

# traveling clamp

model **TR** Series



# Pascal



Traveling clamp model **TRA**



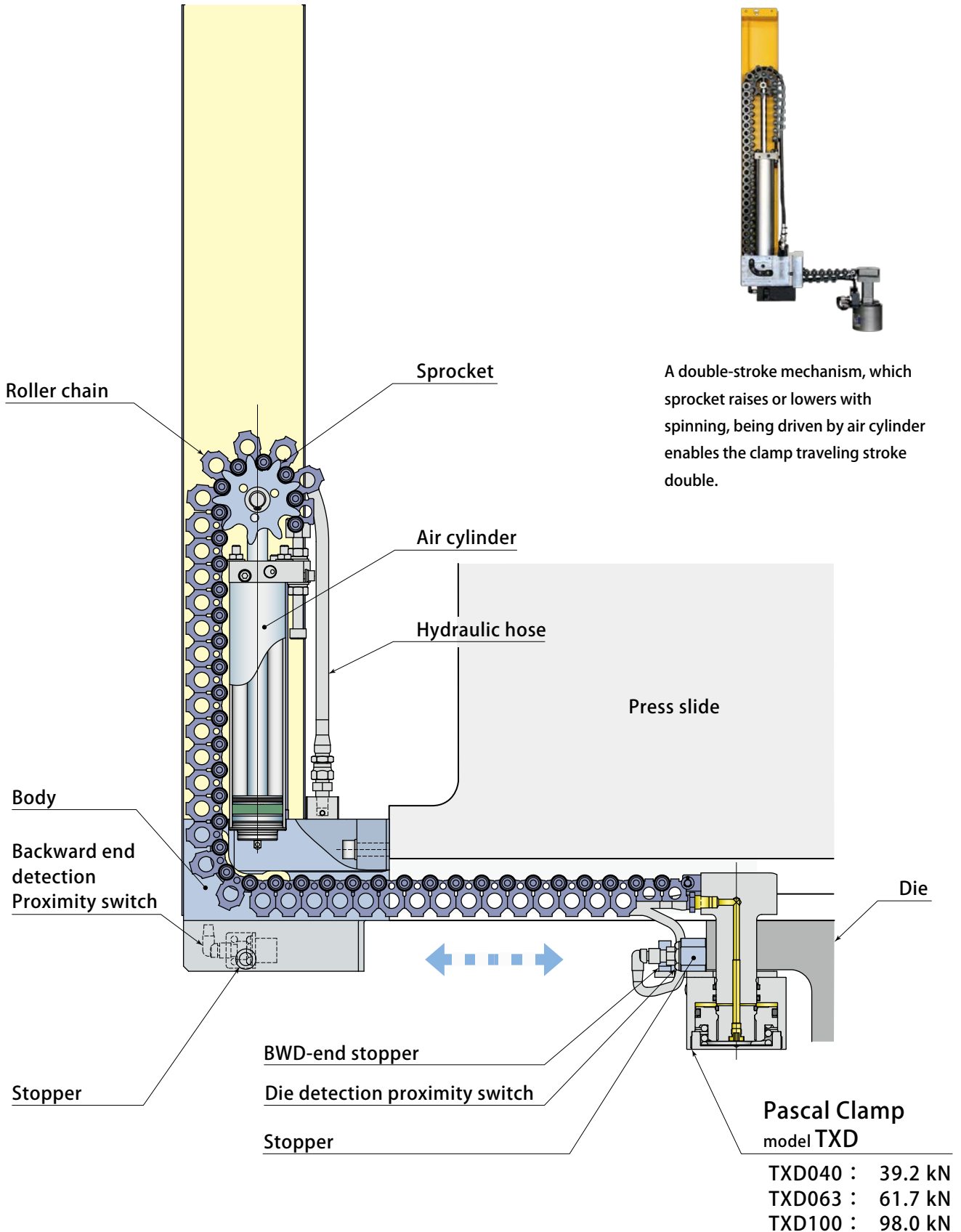
# Traveling clamp

model **TR** Series Delivery record **120,000** UNITS

Practical example of 30,000kN press

## Features

- Pascal Traveling Clamp TR Series is an innovative die clamping system that the clamp travels in the T-slot of the machine and automatically moves to the die. We have sold it to Japan's leading automobile manufacturers, and now over 100,000 units are in operation on press lines around the world.

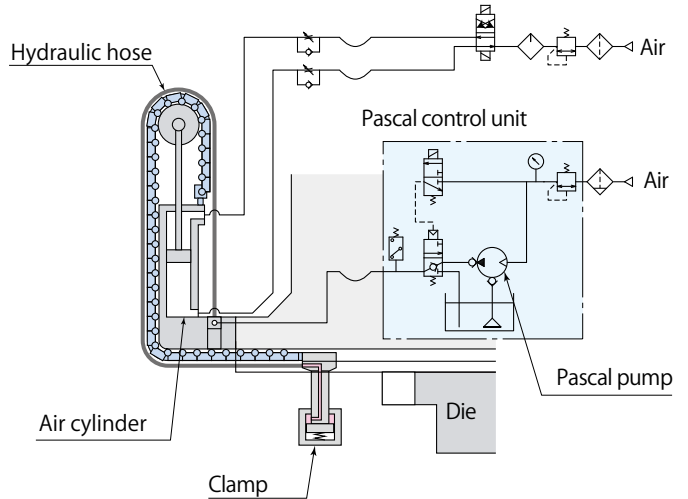


Model designation

TR **A** K **X06** - **0800** **L**

- 1 Type
- 2 Clamp Model
  - X04** : model TXD040 (Clamping force 39.2 kN)
  - X06** : model TXD063 (Clamping force 61.7 kN)
  - X10** : model TXD100 (Clamping force 98.0 kN)
- 3 Traveling stroke
  - A **0400** ~ **1300** : 400 ~ 1300 mm
  - C **0400** ~ **0900** : 400 ~ 900 mm
- 4 Terminal box , BWD-end proximity switch location  
(Rotary actuator and electric motor housing included with model TRC )

