

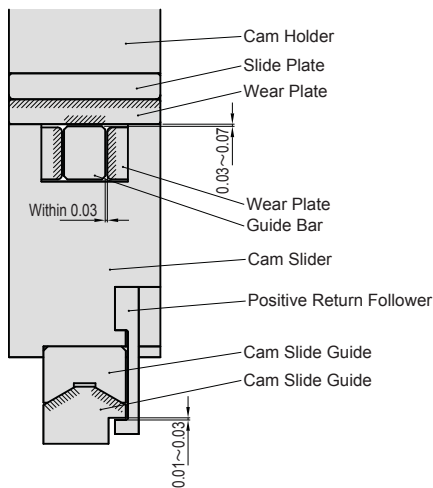


- 70, 80, 165, 200, 300 and 400 are available for the mount width.
- Standard angles from 0-60 degrees are available in 5 degree increments.
- Spring is removable from rear of cam to allow adjustment in closed home position.
- Highly rigid structure with double wear plates and S45C material.
- Product conforming to NAAMS standard.

Note) The design of the previous UCMSN noise reducing roller driver was changed to improve rigidity.  
(For the mount width of 165 or more)

### Slide Structure and Positive Return Structure (UCMSNR70・80)

UCMSNR70・80



\*Oilless System at Hatched Area

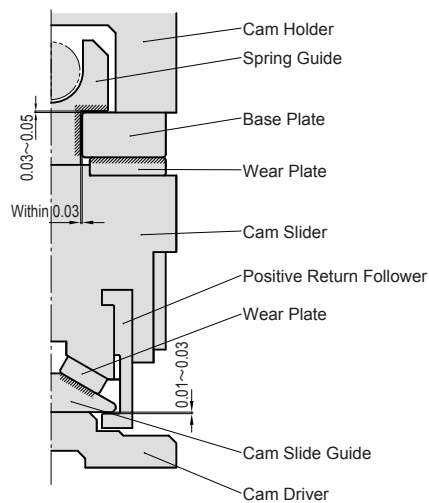
- Clearance between cam holder and slider is within 0.03.

- Clearance between positive return follower and cam driver is 0.01-0.03.

This makes for smooth movement for slide and positive return.

\*If a bigger clearance for cam holder or cam slider is needed, please contact your sales representative.

UCMSNR165~400



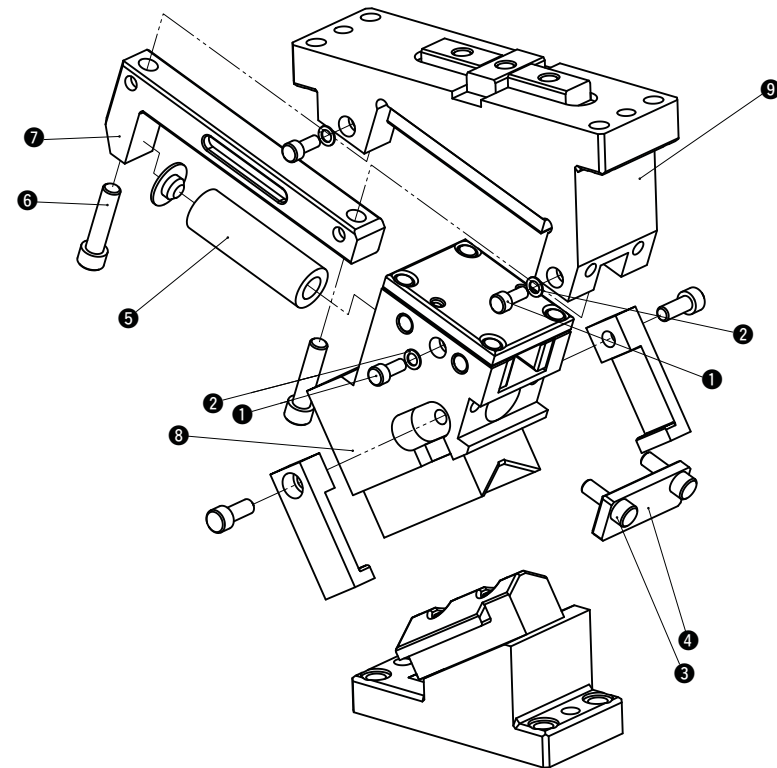
\*Oilless System at Hatched Area

### Caution

The noise reducing roller driver support was integrated into the unit cam driver. Since vertical load up to the angle from 0° to 20° is large, the bottom surface is the same as the unit driver.

(For the mount width of 165 or more)

### UCMSNR70, 80 Structure and Assembly / Disassembly




#### Disassembly method of UCMSNR70, 80

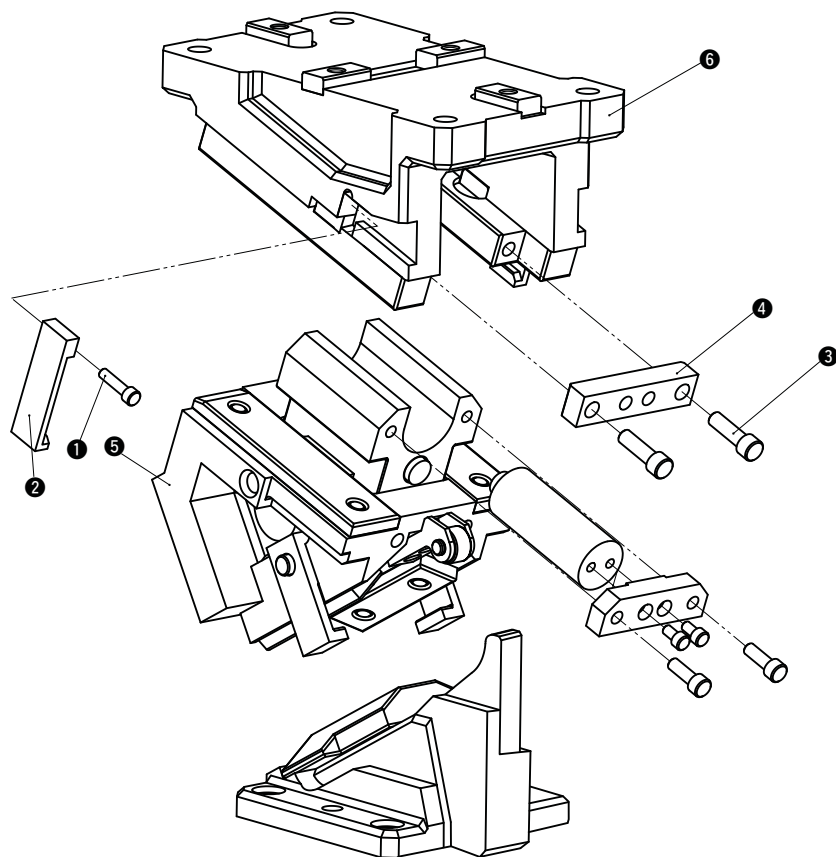
- 1) Remove hexagon socket head bolt (1) and coned disc spring (2).
- 2) Loosen hexagon socket head bolt (3) and remove spring stopper plate (4). Pull out spring (5).
- 3) Loosen hexagon socket bolt (6) and remove guide bar (7) and cam slider (8) from cam holder (9).
- 4) Pull and remove the guide bar from the cam slider.

#### Assembly method of UCMSNR70, 80

- 1) Assemble components in the reverse order of disassembly.
  - Make sure that there is no foreign matter on the sliding area and assemble components.
  - The clearance between the guide bar/cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly.
  - When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided

### ■ Structure and Assembly/Disassembly of UCMSNR165, 200, 300 and 400

 Nitrogen gas is not filled in case of air delivery.  
(Option Code : -NF)



