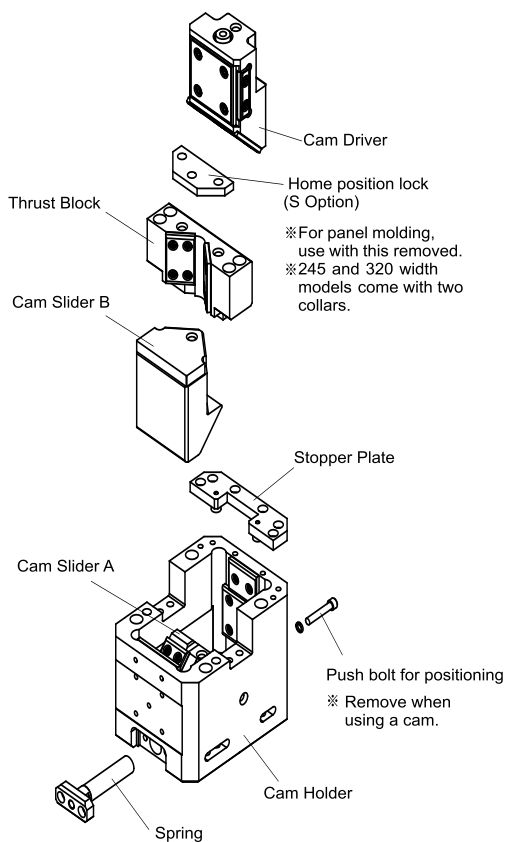


## Thrust Block Type

The counter cam unit CCTCS and CCTVS series are the optimum cam units for bending panels upward. There are 8 variations available; regular / robust type and 4 different widths.



### ■ Structure and features of counter cam unit



- 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.

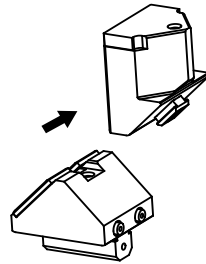
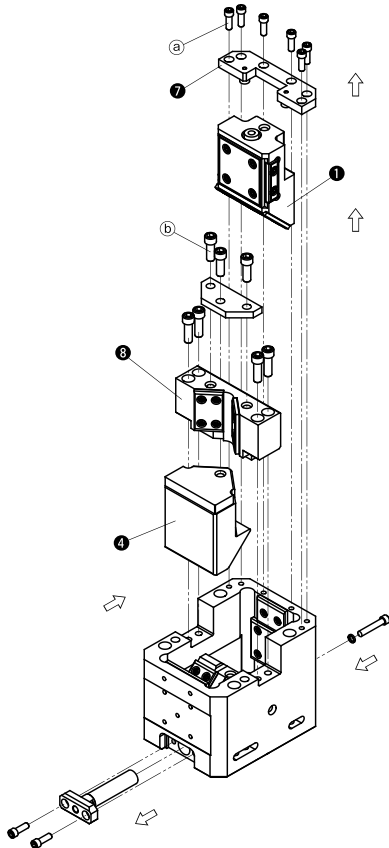
## ● Assembly method of CCTCS / CCTVS

- 1) Assemble components in the reverse order of disassembly.
- Make sure that there is no foreign matter on the sliding area and assemble components.
- When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided.

## ● Disassembly method of CCTCS and CCTVS

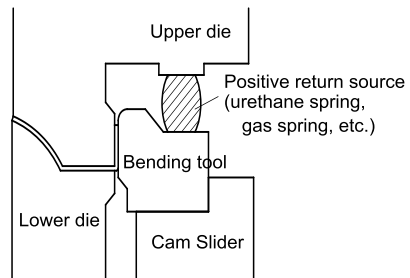
- 1) Loosen hexagon socket head bolt (a) and remove stopper plate (7).
- 2) Pull and remove cam driver (1) upward.
- 3) Remove hexagon socket head bolt (b) and remove thrust block (3).
- 4) Slide cam slider B (4) with positive return obliquely upward and remove it. (See the figure below.)

(In the same way, slide cam slider B diagonally from above to assemble.)

