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The Blow Molding Machines

中空成型機 Professional Research and All-New Development



CM-40P, CM-40E

空壓式中空成型機【吹氣座上吹式、側吹式】 Pneumatic Type Blow Molding Machine

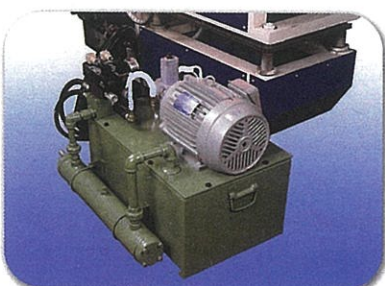
○FEATURES

- 01. It is the most economical and high performance machinery for producing small bottles and containers. Such as drug bottle, toy, popsicle / frozen bar, etc.
- 02. Screw can be designed upon customer's request, the screw & barrel are made of special steel and processed by nitriding.
- 03. Water cooling system controls feeding zone temperature.
- 04. It also can with hydraulic power pack for clamping.

○SAMPLE BOTTLES



○OPTIONAL



Hydraulic Power Pack for Clamping



CM-40P



CM-40E

CM-I, 75I, 90I

蓄積式中空成型機 Accumulator Type Blow Molding Machine

○FEATURES

- 01. Especially suited to mold medium and large volume capacity containers. (ex. jerry cans, water tanks, and tool boxes) ranging from 10 to 30 liters.
- 02. The inside components of the diehead are nitrified, tempered and precision ground.
- 03. A specially-designed by pass circuit permits a very secure mold clamping effect.
- 04. The entire extruder can be adjusted automatically in an upward / downward direction through hydraulic power.

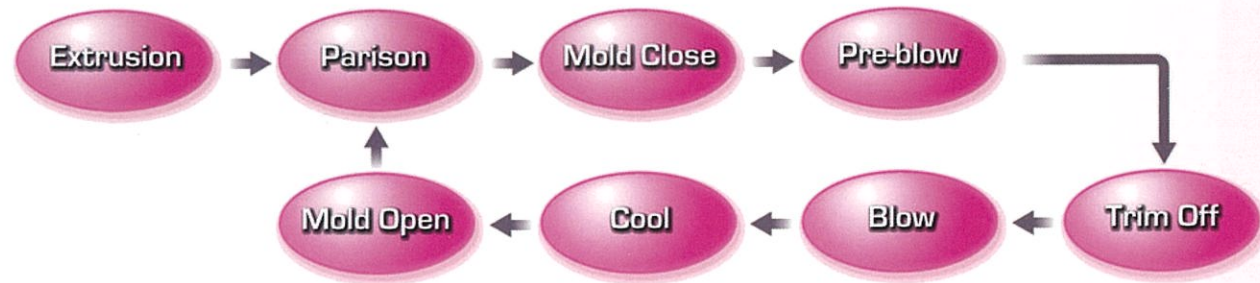


○SAMPLE BOTTLES



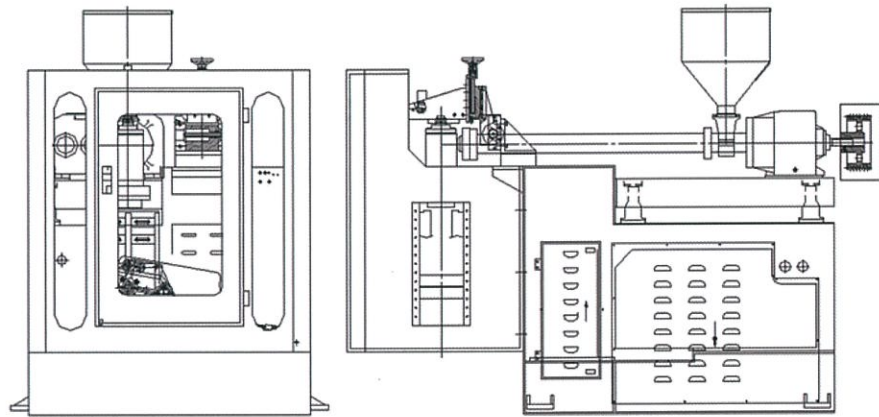
Extrusion Blow-Molding

In extrusion blow molding (EBM), plastic is melted and extruded into a hollow tube (a parison). Blow molding is the forming of a hollow object by "blowing" a thermoplastic molten tube called a parison in the shape of a mold cavity. Extrusion blow molding is the most widely used of many blow molding methods. This parison is then captured by closing it into a cooled metal mold. Air is then blown into the parison, inflating it into the shape of the hollow bottle, container or part. After the plastic has cooled sufficiently, the mold is opened and the part is ejected.