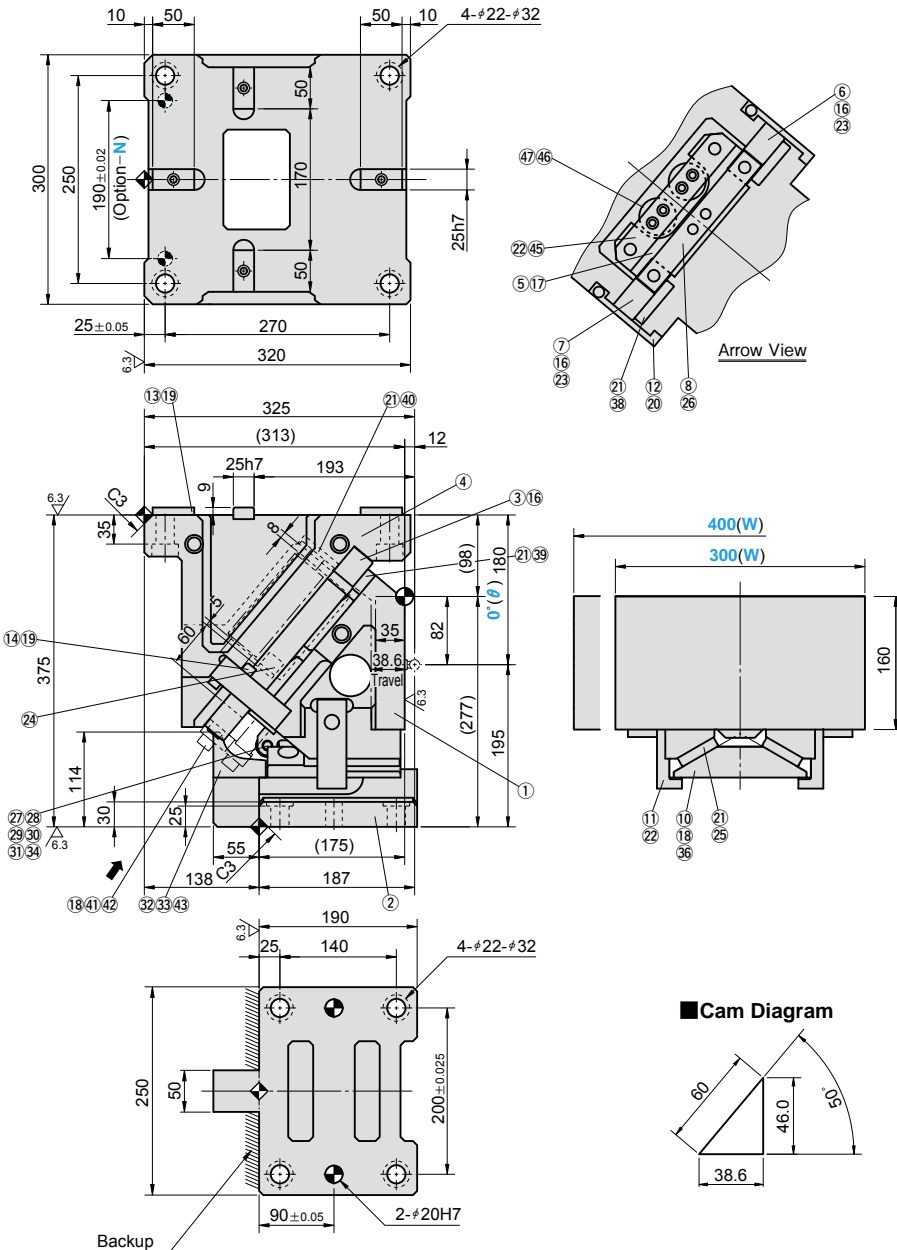
#### ● Disassembly method of UCMSNR165, 200, 300 and 400

- 1) Loosen hexagon socket head bolt (1) and remove safety plate (2).
- 2) Loosen hexagon socket head bolt (3) and remove stopper plate (4).
- 3) Pull and remove cam slider (5) from cam holder (6).

#### ● Assembly method of UCMSNR165, 200, 300 and 400

- 1) Assemble components in the reverse order of disassembly.
  - Make sure that there is no foreign matter on the sliding area and assemble components.
  - The clearance between the guide bar/cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly
  - When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided

UCMSNR300-00  
UCMSNR400-00



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
38.6	451.1 (46.0)	-	10668.0 (1087.8)	153.2 (54.8)	160.2 (59.2)	UCMSNR	300 400	00	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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

Order

Catalog No.	(W)	(θ)	G
UCMSNR	400	00	GK
UCMSNR	300	00	NGK
UCMSNR	300	00	NISO

.....Without gas spring  
.....Without coil spring

Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.

Order UCMSNR300 - 00 - GK - N  
UCMSNR300 - 00 - GK - NF

Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

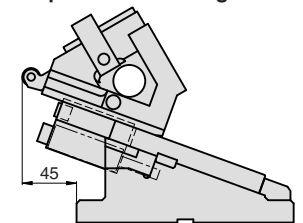
Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
11	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

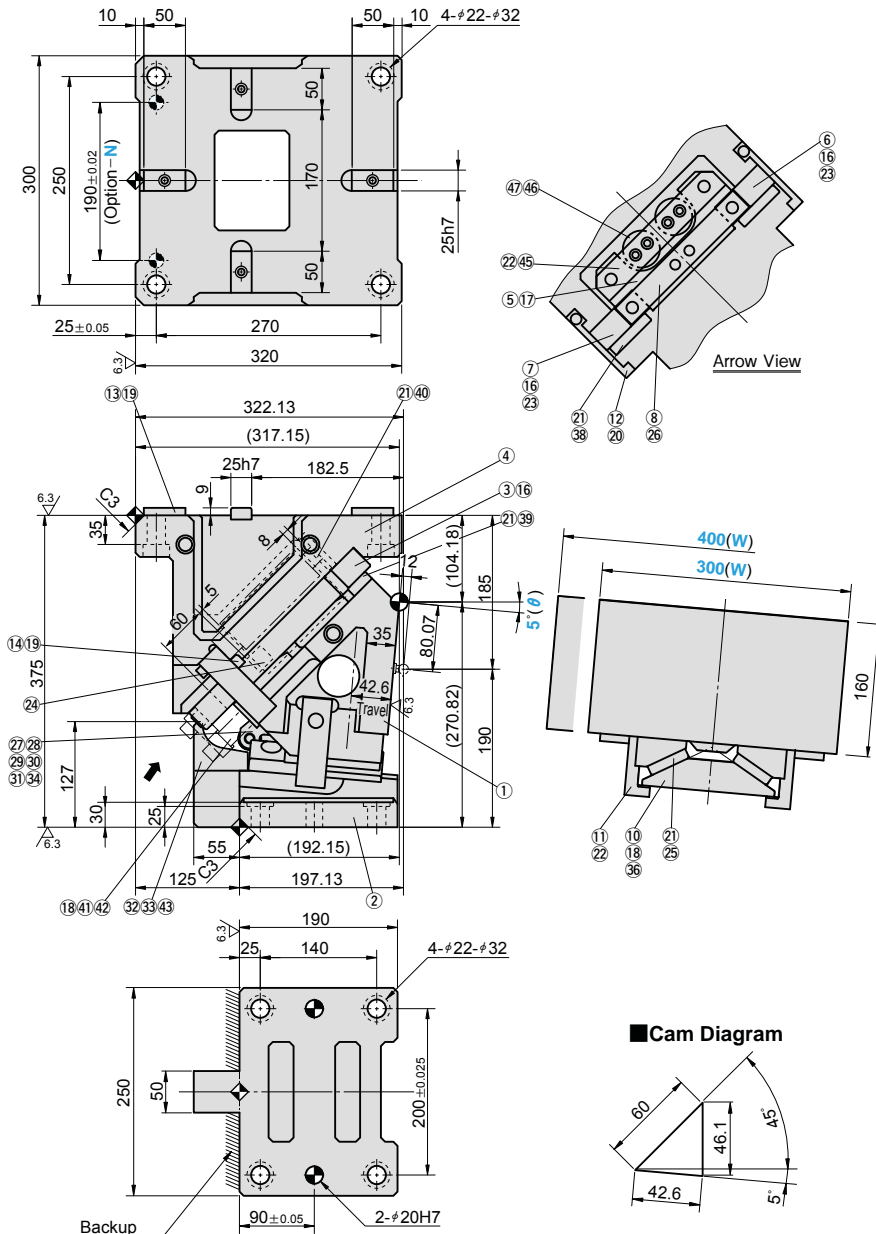
No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
27	Roller	1	S45C(1045)
28	Roller Pin	1	S45C(1045)
29	Bushing	1	Bronze with Graphite(SO#50SP2) SOB12-18-16
31	Roller Bracket	1	SS400(1020)
32	Roller Driver	1	S45C(1045)
34	Snap Ring F type	2	φ9
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table.

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

Space for removing



UCMSNR300-05  
UCMSNR400-05



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
42.6	451.1 (46.0)	-	10668.0 (1087.8)	152.5 (54.8)	159.5 (59.2)	UCMSNR	300 400	05	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	05	-	GK
UCMSNR	300	-	05	-	NGK
UCMSNR	300	-	05	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

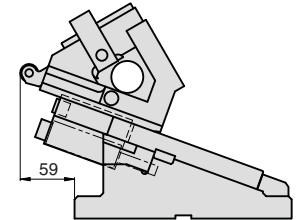
▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 05 - GK - N  
UCMSNR300 - 05 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

