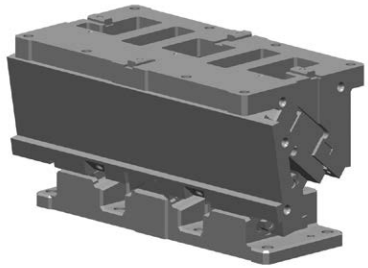
UCMSL [Overview]

Large Type

For Pierce | For Trim | For Flange

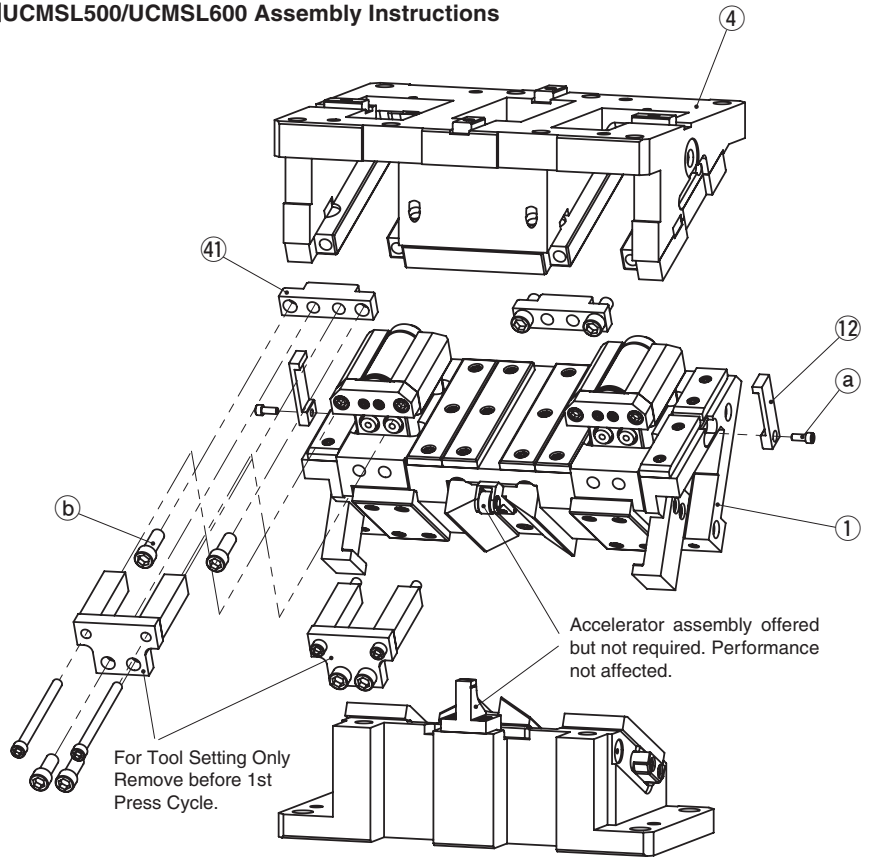
Product Information



- Mount face widths from 500 to 1000 mm in 100 mm increments.
- Working angles from 0° to 60° in 5° increments.
- Gas Spring is removable from the rear without disassembling.
- 1600 mm wide or smaller available on demand.
- 65°, 70°, 75° upon request.

Mount Face W	Mount Face H	Working Angle	Travel	Working Force kN (tonf)	Spring Force N (kgf)
		00	38.6		
		05	42.6		
		10	46.7		
		15	50.9		
		20	55.3		
		25	60.0		
500 600	180	30	65.1	313.6 (32.0)	18682.0 (1906.3)
		35	70.8		
		40	77.1		
		45	84.5		
		50	93.3		
		55	104.6		
		60	120.0		
		00	38.6		
		05	42.6		
		10	46.7		
		15	50.9		
		20	55.3		
		25	60.0		
700 800	180	30	65.1	470.4 (48.0)	28023.0 (2859.5)
		35	70.8		
		40	77.1		
		45	84.5		
		50	93.3		
		55	104.6		
		60	120.0		
		00	38.6		
		05	42.6		
		10	46.7		
		15	50.9		
		20	55.3		
		25	60.0		
900 1000	180	30	65.1	627.2 (64.0)	37364.0 (3812.7)
		35	70.8		
		40	77.1		
		45	84.6		
		50	93.3		
		55	104.6		
		60	120.0		

■UCMSL500/UCMSL600 Assembly Instructions



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

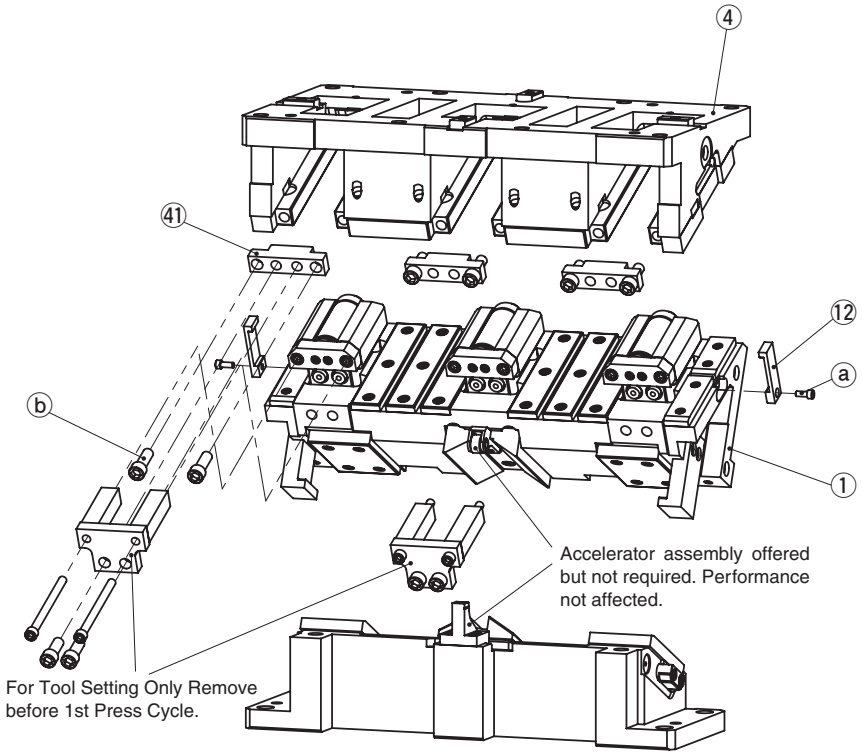
- Assembly

  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.