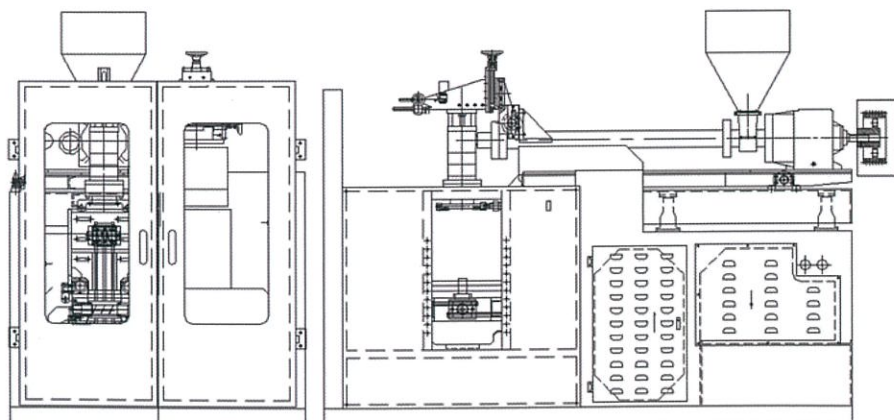


Machine Carriage Movement Type

Angled

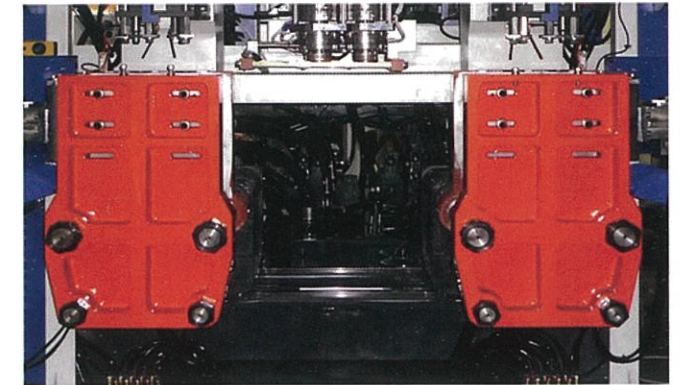
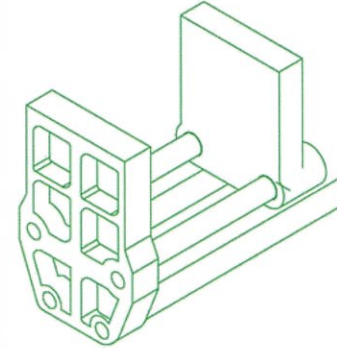


Linear / Horizontal

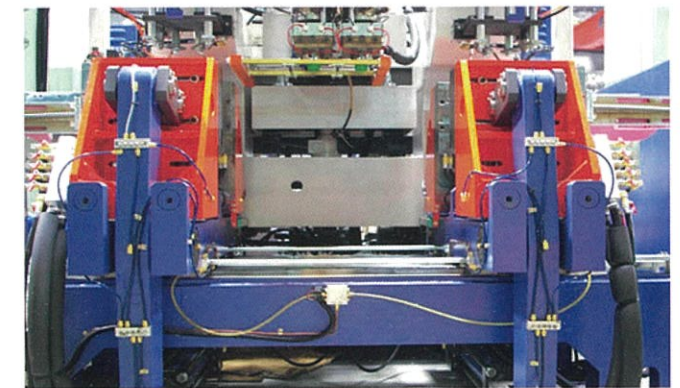
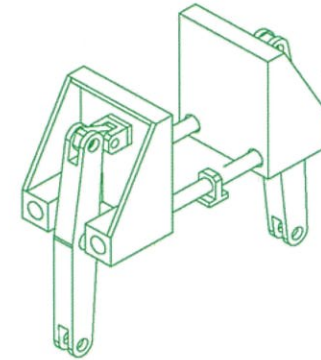