Circuit diagram

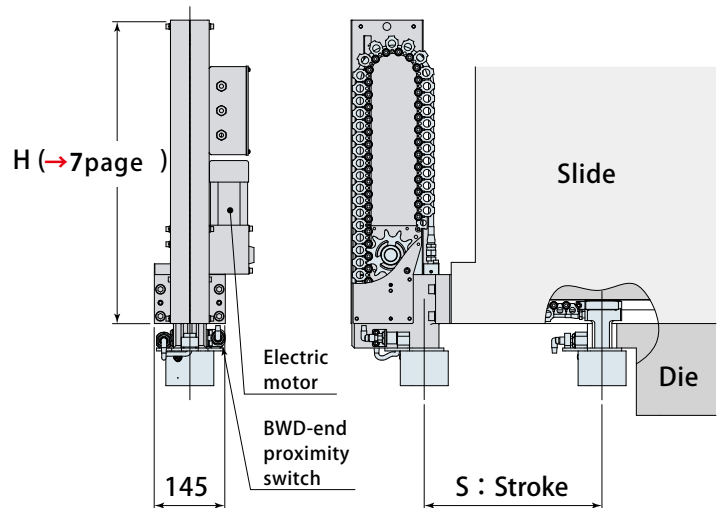
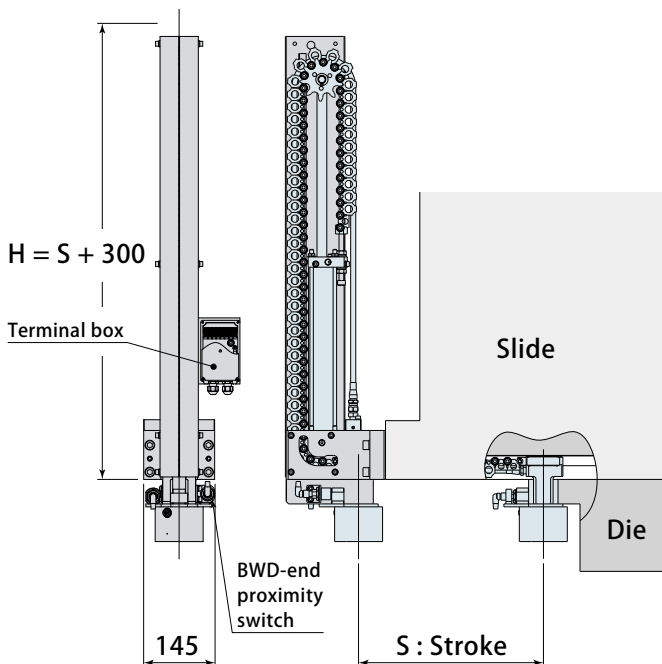


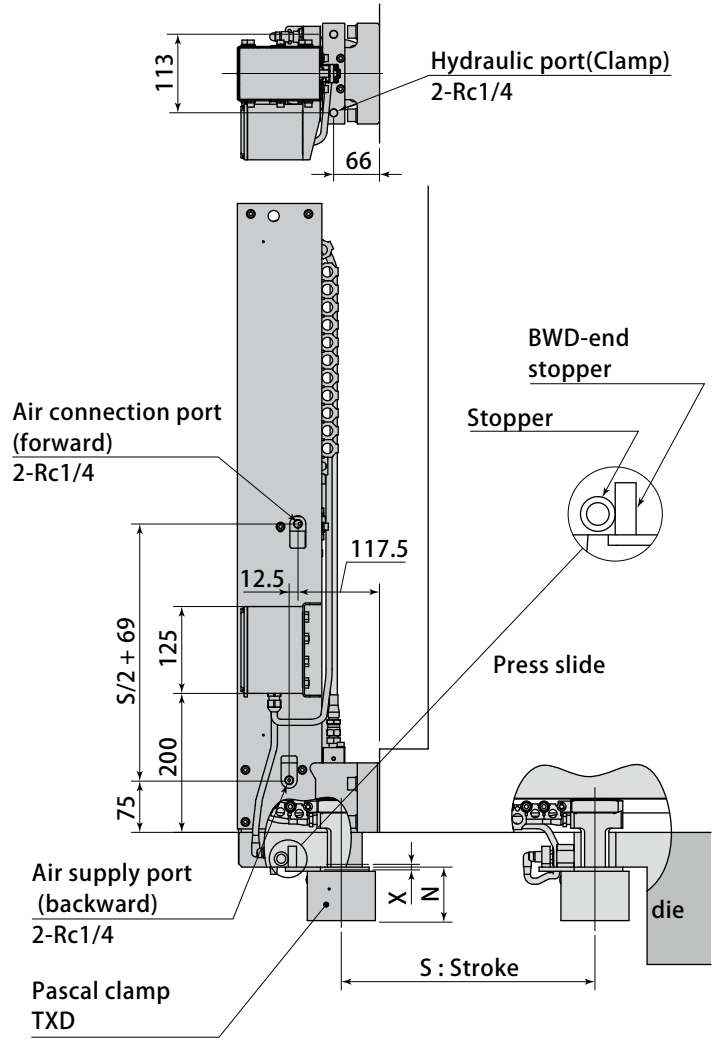
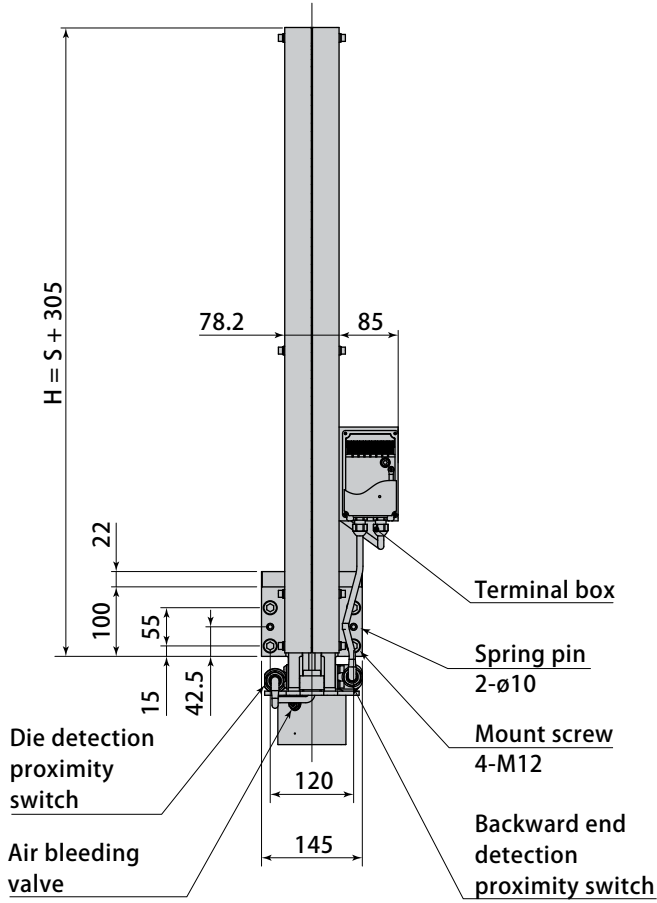
- L** : As shown in the diagram below
- R** : Inverted placement of L

