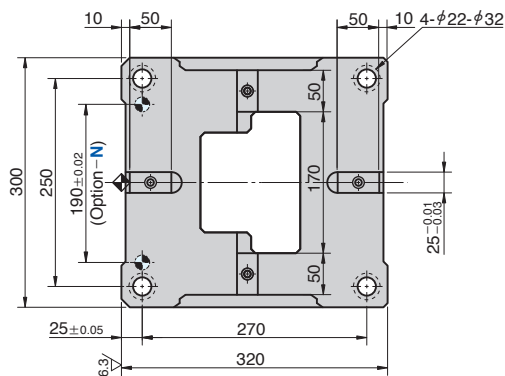


UCMSNR

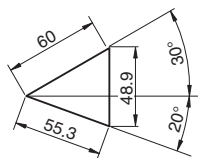
NAAMS Type

Aerial Cam Unit

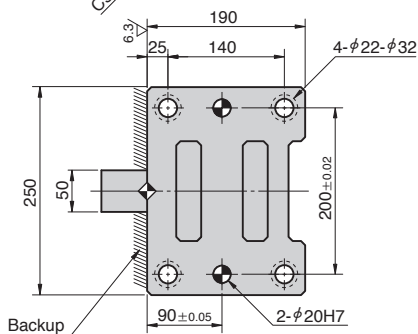
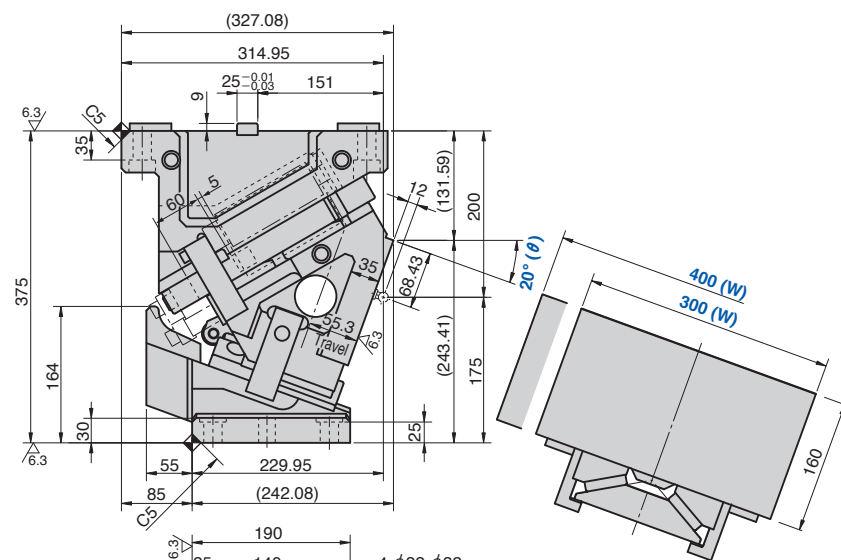
UCMSNR300-20/UCMSNR400-20



● 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)	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	400	20	GK	
UCMSNR 300	300	20	NGK	
UCMSNR 300	300	20	NISO	
UCMSNR 300	300	20	GK	N
UCMSNR 300	300	20	GK	NF



Option

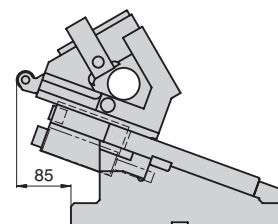
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



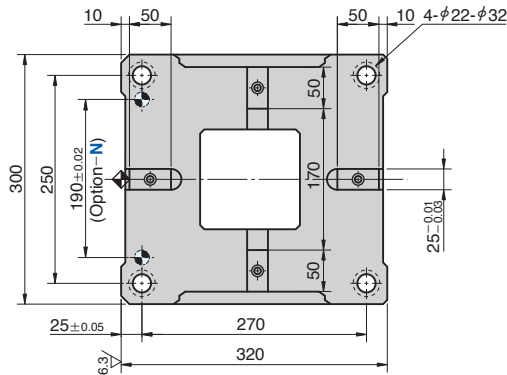
Refer to page 837 for Table of Components.