Mold Carriage

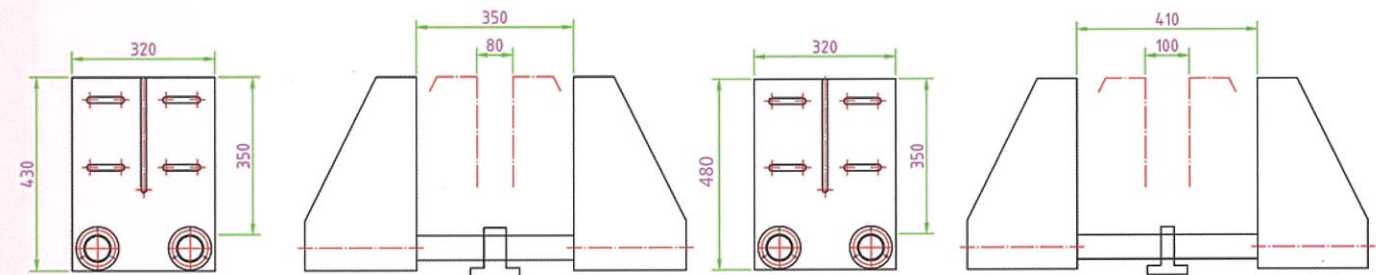
4 Tie Bar with Horizontal Movement



Toggle Mold Clamping System

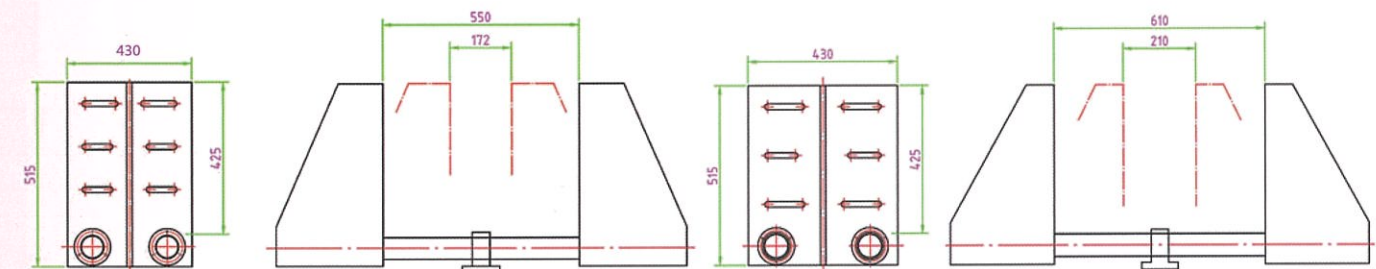


Toggle Mold Plate Dimension - (Unit: mm)



Model: 45H

Model: 55H



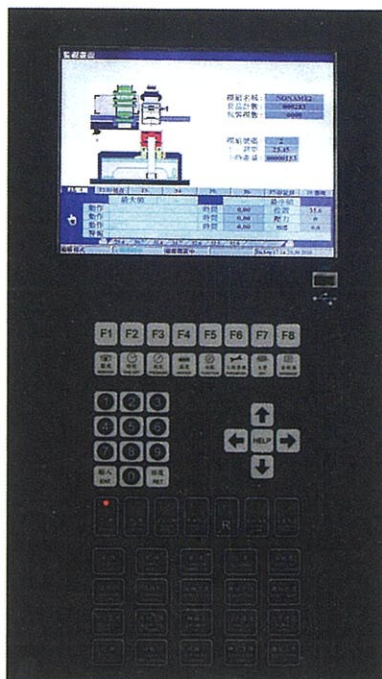
Model: 65H

Model: 75H

*All specifications and designs are subject to change without notice.

Standard Series Components

Control System



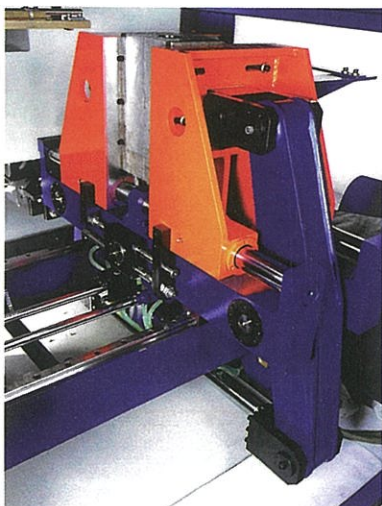
01. Easy-access menu display. English/Chinese display conversion.
02. Password setting function.
03. Computer controlled of all machine movement, cycle time, delays, and positioning, etc.
04. The heating zones, set points, screw speed, proportional settings, preheat settings are displayed on the screen for easy identification and servicing.
05. Trouble messages are displayed on the screen providing fast and convenient trouble shooting.
06. USB Flash Drive for software update and recipe change.
07. 10.4" color monitor and built-in mold memory function can save many sets of production parameters.

Extrusion Unit



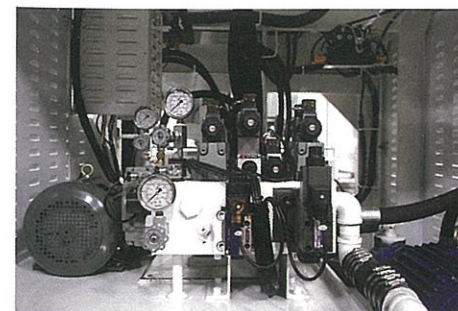
01. The special structure of extruder, and the vertical & longitudinal adjustment of flat-table can be adjusted automatically, so as to the blow nozzle post, furthermore, which equipped with water cooling device.
02. Using inverter to adjust the turning speed of the screw.
03. Cooling fan equipped on the barrel effectively avoids temperature raising on the screw, stabilizes material mixing and ensures superior extruding performance.

Clamps & Carriages



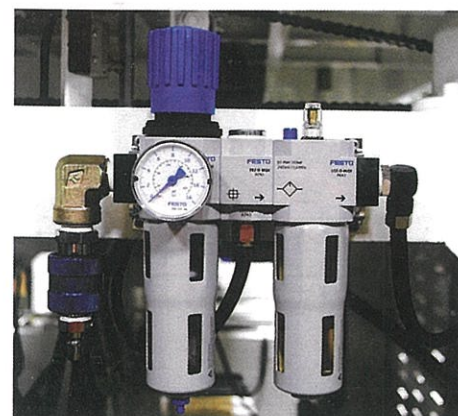
01. Clamping force is applied to center of platens for proper force distribution.
02. All clamp and carriage movements are on slide bearings.
03. Touchless transducers minimizing water and friction, prolonging reliability and stability.

