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

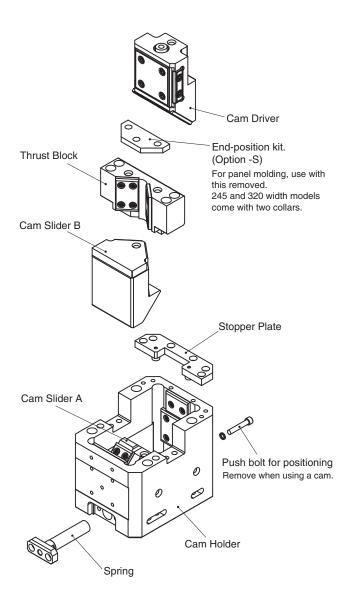
## **Product Information**

- 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

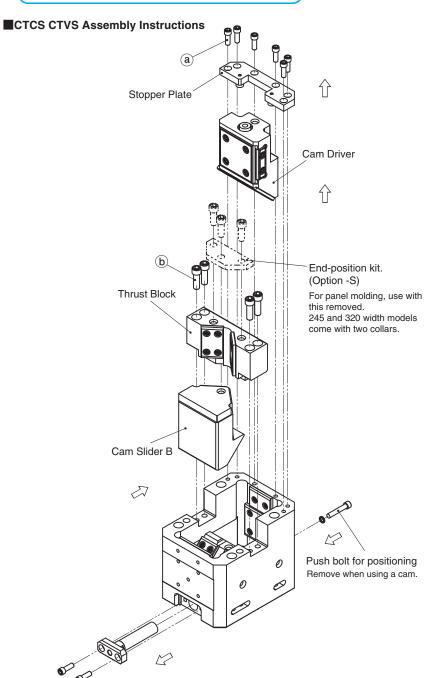
- · Robust structure integrated into the casting is applied.
- The highly rigid type is reinforcing the backup wall of Cam Slider B. It is not necessary to machine the die for backup.
- V-shaped Cam Slider B is highly resistant to the reaction force on the side. (145 / 245 / 320 mm wide only)
- · Urethane 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.





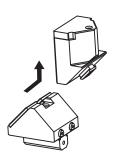
## **Counter Cam Unit CTCS·H/CTVS·H [Overview]**

### **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.

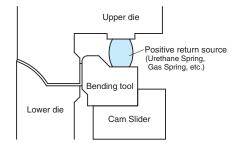
### ⚠ Gas Spring

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

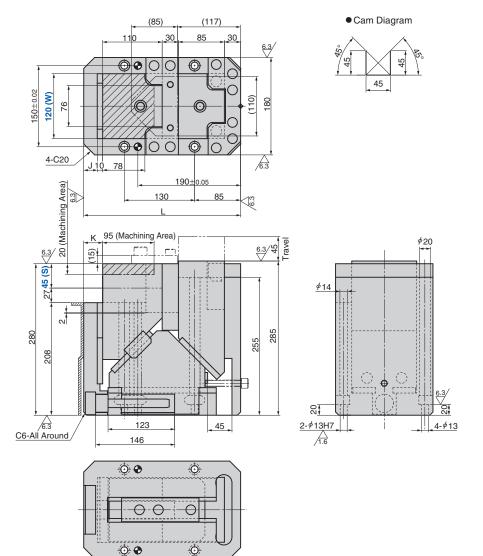
(Urethane Spring, Gas Spring, etc.) (See the figure below.)





CTCS120-45 (Regular Type) CTCH120-45 (Highly Rigid Type)

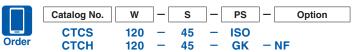




Working Force kN (tonf)	N (I	Force kgf)	Total Weight	Catalog No.	w	Travel S	Spring Type PS
1,000,000 strokes	Initial Load	Final Load	kg				
29.4	_	2072 (211.3)	00.0	стсѕ	120	45	ISO NISO
(3.0)	330 (33.7)	1815 (185.1)	88.0	СТСН			GK NGK

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.		
	N12	$\phi$ 12 mm dowel holes provided on holder.		
	S	Lock plate attached.		