UCMSNR

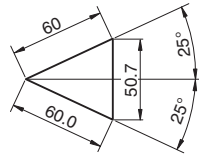
NAAMS Type

Aerial Cam Unit

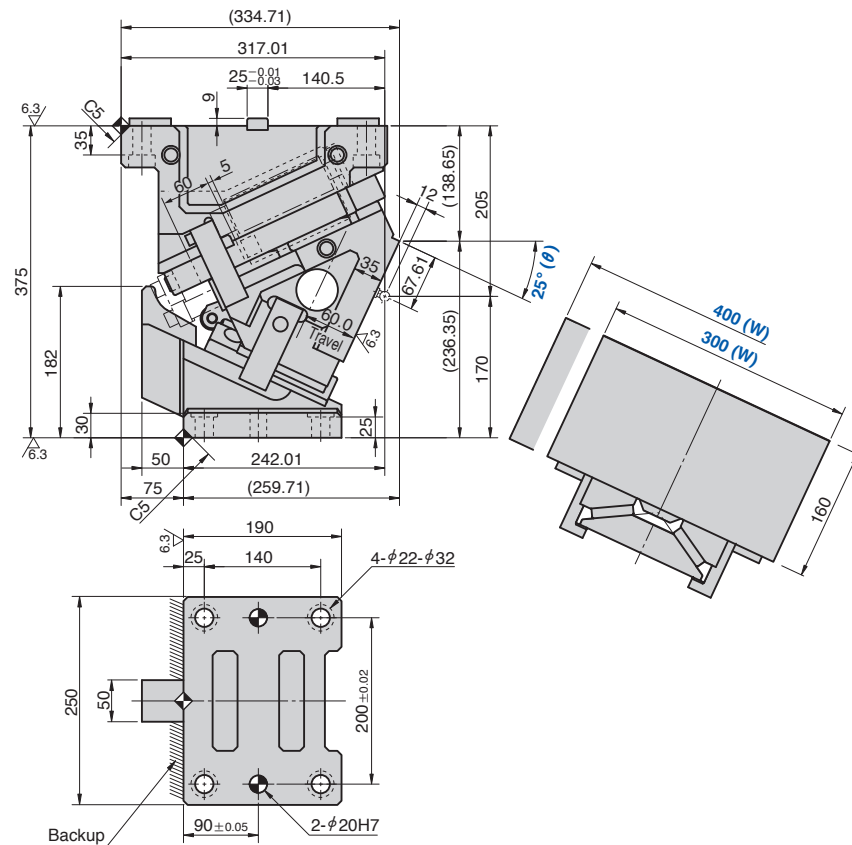
UCMSNR300-25/UCMSNR400-25



● 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)	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



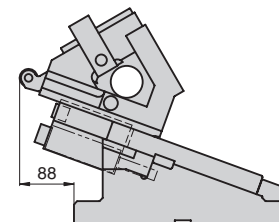
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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.