Hydraulic System



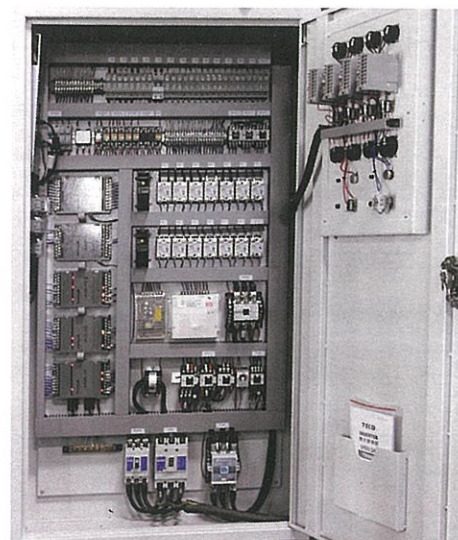
01. Tokimec variable hydraulic pump, valves and accumulators.
02. The hydraulic circuit features proportional pressure and flow rate. Speed and pressure are multi-step control to meet production requirements.
03. Adopts any brands upon customer's request.

Pneumatic System



01. Air valves are centralized for convenient speed adjustment.
02. Independent gauges for flow adjustment of parison support air, parison decompression, blow air, scrap-cooling air, and post-cooling air.
03. Adopts any brands upon customer's request.

Electrical Cabinet



01. Adopted independent electrical cabinet and reducing vibration and selecting computer controlling system upon customer's request.
02. The control panel is simple to understand and allows for easy machine operation.

Optional Features Include

01. Extruders are upgradable to increase material output.
02. Hot / Cold cutting device with pre-pinch 100 points parison programmable controller of MOOG DigiPack.
03. Multi-diehead / multi-layer applications.
04. Automatic in-line deflashing of tops, bottoms, and handles.
05. Automatic in-line spin-trimmers / fly cutters.
06. For a complete automated process, CHIA MING has available robots arms for oriented discharge, transport system for finished products and inclined scrap conveyor.
07. CHIA MING also offers IML technology ideal for containers of shampoo, lotions, detergents, etc.

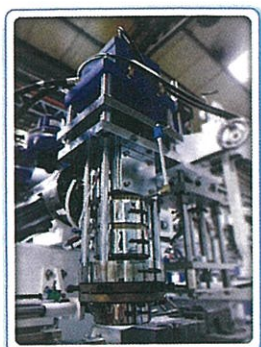
CM-S(H), 45S(H), 55S(H), 65S(H), 75S(H), 90S(H)

CM-S(H)2D, 45S(H)2D, 55S(H)2D, 65S(H)2D, 75S(H)2D, 90S(H)2D

中空成型機【單模頭，單模座】/【單模頭，雙模座】

Extrusion Blow Molding Machine

- ❖ Single Head, Single Station / Single Head, Double Station
- ❖ Angled / Horizontal Type Clamping System



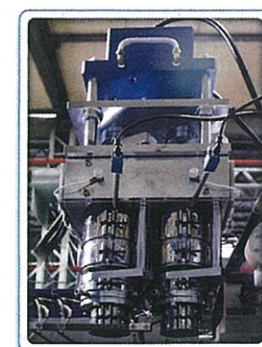
CM-D(H), 45D(H), 55D(H), 65D(H), 75D(H), 90D(H)

CM-D(H)2D, 45D(H)2D, 55D(H)2D, 65D(H)2D, 75D(H)2D, 90D(H)2D

中空成型機【雙模頭，單模座】/【雙模頭，雙模座】

Extrusion Blow Molding Machine

- ❖ Double Head, Single Station / Double Head, Double Station
- ❖ Angled / Horizontal Type Clamping System



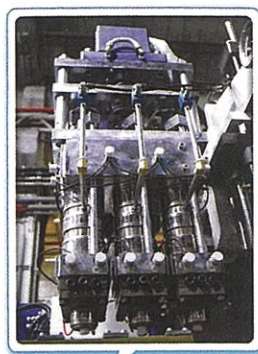
CM-T(H), 45T(H), 55T(H), 65T(H), 75T(H), 90T(H)

CM-T(H)2D, 45T(H)2D, 55T(H)2D, 65T(H)2D, 75T(H)2D, 90T(H)2D

中空成型機【三模頭，單模座】/【三模頭，雙模座】

Extrusion Blow Molding Machine

- ❖ Triple Head, Single Station / Triple Head, Double Station
- ❖ Angled / Horizontal Type Clamping System



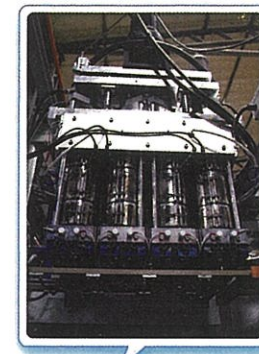
CM-F(H), 55F(H), 65F(H), 75F(H), 90F(H)

