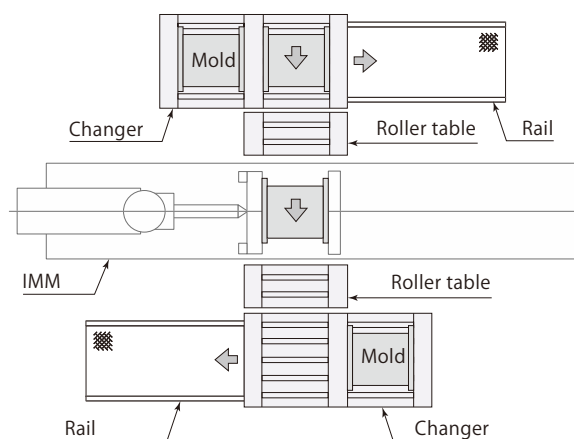


30,000kN IMM Mold 30 ton × 2 molds



Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		30000 kN (3000 tonf)
Max. mold weight		30 ton × 2 molds
Max. mold size	mm	depth : 1900 × height : 1560 × width : 2800
Changer traveling distance	m	3.105



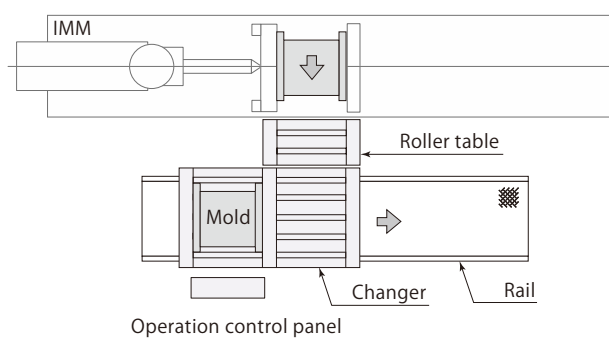
30,000kN IMM Mold 30 ton × 2 molds

Mold changer

Mag clamp



Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		30000 kN (3000 tonf)
Max. mold weight		30 ton × 2 molds
Max. mold size	mm	depth : 2800 × height : 1600 × width : 1900
Changer traveling distance	m	2.4

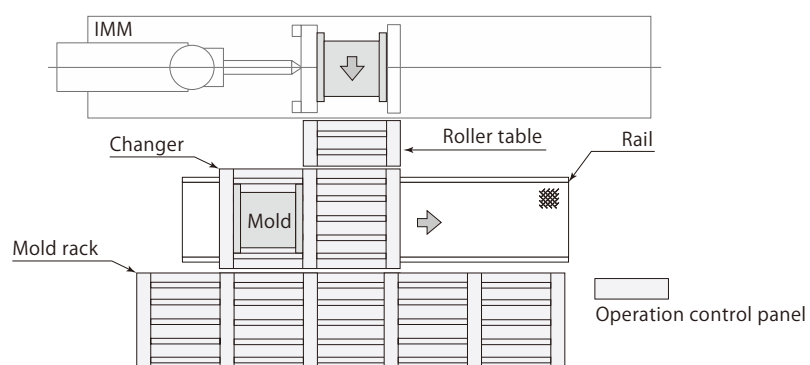


13,000kN IMM Mold 15 ton × 2 molds

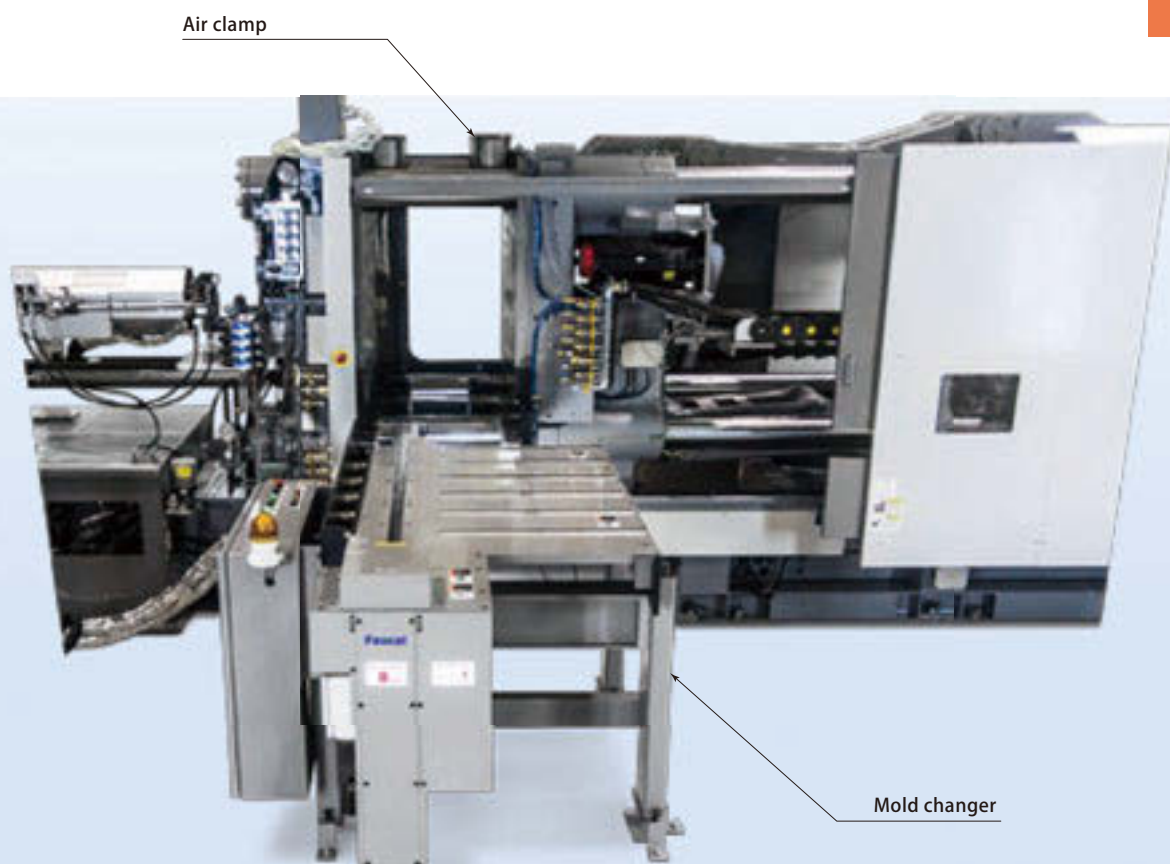
Mold changer



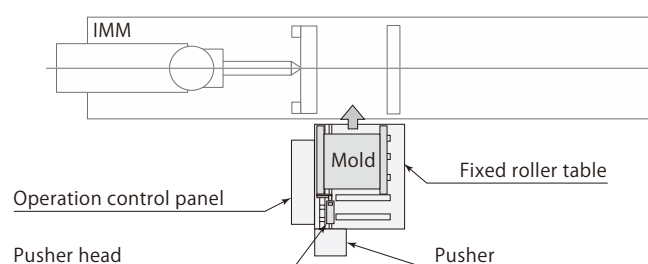
Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		13000 kN (1300 tonf)
Max. mold weight		15 ton × 2 molds
Max. mold size	mm	depth : 1300 × height : 1095 × width : 2000
Changer traveling distance	m	1.9



6,500kN IMM Mold 8 ton × 1 mold



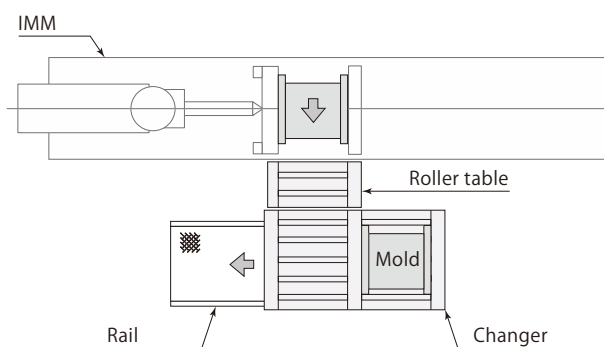
Die stage	
Mold loading	Pusher type
Clamping force of IMM	6500 kN (650 tonf)
Max. mold weight	8 ton × 1 mold
Max. mold size	mm depth : 1300 × height : 900 × width : 1000