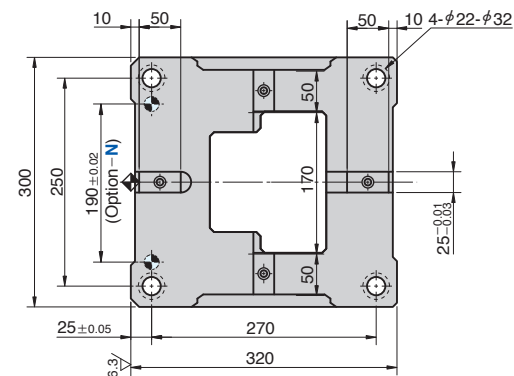
UCMSNR

NAAMS Type

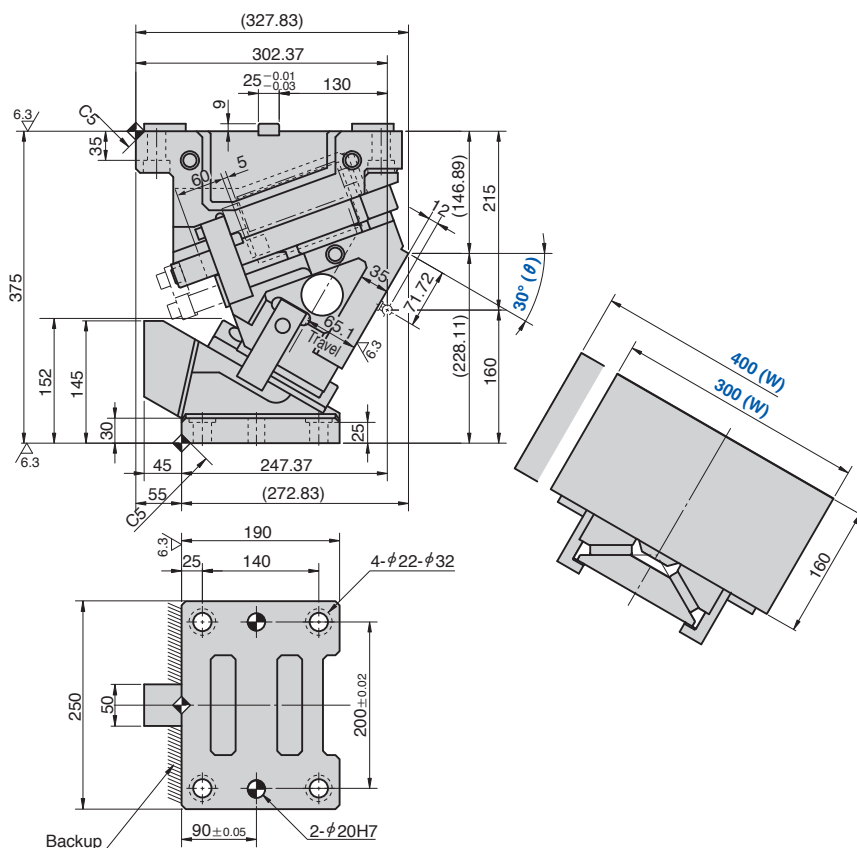
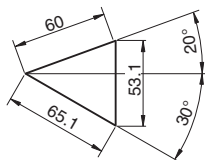
Aerial Cam Unit

UCMSNR300-30/UCMSNR400-30

CAD FILE



● 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				
65.1	451.1 (46.0)	-	10668.0 (1087.8)	14211 (1450.1)	147.3 (54.8)	154.3 (59.2)	UCMSNR	300 400	30	GK NGK
			10668.0 (1087.8)							GD NGD
			13800.0 (1407.2)							GS NGS
		1314.1 (134.0)	9198.0 (937.9)							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.



Order

Catalog No.	W	θ	PS	Option
UCMSNR 400	400	30	GK	
UCMSNR 300	300	30	NGK	
UCMSNR 300	300	30	NISO	
UCMSNR 300	300	30	GK	N
UCMSNR 300	300	30	GK	NF



Option

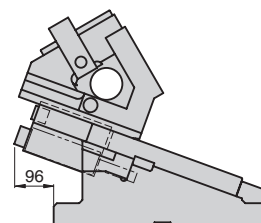
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



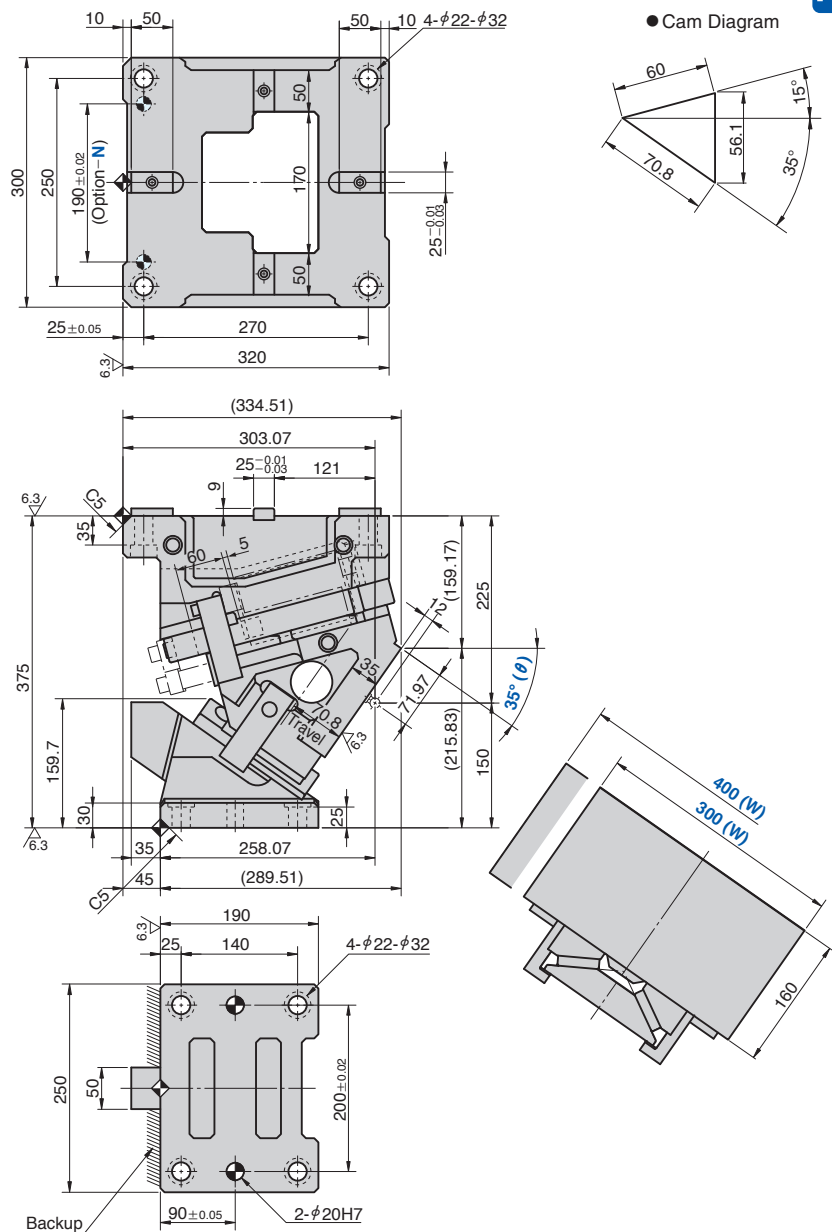
Refer to page 837 for Table of Components.

UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR300-35/UCMSNR400-35



● 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				
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						
			9198.0 (937.9)	ISO NISO						
		1314.1 (134.0)	9198.0 (937.9)							

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	35	GK	
UCMSNR	300	35	NGK	
UCMSNR	300	35	NISO	
UCMSNR	300	35	GK	- N
UCMSNR	300	35	GK	- NF



Option

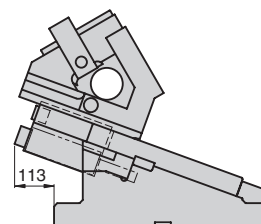
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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.

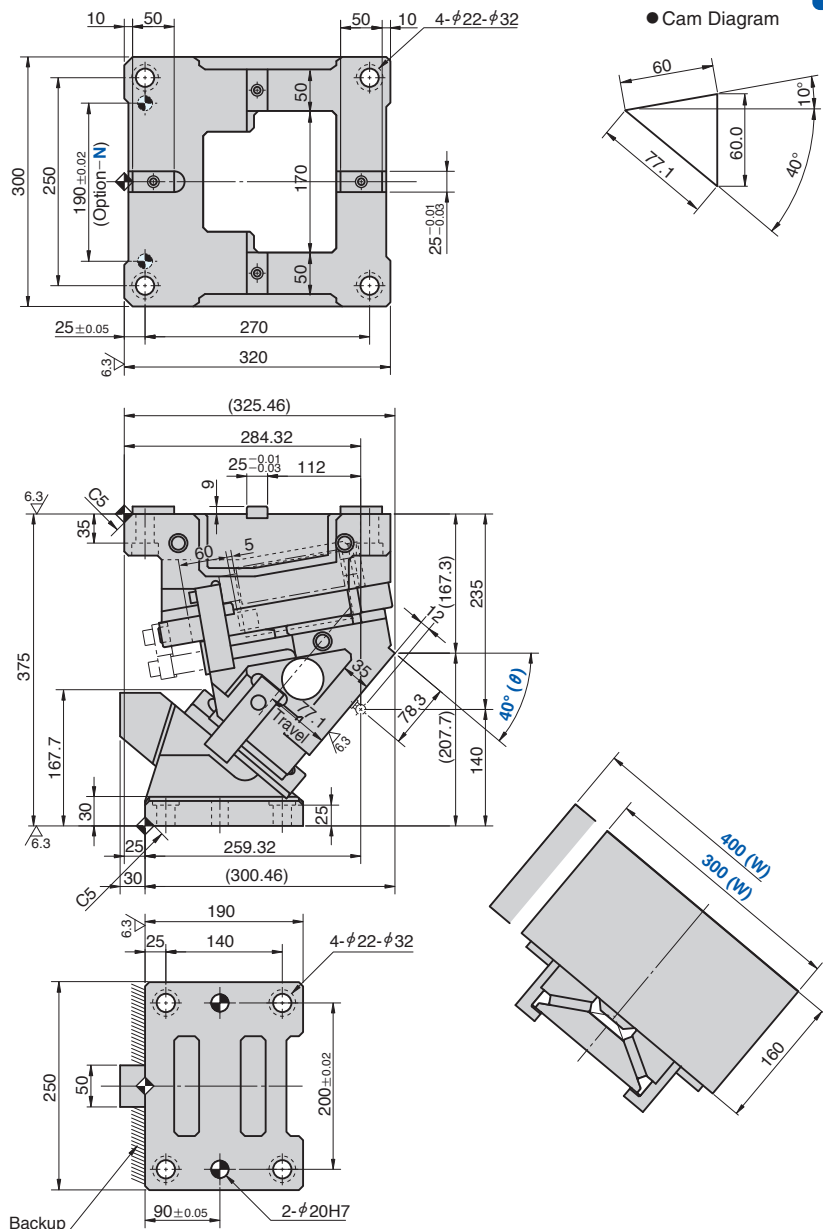
UCMSNR

NAAMS Type

Aerial Cam Unit

UCMSNR300-40/UCMSNR400-40

CAD FILE



● 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				
77.1	451.1 (46.0)	—	10668.0 (1087.8)	14088 (1437.5)	146.2 (54.8)	153.3 (59.2)	UCMSNR	300 400	40	GK NGK