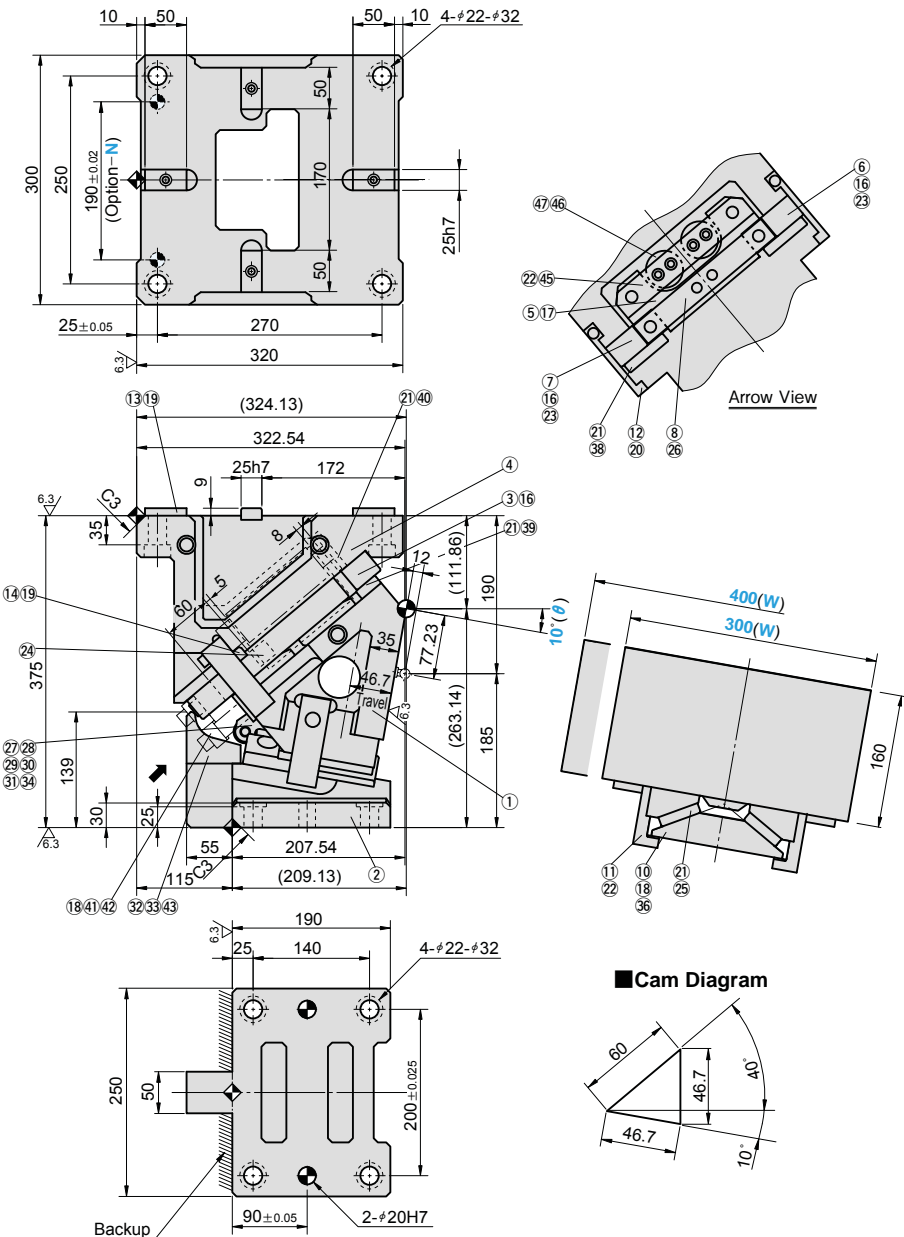
### Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250
②	Cam Driver	1	FC250
③	Base Plate C	1	S45C(1045)
④	Cam Holder	1	FC250
⑤	Spring Guide	1	Bronze with Graphite(SO#50SP2)
⑥	Base Plate F-R	1	S45C(1045)
⑦	Base Plate F-L	1	S45C(1045)
⑧	Stopper Plate	1	SS400(1020)
⑩	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
⑪	Positive Return Follower	2	S45C(1045)
⑫	Safety Plate	2	SS400(1020)
⑬	Key A	4	SS400(1020)
⑭	Key B	2	SS400(1020)
⑳	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
27	Roller	1	S45C(1045)
28	Roller Pin	1	S45C(1045)
29	Bushing	1	Bronze with Graphite(SO#50SP2) SOB12-18-16
31	Roller Bracket	1	SS400(1020)
32	Roller Driver	1	S45C(1045)
34	Snap Ring F type	2	φ9
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table.

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

UCMSNR300-10  
UCMSNR400-10



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
46.7	451.1 (46.0)	-	10668.0 (1087.8)	151.4 (54.8)	158.4 (59.2)	UCMSNR	300 400	10	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	10	-	GK
UCMSNR	300	-	10	-	NGK
UCMSNR	300	-	10	-	NISO

.....Without gas spring  
 .....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

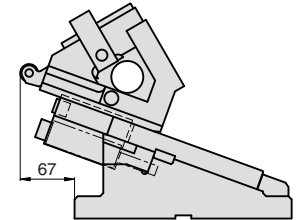
▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 10 - GK - N  
UCMSNR300 - 10 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

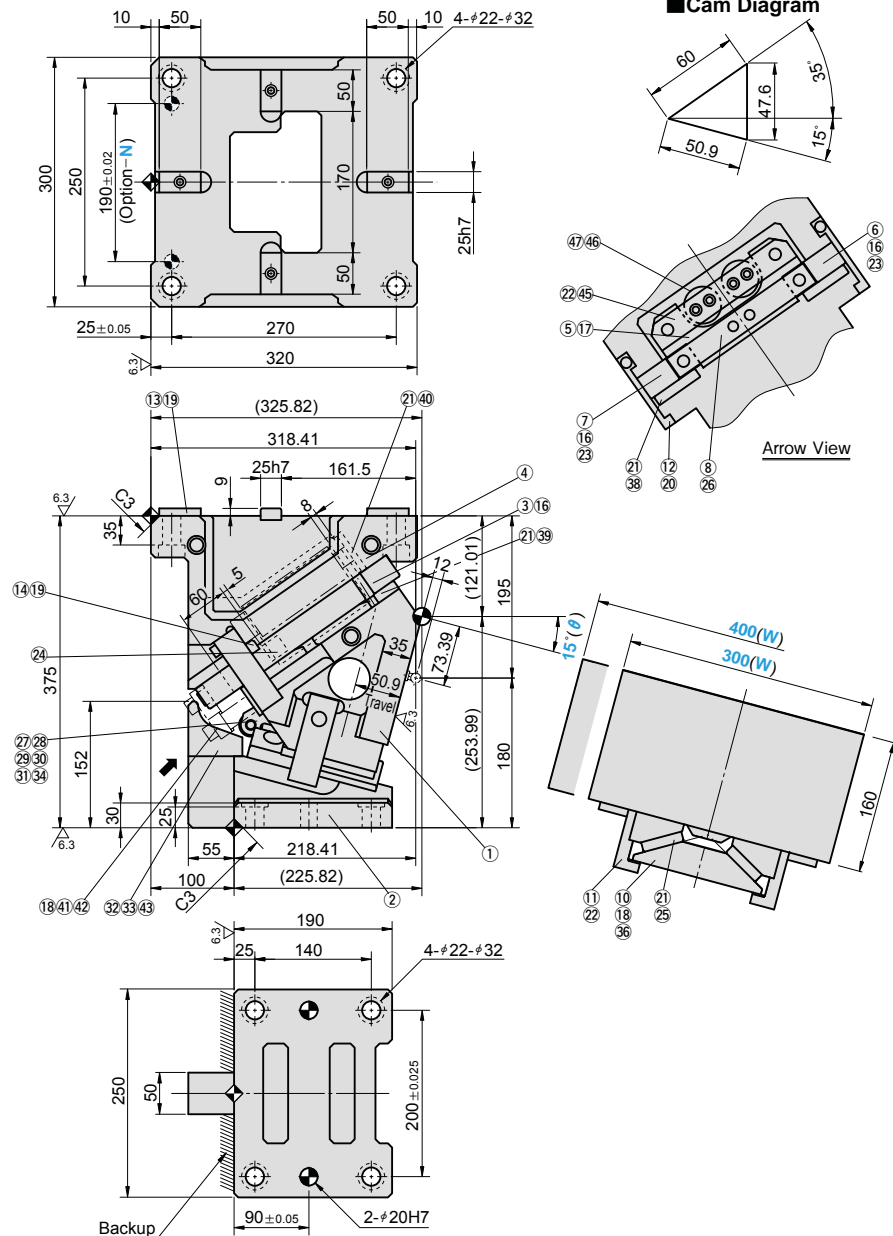
### Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
27	Roller	1	S45C(1045)
28	Roller Pin	1	S45C(1045)
29	Bushing	1	Bronze with Graphite (SO#50SP2) SOB12-18-16
31	Roller Bracket	1	SS400(1020)
32	Roller Driver	1	S45C(1045)
34	Snap Ring F type	2	φ9
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table.

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

UCMSNR300-15  
UCMSNR400-15



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
50.9	451.1 (46.0)	-	10668.0 (1087.8)	154.1 (54.8)	161.1 (59.2)	UCMSNR	300 400	15	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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

Order

Catalog No.	(W)	(θ)	G
UCMSNR	400	15	GK
UCMSNR	300	15	NGK
UCMSNR	300	15	NISO

.....Without gas spring  
.....Without coil spring

Option

Option Code	Specification
N	#16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.