1 Type

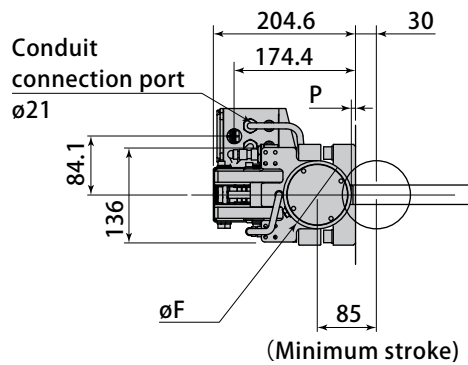
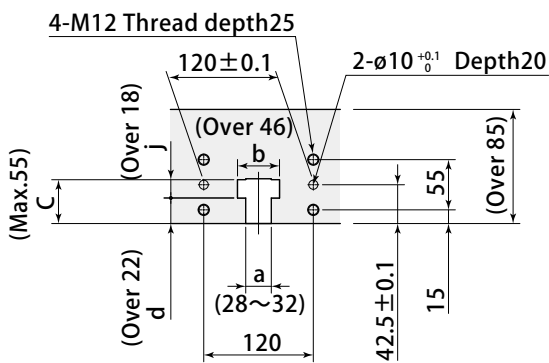
**A** : Air cylinder driven model **TRA**

