Counter Cam Unit CTCS·H/CTVS·H [Overview]

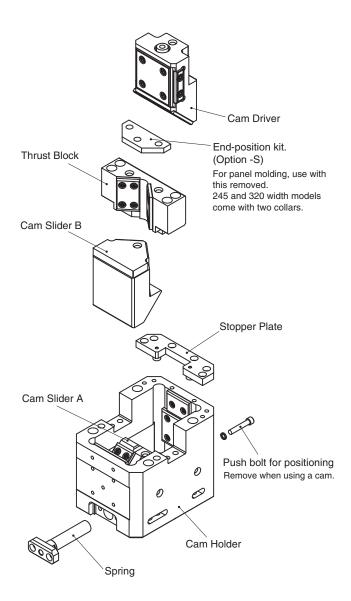
Product Information

- Mount face widths 120, 145, 245, and 320 mm.
- High rigidity structure.
- V-shaped guide.
- Built-in abnormal ascent stop mechanism.
- Built-in urethane for shock absorption in cam driver stopper.



■Features

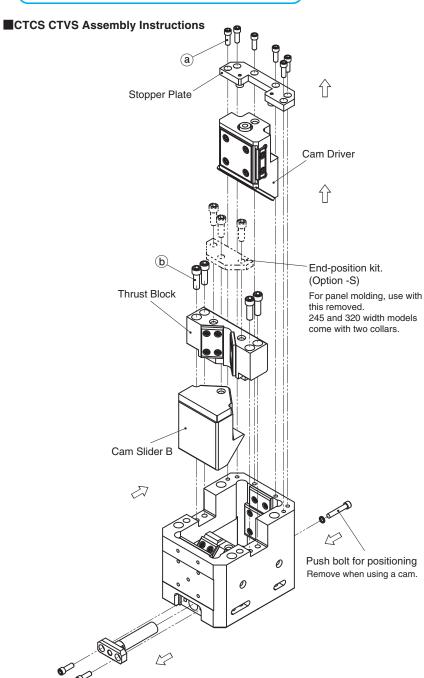
- · Robust structure integrated into the casting is applied.
- The highly rigid type is reinforcing the backup wall of Cam Slider B. It is not necessary to machine the die for backup.
- V-shaped Cam Slider B is highly resistant to the reaction force on the side. (145 / 245 / 320 mm wide only)
- · Urethane Stopper for shock absorption are provided on the Stopper Plate to prevent direct force on the screws.
- The Thrust Block is installed as the Stopper of Cam Slider B. This Stopper Block could prevent the Cam Slider B from lifting up over the specified stroke.
- · A thread hole is drilled so that a Pushing Bolt for the end-position kit could be installed.





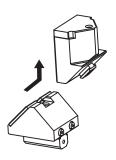
Counter Cam Unit CTCS·H/CTVS·H [Overview]

Product Information



Disassembly

- 1) Remove Hexagon Socket Head Bolts (a), to pull out Stopper Plate.
- 2) Pull and remove Cam Driver upward.
- 3) Remove Hexagon Socket Head Bolts (b), and remove Thrust Block.
- 4) Slide Cam Slider B with Positive Return obliquely upward and remove it. (See the figure below.)
 In the same way, slide Cam Slider B diagonally from above to assemble.



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.

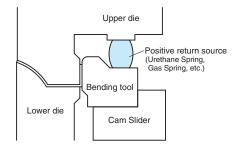
⚠ Gas Spring

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.

For Operation

In order to make the Counter Cam Unit correctly track the up-down motion of the press, use a return assist pressure source

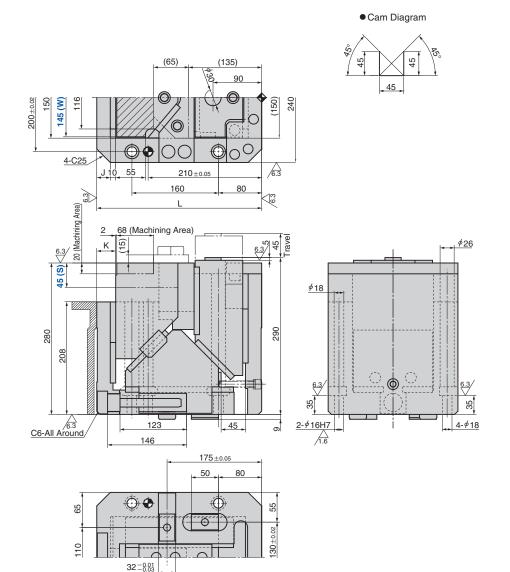
(Urethane Spring, Gas Spring, etc.) (See the figure below.)