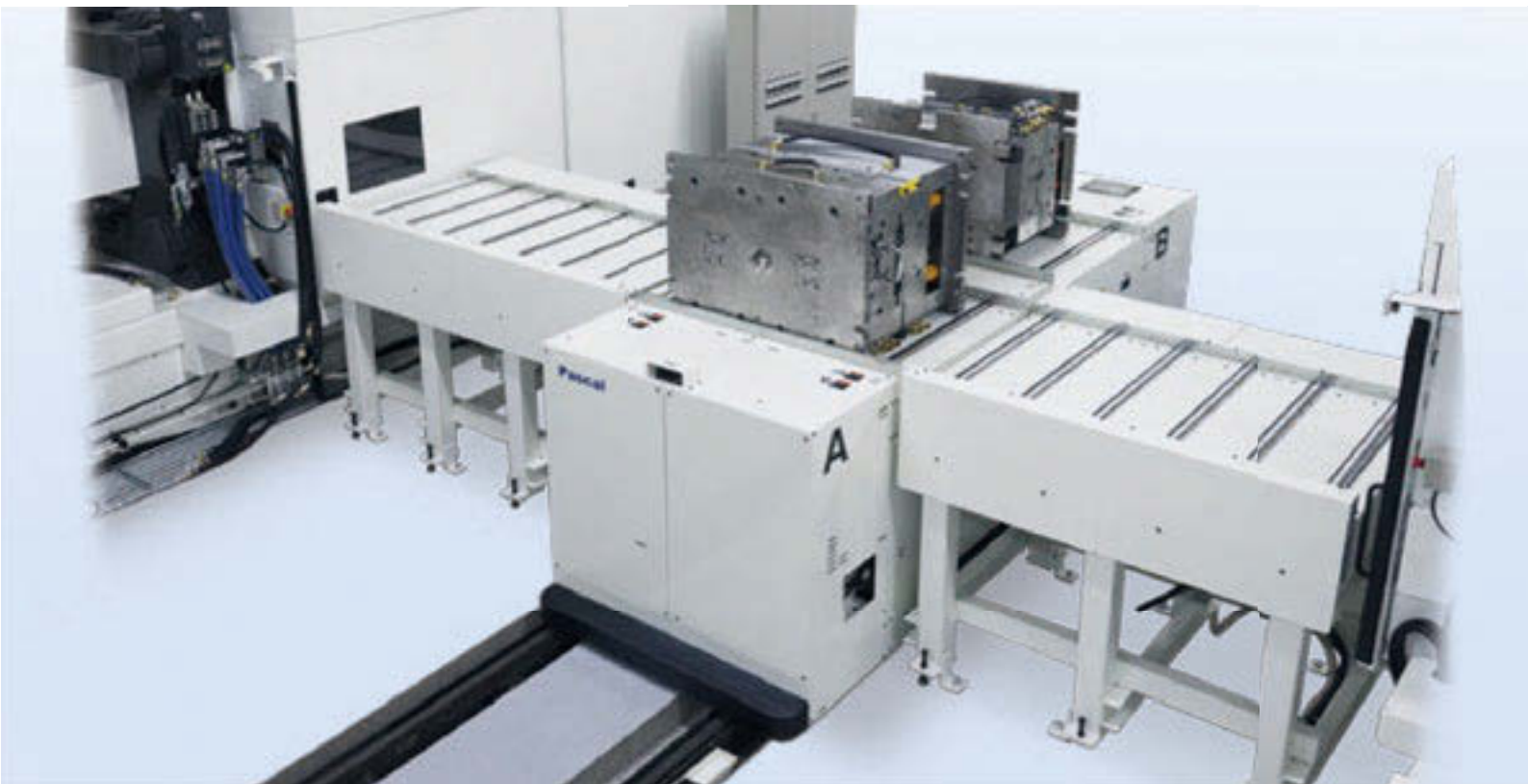
6,500kN IMM Mold 5 ton × 2 molds



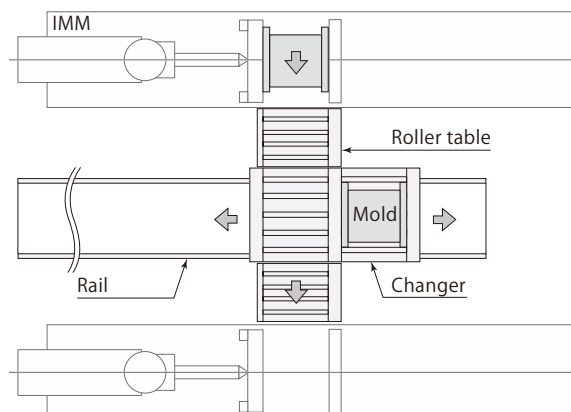
Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		6500 kN (650 tonf)
Max. mold weight		5 ton × 2 molds
Max. mold size	mm	depth : 950 × height : 1080 × width : 1540
Changer traveling distance	m	1.25



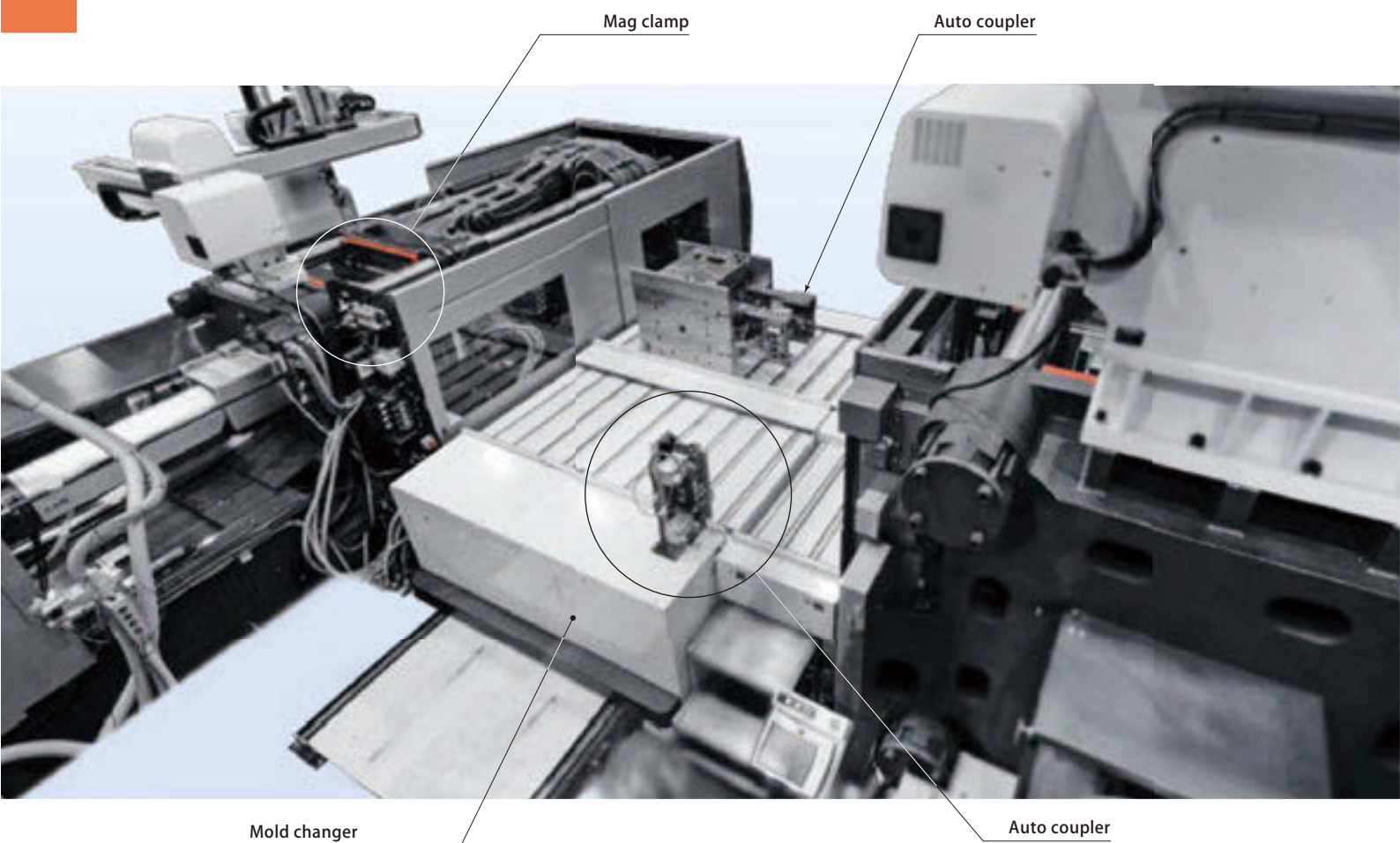
4,500kN IMM Mold 4 ton × 2 molds



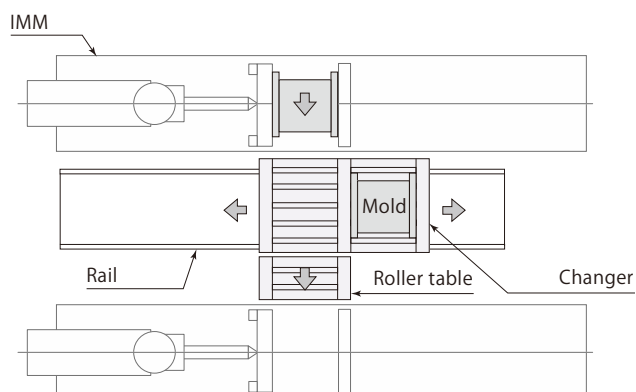
Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		4500 kN (450 tonf)
Max. mold weight		4 ton × 2 molds
Max. mold size	mm	depth : 900 × height : 700 × width : 800
Changer traveling distance	m	1.1