**C** : Electric motor driven model **TRC**





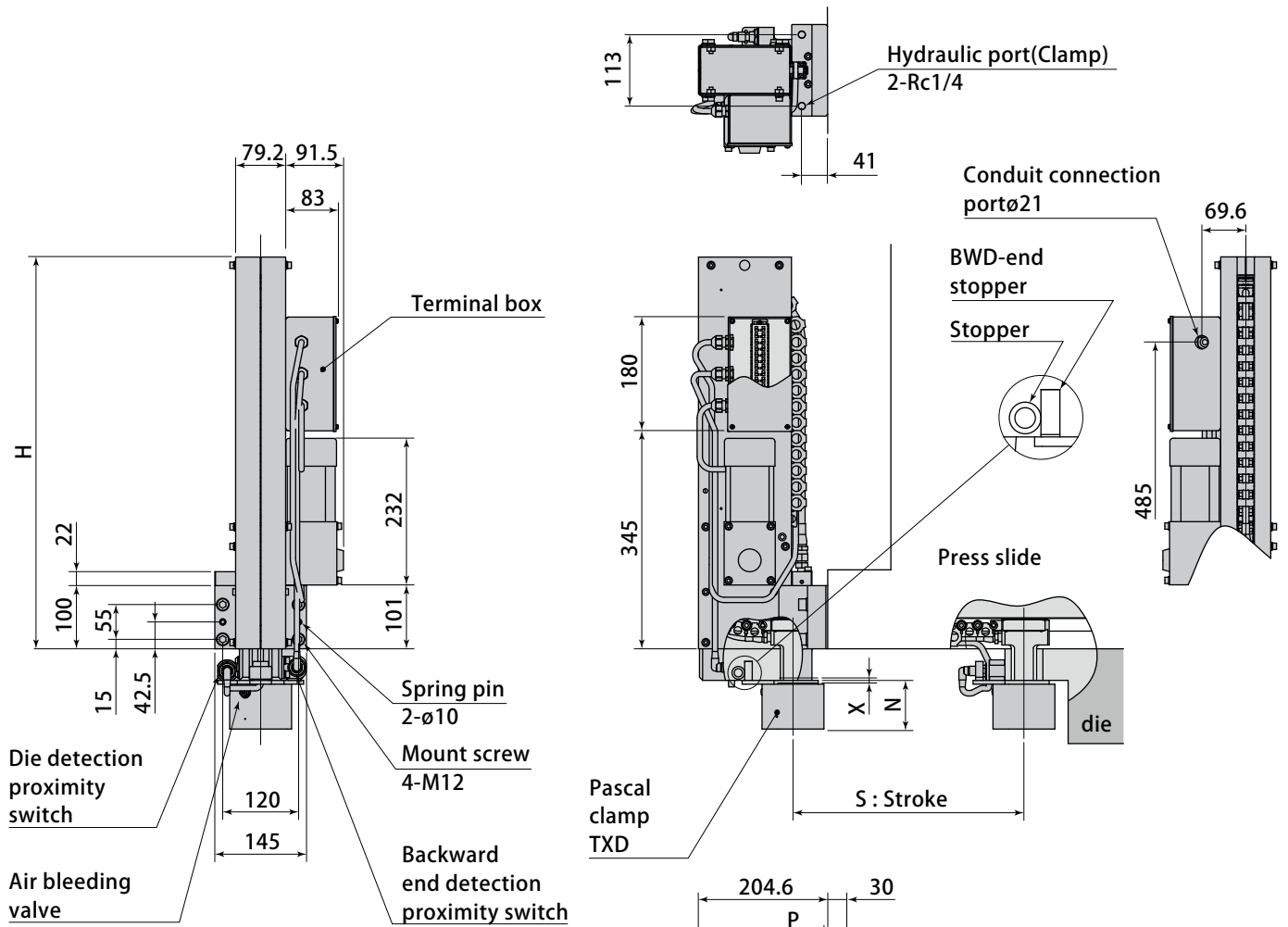
Mounting Details



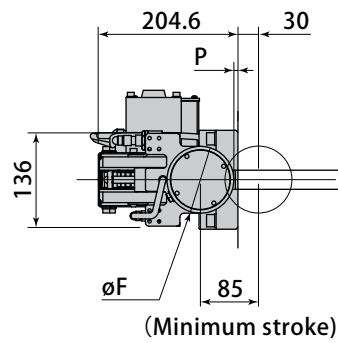
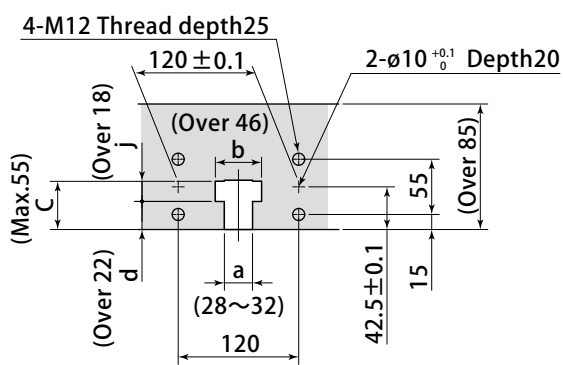
Specifications

Model		TRAKX04	TRAKX06	TRAKX10
Clamping force (at 24.5 MPa)	kN	39.2	61.7	98.0
Clamping stroke(at full stroke)	mm	8		
Traveling stroke	mm	400 ~ 1300 (100 pitch)		
Traveling speed	m/sec.	0.14 ~ 0.30 (to be adjusted by a flow control valve)		
Weight ※	kg	24	26	28
Dimension F	mm	62	78	98
N	mm	65	71	77
P	mm	24	16	6

※ The figure indicates when stroke is 800mm. It increases or decreases by about 0.8kgs for every 100mm stroke.



Mounting Details



● H dimension changes according to the stroke "S".

Stroke : S	H	Stroke : S	H
400	520	625 ~ 700	670
425 ~ 500	570	725 ~ 800	720
525 ~ 600	620	825 ~ 900	770