CM-F(H)2D, 55F(H)2D, 65F(H)2D, 75F(H)2D, 90F(H)2D

中空成型機【四模頭，單模座】/【四模頭，雙模座】

Extrusion Blow Molding Machine

- ❖ Four Head, Single Station / Four Head, Double Station
- ❖ Angled / Horizontal Type Clamping System

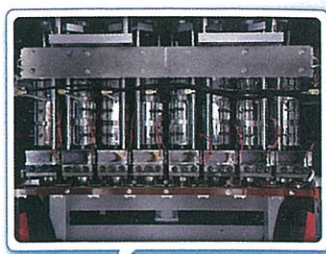


CM-E(H), 75E(H), 90E(H)
CM-E(H)2D, 75E(H)2D, 90E(H)2D

中空成型機【八模頭，單模座】/【八模頭，雙模座】

Extrusion Blow Molding Machine

- ❖ Eight Head, Single Station / Eight Head, Double Station
- ❖ Horizontal Type Clamping System

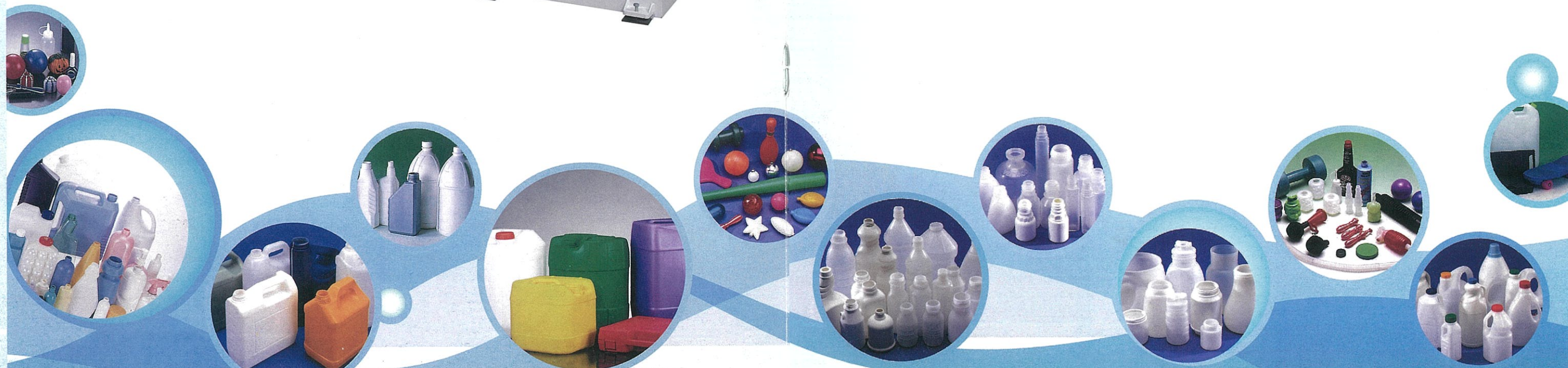


客製化設計 Customized Design for Special Needs

○APPLICATION

CHIA MING is capable of producing customized blow molding solutions that suit your special needs. Customized built machines are a major driver of innovation at CHIA MING and we have the experience and know-how to help you achieve your specific production

requirements, as well as deliver the trust, quality, and cutting edge technology that has made CM the blow molding machine manufacturer of choice for business.



CM-V Series

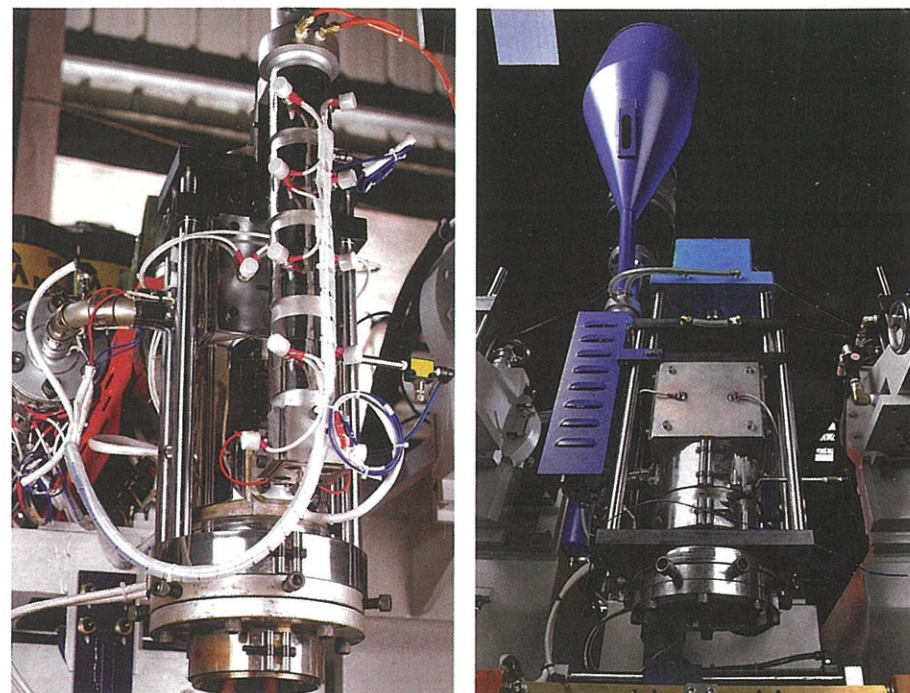
視窗式中空成型機系列

Visi-Strip Type Blow Molding Machine

○FEATURES

- O1. Especially there can be installed small screw to indicate the color of bottle leveling line.
- O2. This series of model is excellent for producing containers such as engine oil bottle, machine oil bottle, gasoline bottle, etc.