CTVS145-45 (Regular Type) CTVH145-45 (Highly Rigid Type)

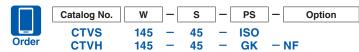




Working Force kN (tonf)	Spring Force N (kgf)		Total Weight	Catalog No.	w	Travel S	Spring Type PS
1,000,000 strokes	Initial Load	Final Load	kg				
73.5	_	2072 (211.3)	104.0	CTVS	145	45	ISO NISO
(7.5)	330 (33.7)	330 1815 124.0		СТУН	145	45	GK NGK

ISO: Coil Spring GK: Gas Spring (KALLER)

NGK: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



5	Option Code	Specification
Option	NF	Nitrogen gas not charged.
	S	Lock plate attached.

Catalog No.	J	K	L
CTVS	25	35	305
CTVH	40	50	320

■Spring Specification

No.	PS	Spring Model	Qty	Remark
34	GK	X350-80	1	Gas Spring (KALLER)
31	ISO	TJM32-178	1	Coil Spring 33 N/mm (3.37 kgf/mm) Life expectancy of Coil Spring is approximately 1,000,000 strokes.

Gas filling pressure: 7.0 MPa

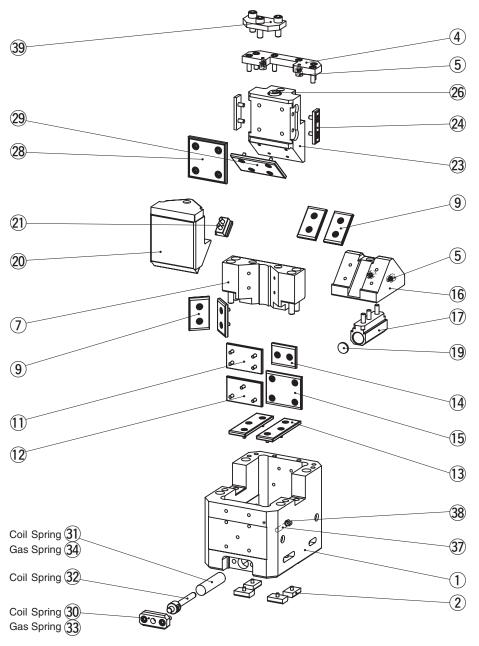


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CTVS·CTVH [Table of Components]

Counter Cam Unit

CTVS145/CTVH145

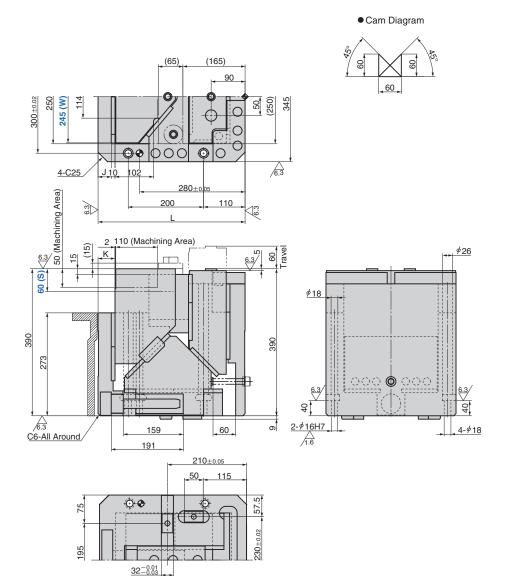


		Q	ty	
No.	Description	Coil Spring	Gas Spring	Material and Remark
1	Cam Holder		1	Cast Iron
2	Key	4	4	Steel
4	Stopper Plate		1	Steel
5	Stopper A	4	4	_
7	Thrust Block		1	Bronze with Graphite
9	Wear Plate E	4	4	Bronze with Graphite
11	Wear Plate A-1		1	Bronze with Graphite
12	Wear Plate A-2		1	Bronze with Graphite
13	Wear Plate B	2	2	Bronze with Graphite
14	Wear Plate C		1	Bronze with Graphite
15	Wear Plate D	1		Bronze with Graphite
16	Cam Slider A		1	Cast Iron
17	Spring Guide Block		1	Steel
19	Spring Stopper		1	Steel
20	Cam Slider B		1	Cast Iron
21	Cam Positive Return		1	Steel
23	Cam Driver		1	Cast Iron
24	Wear Plate	2	2	Copper Powder Sintered
26	Stopper B		1	_
28	Wear Plate		1	Copper Powder Sintered
	Wear Plate F		1	Bronze with Graphite
30	Spring Stopper A	1	_	Steel
31	Coil Spring	1	_	TJM32-178
32	Spring Guide Pin	1	_	Steel
33	Spring Stopper B	_	1	Steel
34	Gas Spring	_	1	X350-80-7.0MPa
37	Locate Cap Bolt		1	M12x68
	Spacer		1	Steel
39	Locking Plate (Option -S)		1	Steel

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







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Working Force kN (tonf)			Total Weight	Catalog No.	w	Travel S	Spring Type PS
1,000,000 strokes	Initial Load	Final Load	kg				. •
117.6	_	4691 (478.3)	005.0	CTVS	045	60	ISO NISO
(12.0)	582 (59.3)	4074 (415.4)	295.0	СТУН	245	60	GK NGK

ISO: Coil Spring GK: Gas Spring (KALLER)

NGK: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W]-[S]-[PS]-[Option
CTVS	245	_	60	_	ISO		
CTVH	245	_	60	_	GK	- NF	

مر
Option

(Option Code	Specification			
Ī	NF	Nitrogen gas not charged.			
	S Lock plate attached.				