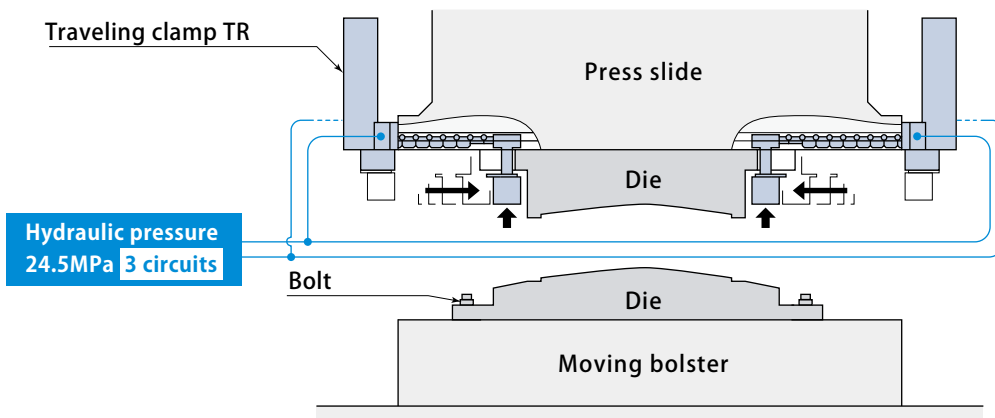
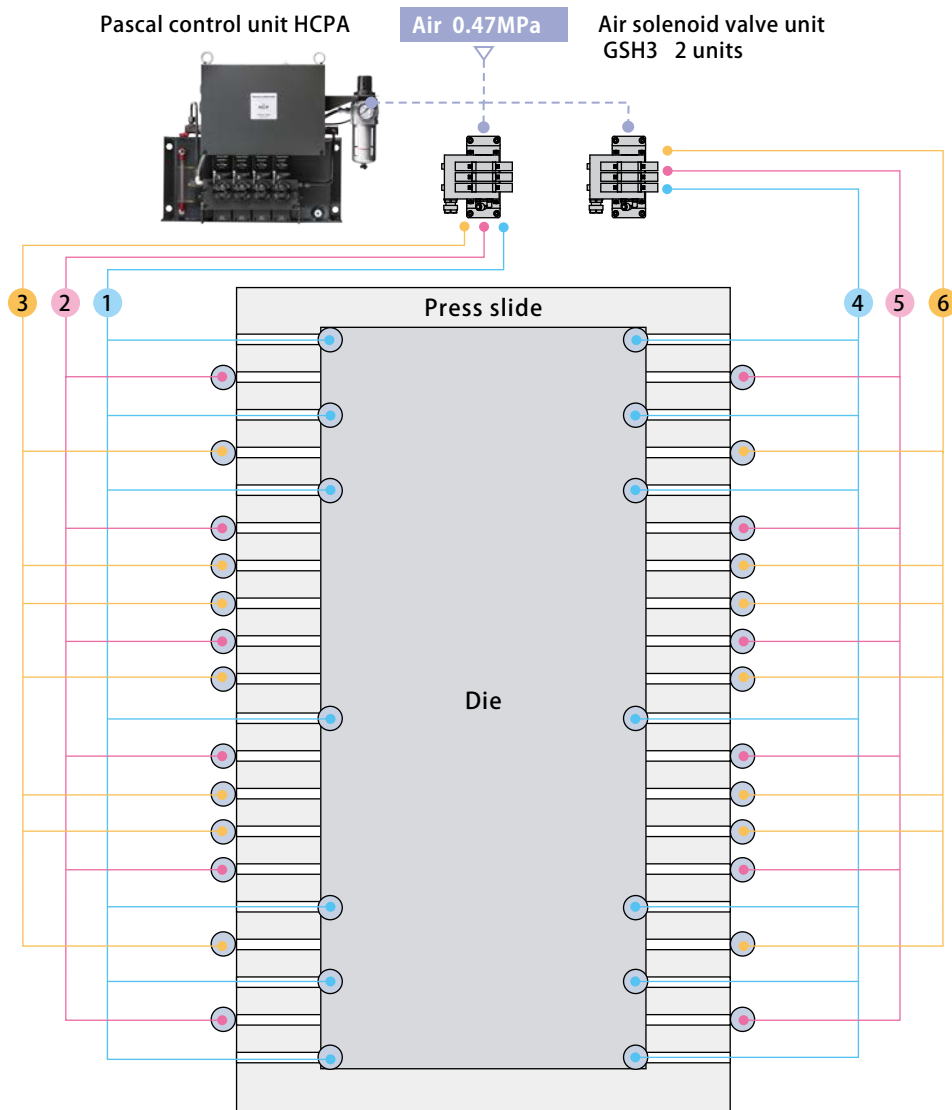
Specifications

Model		TRCKX04	TRCKX06	TRCKX10
Clamping force (at 24.5 MPa)	kN	39.2	61.7	98.0
Clamping stroke(at full stroke)	mm		8	
Traveling stroke	mm		400 ~ 900 (25 pitch)	
Traveling speed	m/sec.		0.18 (50 Hz) · 0.21 (60 Hz)	
Weight ※	kg	24	26	28
Dimension F	mm	62	78	98
N	mm	65	71	77
P	mm	24	16	6

※ The figure indicates when stroke is 800mm. It increases or decreases by about 0.6kgs for every 100mm stroke.

Pascal control unit  
**HCPA – H22** D D + Air solenoid valve unit  
**GSA** 3 + Air solenoid valve unit  
**GSA** 3

Number of hydraulic and air circuits				Number of TR	TR clamp size	Operational
Upper clamp (TR)		Lower clamp	Die-lifter			
Hydraulic pressure	Air	Hydraulic pressure	Hydraulic pressure			
2	6	—	—	40	TXD063	Selectable