		—	10668.0 (1087.8)							GD NGD
		1314.1 (134.0)	9198.0 (937.9)	GS NGS						
										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	—	40	—	GK
UCMSNR	300	—	40	—	NGK
UCMSNR	300	—	40	—	NISO
UCMSNR	300	—	40	—	GK — N
UCMSNR	300	—	40	—	GK — NF



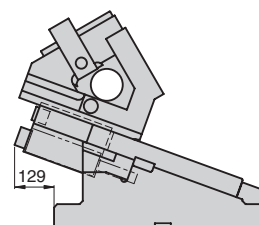
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



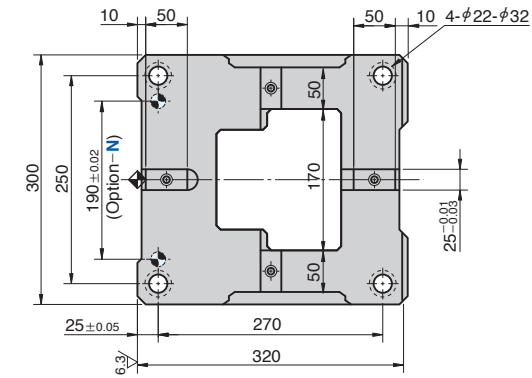
Refer to page 837 for Table of Components.

UCMSNR

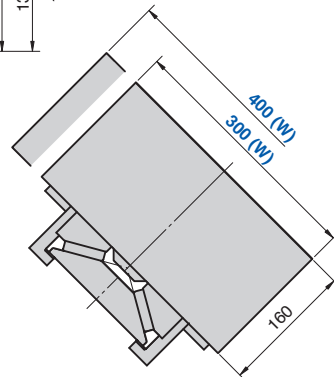
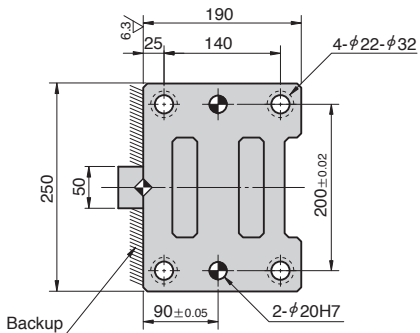
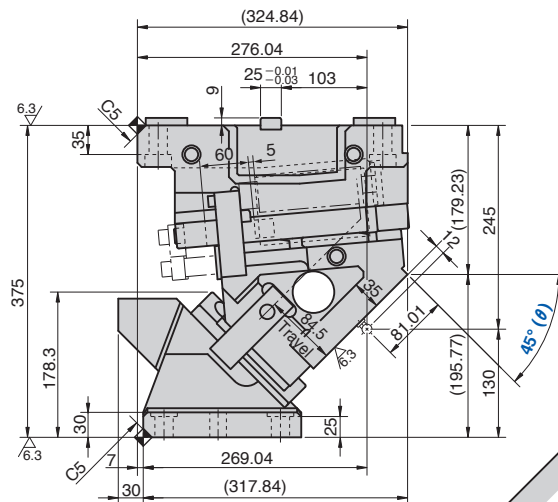
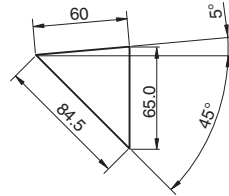
NAAMS Type

Aerial Cam Unit

UCMSNR300-45/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						
			9198.0 (937.9)	ISO NISO						
		1314.1 (134.0)	9198.0 (937.9)							