○SAMPLE BOTTLES



CM-PVC Series

PVC中空成型機系列

PVC Type Blow Molding Machine

○FEATURES

- O1. PVC application and order the additional parts [screw and diehead] for conversion to PE / PP application.
- O2. The process PVC diehead by plating titanium to prevent acidified corrosion from PVC materials.



CM-L Series

多層共擠中空成型機系列

Multi-Layer, Co-Extrusion Blow Molding Machine

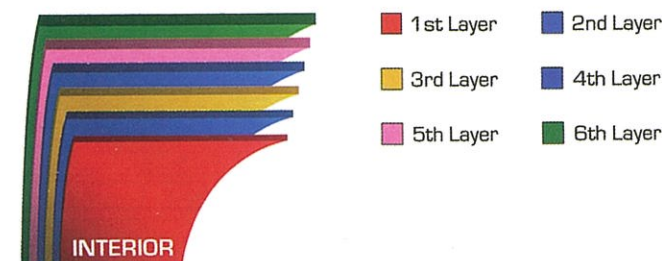
○APPLICATION

Co-extrusion blow molding makes it possible to combine materials with different properties to create a finished product most suitable for a particular application. This process can be used to fabricate products which contain several layers in their wall structures. The various parts of the structure can be optimized for the best balance between properties and cost.

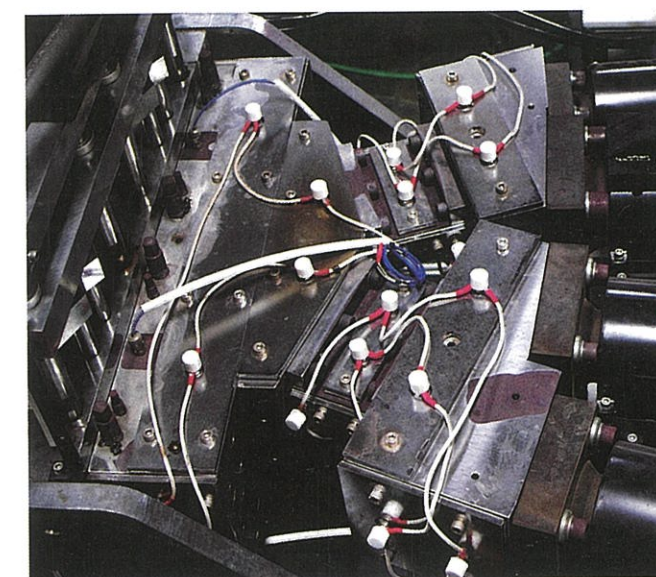
○ADVANTAGES

- O1. It provides better quality monolayer extrusion coatings over a wider variety of widths and line speeds.
- O2. The potential to save on the amount of premium resins by filling with lower cost materials.
- O3. The possibility to make multi-layer, multi-functional structures in a single pass.

○SIX LAYERS WALL STRUCTURE



- 1st Layer: Original material for nature.
- 2nd Layer: Adhesive material to intergrade barrier and surface layer.
- 3rd Layer: Barrier layer for permeation proof.
- 4th Layer: Adhesive material to intergrade barrier and surface layer.
- 5th Layer: Recycling layer.
- 6th Layer: Exterior layer of rigidity.



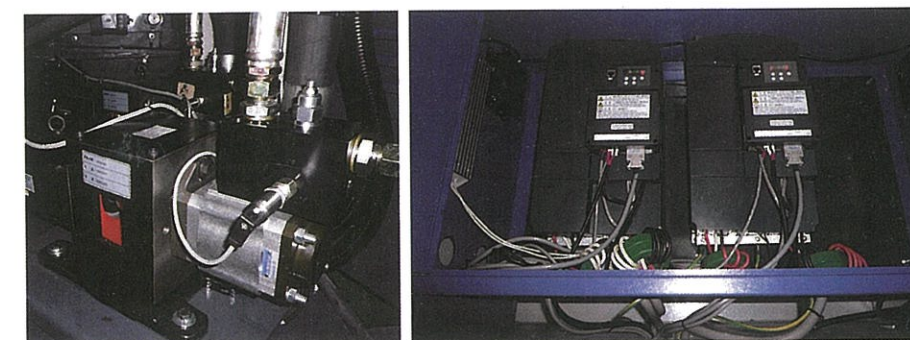
CM-HB / FE Series

油電混合 / 全電式中空成型機系列

Hybrid / Fully Electric Blow Molding Machine

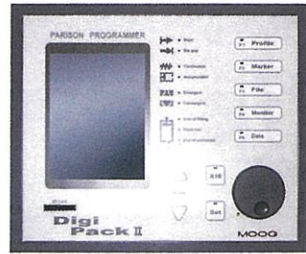
○FEATURES

- O1. Energy saving. Power consumption is less than a general hydraulic machine by 20 - 45%, easy to reach energy saving and carbon reduction goals.
- O2. More environmentally-friendly and user friendly.
- O3. Quietness and low noise level. The noise of servo motor is much less than inductive motor for hydraulic pump.