4,500kN IMM Mold 4 ton × 2 molds



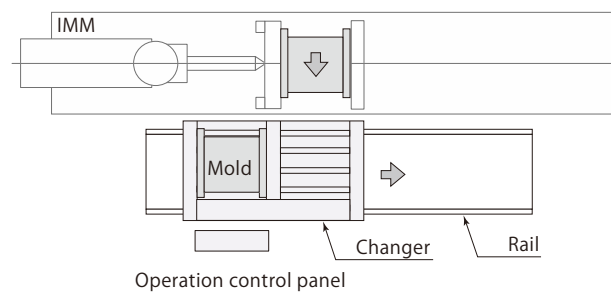
Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		4500 kN (450 tonf)
Max. mold weight		4 ton × 2 molds
Max. mold size	mm	depth : 1180 × height : 810 × width : 800
Changer traveling distance	m	1.4



3,850kN IMM Mold 2.2 ton × 2 molds



Changer travel		Powered, On the rail
Mold loading		Drive rollers type
Clamping force of IMM		3,850 kN (385 tonf)
Max. mold weight		2.2 ton × 2 molds
Max. mold size	mm	depth : 670 × height : 810 × width : 255



3,000kN IMM Mold 1500 kg × 2 molds

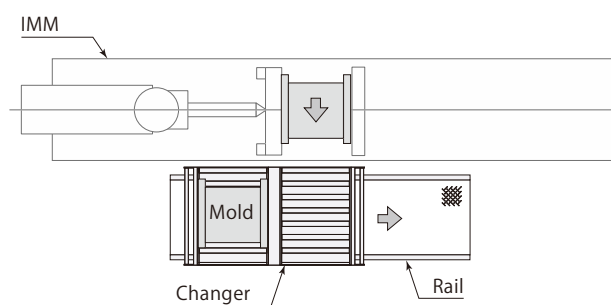
model **QME**

Mag clamp



Mold changer

Changer travel		Manual, On the rail
Mold loading		Manual loading
Clamping force of IMM		3000 kN (300 tonf)
Max. mold weight		1500 kg × 2 molds
Max. mold size	mm	depth : 650 × height : 700 × width : 1130
Changer traveling distance	m	0.85



2,500kN IMM Mold 600 kg × 2 molds

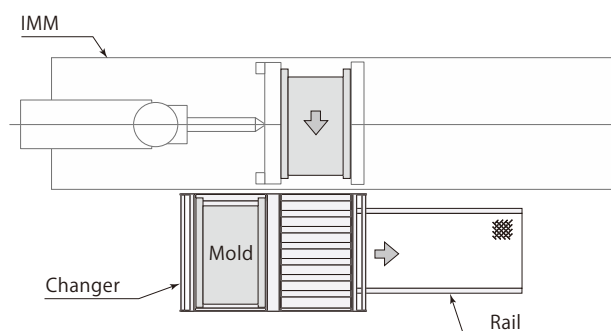
model **QME**

Mag clamp



Mold changer

Changer travel		Manual, On the rail
Mold loading		Manual loading
Clamping force of IMM		2500 kN (250 tonf)
Max. mold weight		600 kg × 2 molds
Max. mold size	mm	depth : 400 × height : 500 × width : 500
Changer traveling distance	m	4.3



1,750kN IMM Mold 600 kg × 2 molds

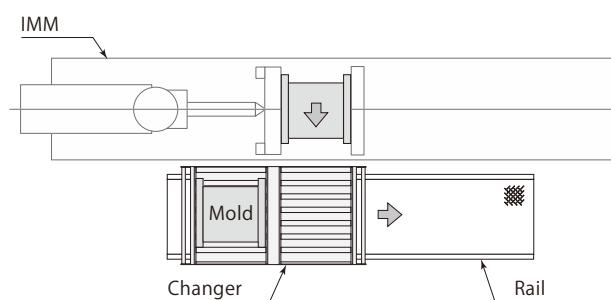
Mag clamp

model **QME**



Mold changer

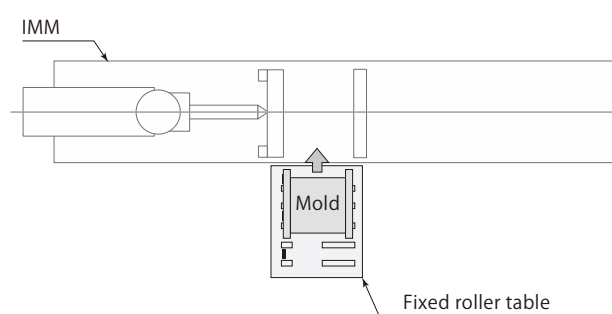
Changer travel		Manual, On the rail
Mold loading		Manual loading
Clamping force of IMM		1750 kN (175 tonf)
Max. mold weight		600 kg × 2 molds
Max. mold size	mm	depth : 500 × height : 480 × width : 500
Changer traveling distance	m	0.65 (Max. 1.75)



1,600kN IMM Mold 25 ton × 1 mold



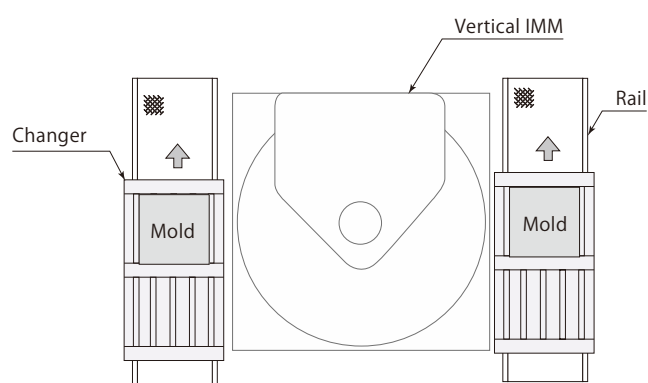
Die stage	
Mold loading	Pin gear type
Clamping force of IMM	1600 kN (160 tonf)
Max. mold weight	25 ton × 1 mold
Max. mold size	mm depth : 2800 × height : 1560 × width : 1500



500kN IMM Mold 800 kg × 2 molds



Changer travel		Manual, Non track
Mold loading		Manual loading
Clamping force of IMM		1500 kN (150 tonf)
Max. mold weight		800 kg × 2 molds
Max. mold size	mm	depth : 500 × width : 520
Changer traveling distance	m	0.63



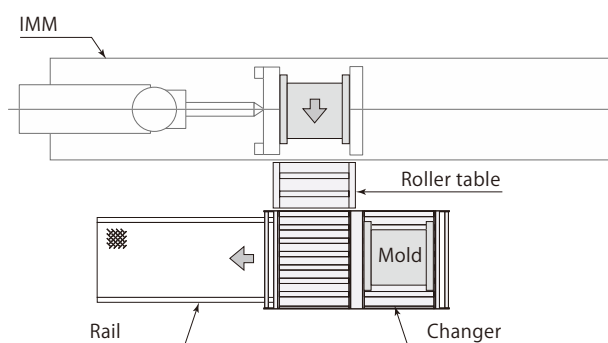
1,500kN IMM Mold 700 kg × 2 molds

Mag clamp model **QME**



Mold changer

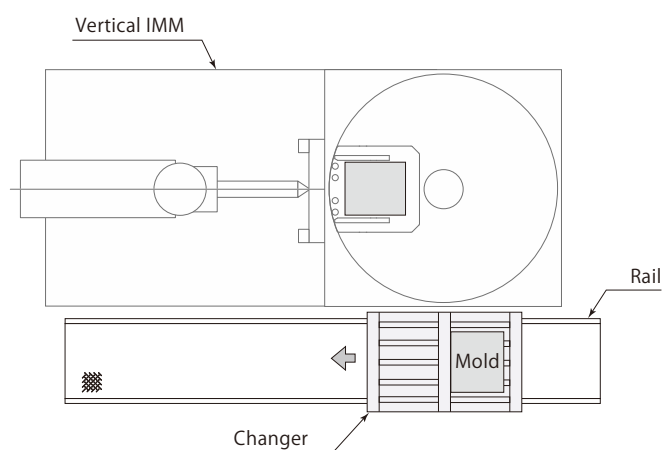
Changer travel		Manual, On the rail
Mold loading		Manual loading
Clamping force of IMM		1500 kN (150 tonf)
Max. mold weight		700 kg × 2 molds
Max. mold size	mm	depth : 575 × height : 500 × width : 800
Changer traveling distance	m	0.75



1,000kN IMM Mold 600 kg × 2 molds



Changer travel		Manual, On the rail
Mold loading		Manual loading
Clamping force of IMM		1000 kN (100 tonf)
Max. mold weight		600 kg × 2 molds
Max. mold size	mm	depth : 280~550 × width : 360
Changer traveling distance	m	0.5