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



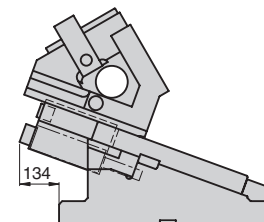
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



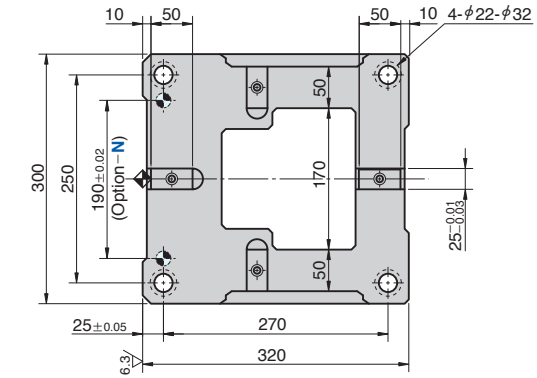
Refer to page 837 for Table of Components.

UCMSNR

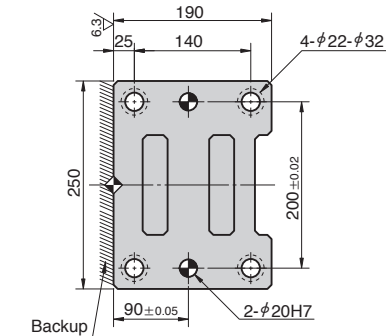
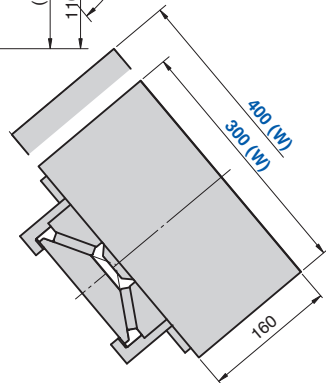
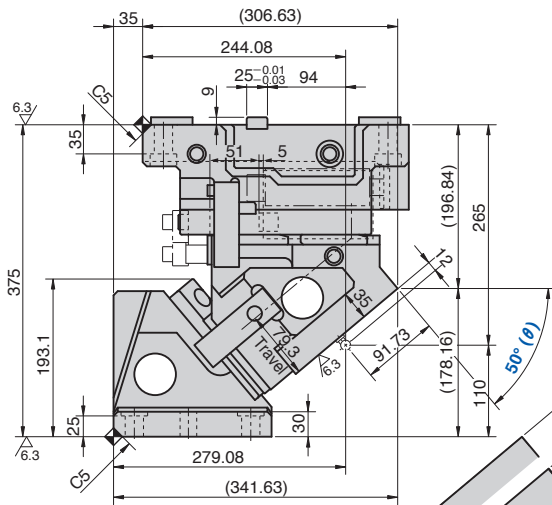
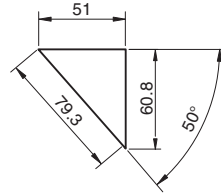
NAAMS Type

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)	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	400	50	GK	
UCMSNR 300	300	50	NGK	
UCMSNR 300	300	50	NISO	
UCMSNR 300	300	50	GK	- N
UCMSNR 300	300	50	GK	- NF



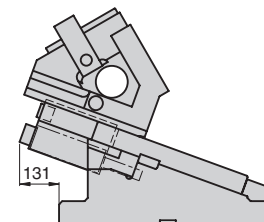
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



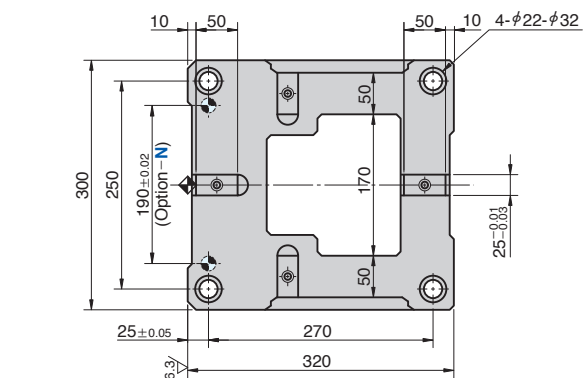
Refer to page 837 for Table of Components.