選購配件 Optional Accessories

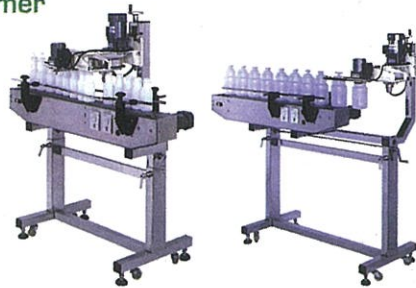
○Parison Controller MOOG 100 Points
厚薄控制器



○Conveyor
輸送帶



○Neck Trimmer
切瓶口機



○In-Mold Labeling Machine
模內貼標機



○Deflashing Device
打把手裝置



○Labeling Machine
貼標機



○Product Aligning Device (Take-Out Robot + Conveyor)
排瓶裝置
(成品取出機械手 + 輸送帶)



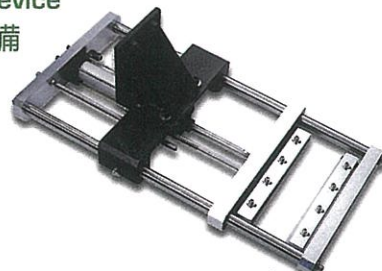
○Leak Tester
測漏機



○Punch Mold and Post-Cooling Device
副模及瓶口冷卻裝置



○Cool Cutting Device
封口冷切刀設備



Special Project A Blow Molding Machine with In-Mold Labeling Machine

○APPLICATION

It has been recognized that containers fabricated using in-mold labeling processes have higher quality in the labeling surface and in the appearance. Typical in-mold labeling (IML) processes involve (1) locating label inside the blow mold and then (2) blowing the pari-

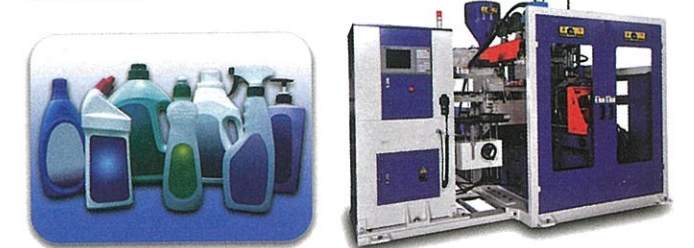
son in the mold against the confines of the mold. The heat from the parison and the pressure generated by the blow medium activates adhesive on the back of the label to bind the label on the blown container side wall.

○ADVANTAGES

01. Providing superior performance and enhanced efficiency.
02. Labels are impermeable to moisture, minimizing chances of peels and cracks.
03. Imprinted labels are smooth to the touch, while giving off an unblemished finish.
04. Having anti-counterfeit function.

○MARKET FOR

Plastic containers, such as detergents, shampoo, cleaners, lotions, etc.



Special Project B Blow Molding Machine for Making Roll-On Balls

○APPLICATION

Our hollow balls are produced by blow molding process, giving the advantage of strength but with a substantial reduction in material weight. Offering significant cost savings over solid balls with

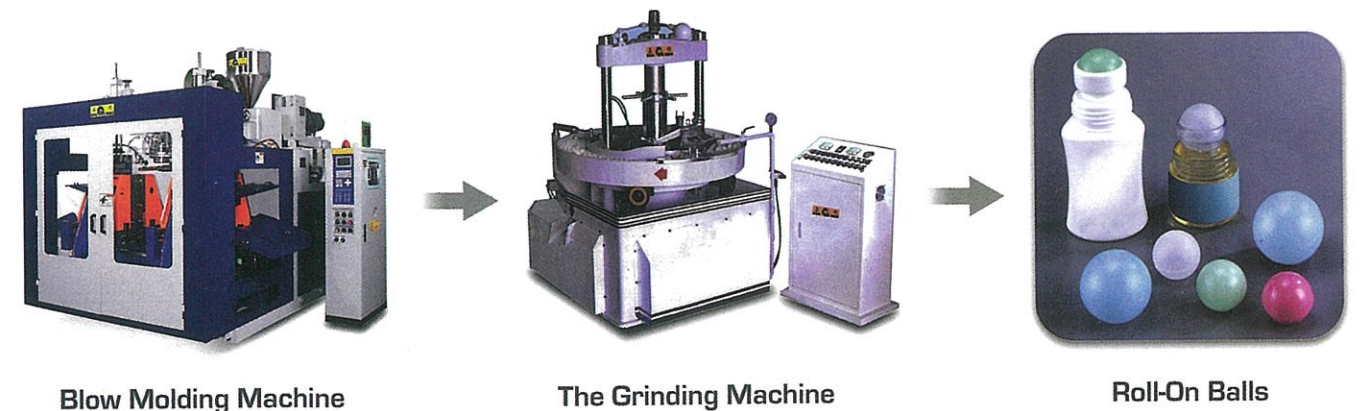
no functionality differences, virtually every Roll-On deodorant manufacturer in the world now uses a hollow ball.