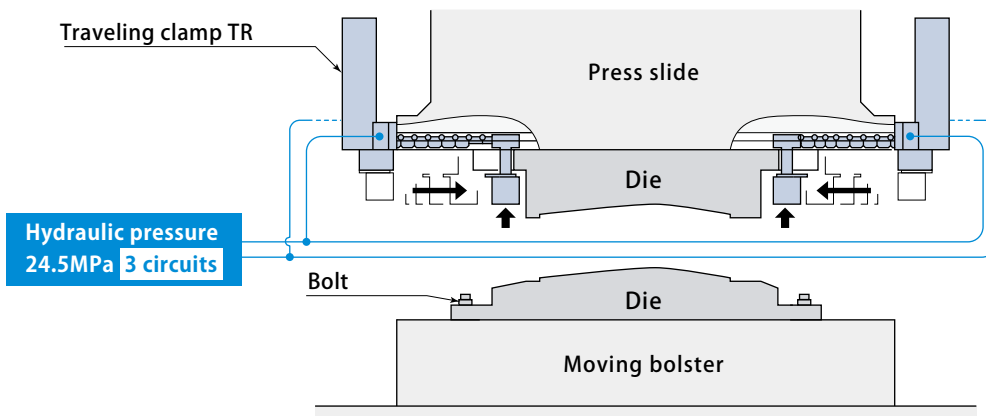
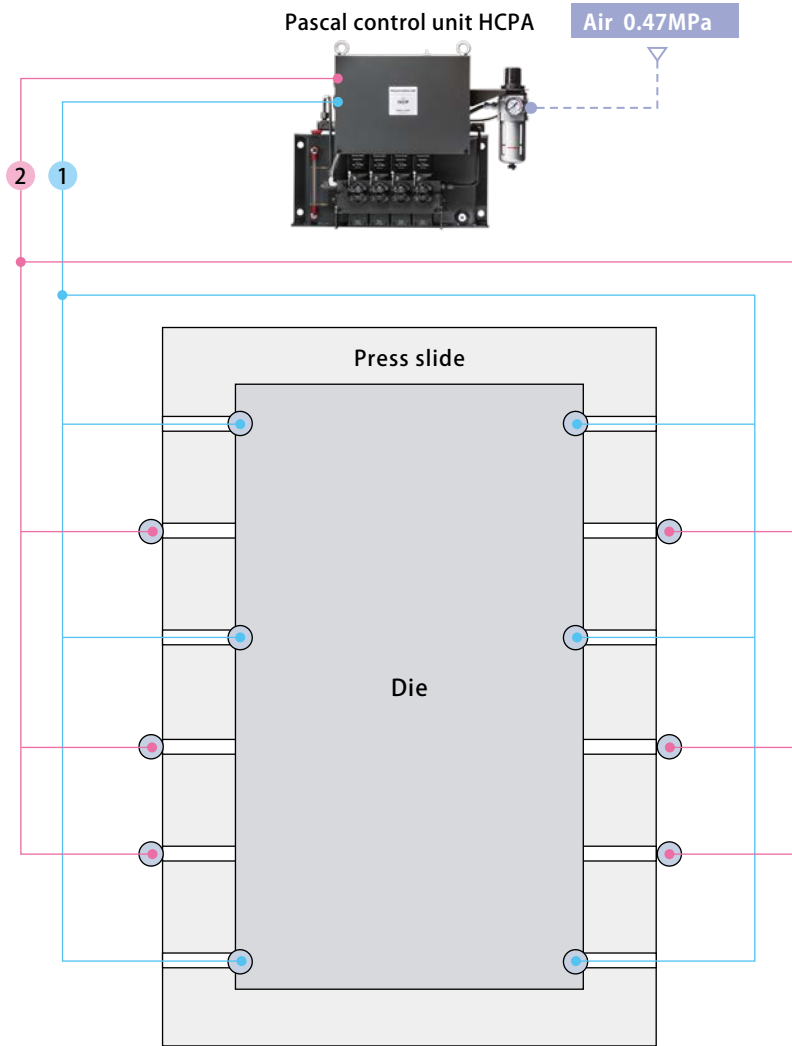