■UCMSL700/UCMSL800 Assembly Instructions



● Disassembly

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

● Assembly

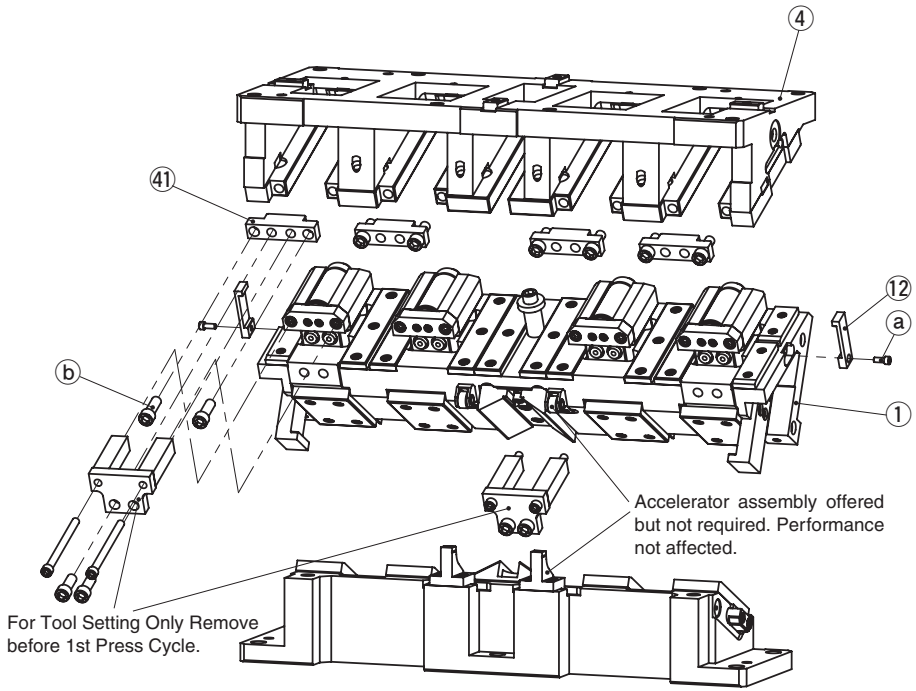
Assembly is the reverse procedure of disassembly.

- 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.

■UCMSL900/UCMSL1000 Assembly Instructions



● Disassembly

1) Remove Hexagon Socket Head Bolts (ⓐ), to pull out Safety Plate (⑫).
2) Remove Hexagon Socket Head Bolts (ⓑ), to pull out 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

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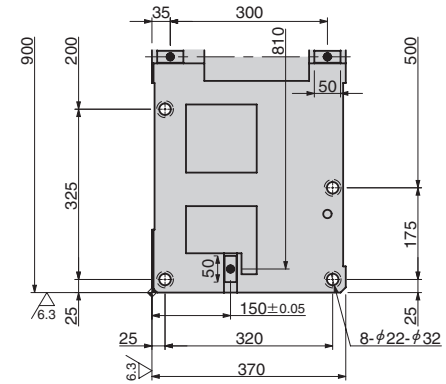
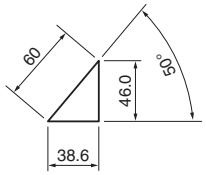
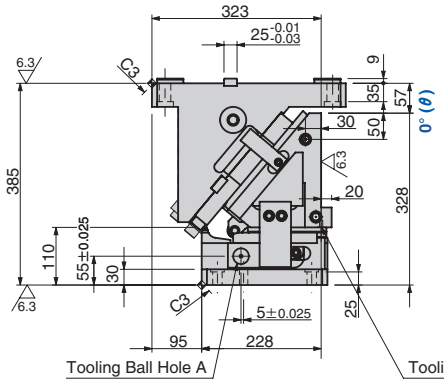
UCMSL900-00/UCMSL1000-00

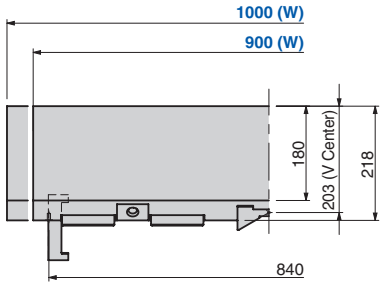


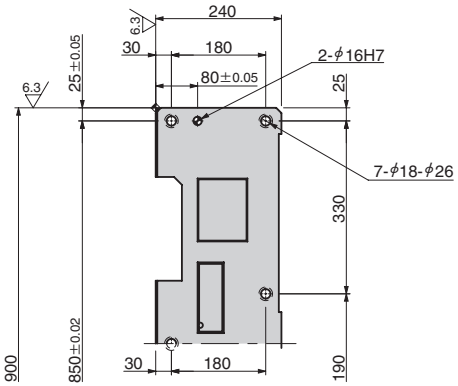
● Cam Diagram



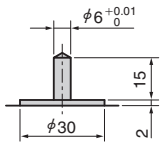
The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.



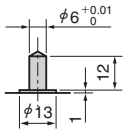




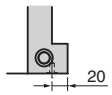
Tooling Ball Hole A



Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840



Refer to page 925 for Table of Components.

Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
38.6	627.2 (64.0)	—	37364 (3812.7)	51041 (5208.2)	UCMSL	900 1000	00	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	00	–	GK		
UCMSL	1000	–	00	–	NGK		
UCMSL	900	–	00	–	GK	–	NF

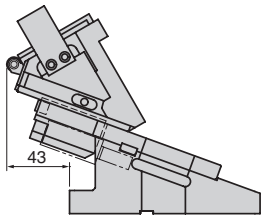
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

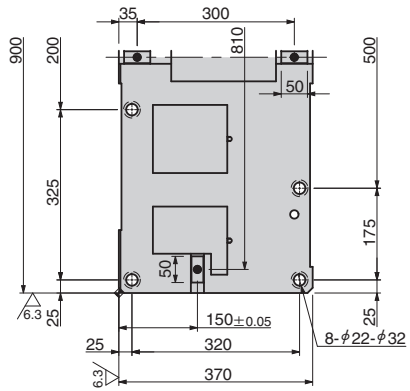
■Rear Removal Space

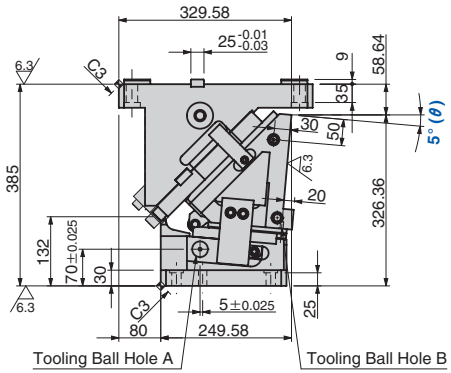


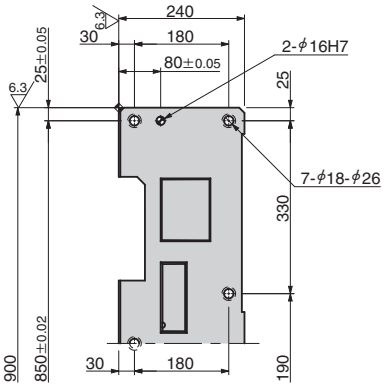
■Weight

W	Cam Slider Weight kg	Total Weight kg
900	199.5	463.3
1000	206.4	470.2

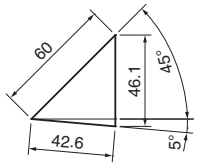
UCMSL900-05/UCMSL1000-05



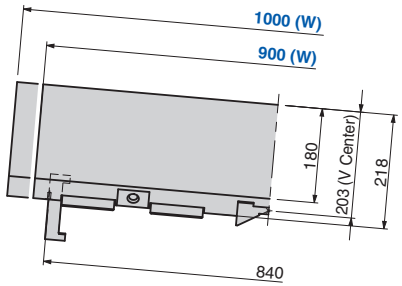


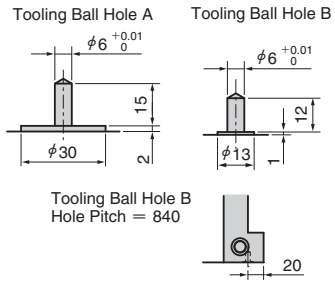


● Cam Diagram



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)	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load					
42.6	627.2 (64.0)	—	37364 (3812.7)	50864 (5190.2)	UCMSL	900 1000	05	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W		θ		PS		Option
UCMSL	900	—	05	—	GK		
UCMSL	1000	—	05	—	NGK		
UCMSL	900	—	05	—	GK	— NF	