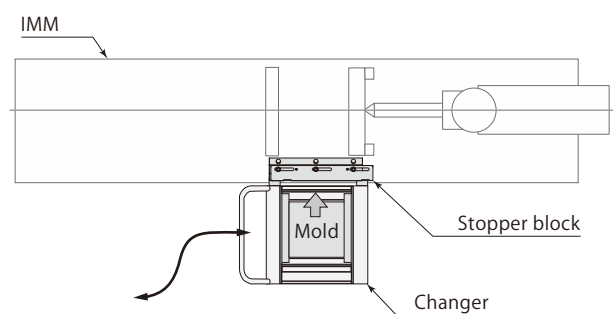
1,000kN IMM Mold 600 kg × 1 mold

model **QMA**

IMM



Changer travel		Manual, Non track
Mold loading		Manual loading
Table		Elevation type
Clamping force of IMM		1000 kN (100 tonf)
Max. mold weight		600 kg × 1 mold
Max. mold size	mm	depth : 400 × height : 400 × width : 400



500kN IMM Mold 300 kg × 2 molds

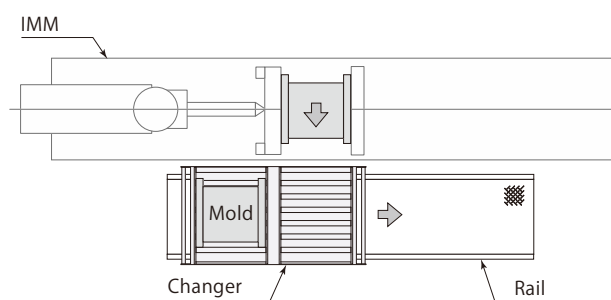
Air clamp

model **QME**



Mold changer

Changer travel		Manual, On the rail
Mold loading		Manual loading
Clamping force of IMM		500 kN (50 tonf)
Max. mold weight		300 kg × 2 molds
Max. mold size	mm	depth : 350 × height : 350 × width : 350
Changer traveling distance	m	0.55 (Max. 1.1)



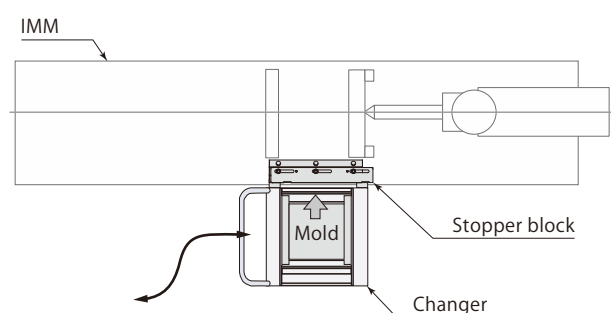
500kN IMM Mold 300 kg × 1 mold

model **QMA**

IMM



Changer travel	Manual, Non track
Mold loading	Manual loading
Table	Elevation type
Clamping force of IMM	500 kN (50 tonf)
Max. mold weight	300 kg × 1 mold
Max. mold size	mm depth : 340 × height : 340 × width : 280

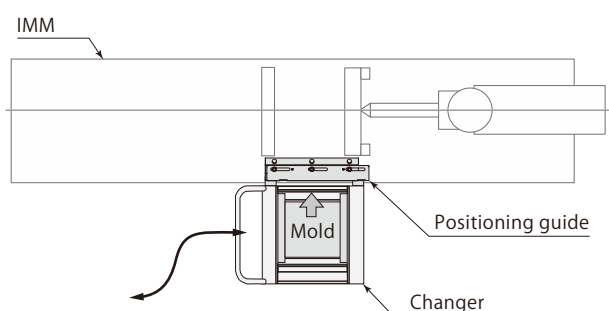


490kN IMM Mold 600 kg × 1 mold

model **QMA**

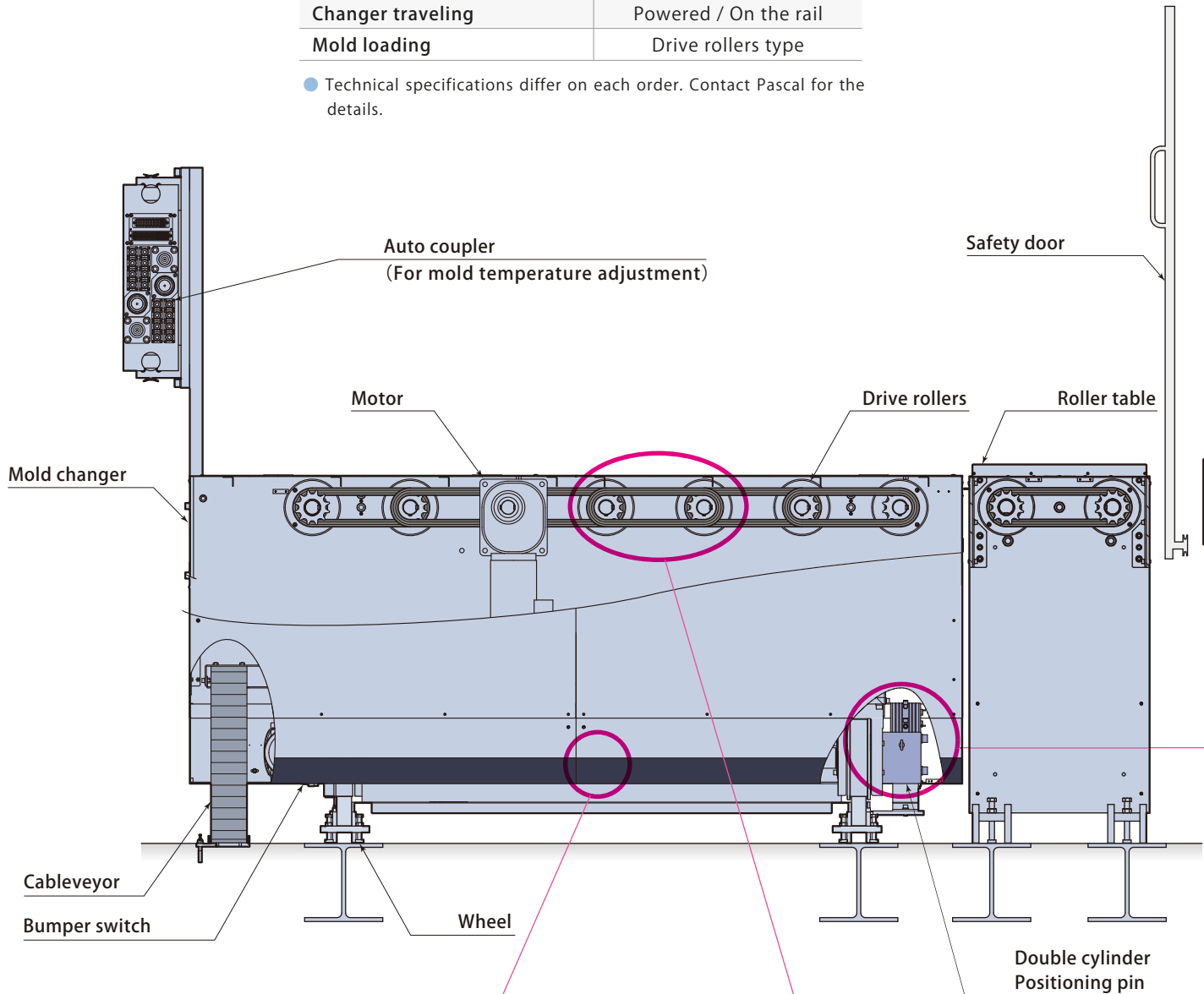


Changer travel	Manual, Non track
Mold loading	Manual loading
Table	Elevation type
Clamping force of IMM	490 kN (49 tonf)
Max. mold weight	600 kg × 1 mold
Max. mold size	depth : 300 × height : 270 × width : 255



Clamping force of IMM		30000 kN (3000 tonf)
Max. mold weight	kg	30000
Number of mold		2
Changer traveling		Powered / On the rail
Mold loading		Drive rollers type

● Technical specifications differ on each order. Contact Pascal for the details.