Order UCMSNR300-15-GK-N  
UCMSNR300-15-GK-NF

Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

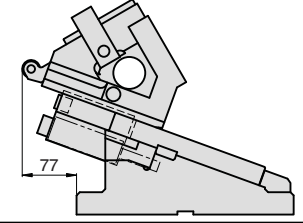
Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

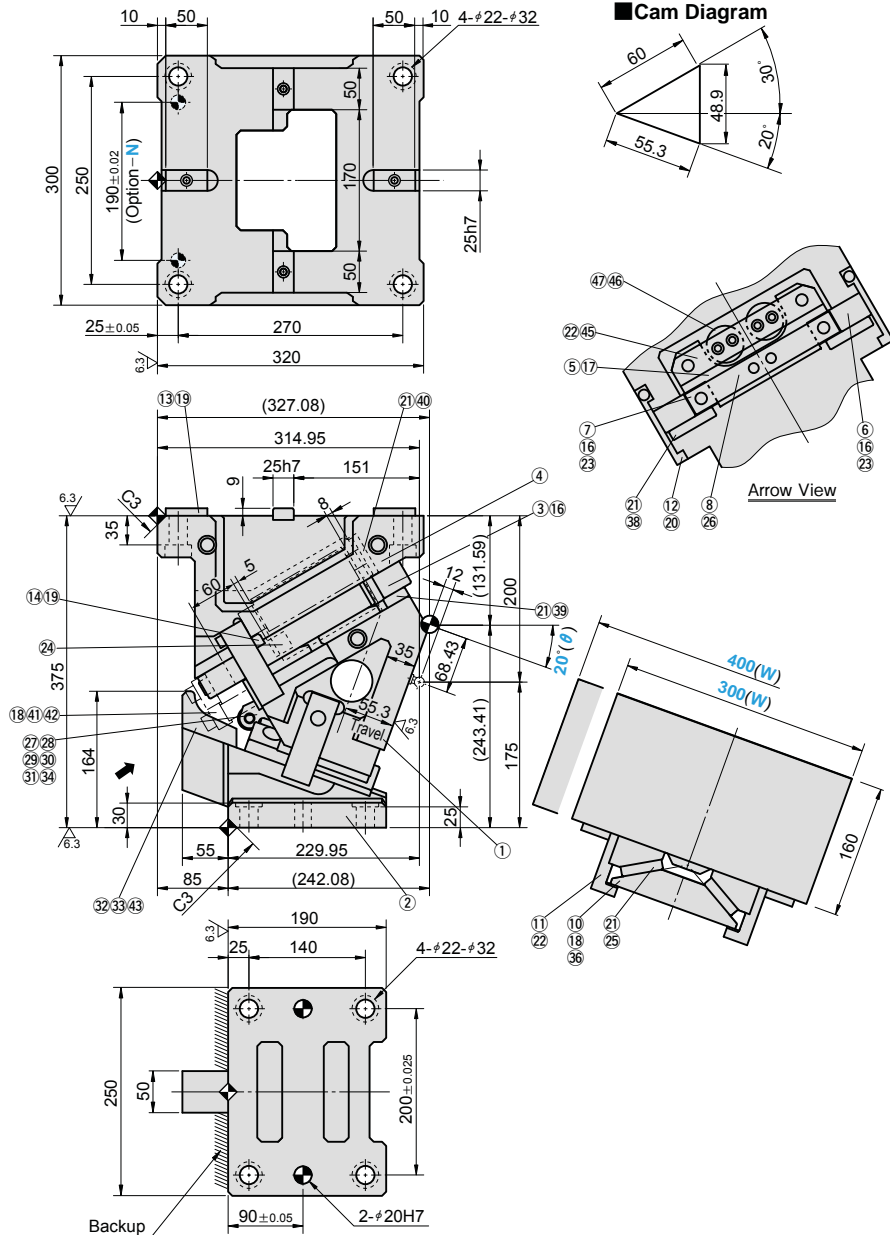
No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
27	Roller	1	S45C(1045)
28	Roller Pin	1	S45C(1045)
29	Bushing	1	Bronze with Graphite(SO#50SP2) SOB12-18-16
31	Roller Bracket	1	SS400(1020)
32	Roller Driver	1	S45C(1045)
34	Snap Ring F type	2	#9
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table.

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

Space for removing



UCMSNR300-20  
UCMSNR400-20



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
55.3	451.1 (46.0)	-	10668.0 (1087.8)	148.2 (54.8)	155.2 (59.2)	UCMSNR	300 400	20	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	20	-	GK
UCMSNR	300	-	20	-	NGK
UCMSNR	300	-	20	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 20 - GK - N  
UCMSNR300 - 20 - GK - NF

### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

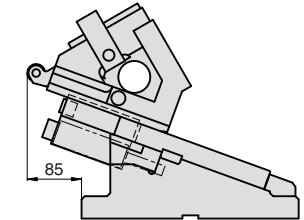
### Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

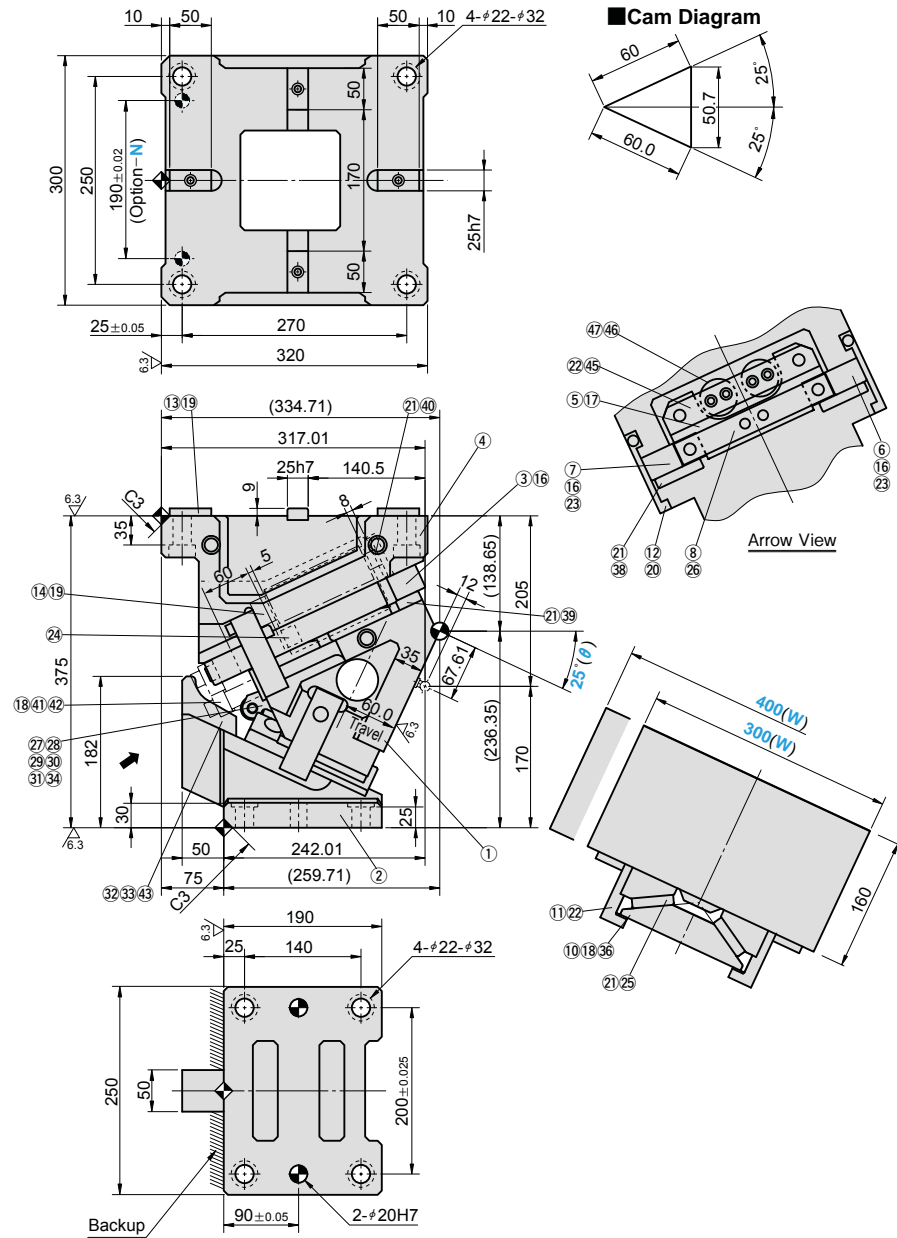
No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
27	Roller	1	S45C(1045)
28	Roller Pin	1	S45C(1045)
29	Bushing	1	Bronze with Graphite (SO#50SP2) SOB12-18-16
31	Roller Bracket	1	SS400(1020)
32	Roller Driver	1	S45C(1045)
34	Snap Ring F type	2	#9
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table.