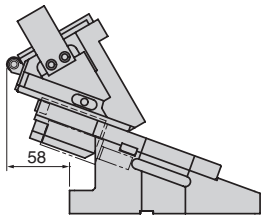
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

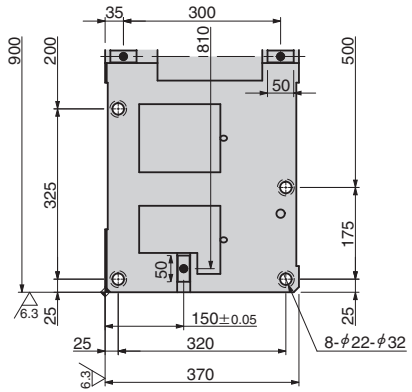


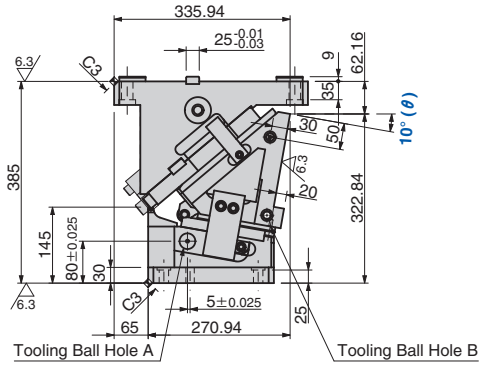
■Weight

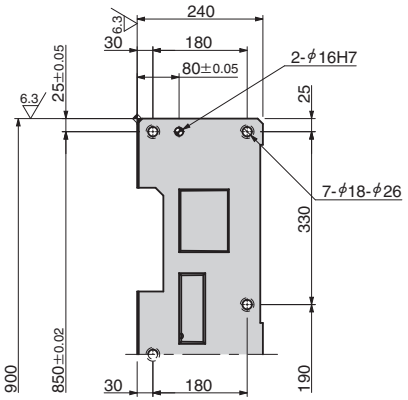
W	Cam Slider Weight kg	Total Weight kg
900	199.5	459.2
1000	206.4	466.1

Refer to page 925 for Table of Components.

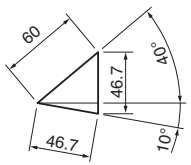
UCMSL900-10/UCMSL1000-10



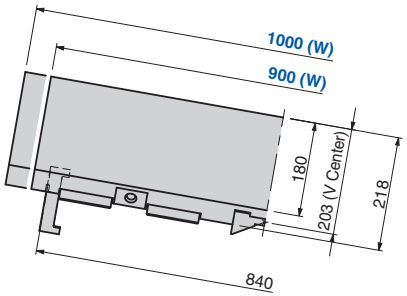


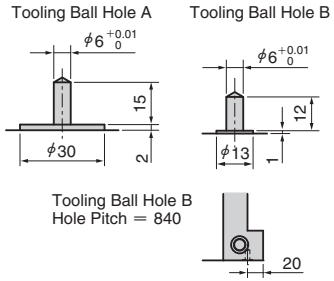


● Cam Diagram



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)	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load					
46.7	627.2 (64.0)	–	37364 (3812.7)	50675 (5170.9)	UCMSL	900 1000	10	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	10	–	GK		
UCMSL	1000	–	10	–	NGK		
UCMSL	900	–	10	–	GK	–	NF

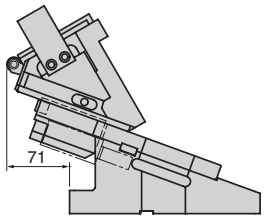
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

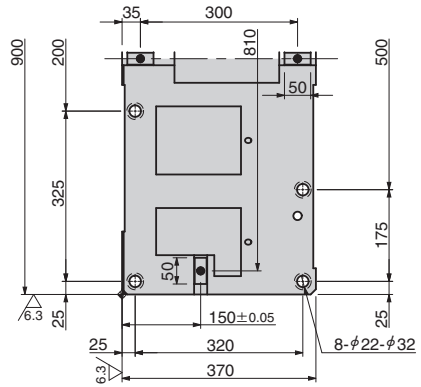


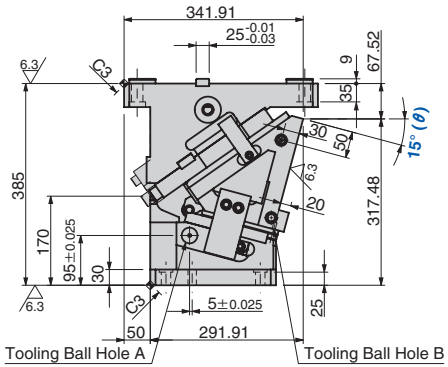
■Weight

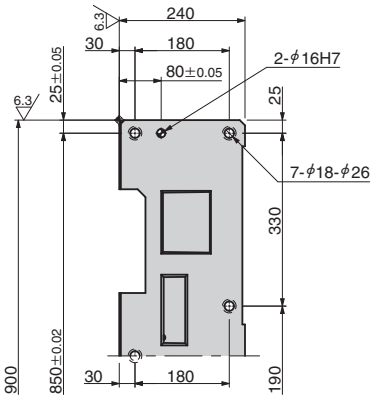
W	Cam Slider Weight kg	Total Weight kg
900	199.5	457.7
1000	206.4	464.6

Refer to page 925 for Table of Components.

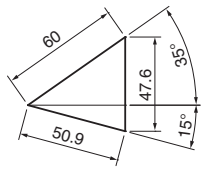
UCMSL900-15/UCMSL1000-15



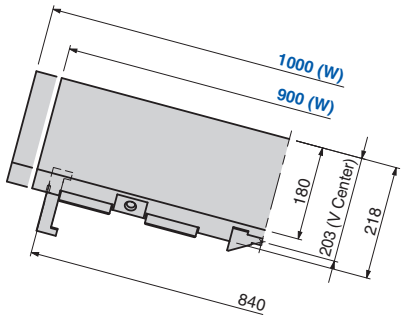


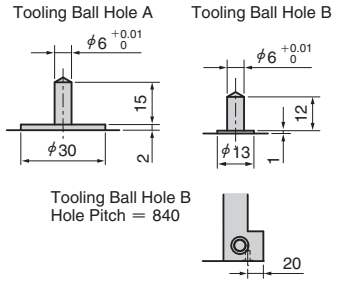


● Cam Diagram



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





Refer to page 925 for Table of Components.

Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
50.9	627.2 (64.0)	—	37364 (3812.7)	50476 (5150.6)	UCMSL	900 1000	15	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	15	–	GK		
UCMSL	1000	–	15	–	NGK		
UCMSL	900	–	15	–	GK	–	NF

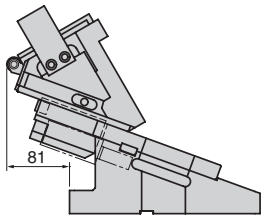
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

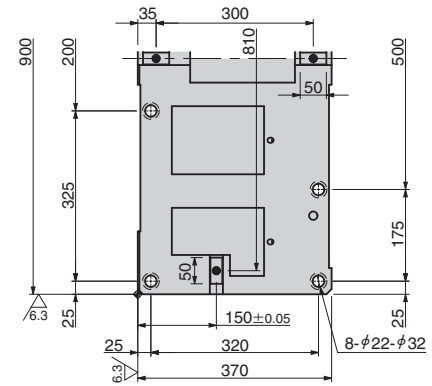
■Rear Removal Space

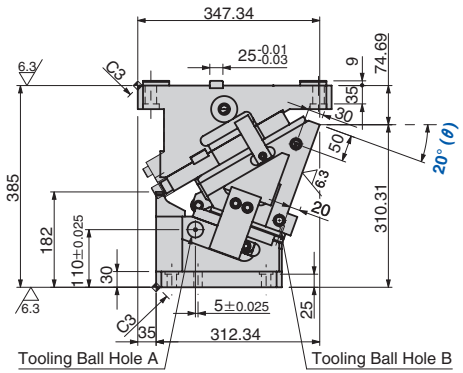


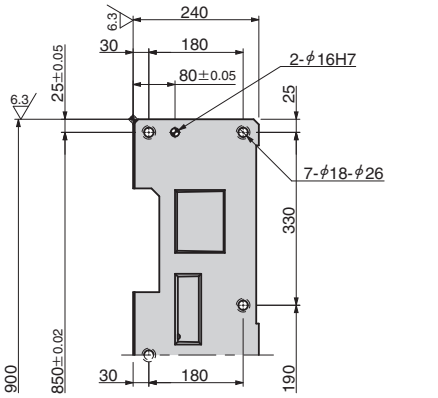
■Weight

W	Cam Slider Weight kg	Total Weight kg
900	199.5	457.8
1000	206.4	464.7

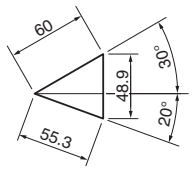
UCMSL900-20/UCMSL1000-20



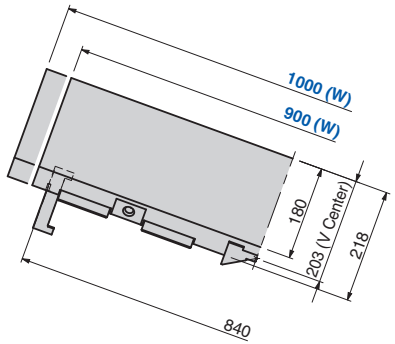


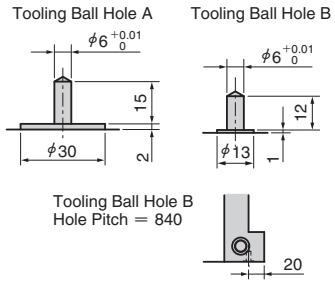


● Cam Diagram



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)	Catalog No.	W	θ	Spring Type PS
		Initial Load	Final Load					
55.3	627.2 (64.0)	—	37364 (3812.7)	50268 (5129.4)	UCMSL	900 1000	20	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W		θ		PS		Option
UCMSL	900	—	20	—	GK		
UCMSL	1000	—	20	—	NGK		
UCMSL	900	—	20	—	GK	—	NF

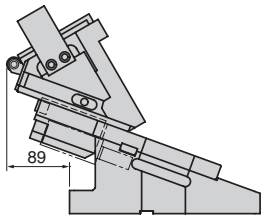
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

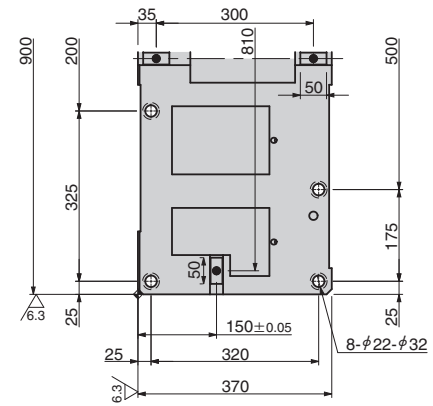


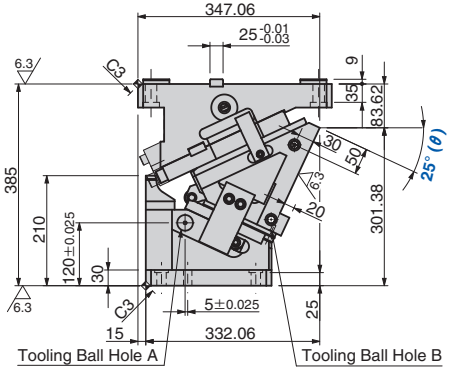
■Weight

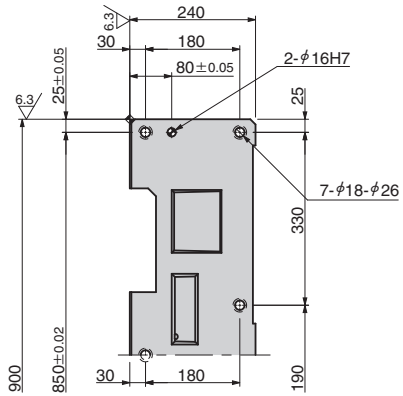
W	Cam Slider Weight kg	Total Weight kg
900	199.5	459.7
1000	206.4	466.5

Refer to page 925 for Table of Components.

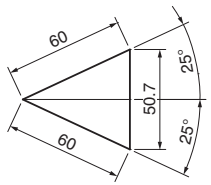
UCMSL900-25/UCMSL1000-25



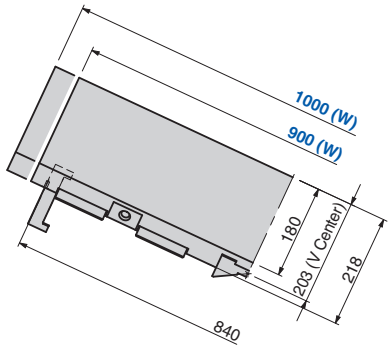


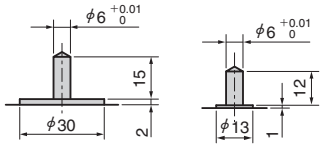


● Cam Diagram

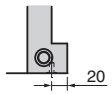


The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.





Tooling Ball Hole B
Hole Pitch = 840



Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
60.0	627.2 (64.0)	—	37364 (3812.7)	50052 (5107.4)	UCMSL	900 1000	25	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W		θ		PS		Option
UCMSL	900	—	25	—	GK		
UCMSL	1000	—	25	—	NGK		
UCMSL	900	—	25	—	GK	—	NF

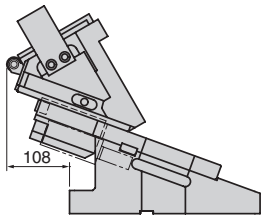
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

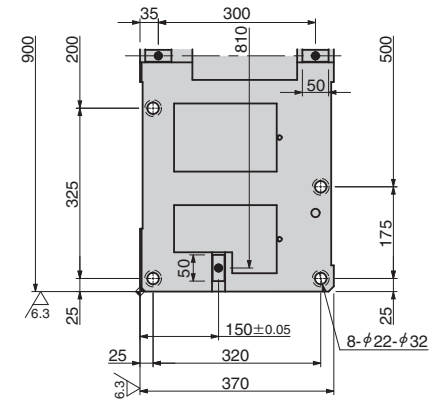


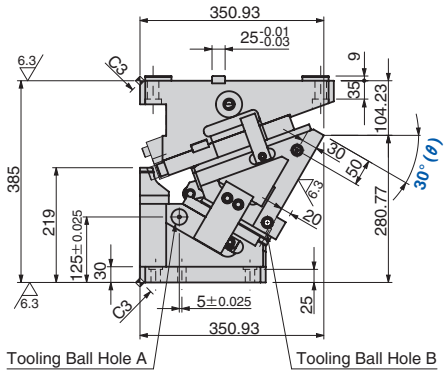
■Weight

W	Cam Slider Weight kg	Total Weight kg
900	199.5	461.5
1000	206.4	468.4

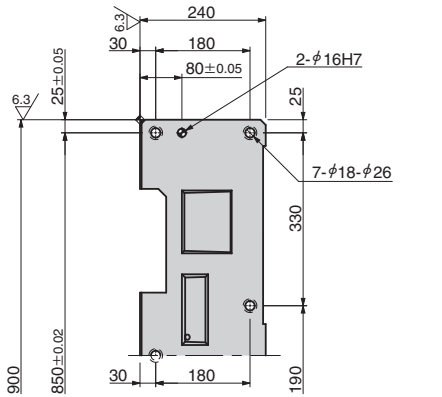
Refer to page 925 for Table of Components.