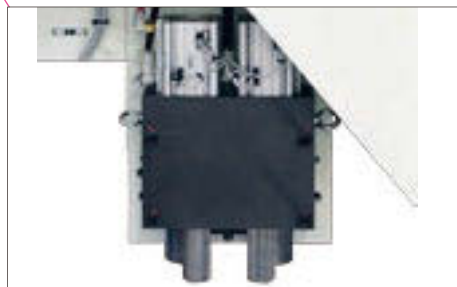
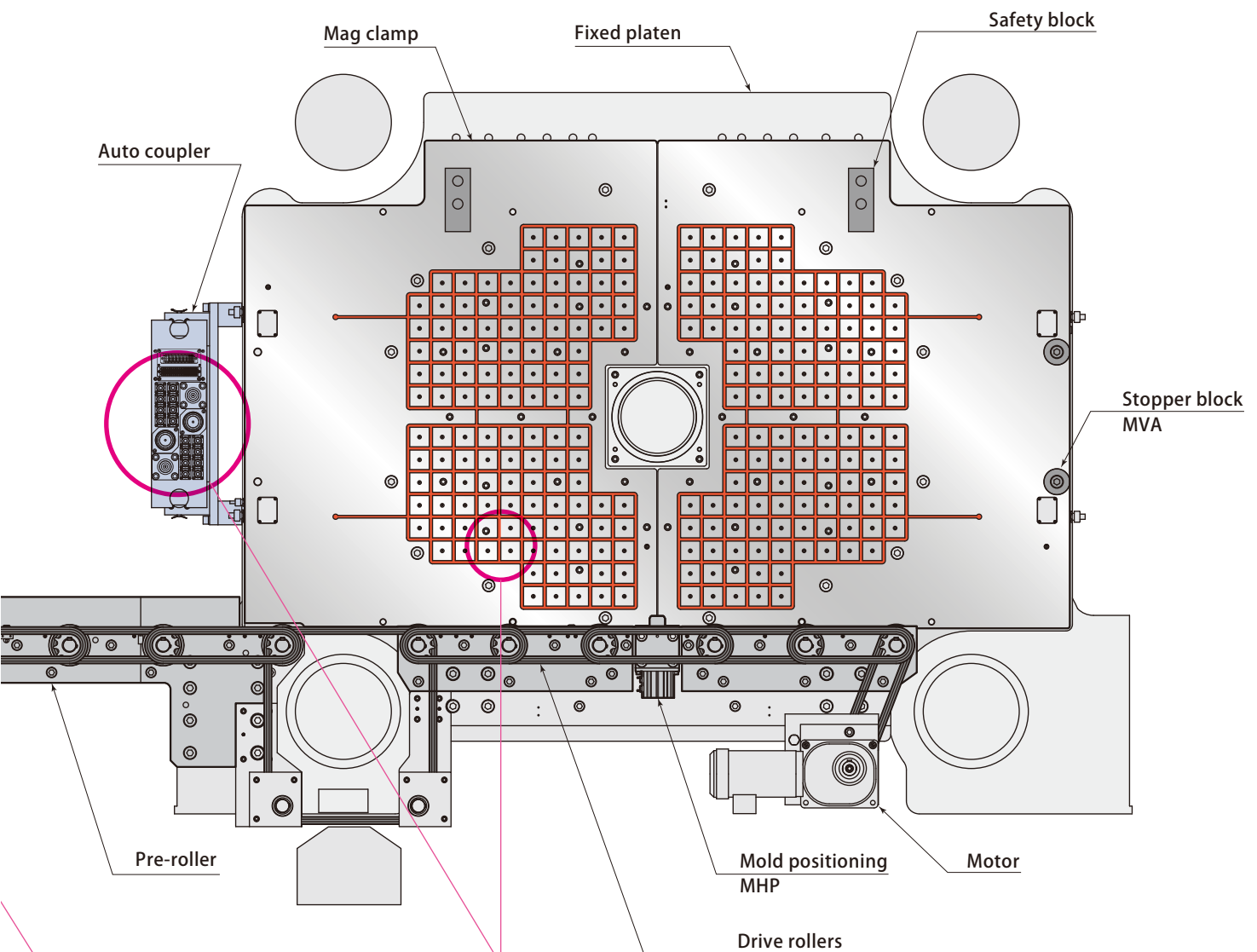
Bumper switch with function of cushion

It is a safety switch which alleviates the shock or impact when the bumper makes contact.



Highly rigid rollers

The rollers are cut out from a block of material and have excellence for high rigidity and durability.



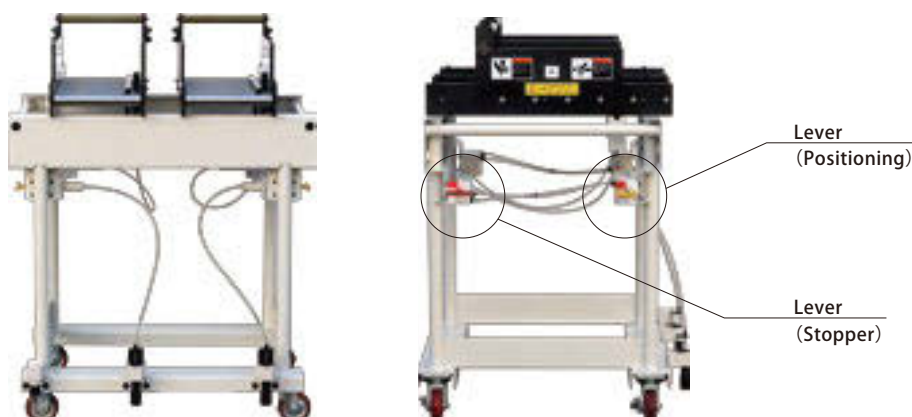
Double cylinder Positioning pin

Mold changer is positioned by the double cylinder positioning pin. 2 pins pinch the block rigidly and the changer can be positioned accurately.

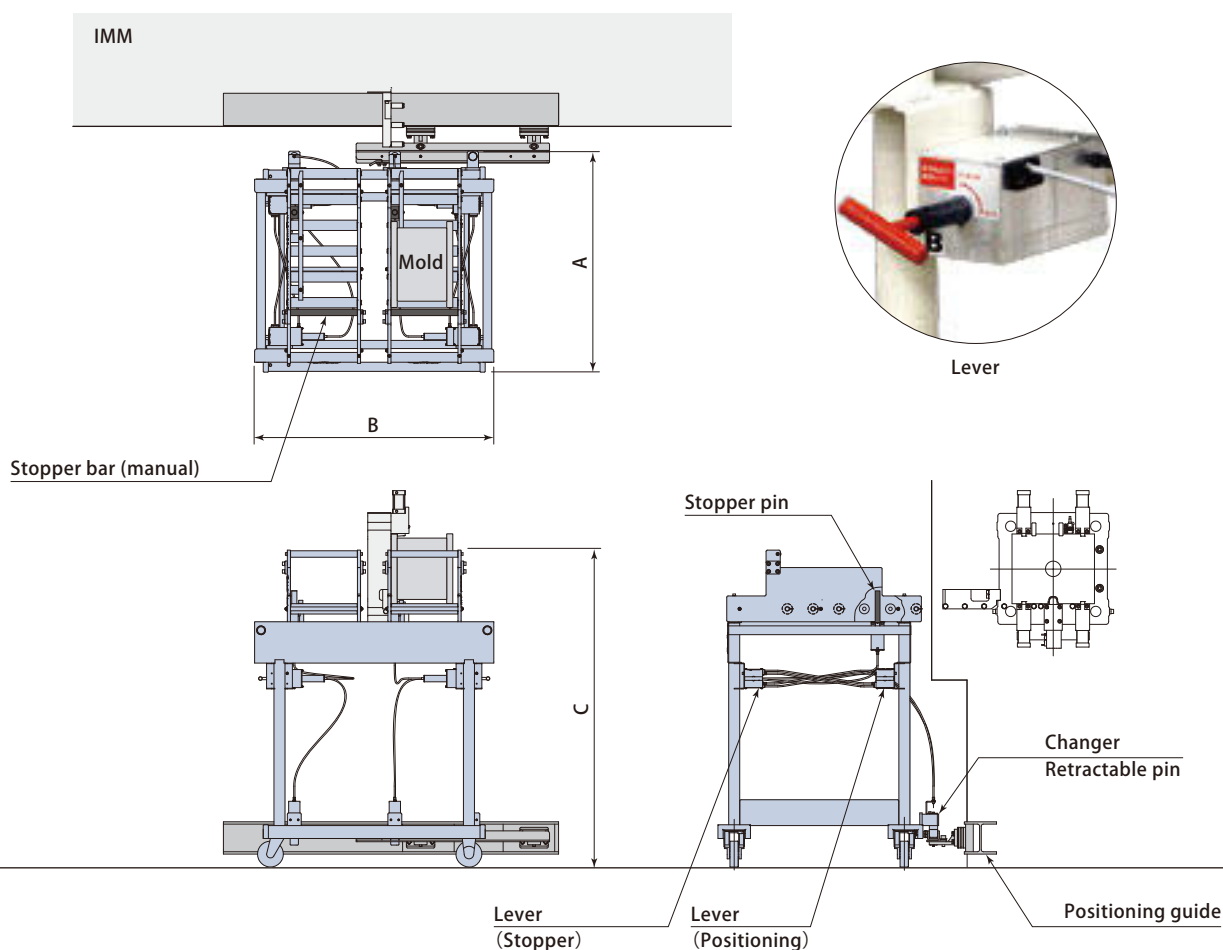


Mag clamp & Auto coupler

Introduction of mold changer, mag clamp and auto coupler makes the total automation of the mold change operation realized.