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

### Space for removing



UCMSNR300-25  
UCMSNR400-25



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
60.0	451.1 (46.0)	-	10668.0 (1087.8)	150.2 (54.8)	157.3 (59.2)	UCMSNR	300 400	25	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	25	-	GK
UCMSNR	300	-	25	-	NGK
UCMSNR	300	-	25	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 25 - GK - N  
UCMSNR300 - 25 - GK - NF

### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

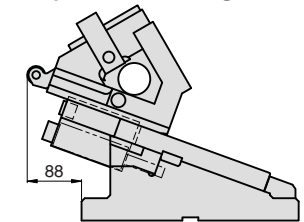
### Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250
②	Cam Driver	1	FC250
③	Base Plate C	1	S45C(1045)
④	Cam Holder	1	FC250
⑤	Spring Guide	1	Bronze with Graphite(SO#50SP2)
⑥	Base Plate F-R	1	S45C(1045)
⑦	Base Plate F-L	1	S45C(1045)
⑧	Stopper Plate	1	SS400(1020)
⑩	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
⑪	Positive Return Follower	2	S45C(1045)
⑫	Safety Plate	2	SS400(1020)
⑬	Key A	4	SS400(1020)
⑭	Key B	2	SS400(1020)
⑳	Stopper	3	Urethane

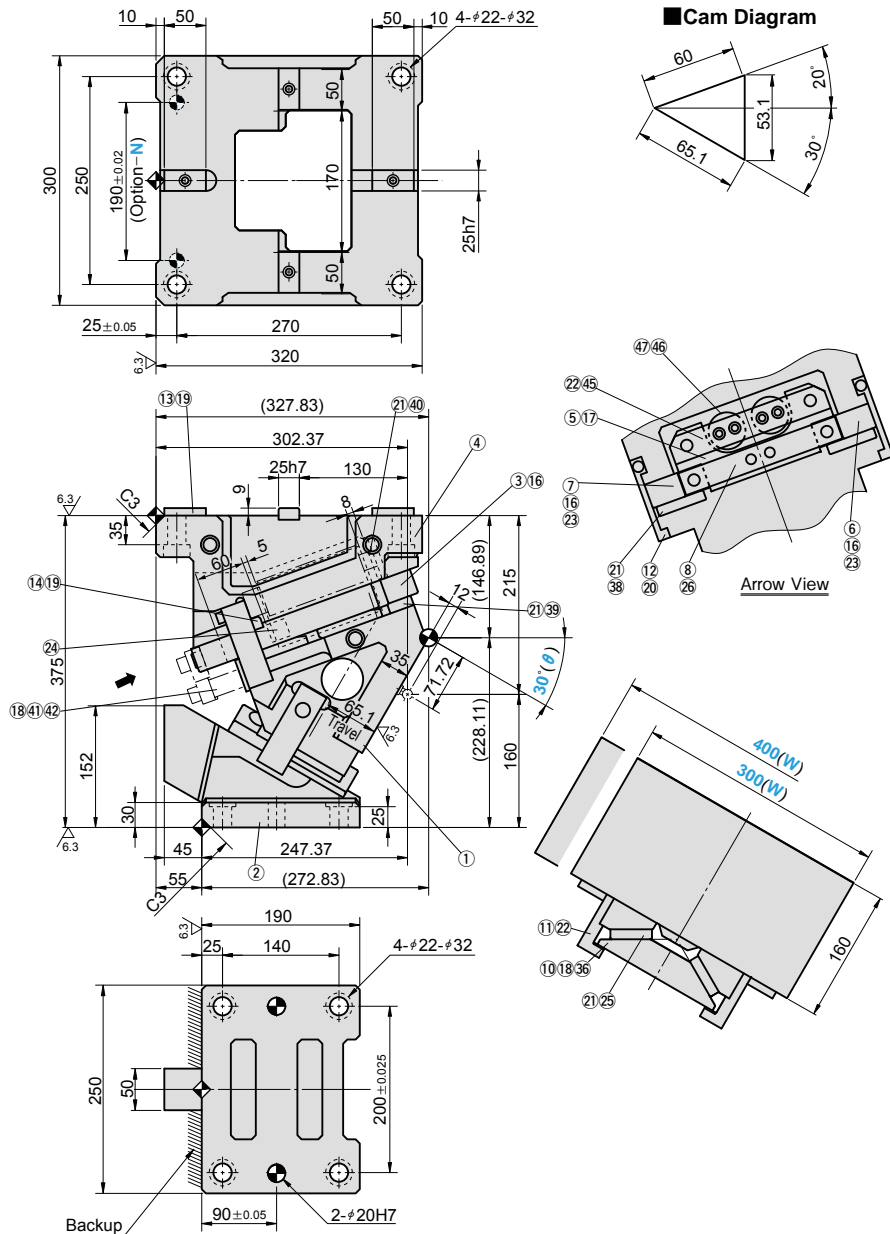
No.	Description	Qty	Material and Remark
㉕	Slide Plate	2	S45C(1045)
㉗	Roller	1	S45C(1045)
㉘	Roller Pin	1	S45C(1045)
㉙	Bushing	1	Bronze with Graphite (SO#50SP2), SOB12-18-16
㉚	Roller Bracket	1	SS400(1020)
㉛	Roller Driver	1	S45C(1045)
㉜	Snap Ring F type	2	φ9
㉞	Wear Plate A	4	VDI 60×80×12
㉟	Wear Plate B	1	VDI 30×160×12
㊱	Spring Support	1	SS400(1020)
㊲	Slide Lock Plate	1	SS400(1020)
㊳	Spring Guide Plate	1	SS400(1020)
㊴	Spring	1	Refer to the Spring Specification Table.

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

### Space for removing



UCMSNR300-30  
UCMSNR400-30



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
65.1	451.1 (46.0)	-	10668.0 (1087.8)	147.3 (54.8)	154.3 (59.2)	UCMSNR	300 400	30	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	30	-	GK
UCMSNR	300	-	30	-	NGK
UCMSNR	300	-	30	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

⚠ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 30 - GK - N  
UCMSNR300 - 30 - GK - NF

### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

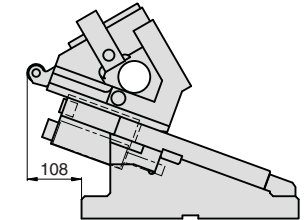
### Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

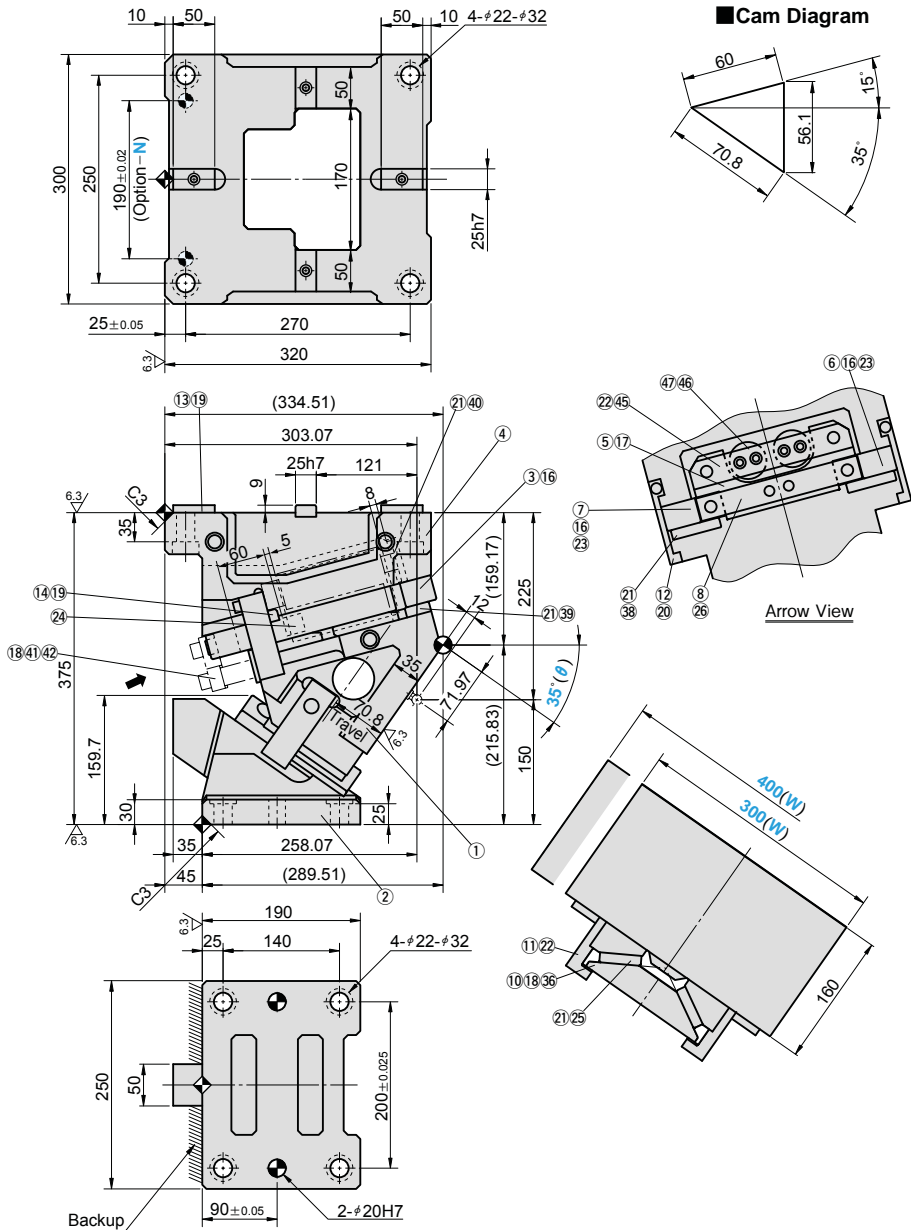
No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table.

