



**TYA**  
Slidable type

Model		TYA010	TYA020	TYA040	TYA063	TYA100	TYA160	TYA250
Clamping force (at 24,5 Mpa)	kN	9.8	19.6	39.2	61.7	98	156	245
Full stroke	mm	6	7	7	8	8	8	8
Clamping stroke	mm	3	4	4	4	4	4	4
Safety stroke	mm	3	3	3	4	4	4	4
Cylinder capacity (at full stroke)	cm <sup>3</sup>	2.4	6.3	13.2	22.3	37	61	93
Proof pressure	MPa	20.5						
Working hydraulic pressure	MPa	24.5						
Operating temperature	°C	0 ~ 70 (5~120 by heat proof type)						
Weight	kg	1	3	4.5	9	15	25	35

- Safety stroke and clamping stroke shown above are subject to change depending on dimensions of mold and T-slot.
- Weight varies according to the dimension of clamp t-leg and mold plate thickness h.



**TYB**  
Slidable type

Model		TYB040	TYB063	TYB100	TYB160	TYB250
Clamping force (at 24,5 Mpa)	kN	39.2	61.7	98.0	156	245
Full stroke	mm	10	10	12	12	12
Clamping stroke	mm	4	4	4	4	4
Safety stroke	mm	6	6	8	8	8
Cylinder capacity (at full stroke)	cm <sup>3</sup>	16.5	26.1	47.2	78.2	130
Proof pressure	MPa	36.7				
Working hydraulic pressure	MPa	24.5				
Operating temperature	°C	0 ~ 70 (5~120 by heat proof type)				
Weight	kg	4.5	9	15	25	45

- Safety stroke and clamping stroke shown above are subject to change depending on dimensions of mold and T-slot.
- Weight varies according to the dimension of clamp t-leg and mold plate thickness h.



**TYJ**  
Slidable type

Model		TYJ063	TYJ100	TYJ160	TYJ250
Clamping force (at 24,5 Mpa)	kN	61.7	98	156	245
Full stroke	mm	14	14	16	16
Clamping stroke	mm	1	1	2	2
Safety stroke	mm	13	13	14	14
Cylinder capacity (at full stroke)	cm <sup>3</sup>	34	34	97	167
Proof pressure	MPa	30.8			
Working hydraulic pressure	MPa	24.5			
Operating temperature	°C	0 ~ 70 (5~120 by heat proof type)			
Weight	kg	9	15	25	45

- Safety stroke and clamping stroke shown above are subject to change depending on dimensions of mold and T-slot.
- Weight varies according to the dimension of clamp t-leg and mold plate thickness h.



**TYC-Z / TYC-R**  
Automatic slidable type

Model		TYC020Z TYC020R	TYC040Z TYC040R	TYC063Z TYC063R	TYC100Z TYC100R	TYC160Z TYC160R	TYC250Z TYC250R
Clamping force (at 24,5 Mpa)	kN	19.6	39.2	61.7	98	156	245
Full stroke	mm	7	7	8	8	8	8
Clamping stroke	mm	4	4	4	4	4	4
Safety stroke	mm	3	3	4	4	4	4
Standard sliding stroke *1	mm	50, 75, 100, 125, 150		50,75,100, 125, 150, 200	50, 75, 100, 125, 150, 200, 250, 300		
Slider driving air pressure	MPa	0.39 ~ 0.54					
Clamp sliding speed	mm/s	30 ~ 80 (adjusted by speed controller)					
Proof pressure	MPa	20.5					
Working hydraulic pressure	MPa	24.5					
Operating temperature	°C	0 ~ 70 (5~120 by heat proof type *2)					
Weight	kg	3.5	5	10	16	26	38

- Weight varies according to the dimension of clamp T-leg and mold plate thickness h.  
details of cutout dimensions on mold. \*1 Contact Pascal for the sliding stroke which is not mentioned above.
- \*2 Proximity switch and auto switch will not become a heat proof type.



**TYA-M**  
T-slot-less  
slidable type

Model		TYA010M	TYA020M	TYA040M	TYA063M	TYA100M	TYA160M
Clamping force (at 24,5 Mpa)	kN	9.8	19.6	39.2	61.7	98	156
Full stroke	mm	6	7	7	8	8	8
Clamping stroke	mm	3	4	4	4	4	4
Safety stroke	mm	3	3	3	4	4	4
Cylinder capacity (at full stroke)	cm <sup>3</sup>	2.4	6.3	13.2	22.3	37	61
Standard sliding stroke	mm	12	38	50	50	65	75
Proof pressure	MPa	20.5					
Working hydraulic pressure	MPa	24.5					
Operating temperature	°C	0 ~ 70 (5~120 by heat proof type)					

- Safety stroke and clamping stroke shown above are subject to change depending on dimensions of mold.
- Weight varies according to the dimension of clamp T-leg and side block.
- If the value of sliding stroke exceeds the above table, please contact Pascal later.



**TME**  
Bolted type (small  
and medium IMM)

Model		TME010	TME025	TME040	TME063	TME100	TME160	
Holding force	At working hydraulic pressure	kN	9.8	24.5	39.2	61.7	98	156
	At no hydraulic pressure (MPa)	kN	0.49	0.98	1.56	2.45	3.92	5.88
Clamping force	At working hydraulic pressure	kN	9.8	24.5	39.2	61.7	98	156
Full stroke		mm	3.5	4	4	4	4.5	4.5
Clamping stroke		mm	2	2	2	2	2	2
Safety stroke		mm	1.5	2	2	2	2.5	2.5
Cylinder capacity	Clamp	cm <sup>3</sup>	15	41	92	163	298	470
	Unclamp	cm <sup>3</sup>	6	11	28	48	87	143
Proof pressure		MPa	20.5					
Working hydraulic pressure		MPa	15.6					
(with Pascal non-leak valve)		MPa	13.7					
Operating temperature		°C	0 ~ 70					
Weight		kg	3	6	9	15.5	30	55

- The hydraulic pressure required to unclamp is 2.9 Mpa.



**TKB**  
Bolted type (medium  
and large IMM)

Model		TKB160	TKB250	TKB400	TKB500	
Holding force	At hydraulic pressure 13.7 Mpa	kN	156	245	392	490
	At no hydraulic pressure (0 MPa)	kN	19.6	29.4	49	88.2
Clamping force	At hydraulic pressure 13.7 MPa	kN	49	78.4	137.2	176.5
Full stroke		mm	4.5	4.5	5.5	5.5
Clamping stroke		mm	2	2	2.5	2.5
Safety stroke		mm	2.5	2.5	3	3
Cylinder capacity	Clamp	cm <sup>3</sup>	284	460	859	859
	Unclamp	cm <sup>3</sup>	173	277	507	507
Proof pressure		MPa	20.5			
At working hydraulic pressure		MPa	13.7			
Operating temperature		°C	0 ~ 80			
Weight		kg	38	67	130	160