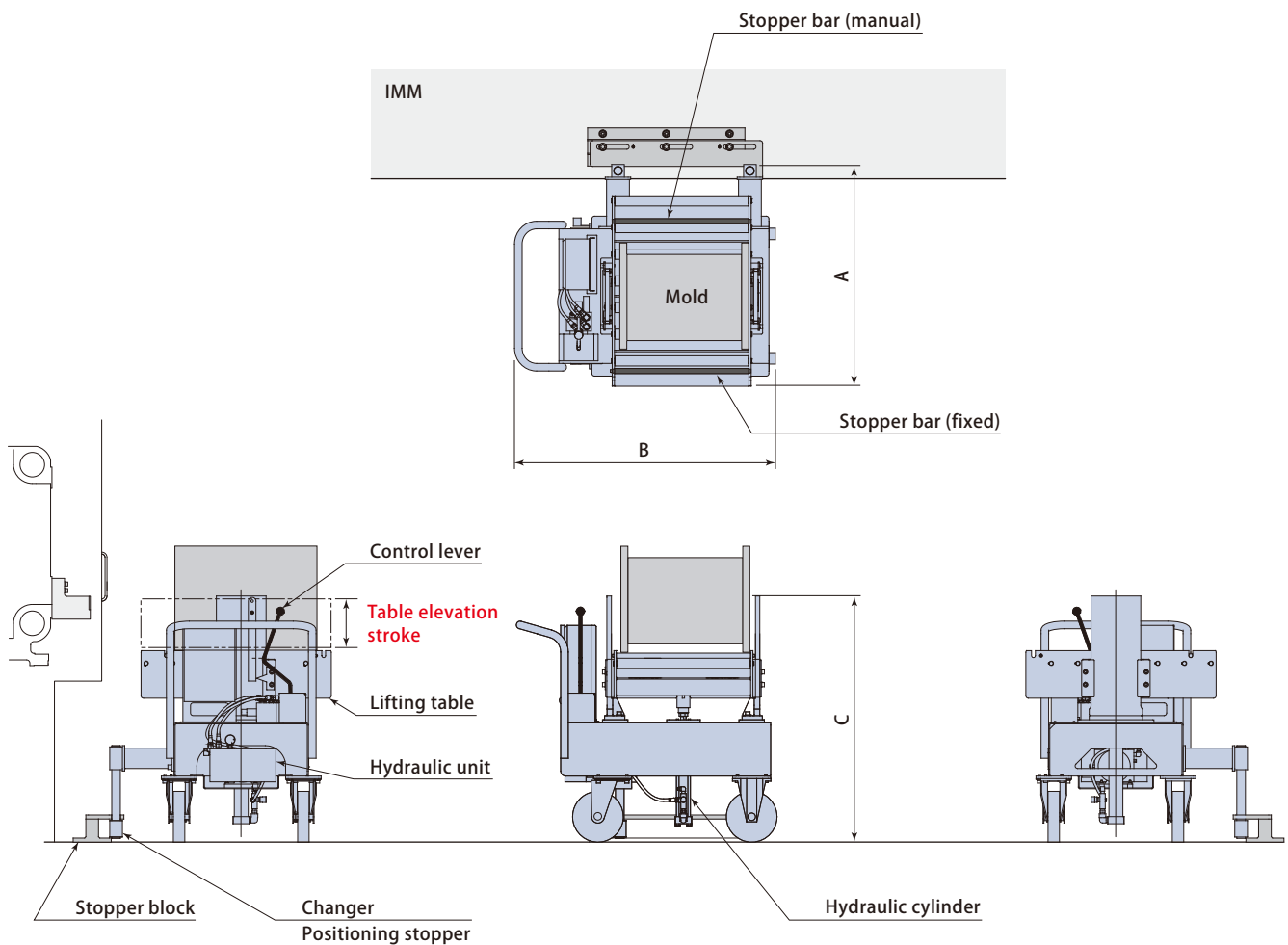


- Safety Interlock : While the mold is traveling(the positioning pin of mold changer is unlocked), the mold fall protection pin can not be released. While the mold is loaded/unloaded(the mold fall protection pin is unlocked), the positioning pin of mold changer can not be released.



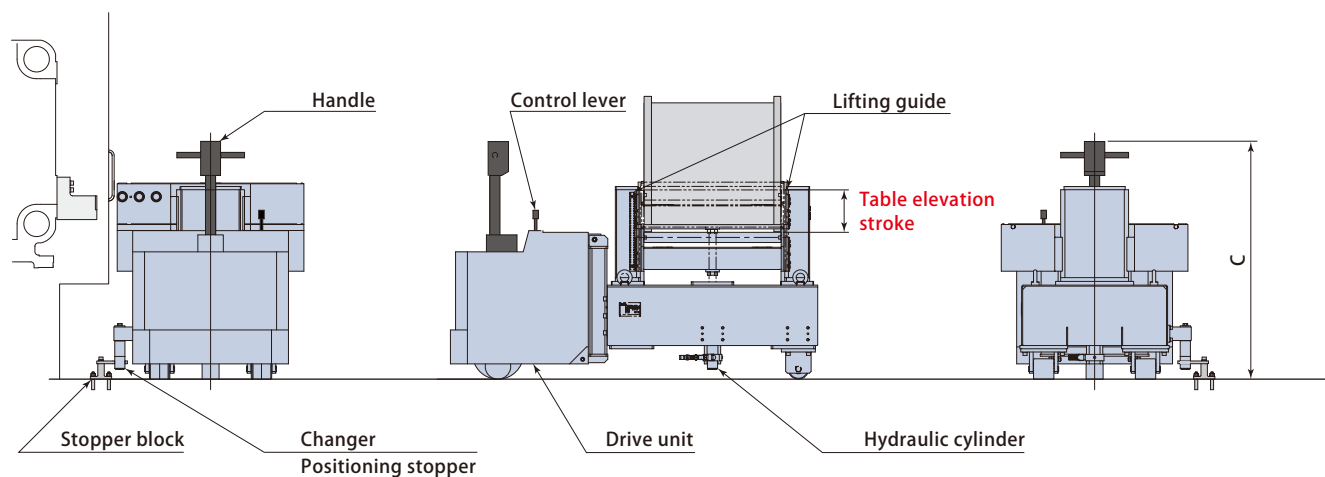
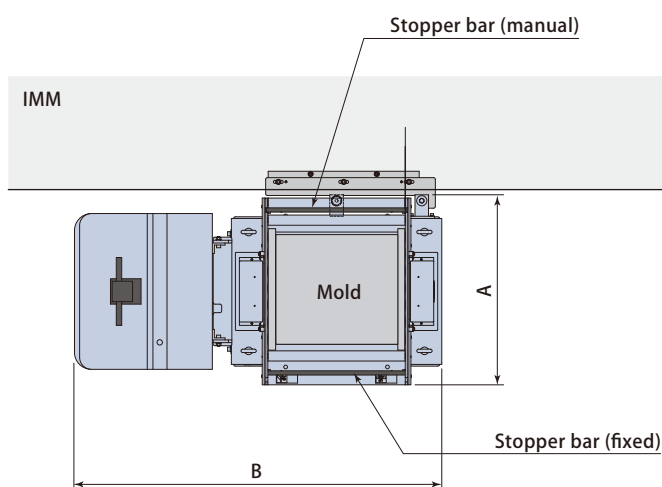
Model		QMF1	QMF2
Clamping force of IMM		400 ~ 1000 kN (40 ~ 100 tonf)	400 ~ 600 kN (40 ~ 60 tonf)
Max. mold weight	kg	600	300
Number of load		1 mold	2 molds
A	mm	525.5	594
B	mm	636.5	1065
C	mm	1131	1069

- The table is not elevated.
- For the positioning method of mold changer, there are stopper type and pin type. Refer to the **page →44** for the details.
- The dimension C varies according to the machine level. Contact Pascal for the details.



Model		QMA1	
Clamping force of IMM		400 ~ 1000 kN (40 ~ 100 tonf)	
Max. mold weight	kg	300	600
Number of load		1 mold	
A	mm	705	765
B	mm	1035	1250
C	mm	1190	1190
Max. table lifting stroke	mm	350	

● For the positioning method of mold changer, there are stopper type and pin type. Refer to the **page →44** for the details.

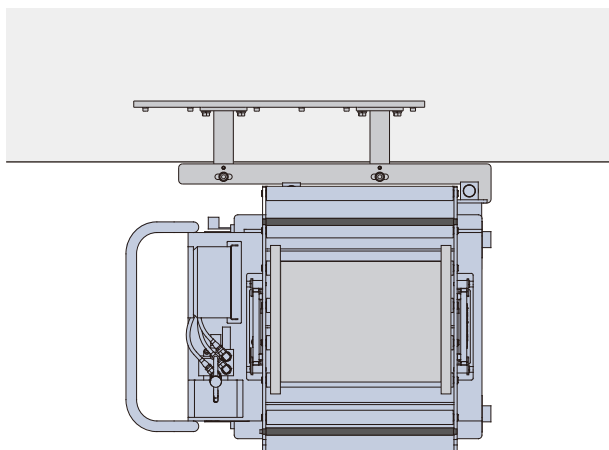
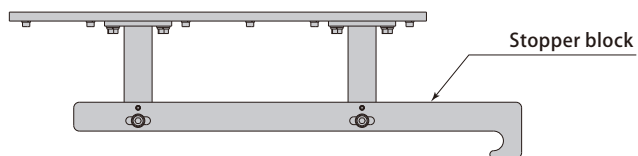


Model	QMB1			
Clamping force of IMM	400 ~ 4500 kN (40 ~ 450 tonf)			
Max. mold weight	kg	800	1500	2500
Number of load		1 mold		
A	mm	888	938	1120
B	mm	1600	1755	2164
C	mm	1330	1330	1400
Max. table lifting stroke	mm	350	400	250

● For the positioning method of mold changer, there are stopper type and pin type. Refer to the **page →44** for the details.