⚠ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

### Space for removing



UCMSNR300-35  
UCMSNR400-35



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
70.8	451.1 (46.0)	-	10668.0 (1087.8)	148.0 (54.8)	155.0 (59.2)	UCMSNR	300 400	35	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
-	-	-	-	NGK*					
-	-	-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	35	-	GK
UCMSNR	300	-	35	-	NGK
UCMSNR	300	-	35	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

⚠ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 35 - GK - N  
UCMSNR300 - 35 - GK - NF

### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

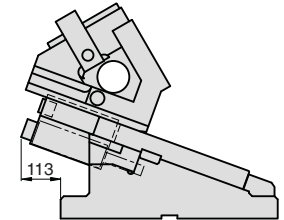
### Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250
②	Cam Driver	1	FC250
③	Base Plate C	1	S45C(1045)
④	Cam Holder	1	FC250
⑤	Spring Guide	1	Bronze with Graphite(SO#50SP2)
⑥	Base Plate F-R	1	S45C(1045)
⑦	Base Plate F-L	1	S45C(1045)
⑧	Stopper Plate	1	SS400(1020)
⑩	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
⑪	Positive Return Follower	2	S45C(1045)
⑫	Safety Plate	2	SS400(1020)
⑬	Key A	4	SS400(1020)
⑭	Key B	2	SS400(1020)
⑳	Stopper	3	Urethane

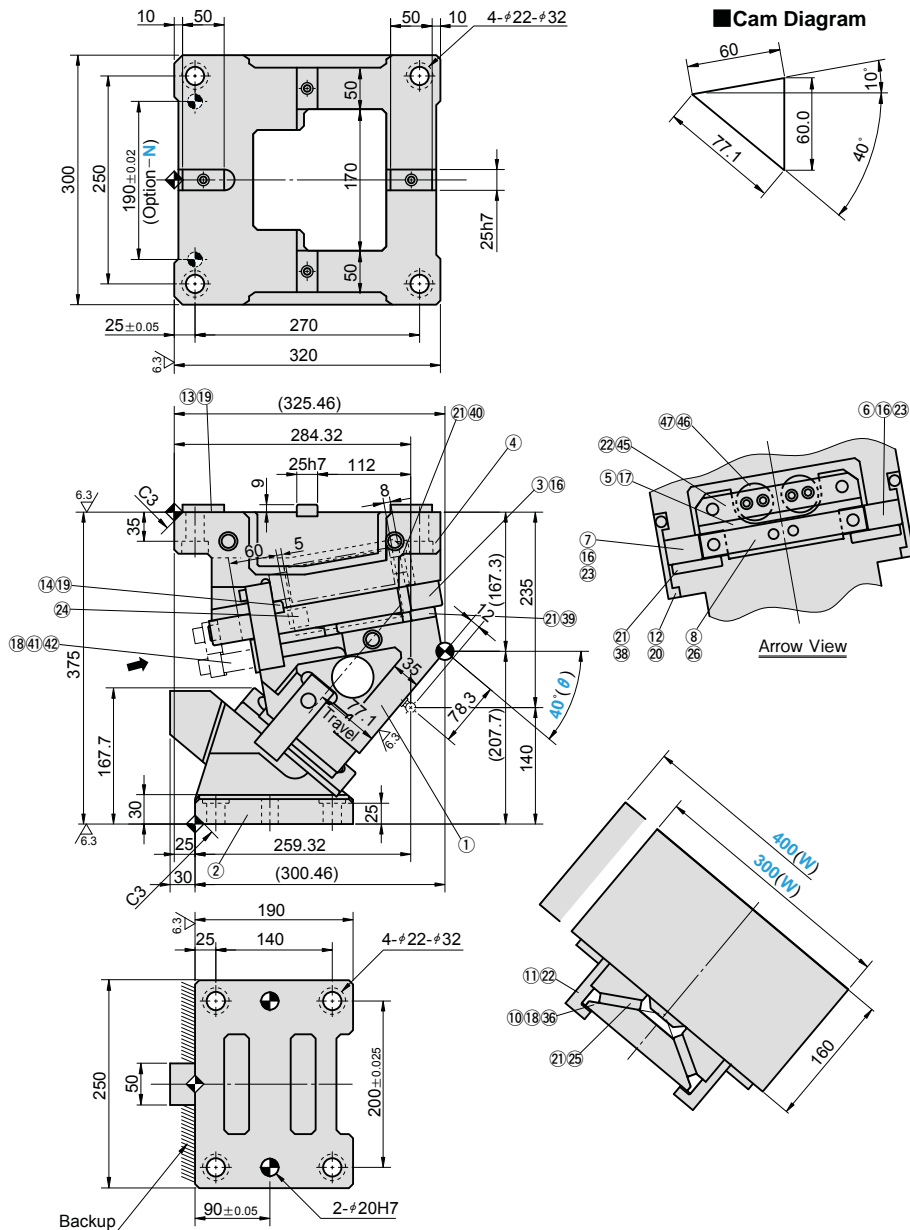
No.	Description	Qty	Material and Remark
㉕	Slide Plate	2	S45C(1045)
㉘	Wear Plate A	4	VDI 60×80×12
㉙	Wear Plate B	1	VDI 30×160×12
㉚	Spring Support	1	SS400(1020)
㉛	Slide Lock Plate	1	SS400(1020)
㉜	Spring Guide Plate	1	SS400(1020)
㉞	Spring	1	Refer to the Spring Specification Table

⚠ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

### Space for removing



UCMSNR300-40  
UCMSNR400-40



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
		-	10668.0 (1087.8)						GK
77.1	451.1 (46.0)	1314.1 (134.0)	9198.0 (937.9)	146.2 (54.8)	153.3 (59.2)	UCMSNR	300 400	40	ISO NGK* NISO*

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	40	-	GK
UCMSNR	300	-	40	-	NGK
UCMSNR	300	-	40	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

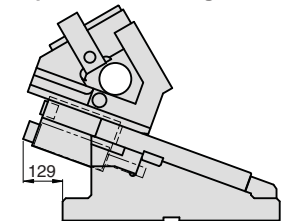
▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 40 - GK - N  
UCMSNR300 - 40 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

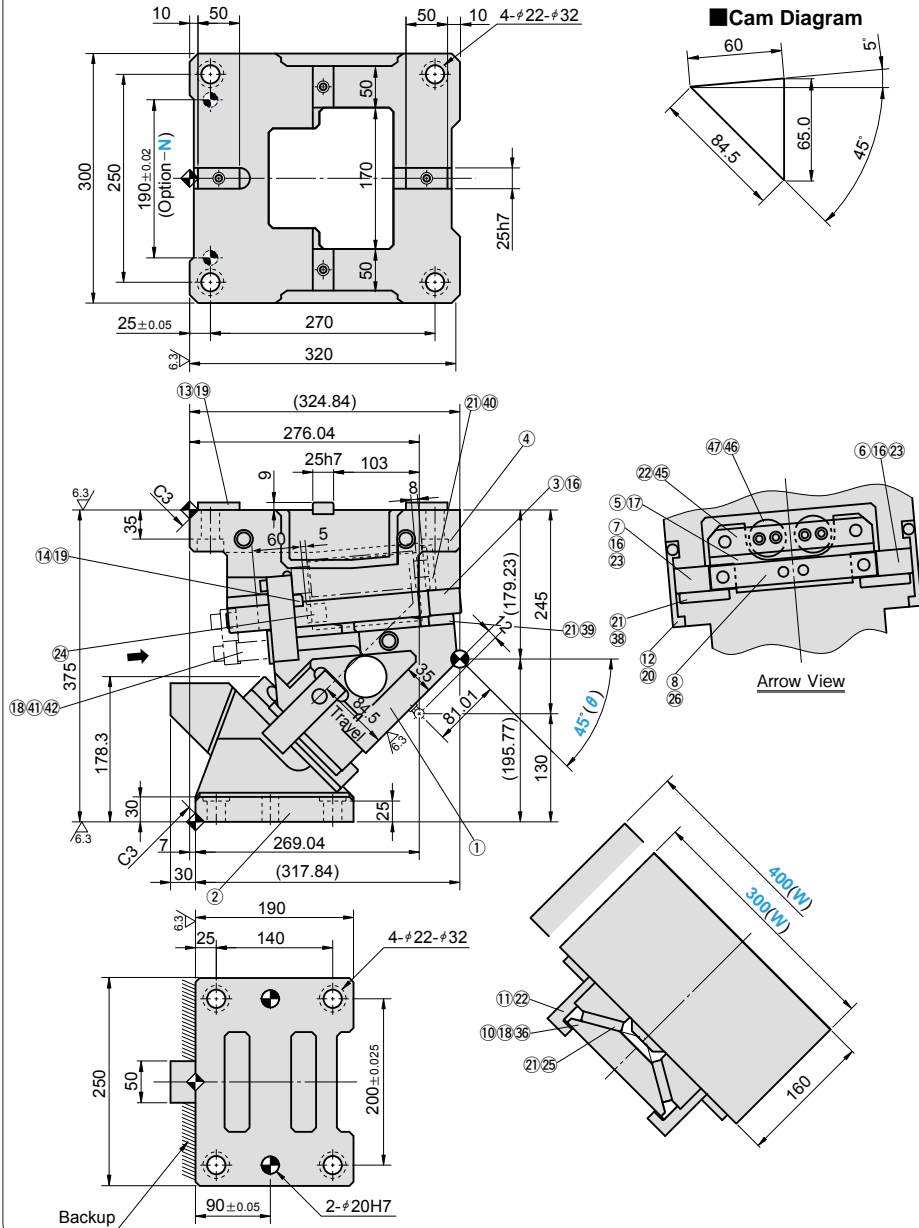
### Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