Catalog No.	J	K	L
CTVS	35	45	390
CTVH	55	65	410

■Spring Specification

No.	PS	Spring Model	Qty	Remark
34	GK	K750-100	1	Gas Spring (KALLER)
33	ISO	TJM50-229	1	Coil Spring 58.2 N/mm (5.93 kgf/mm) Life expectancy of Coil Spring is approximately 1,000,000 strokes.

Gas filling pressure: 7.0 MPa

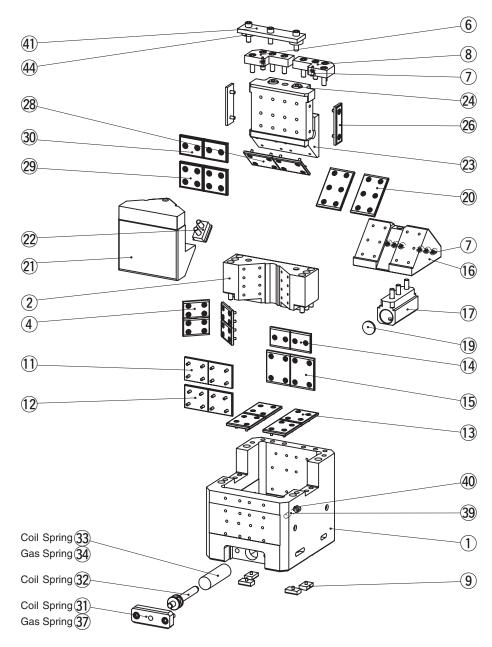


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CTVS·CTVH [Table of Components]

Counter Cam Unit

CTVS245/CTVH245



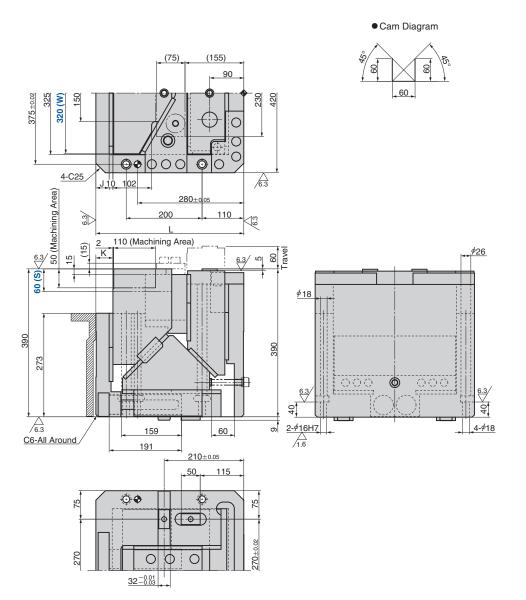
No.	Description	Q Coil Spring	ty Gas Spring	Material and Remark
1	Cam Holder	-		Cast Iron
2	Thrust Block	-		Cast Iron
4	Wear Plate E		1	Bronze with Graphite
6	Stopper Plate R	-	l	Steel
7	Stopper A	8	3	_
8	Stopper Plate L	-		Steel
9	Key		1	Steel
11	Wear Plate A-1	2	2	Bronze with Graphite
12	Wear Plate A-2	2	2	Bronze with Graphite
13	Wear Plate B	4	1	Bronze with Graphite
14	Wear Plate C	2	2	Bronze with Graphite
15	Wear Plate D	2	2	Bronze with Graphite
16	Cam Slider A	-		Cast Iron
17	Spring Guide Block	1		Steel
19	Spring Stopper	1		Steel
20	Wear Plate G	2	2	Bronze with Graphite
21	Cam Slider B	1		Cast Iron
22	Cam Positive Return	1		Steel
23	Cam Driver	1		Cast Iron
24	Stopper B	2	2	_
26	Wear Plate	2	2	Copper Powder Sintered
28	Wear Plate F	2	2	Bronze with Graphite
29	Wear Plate	2	2	Copper Powder Sintered
30	Wear Plate	2	2	Copper Powder Sintered
31	Spring Stopper A	1	_	Steel
32	Spring Guide Pin	1	_	Steel
33	Coil Spring	1	_	TJM50-229
34	Gas Spring	_	1	X750-100-7.0MPa
37	Spring Stopper B	_	1	Steel
39	Locate Cap Bolt	-	l	M16x88
40	Spacer	-		Steel
41	Locking Plate (Option -S)	1		Steel
44	Locking Collar (Option -S)	2	2	Steel