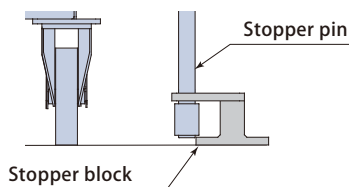
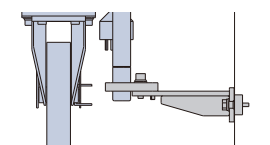
Stopper type

- The changer is positioned by means of the fixed pin (stopper) and the key plate as shown in the sketch below.

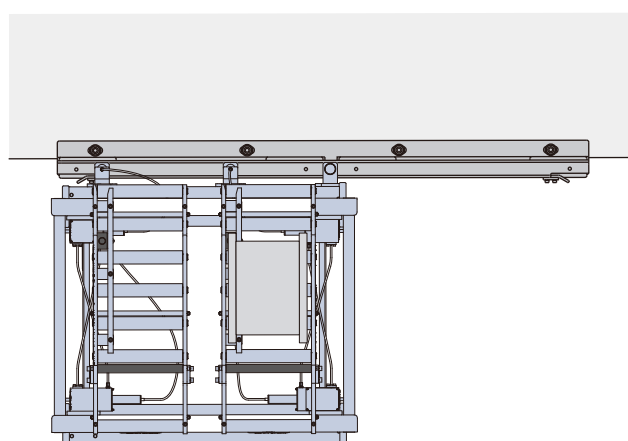
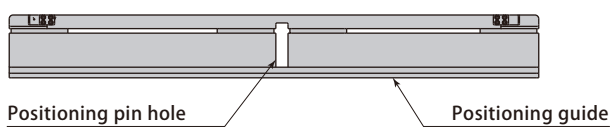
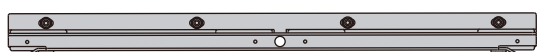
**Mount details**

On the wall of the machine

On the floor (to be anchored)

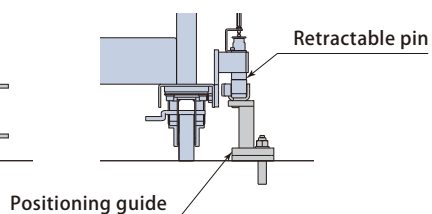
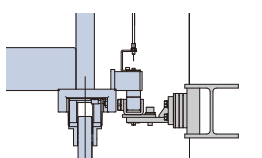
**Positioning pin type**

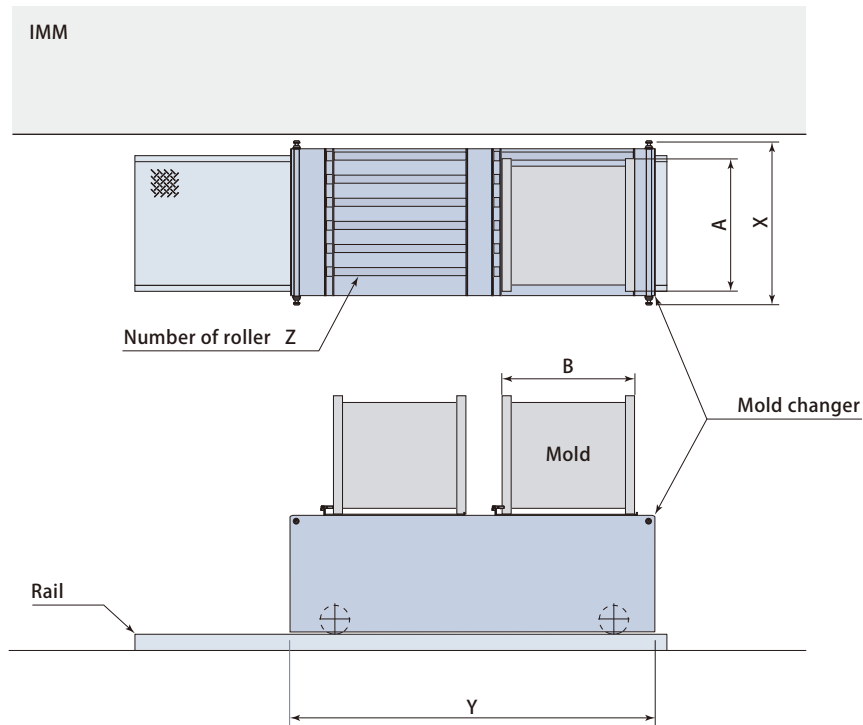
- The changer is positioned by a retractable dowel pin

**Mount details**

On the wall of the machine

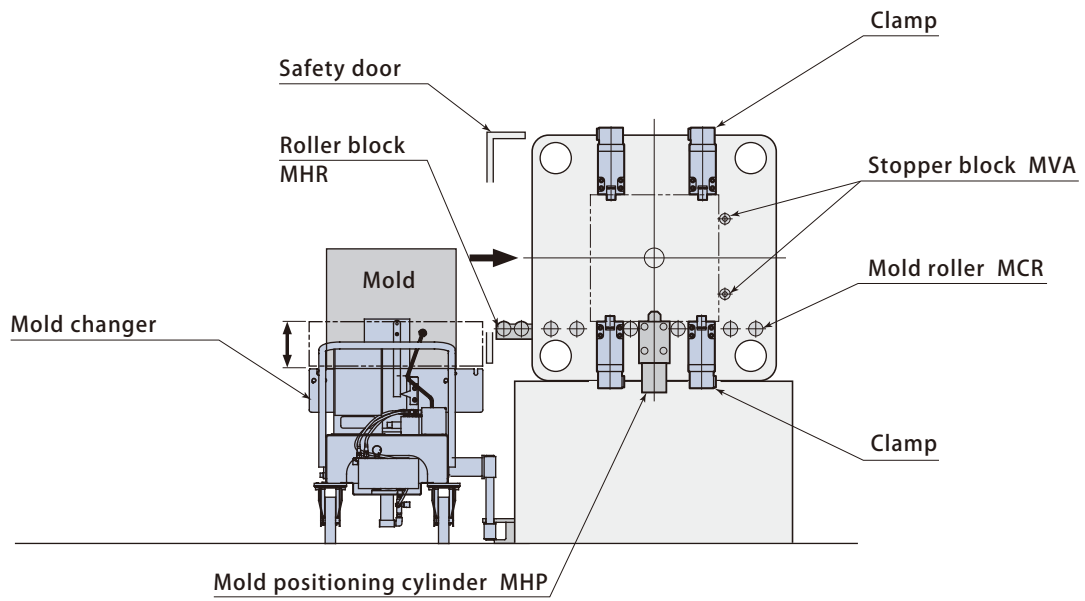
On the floor (to be anchored)



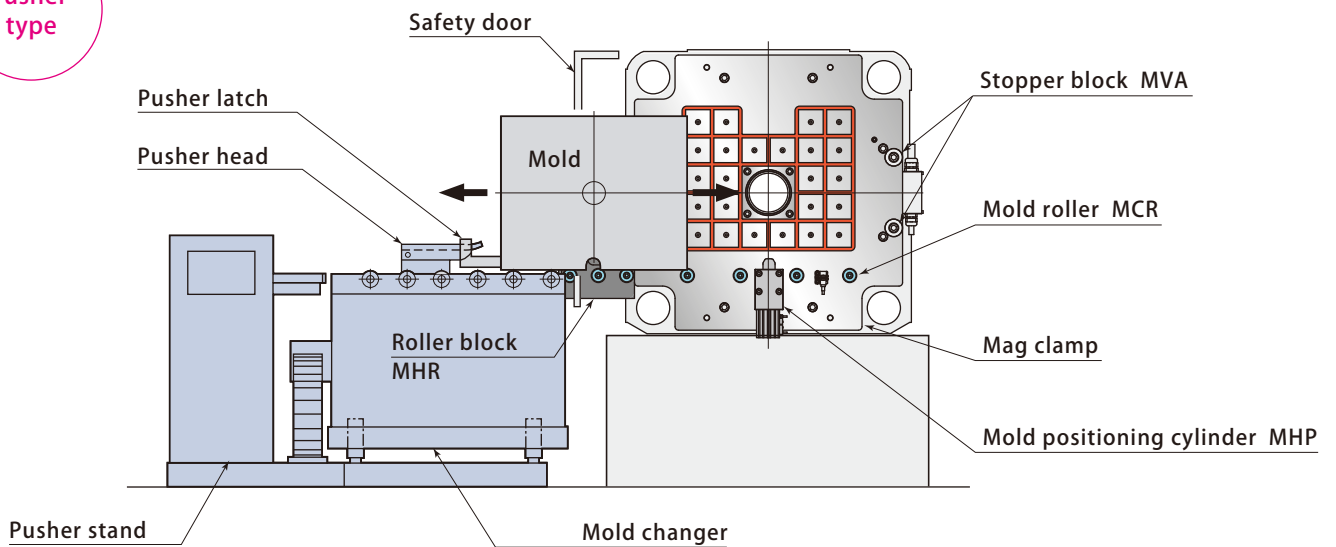


Model			QME					
Clamping force of IMM			500 kN (50 tonf)	800 kN (80 tonf)	1000 kN (100 tonf)	1300 kN (130 tonf)	1500 kN (150 tonf)	2000 kN (200 tonf)
Max. mold weight	kg		300	400	400	600	800	1000
Number of load			2 molds					
Mold width	A	mm	400	400	400	600	600	800
Mold thickness	B	mm	400	400	400	500	500	650
Mold changer width	X	mm	500	500	500	700	700	900
Mold changer length	Y	mm	1250	1250	1250	1450	1450	1750
Number of rollers	Z		4	4	4	5	5	6