Catalog No.	J	K	L	
CTCS	25	35	290	
CTCH	35	45	300	

■Spring Specification

No.	PS	Spring Model	Qty	Remark		
	GK	X350-80	1	Gas Spring (KALLER)		
25	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

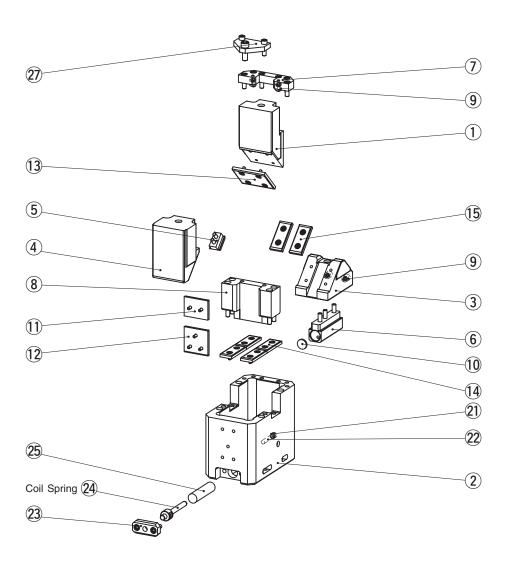
634

## Special Cam Units

# **CTCS·CTCH** [Table of Components]

**Counter Cam Unit** 

### CTCS120/CTCH120



	Q Q	ty			
Description	Coil Spring	Gas Spring	Material and Remark		
Cam Driver	1		Cast Iron with Graphite		
Cam Holder	1	<u> </u>	Cast Iron		
Cam Slider A	1	l	Cast Iron with Graphite		
Cam Slider B	1	l	Cast Iron with Graphite		
Cam Positive Return	-	1	Bronze		
Spring Guide Block	1		Bronze with Graphite		
Stopper Plate	1		Steel		
Thrust Block	1		Bronze with Graphite		
Stopper	4	1	_		
Spring Stopper	1		Steel		
Wear Plate	1		Copper Powder Sintered		
Wear Plate	1		Copper Powder Sintered		
Wear Plate	1		Bronze with Graphite		
Wear Plate	4		Copper Powder Sintered		
Wear Plate	2		Copper Powder Sintered		
Spacer	1	I	Steel		
Locate Cap Bolt	1	I	M12x68		
Spring Stopper A	1	_	Steel		
Spring Stopper B	_	1	Steel		
Spring Guide Pin	1	_	Steel		
Coil Spring	1	_	TJM32-178		
Gas Spring	_	1	X350-80-7.0MPa		
			Steel		
	Cam Driver Cam Holder Cam Slider A Cam Slider B Cam Positive Return Spring Guide Block Stopper Plate Thrust Block Stopper Spring Stopper Wear Plate Wear Plate Wear Plate Wear Plate Wear Plate Wear Plate Spacer Locate Cap Bolt Spring Stopper B Spring Guide Pin Coil Spring	Coil Spring Cam Driver Cam Holder Cam Slider A Cam Slider B Cam Positive Return Spring Guide Block Stopper Plate Thrust Block Stopper Spring Stopper Wear Plate Spacer Locate Cap Bolt Spring Stopper B Spring Stopper B Spring Guide Pin 1 Coil Spring 1 Gas Spring	Description         Coil Spring         Gas Spring           Cam Driver         1           Cam Holder         1           Cam Slider A         1           Cam Slider B         1           Cam Positive Return         1           Spring Guide Block         1           Stopper Plate         1           Thrust Block         1           Stopper         4           Spring Stopper         1           Wear Plate         1           Wear Plate         1           Wear Plate         2           Spacer         1           Locate Cap Bolt         1           Spring Stopper A         1           Spring Guide Pin         1           Coil Spring         1           Gas Spring         1		

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