UCMSNR

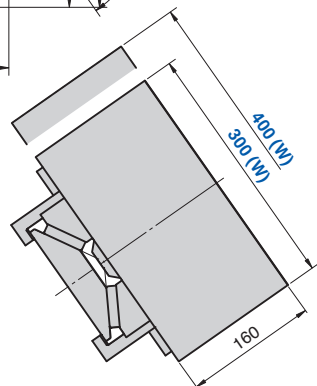
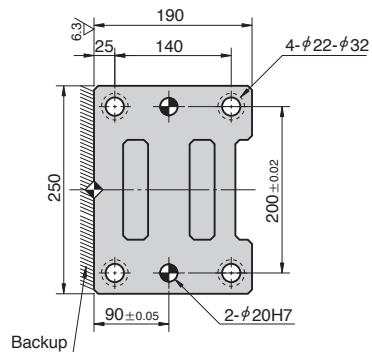
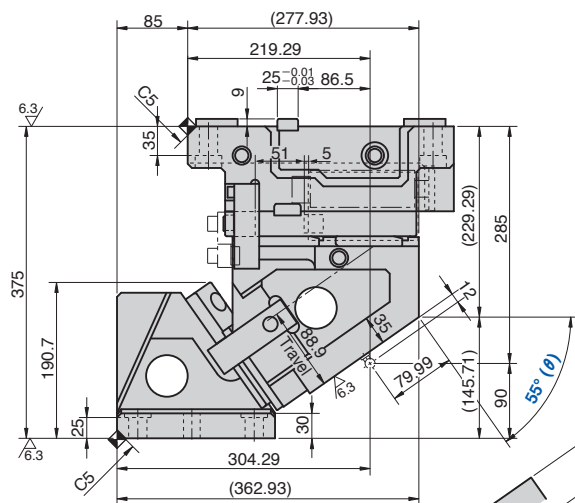
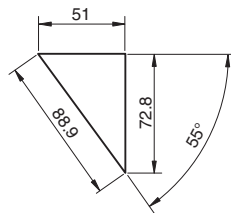
NAAMS Type

Aerial Cam Unit

UCMSNR300-55/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)	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	400	55	GK	
UCMSNR 300	300	55	NGK	
UCMSNR 300	300	55	NISO	
UCMSNR 300	300	55	GK	- N
UCMSNR 300	300	55	GK	- NF



Option

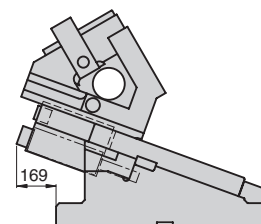
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



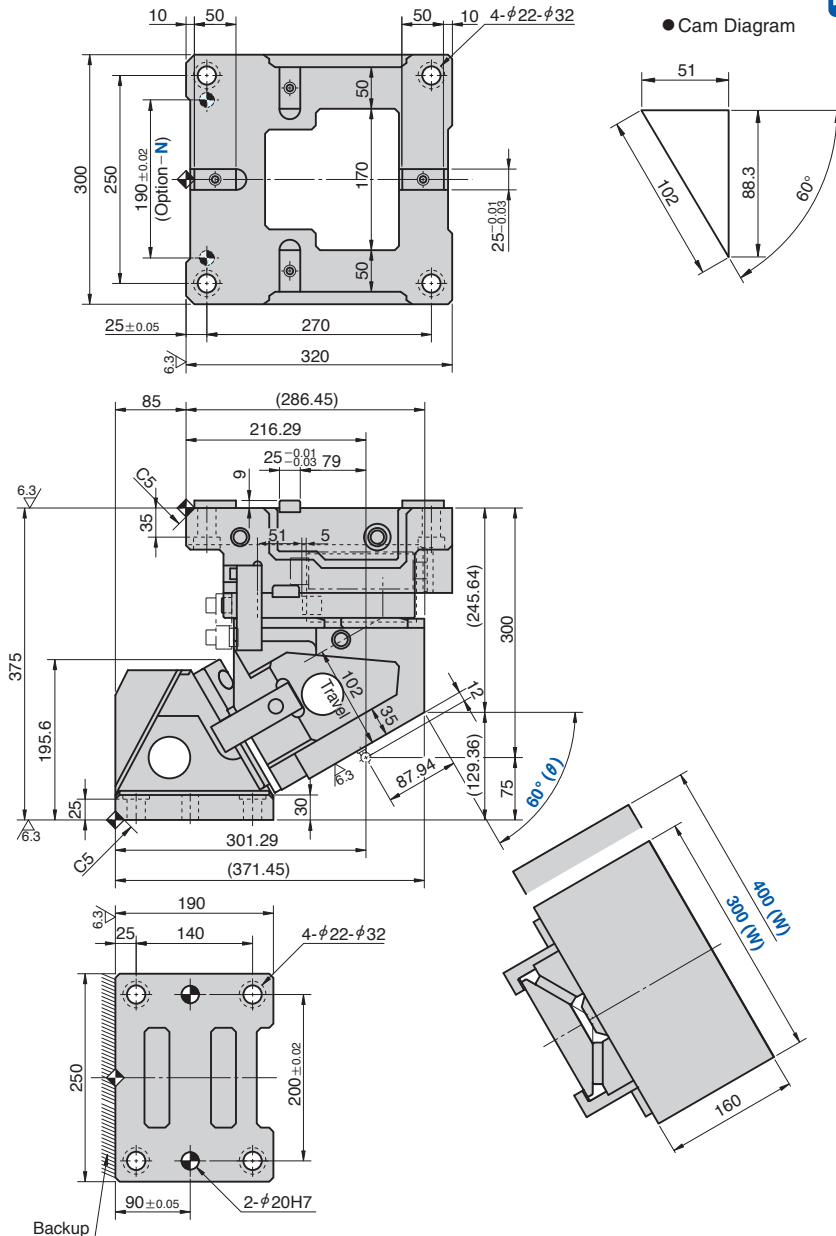
Refer to page 837 for Table of Components.