Manual loading

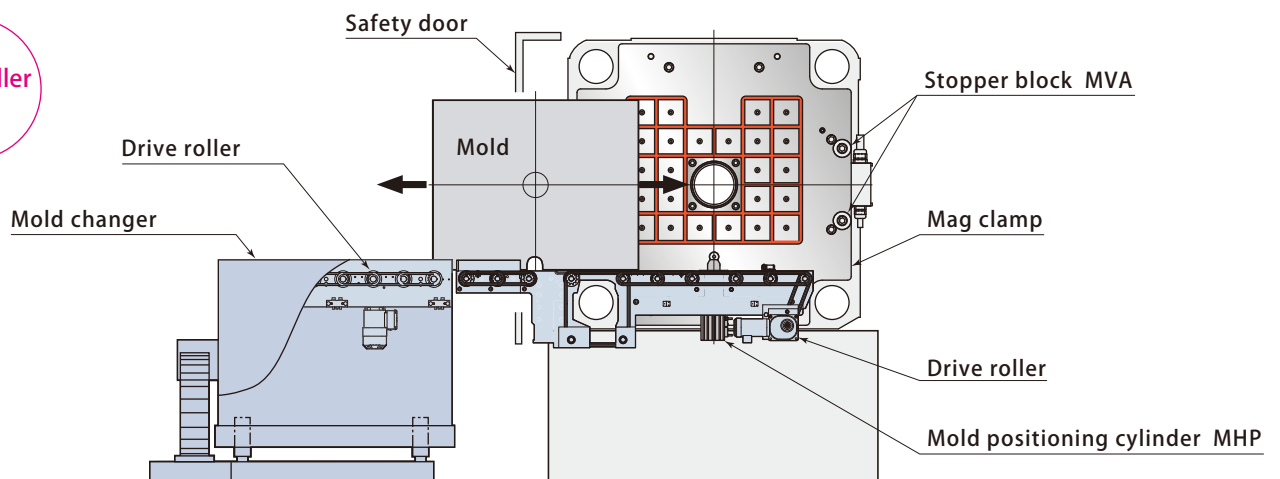


Pusher type

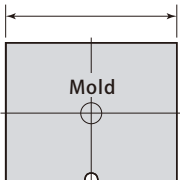
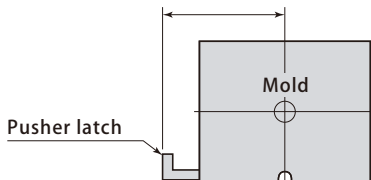
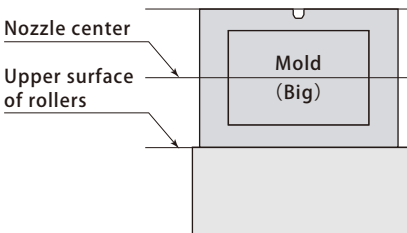
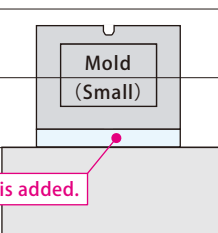
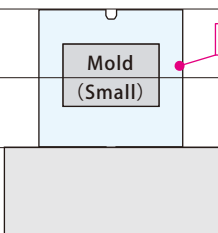
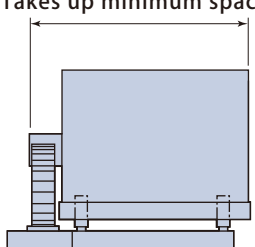
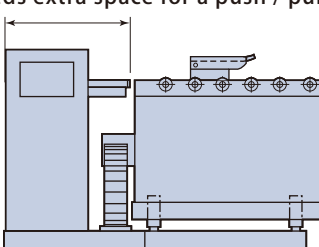


* For the installation of pusher, there are stand type(installed separately) and incorporated type in Mold changer.

Drive roller type



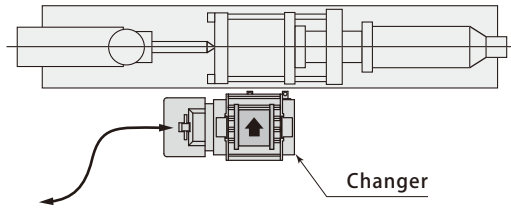
Difference between drive roller type and Pusher type

Type	Drive roller type	Pusher type
Addition of hook	—	Add the pusher latch to the mold
Mold width	No need to unify 	Need to unify 
Mold height	Unify the distance (loading level) from the roller top to the nozzle center. In case of the Mag clamp  In case of the hydraulic / air clamp  In case of the hydraulic / air clamp 	
Mold changer size	Takes up minimum space 	Needs extra space for a push / pull device 

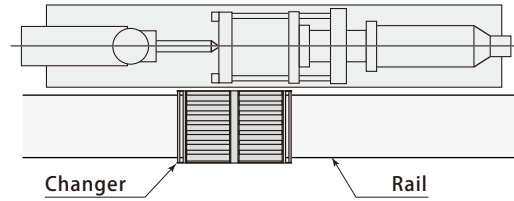


Mold changer Layout example

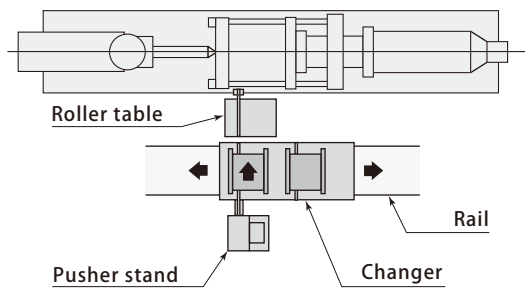
Manual Non track



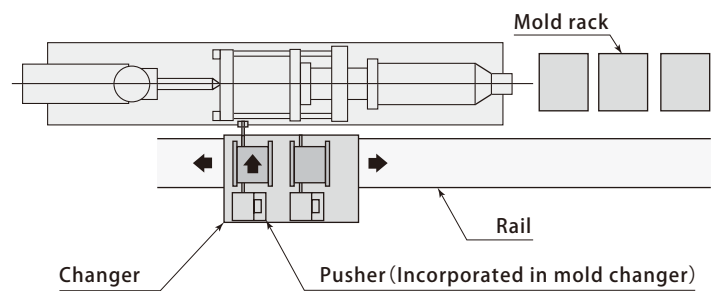
Manual On the rail



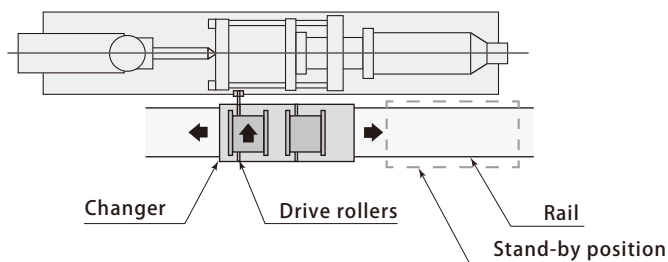
Pusher 1 pitch traveling with roller table 2 molds



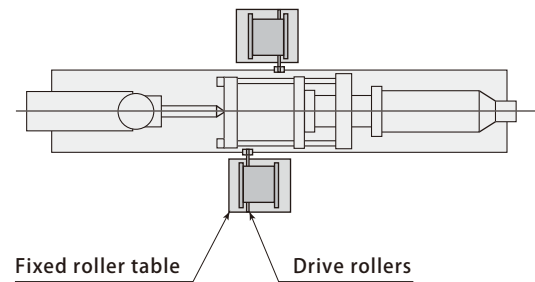
Pusher Short distance traveling 2 molds



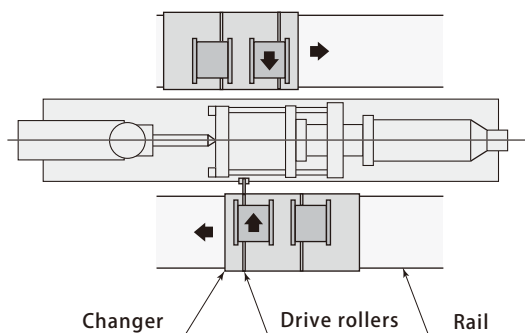
Drive rollers 1 pitch traveling (with standby position) 2 molds



Drive rollers Fixed roller table, 1 molds Pushing in / out style



Drive rollers 1 pitch traveling, 2 molds Pushing in / out style



Drive rollers Long distance traveling 2 molds, Face to face