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



CTVS320-60 (Regular Type) CTVH320-60 (Highly Rigid Type)





Working Force kN (tonf)	Spring Force N (kgf)		Total Weight	Catalog No.	w	Travel S	Spring Type PS
1,000,000 strokes	Initial Load	Final Load	kg				
156.8	_	9382 (956.7)	262.0	CTVS	220	60	ISO NISO
(16.0)			362.0	CTVH	320	60	GK NGK

ISO: Coil Spring GK: Gas Spring (KALLER)

NGK: Without Gas Spring NISO: Without Coil Spring Parts for spring assembly are included.



Catalog No.	W]-	S]-[PS] —	Option
CTVS	320	_	60	_	ISO		
CTVH	320	_	60	_	GK	_	NF

٦
Option

	Option Code	Specification		
	NF	Nitrogen gas not charged.		
S Lock plate attached.		Lock plate attached.		

Catalog No.	J	K	L	
CTVS	35	45	390	
CTVH	55	65	410	

■Spring Specification

No.	PS	Spring Model	Qty	Remark
37	GK	K750-100	2	Gas Spring (KALLER)
33	ISO	TJM50-229	2	Coil Spring 58.2 N/mm (5.93 kgf/mm) Life expectancy of Coil Spring is approximately 1,000,000 strokes.

Gas filling pressure: 7.0 MPa

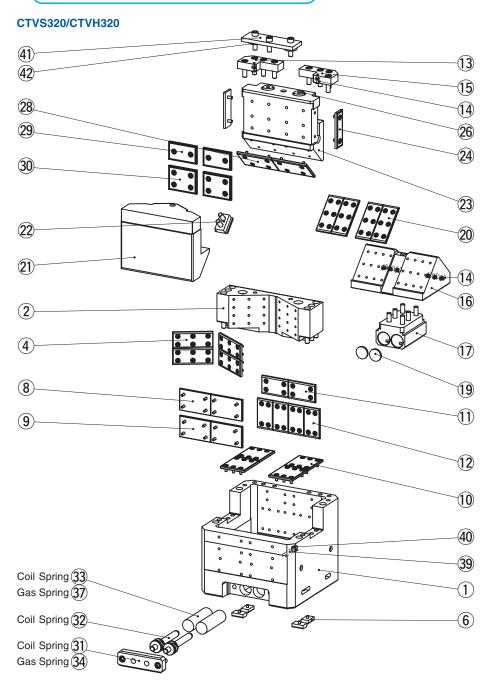




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CTVS·CTVH [Table of Components]

Counter Cam Unit



		Q	ty		
No.	Description	Coil Spring	Gas Spring	Material and Remark	
1	Cam Holder		1	Cast Iron	
2	Thrust Block		1	Cast Iron	
4	Wear Plate E	4	4	Bronze with Graphite	
6	Key	4	4	Steel	
8_	Wear Plate A-1		2	Bronze with Graphite	
9	Wear Plate A-2	:	2	Bronze with Graphite	
10	Wear Plate B	4	4	Bronze with Graphite	
11	Wear Plate C	2	2	Bronze with Graphite	
12	Wear Plate D	4	4	Bronze with Graphite	
13	Stopper Plate R		1	Steel	
14	Stopper A	;	3	_	
15	Stopper Plate L		1	Steel	
16	Cam Slider A		1	Cast Iron	
17	Spring Guide Block		1	Steel	
19	Spring Stopper	:	2	Steel	
20	Wear Plate G		4	Bronze with Graphite	
21	Cam Slider B		1	Cast Iron	
22	Cam Positive Return		1	Steel	
23	Cam Driver		1	Cast Iron	
24	Wear Plate	:	2	Copper Powder Sintered	
26	Stopper B	:	2	_	
28	Wear Plate F	1	2	Bronze with Graphite	
29	Wear Plate	:	2	Copper Powder Sintered	
30	Wear Plate	:	2	Copper Powder Sintered	
31	Spring Stopper A	1	_	Steel	
32	Spring Guide Pin	2	_	Steel	
33	Coil Spring	2	_	TJM50-229	
34	Spring Stopper B	_	1	Steel	
37	Gas Spring	_	2	X750-100-7.0MPa	
39	Locate Cap Bolt	1		M16x88	
40	Spacer	1		Steel	
41	Locking Plate (Option -S)		1	Steel	
42 Locking Collar (Option -S)		1	2	Steel	
Polite must develop and weekers for examply are not indicated					

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