UCMSL900-30/UCMSL1000-30

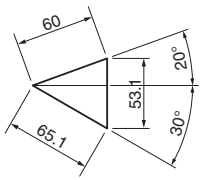




Tooling Ball Hole A　Tooling Ball Hole B

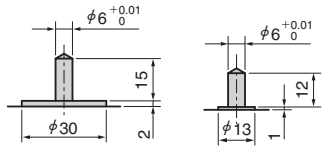


● Cam Diagram

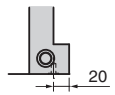


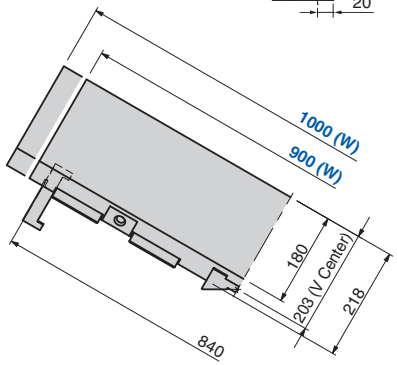
The Cam Diagram shows no Roller Bracket assemblies or Accelerators. If these items are needed, please contact local sales representative.

Tooling Ball Hole A　Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840





Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
65.1	627.2 (64.0)	—	37364 (3812.7)	49832 (5084.9)	UCMSL	900 1000	30	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	30	–	GK		
UCMSL	1000	–	30	–	NGK		
UCMSL	900	–	30	–	GK	–	NF

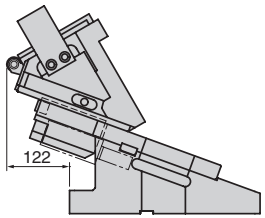
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

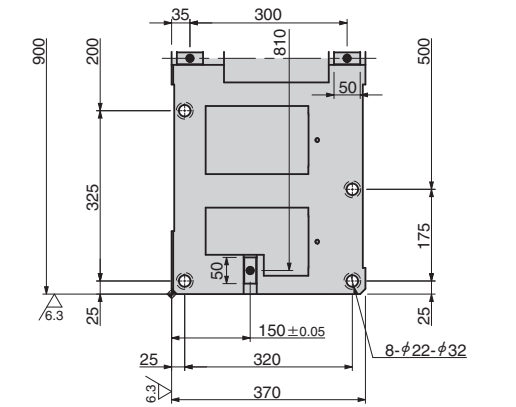


■Weight

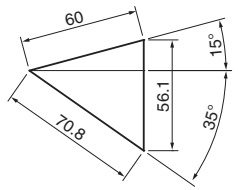
W	Cam Slider Weight kg	Total Weight kg
900	199.5	467.8
1000	206.4	474.7

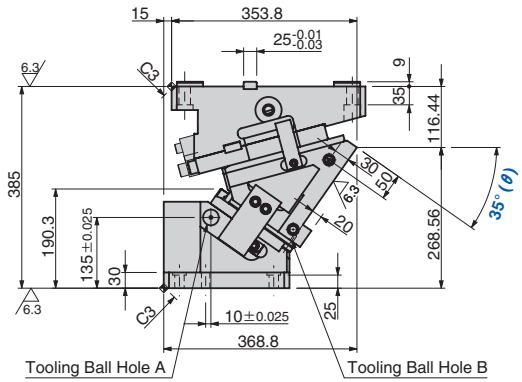
Refer to page 925 for Table of Components.

UCMSL900-35/UCMSL1000-35

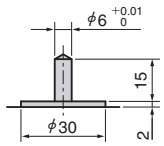


● Cam Diagram

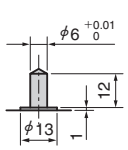




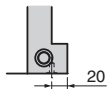
Tooling Ball Hole A

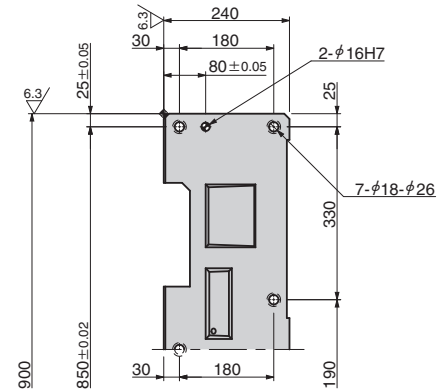


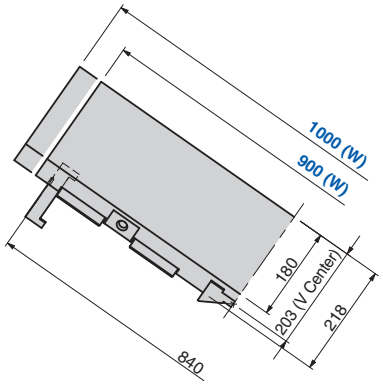
Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840







Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
70.8	627.2 (64.0)	—	37364 (3812.7)	49607 (5061.9)	UCMSL	900 1000	35	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	35	–	GK		
UCMSL	1000	–	35	–	NGK		
UCMSL	900	–	35	–	GK	–	NF

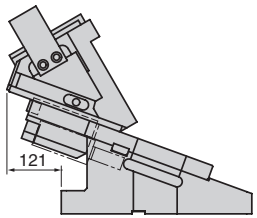
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

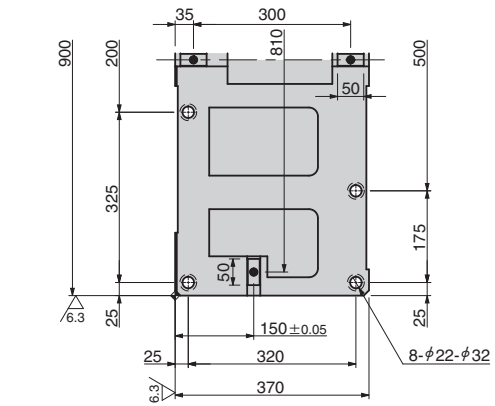


■Weight

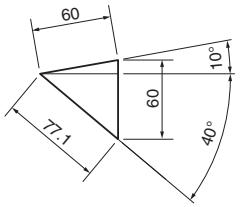
W	Cam Slider Weight kg	Total Weight kg
900	199.5	478.9
1000	206.4	485.8

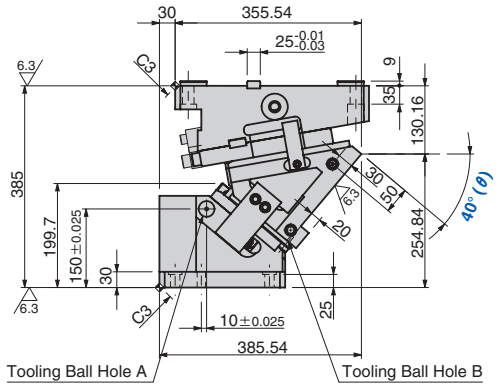
Refer to page 925 for Table of Components.