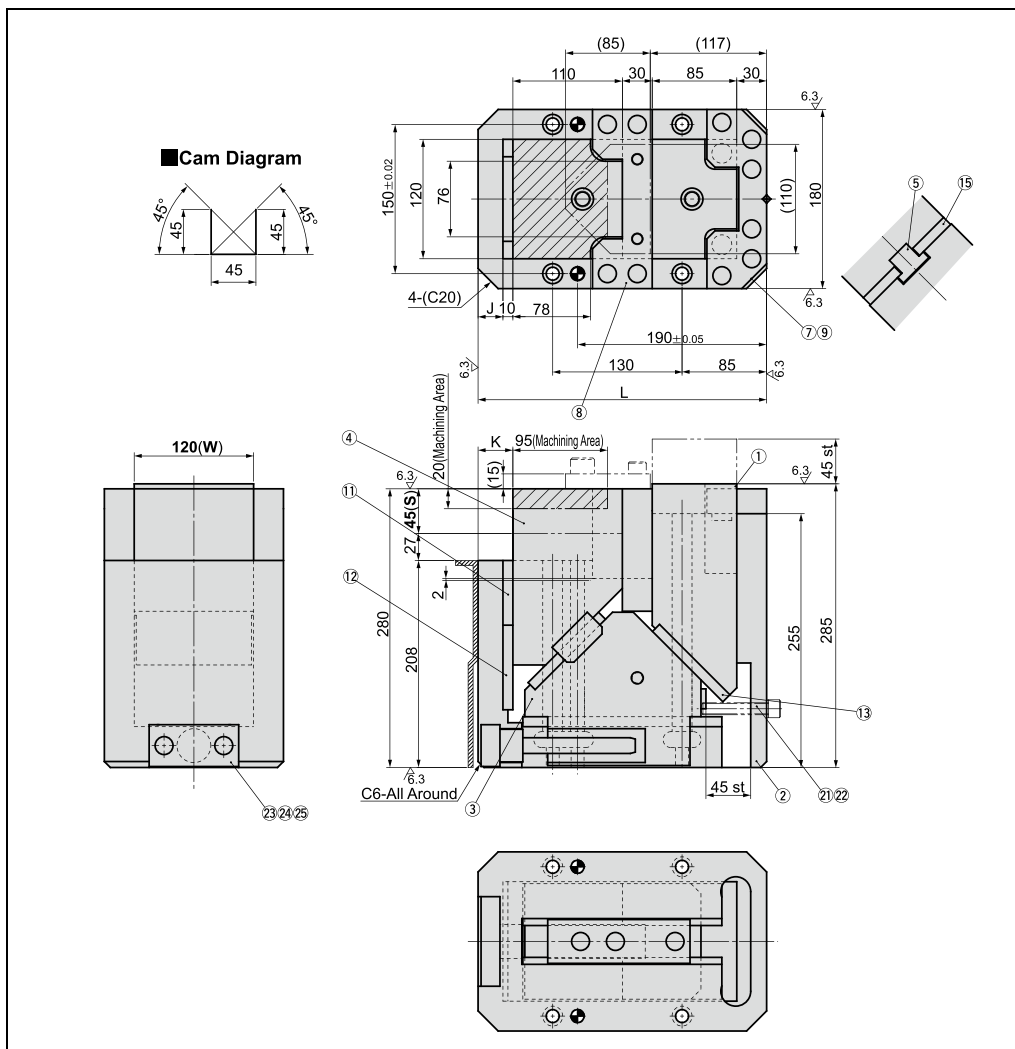


## ■ For Operation

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.)



## CCTCS120-45 (Regular Type) CCTCH120-45 (Highly Rigid Type)



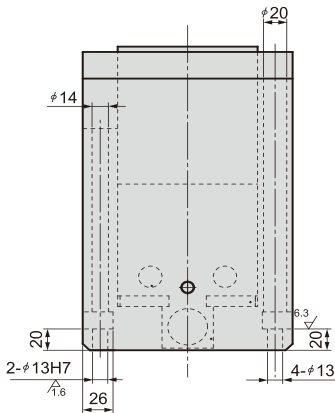
Catalog No.	(W)	Travel S	Working Force kN(tonf)	Spring PS*	Total Weight (kg)
CCTCS	120	45	29.4	ISO NISO	88.0
CCTCH			(3.0)	GK NGK	

Option Code	Specification
<b>S</b>	End-position kit is included
<b>N12</b>	Dowel pin holes of holder are changed to $\varnothing 12H7$
<b>NF</b>	Nitrogen gas is not charged.

## Spring Specification

Spring (PS)	Spring Force N(kgf)	
	Initial	Final
ISO	330 (33.7)	1815 (185.1)
GK	1407 (143.5)	2072 (211.3)

\* If no spring is required, specify "NISO" or "NGK" prefixing "N" to the ISO or GK spring.



## Specification

Catalog No.	J	K	L
<b>CCTCS</b>	25	35	290
<b>CCTCH</b>	35	45	300

## Table Components

NO.	Description	Q'TY
1	Cam Driver	1
2	Cam Holder	1
3	Cam Slider A	1
4	Cam Slider B	1
5	Cam Positive Return	1
6	Spring Guide Block	1
7	Stopper Plate	1
8	Thrust Block	1
9	Stopper	4
10	Spring Stopper	1
11	Wear Plate	1
12	Wear Plate	1
13	Wear Plate	1
14	Wear Plate	4
15	Wear Plate	2
21	Spacer	1
22	Locate Cap Bolt	1
23	Spring Stopper A	1
24	Spring Guide Pin	1
25	Coil Spring	1



Order	Catalog No.	(W)	-	S	-	PS
	CCTCS	120	-	45	-	ISO
	CCTCH	120	-	45	-	GK - NF

\* For the spring specification, refer to the above and below.

- ISO...TM32-178, Spring constant 33N(3.37kgf)/mm  
Guideline of spring durability 1,000,000 strokes
- GK ...X350-80-7.0 (KALLER)