UCMSNR300-45  
UCMSNR400-45



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
84.5	451.1 (46.0)	-	10668.0 (1087.8)	148.6 (54.8)	155.6 (59.2)	UCMSNR	300 400	45	GK
		1314.1 (134.0)	9198.0 (937.9)						ISO
-	-	-	-	NGK*					
-	-	-	-	NISO*					

Mark \*

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	45	-	GK
UCMSNR	300	-	45	-	NGK
UCMSNR	300	-	45	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

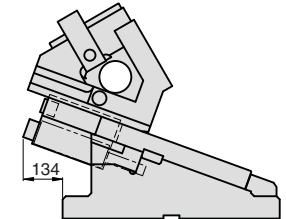
⚠ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 45 - GK - N  
UCMSNR300 - 45 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

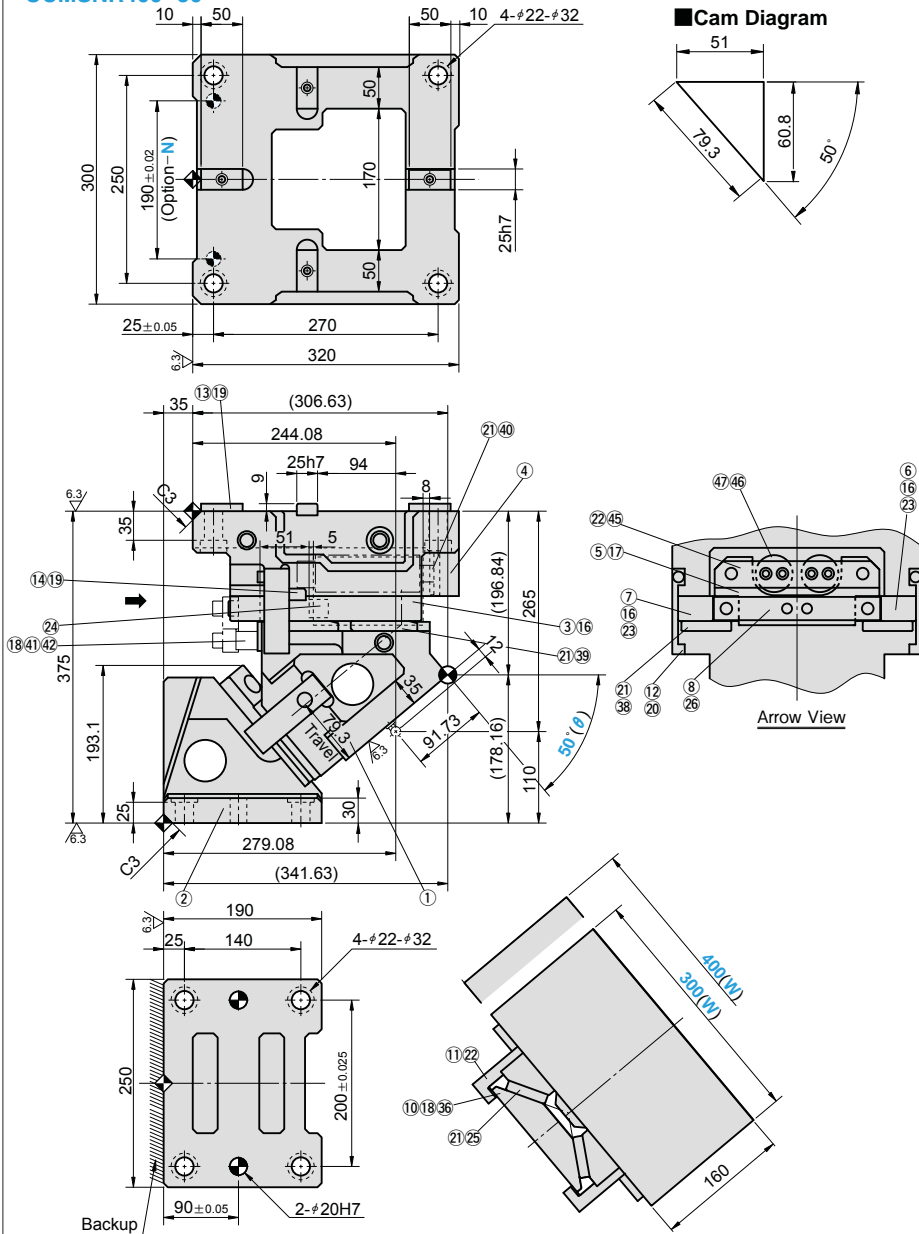
### Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table

⚠ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

UCMSNR300-50  
UCMSNR400-50



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W=300	For W=400				
79.3	451.1 (46.0)	-	10668.0 (1087.8)	122.5 (55.9)	127.7 (60.3)	UCMSNR	300 400	50	GK
		1314.1 (134.0)	8015.4 (817.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	50	-	GK
UCMSNR	300	-	50	-	NGK
UCMSNR	300	-	50	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

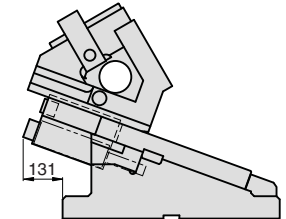
▲ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 50 - GK - N  
UCMSNR300 - 50 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

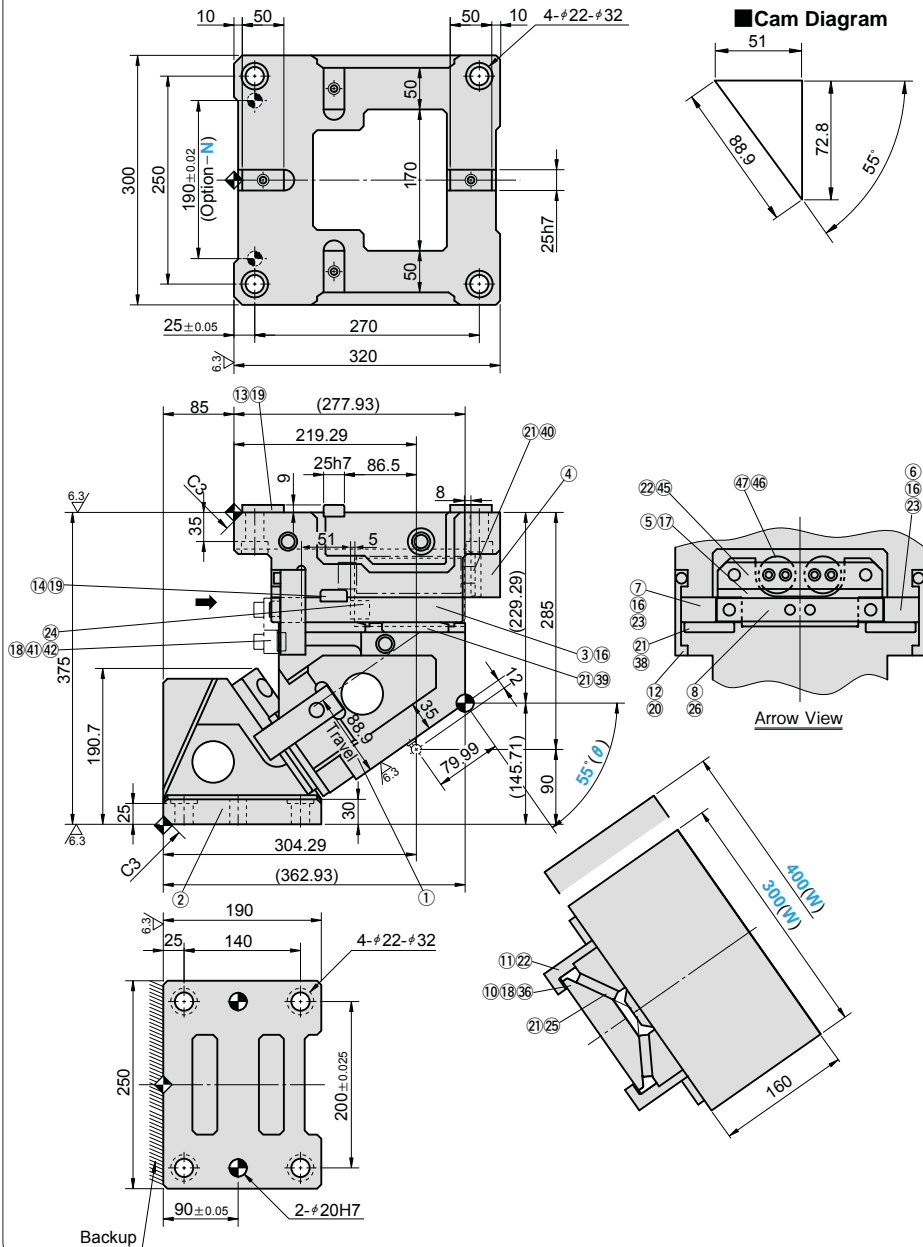
### Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250
②	Cam Driver	1	FC250
③	Base Plate C	1	S45C(1045)
④	Cam Holder	1	FC250
⑤	Spring Guide	1	Bronze with Graphite(SO#50SP2)
⑥	Base Plate F-R	1	S45C(1045)
⑦	Base Plate F-L	1	S45C(1045)
⑧	Stopper Plate	1	SS400(1020)
⑩	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
⑪	Positive Return Follower	2	S45C(1045)
⑫	Safety Plate	2	SS400(1020)
⑬	Key A	4	SS400(1020)
⑭	Key B	2	SS400(1020)
⑳	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
㉕	Slide Plate	2	S45C(1045)
㉞	Wear Plate A	4	VDI 60×80×12
㉟	Wear Plate B	1	VDI 30×160×12
㊱	Spring Support	1	SS400(1020)
㊲	Slide Lock Plate	1	SS400(1020)
㊳	Spring Guide Plate	1	SS400(1020)
㊴	Spring	1	Refer to the Spring Specification Table