UCMSL900-40/UCMSL1000-40

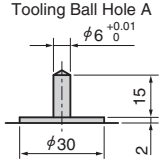


● Cam Diagram

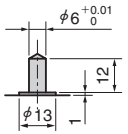




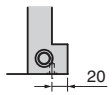
Tooling Ball Hole A

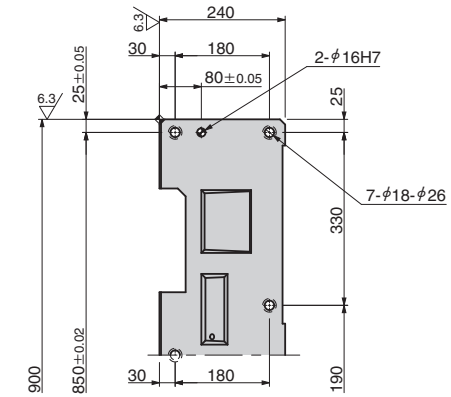


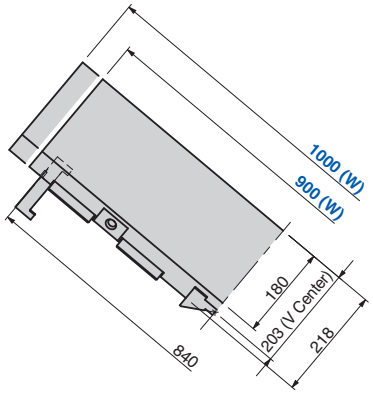
Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840







Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
77.1	627.2 (64.0)	—	37364 (3812.7)	49380 (5038.7)	UCMSL	900 1000	40	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	40	–	GK		
UCMSL	1000	–	40	–	NGK		
UCMSL	900	–	40	–	GK	–	NF

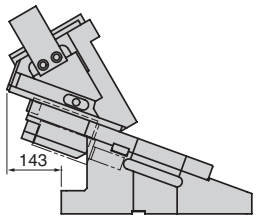
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

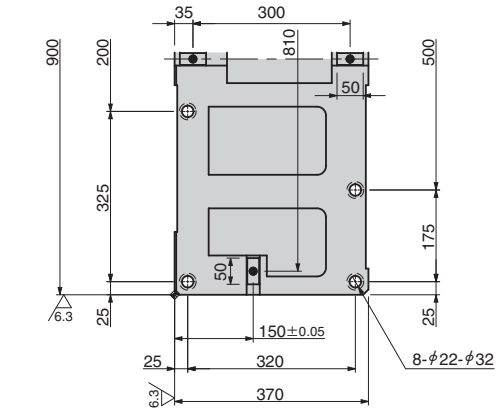


■Weight

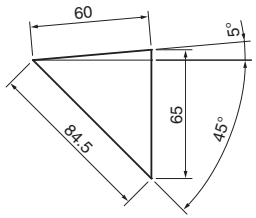
W	Cam Slider Weight kg	Total Weight kg
900	199.5	487.3
1000	206.4	494.2

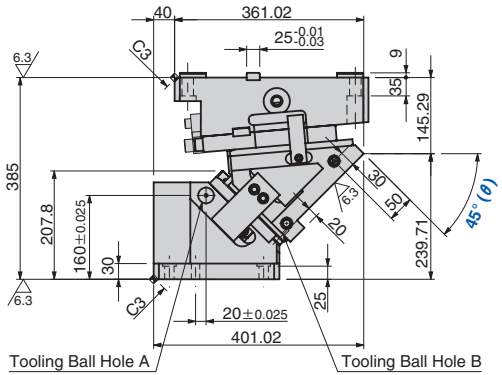
Refer to page 925 for Table of Components.

UCMSL900-45/UCMSL1000-45

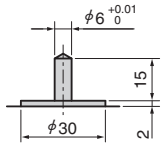


● Cam Diagram

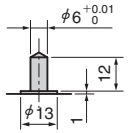




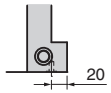
Tooling Ball Hole A

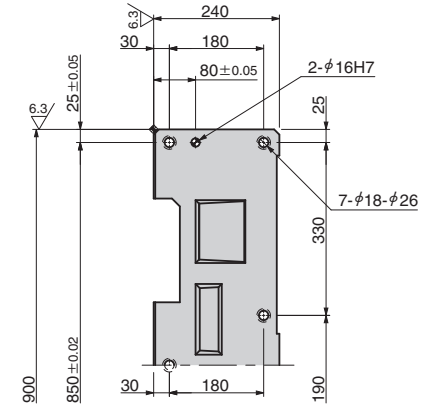


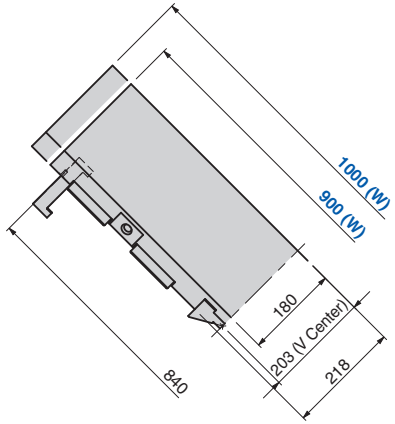
Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840







Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
84.5	627.2 (64.0)	—	37364 (3812.7)	49152 (5015.5)	UCMSL	900 1000	45	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W		θ		PS		Option
UCMSL	900	—	45	—	GK		
UCMSL	1000	—	45	—	NGK		
UCMSL	900	—	45	—	GK	— NF	

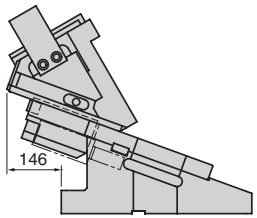
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space



■Weight

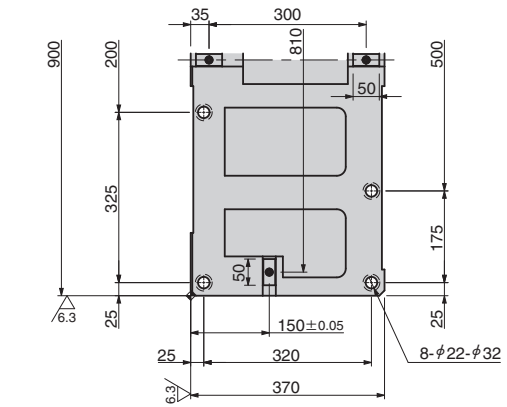
W	Cam Slider Weight kg	Total Weight kg
900	199.5	499.4
1000	206.4	506.3

Refer to page 925 for Table of Components.