Pascal control unit

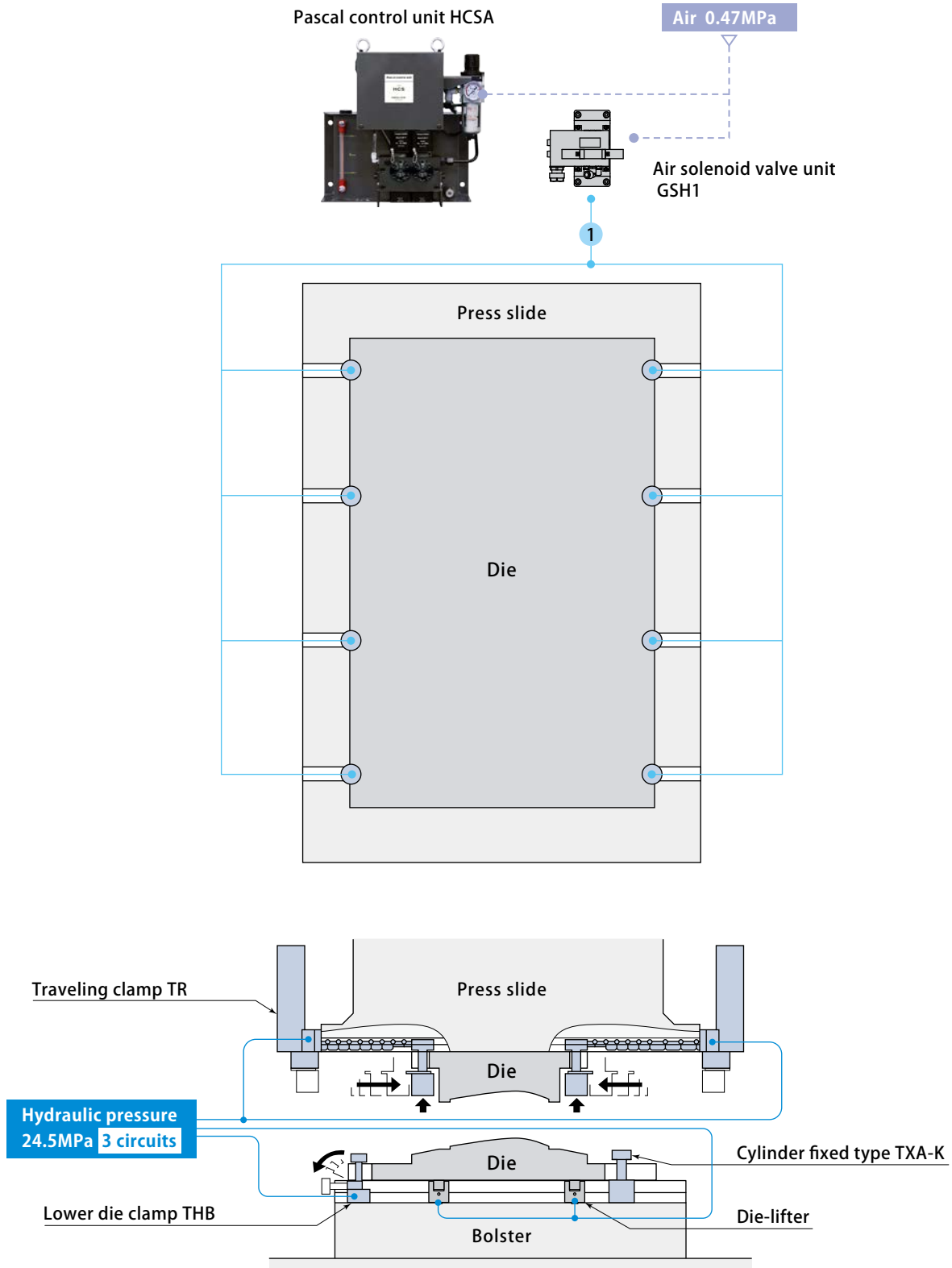
HCPA – H22 **D** **D** – **T2**

Number of hydraulic and air circuits				Number of TR	TR clamp size	Operational
Upper clamp (TR)		Lower clamp	Die-lifter			
Hydraulic pressure	Air	Hydraulic pressure	Hydraulic pressure			
2	2	–	–	12	TXD100	Selectable



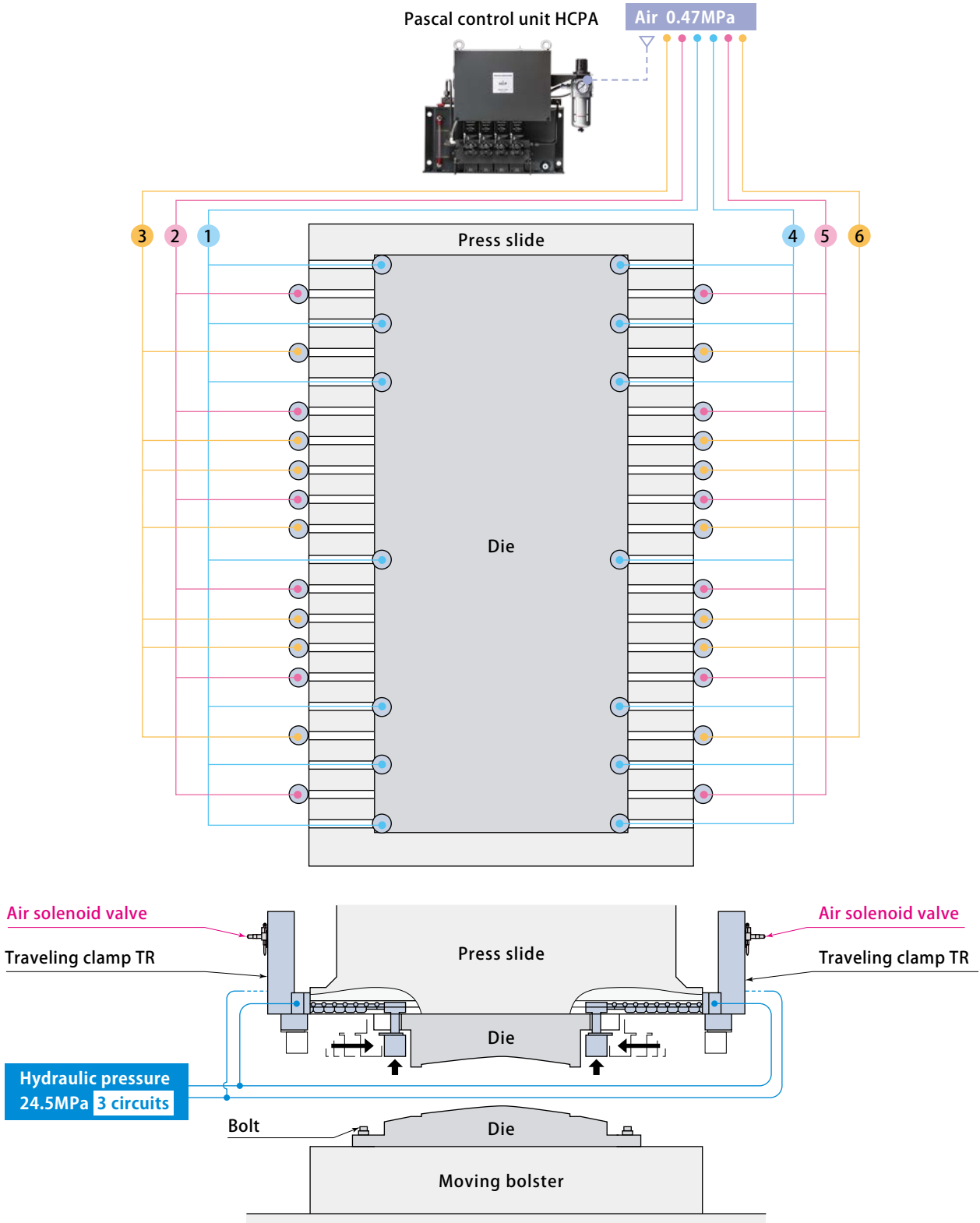
Pascal control unit  
**HCSA – H2 D D F** + Air solenoid valve unit  
**GSA 1**

Number of hydraulic and air circuits				Number of TR	TR clamp size	Operational
Upper clamp (TR)		Lower clamp	Die-lifter			
Hydraulic pressure	Air	Hydraulic pressure	Hydraulic pressure			
1	1	1	1	8	TXD100	Select all