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
			8015.4 (817.9)							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	400	60	GK	
UCMSNR	300	60	NGK	
UCMSNR	300	60	NISO	
UCMSNR	300	60	GK	N
UCMSNR	300	60	GK	NF



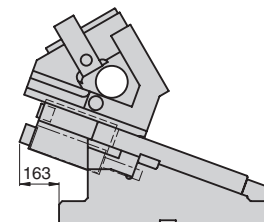
Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
N20	φ20H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas not charged.

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



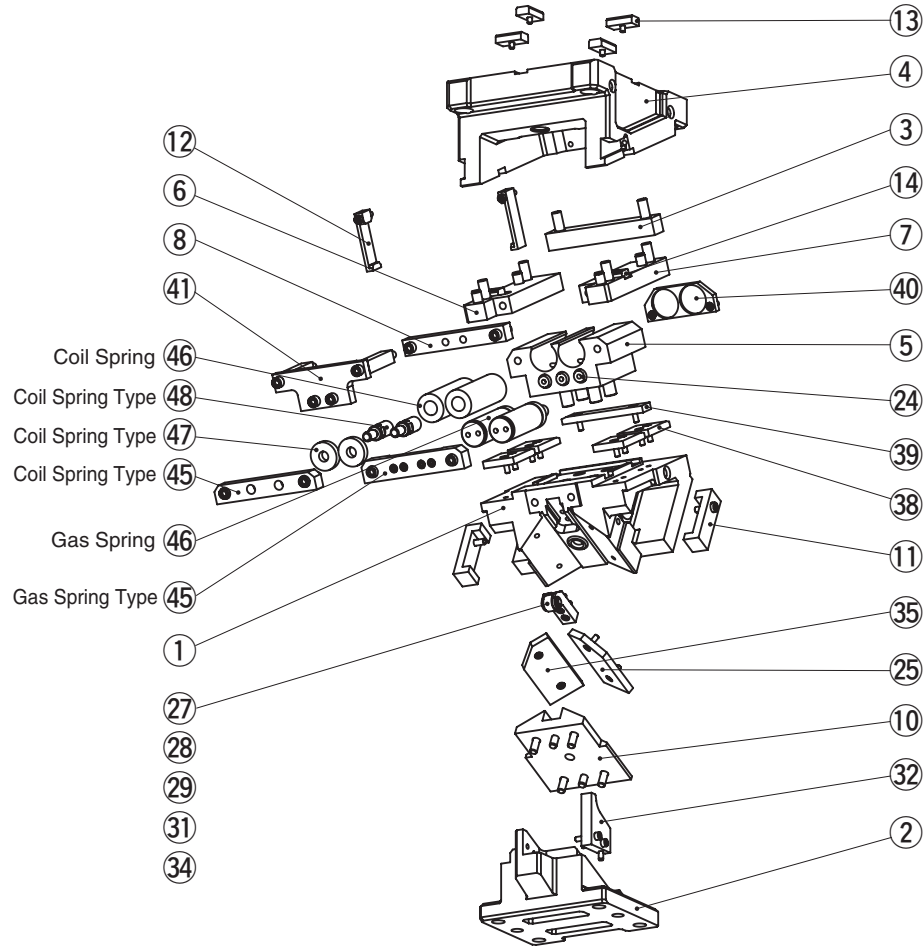
Refer to page 837 for Table of Components.

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		φ9 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