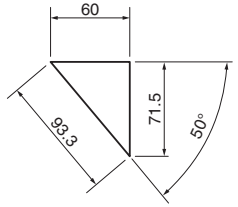
Aerial Cam Unit

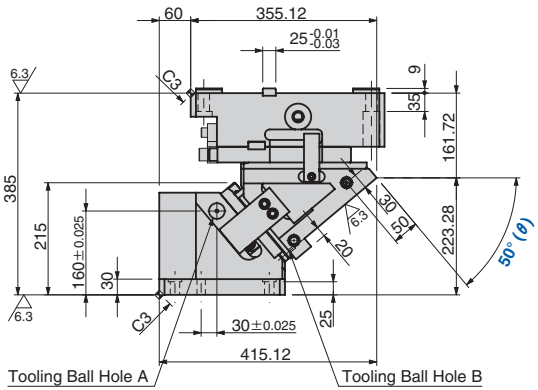
UCMSL900-50/UCMSL1000-50

CAD FILE

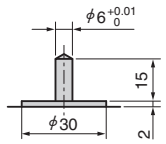


● Cam Diagram

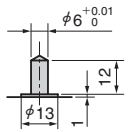




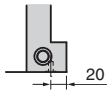
Tooling Ball Hole A

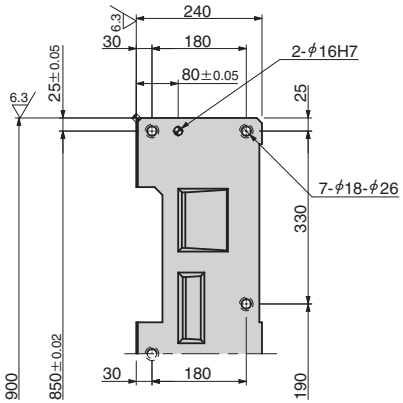


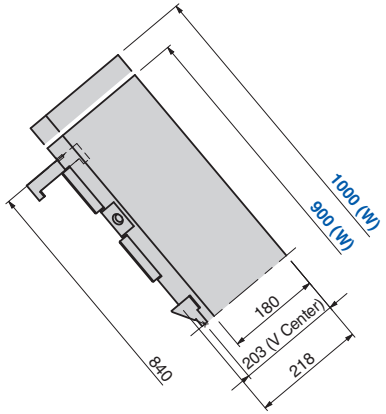
Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840







Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
93.3	627.2 (64.0)	—	37364 (3812.7)	48926 (4992.4)	UCMSL	900 1000	50	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	50	–	GK		
UCMSL	1000	–	50	–	NGK		
UCMSL	900	–	50	–	GK	–	NF

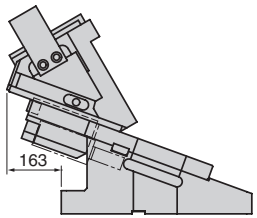
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
15	GK	K750-80-TD	4	Gas Spring (KALLER)
	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space



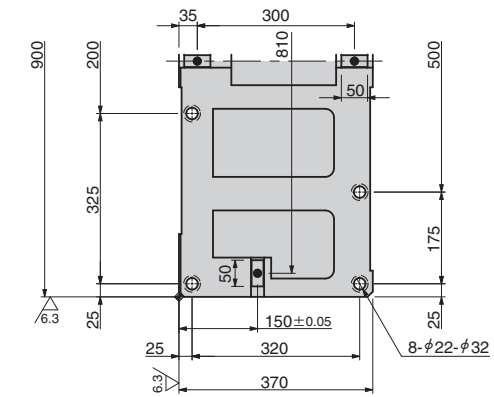
■Weight

W	Cam Slider Weight kg	Total Weight kg
900	199.5	498.4
1000	206.4	505.3

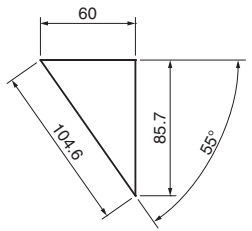
Refer to page 925 for Table of Components.

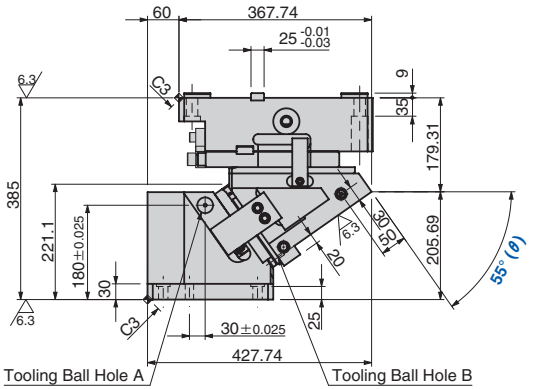
UCMSL900-55/UCMSL1000-55

CAD FILE

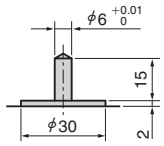


● Cam Diagram

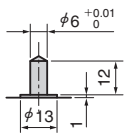




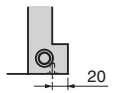
Tooling Ball Hole A

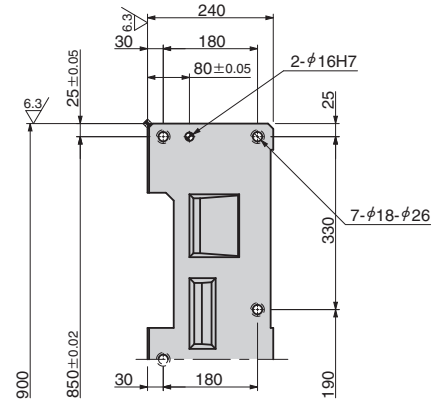


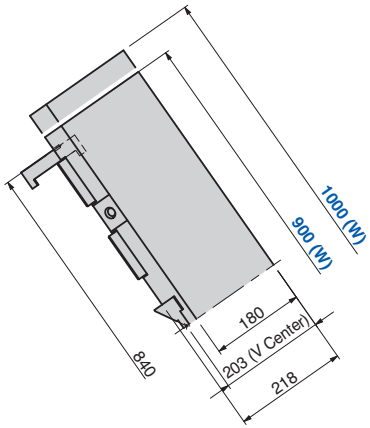
Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840







Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
104.6	627.2 (64.0)	—	37364 (3812.7)	53207 (5429.3)	UCMSL	900 1000	55	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W		θ		PS		Option
UCMSL	900	—	55	—	GK		
UCMSL	1000	—	55	—	NGK		
UCMSL	900	—	55	—	GK	—	NF

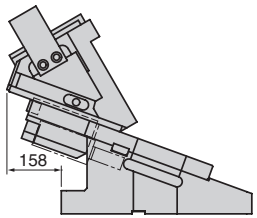
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space

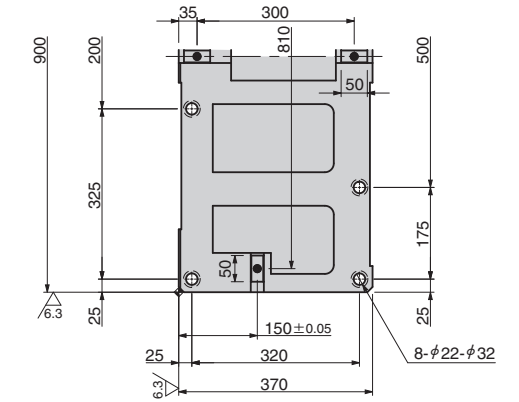


■Weight

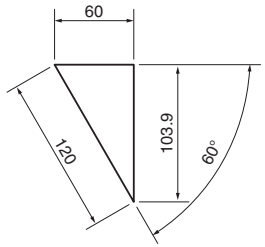
W	Cam Slider Weight kg	Total Weight kg
900	209.7	519.2
1000	217.4	526.9

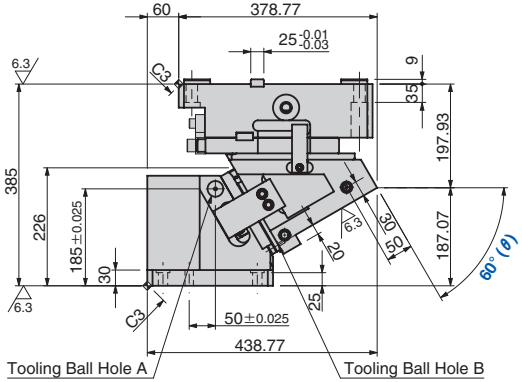
Refer to page 925 for Table of Components.