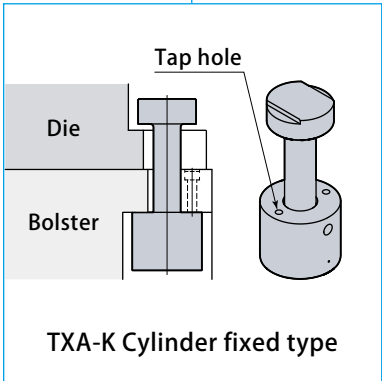
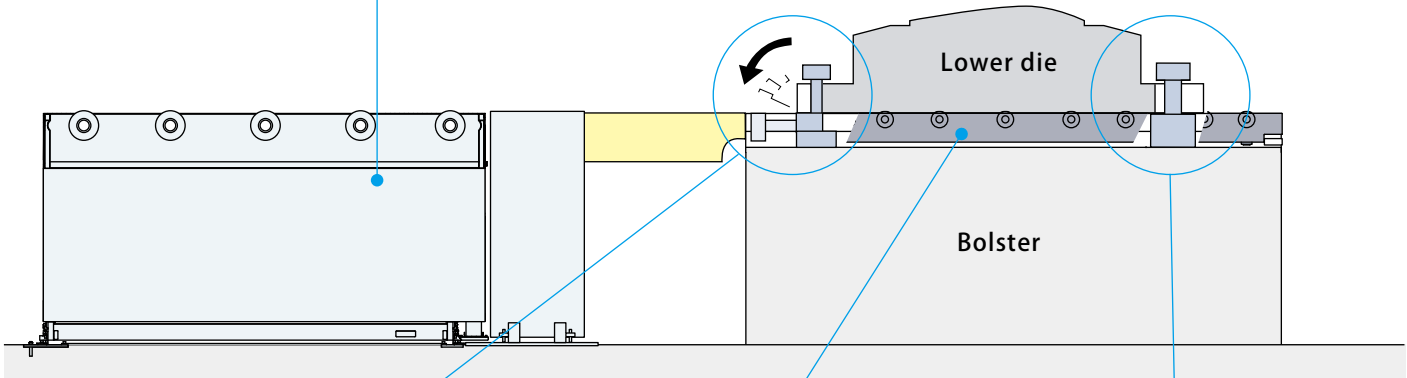
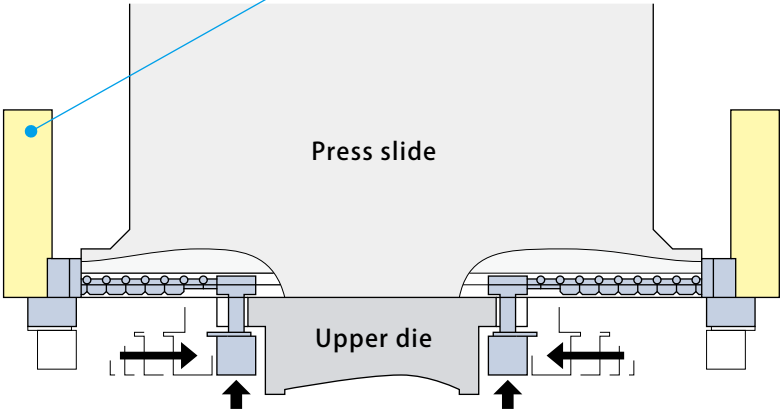


Pascal control unit  
**HCPA – H22** D D + Air solenoid valve unit ( 6circuit )

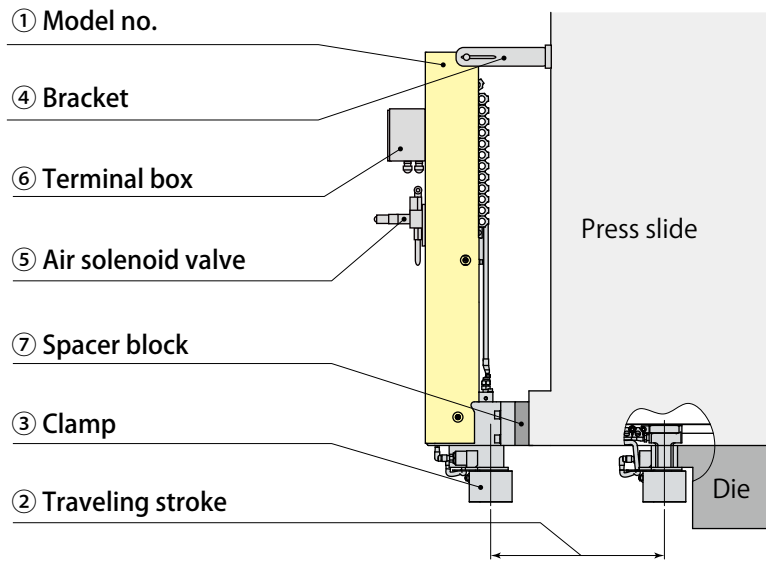
Number of hydraulic and air circuits				Number of TR	TR clamp size	Operational
Upper clamp (TR)		Lower clamp	Die-lifter			
Hydraulic pressure	Air	Hydraulic pressure	Hydraulic pressure			
2	6	—	—	40	TXD063	Selectable

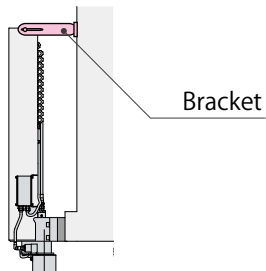


Example of automated die change system



# Traveling clamp specification confirmation



① Model No.	TRAK / TRAG ( Quick maintenance type )	
② Traveling stroke	300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300	
③ Clamping force	With U-cut on the mold	:TXD040, TXD063, TXD100, (TXD160)
	Without U-cut on the die	:TYD040, TYD063, (TYD100)
④ Bracket position	Standard / Non standard	
⑤ Air solenoid valve	Yes / No	
⑥ Terminal box mount position	Standard	Non standard (Front)
⑦ Spacer block	Thin-model (Shorter than 100mm stroke)	Thick-model (Longer than 100mm stroke)





# Pascal

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