▲ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

UCMSNR300-55  
UCMSNR400-55



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
88.9	451.1 (46.0)	-	10668.0 (1087.8)	130.9 (62.2)	135.9 (66.6)	UCMSNR	300 400	55	GK
		1314.1 (134.0)	8015.4 (817.9)						ISO
-	-	-	-	NGK*					
-	-	-	-	NISO*					

Mark \*

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	55	-	GK
UCMSNR	300	-	55	-	NGK
UCMSNR	300	-	55	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

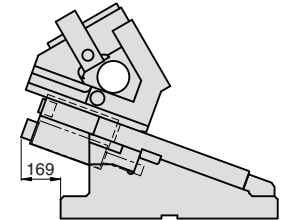
⚠ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 55 - GK - N  
UCMSNR300 - 55 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

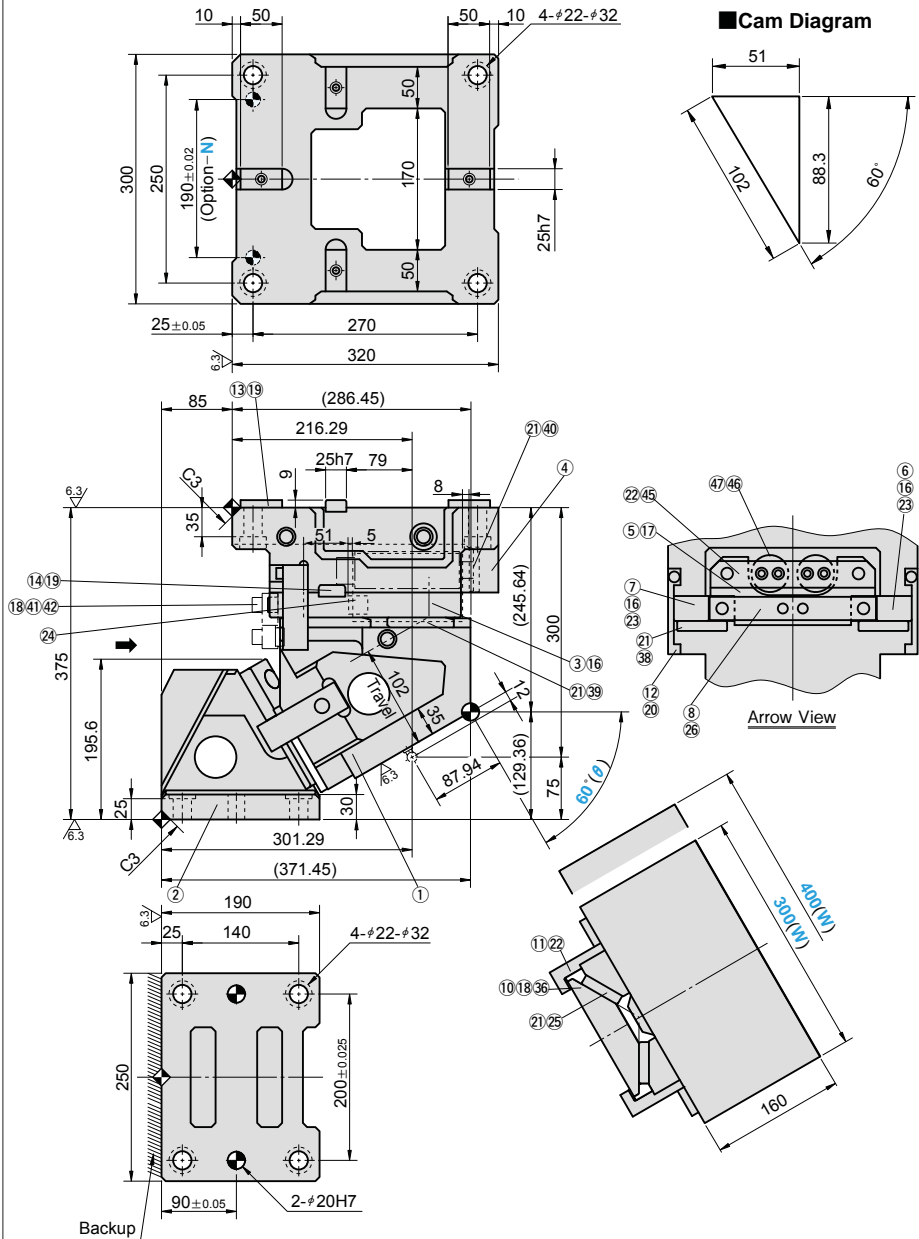
### Table of Components

No.	Description	Qty	Material and Remark
1	Cam Slider	1	FC250
2	Cam Driver	1	FC250
3	Base Plate C	1	S45C(1045)
4	Cam Holder	1	FC250
5	Spring Guide	1	Bronze with Graphite(SO#50SP2)
6	Base Plate F-R	1	S45C(1045)
7	Base Plate F-L	1	S45C(1045)
8	Stopper Plate	1	SS400(1020)
10	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
11	Positive Return Follower	2	S45C(1045)
12	Safety Plate	2	SS400(1020)
13	Key A	4	SS400(1020)
14	Key B	2	SS400(1020)
24	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
25	Slide Plate	2	S45C(1045)
38	Wear Plate A	4	VDI 60×80×12
39	Wear Plate B	1	VDI 30×160×12
40	Spring Support	1	SS400(1020)
41	Slide Lock Plate	1	SS400(1020)
45	Spring Guide Plate	1	SS400(1020)
46	Spring	1	Refer to the Spring Specification Table

⚠ Bolts for assembly are not indicated. Part numbers are shown on the drawing.

UCMSNR300-60  
UCMSNR400-60



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Total Weight (Slider Weight)kg		Catalog No.	(W)	(θ)	Spring Type G
		Initial Load	Final Load	For W = 300	For W = 400				
102.0	451.1 (46.0)	-	10668.0 (1087.8)	135.3 (68.0)	140.4 (72.4)	UCMSNR	300 400	60	GK
		1314.1 (134.0)	8015.4 (817.9)						ISO
		-	-	NGK*					
		-	-	NISO*					

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



Order

Catalog No.	(W)	-	(θ)	-	G
UCMSNR	400	-	60	-	GK
UCMSNR	300	-	60	-	NGK
UCMSNR	300	-	60	-	NISO

.....Without gas spring  
.....Without coil spring



Option

Option Code	Specification
N	φ16H7 dowel hole is drilled on the cam holder.
NF	Nitrogen gas is not charged. - Applicable to GK only.

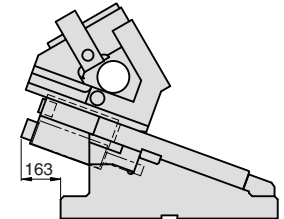
⚠ Gas Springs are not filled with nitrogen gas if delivery is by air freight.



Order

UCMSNR300 - 60 - GK - N  
UCMSNR300 - 60 - GK - NF

■ Space for removing



### Spring Specification

No.	Spring Type	Model	Remark
46	GK	K500-80	Gas Spring (KALLER)
	ISO	TJM50-203	Coil Spring (constant = 65.7N/mm)

### Table of Components

No.	Description	Qty	Material and Remark
①	Cam Slider	1	FC250
②	Cam Driver	1	FC250
③	Base Plate C	1	S45C(1045)
④	Cam Holder	1	FC250
⑤	Spring Guide	1	Bronze with Graphite(SO#50SP2)
⑥	Base Plate F-R	1	S45C(1045)
⑦	Base Plate F-L	1	S45C(1045)
⑧	Stopper Plate	1	SS400(1020)
⑩	Cam Slide Guide	1	Bronze with Graphite(SO#50SP2)
⑪	Positive Return Follower	2	S45C(1045)
⑫	Safety Plate	2	SS400(1020)
⑬	Key A	4	SS400(1020)
⑭	Key B	2	SS400(1020)
⑳	Stopper	3	Urethane

No.	Description	Qty	Material and Remark
㉕	Slide Plate	2	S45C(1045)
㉘	Wear Plate A	4	VDI 60×80×12
㉙	Wear Plate B	1	VDI 30×160×12
㉚	Spring Support	1	SS400(1020)
㉛	Slide Lock Plate	1	SS400(1020)
㉜	Spring Guide Plate	1	SS400(1020)
㉞	Spring	1	Refer to the Spring Specification Table

⚠ Bolts for assembly are not indicated. Part numbers are shown on the drawing.