UCMSL900-60/UCMSL1000-60

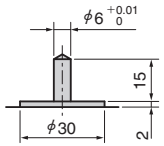


● Cam Diagram

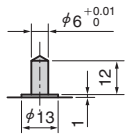




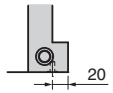
Tooling Ball Hole A

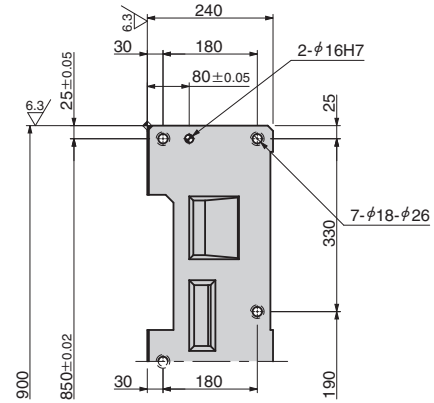


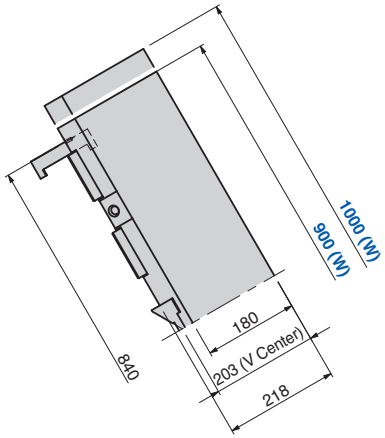
Tooling Ball Hole B



Tooling Ball Hole B
Hole Pitch = 840







Travel S	Working Force kN (tonf)	Spring Force N (kgf) Initial Load	Spring Force N (kgf) Final Load	Return Force N (kgf)	Catalog No.	W	θ	Spring Type PS
120.0	627.2 (64.0)	—	37364 (3812.7)	58804 (6000.4)	UCMSL	900 1000	60	GK NGK GD NGD GS NGS

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

Order

Catalog No.	W	–	θ	–	PS	–	Option
UCMSL	900	–	60	–	GK		
UCMSL	1000	–	60	–	NGK		
UCMSL	900	–	60	–	GK	–	NF

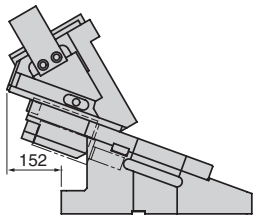
Option

Option Code	Specification
NF	Nitrogen gas not charged.

■Spring Specification

No.	PS	Spring Model	Qty	Remark
	GK	K750-80-TD	4	Gas Spring (KALLER)
15	GD	L.750.075.TO.140	4	Gas Spring (DADCO)
	GS	SM0750.75	4	Gas Spring (SDT)

■Rear Removal Space



■Weight

W	Cam Slider Weight kg	Total Weight kg
900	219.7	535.2
1000	227.5	543.1

Refer to page 925 for Table of Components.

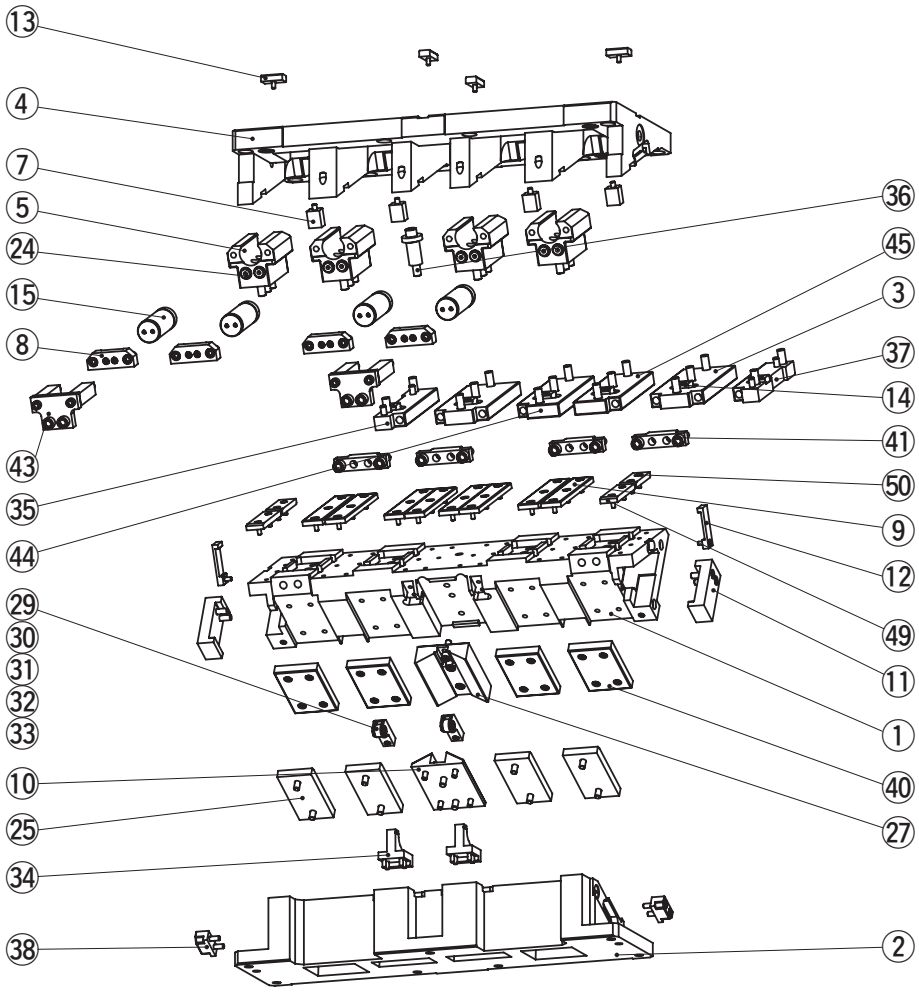
UCMSL [Table of Components]

Large Type

For Pierce | For Trim | For Flange

Aerial Cam Unit

UCMSL900/UCMSL1000



No.	Description	Qty	Material and Remark
1	Cam Slider	1	Cast Iron
2	Cam Driver	1	Cast Iron
3	Base Plate A	2	Steel
4	Cam Holder	1	Cast Iron
5	Spring Guide Block	4	Bronze with Graphite
6	Slide Lower Plate A	2	Bronze with Graphite 55°～60° only
7	Guide Pin Block	4	Steel
8	Spring Guide Plate	4	Steel
9	Slide Lower Plate B	8	Bronze with Graphite
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	6	Steel
15	Gas Spring	4	Refer to the Spring Specification.
24	Stopper	8	—
25	Cam Slide Plate	4	Bronze with Graphite
27	Cam Slide Guide	1	Steel
29	Roller Bracket	2	Steel 0°～30° only
30	Roller	2	Steel 0°～30° only
31	Roller Pin	2	Steel 0°～30° only
32	Bushing	2	SOB12-18-16 0°～30° only
33	Snap Ring E Type	4	φ9 0°～30° only
34	Roller Driver	2	Steel 0°～30° only
35	Base Plate B R	1	Steel
36	Safety Pin	1	Steel
37	Base Plate B L	1	Steel
38	Positive Return Block	2	Bronze with Graphite
40	Lower Slide Plate B	4	Steel
41	Stopper Plate	4	Steel
43	Locking Plate	2	Steel
44	Base Plate C R	1	Steel
45	Base Plate C L	1	Steel
49	Slide Plate	2	Bronze with Graphite
50	Slide Plate	2	Bronze with Graphite

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