○ADVANTAGES

Roll the plastic ball into the bottle hole, and apply filling liquid to the skin effectively and evenly.

○MARKET FOR

Deodorants, medicaments, essential oils, personal care applications, etc.



Blow Molding Machine

The Grinding Machine

Roll-On Balls

中空成型機整廠設備 Turnkey Blow Molding Solution

迎合客戶個別需求，嘉明可為客戶設計規劃全系列整廠設備，建立完善售後服務。

Our service caters to a turnkey blow moulding solution. From pre-sale consultation to setup a complete plant including machinery and peripheral equipment planning, also estimate perfect after-service system.

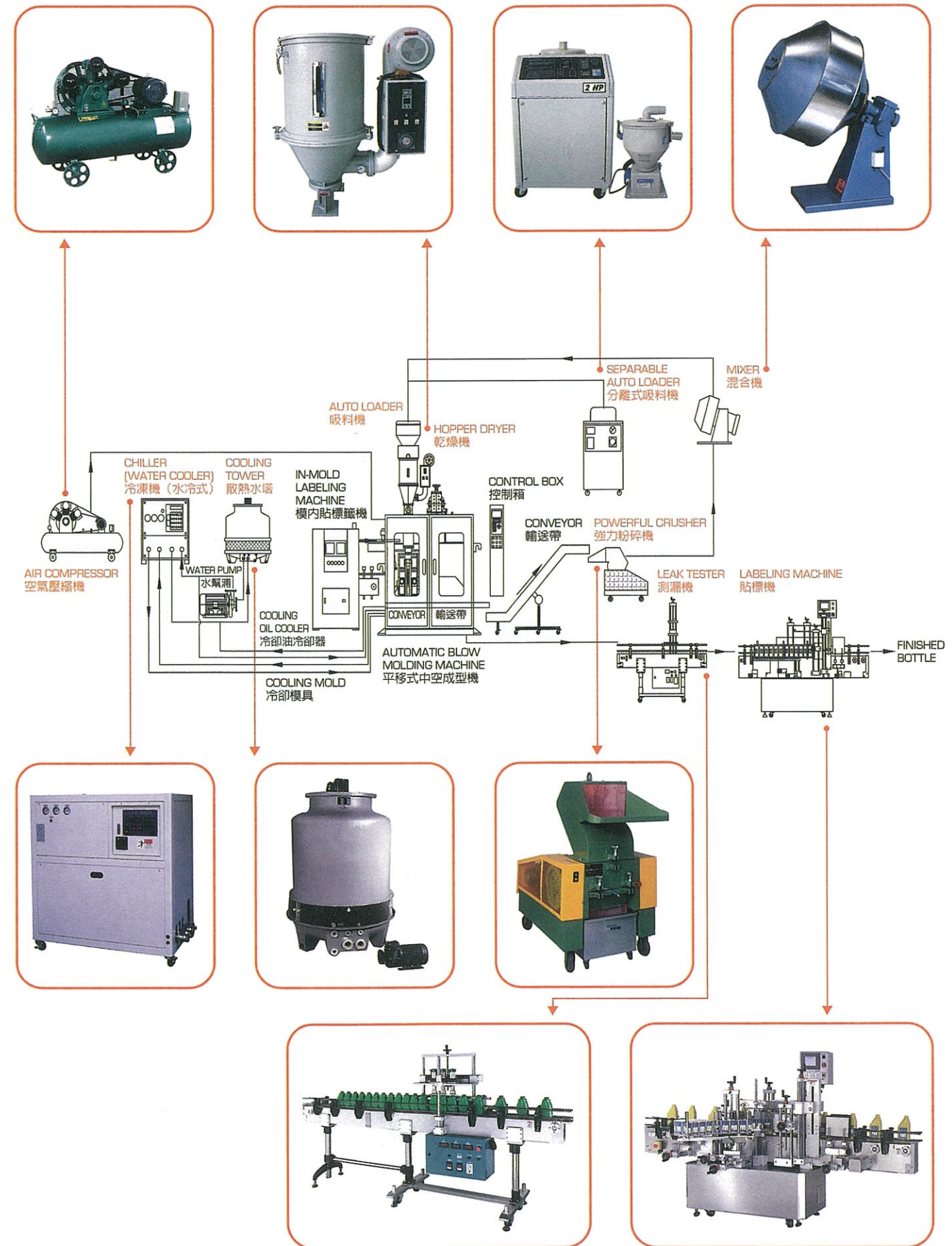
中空成型機整廠設備配套工程 Blow Molding Machinery Whole Line Need Following Equipment

- | | |
|-----------------|----------------------------------|
| ○吸料機 | ○Auto Loader |
| ○乾燥機 | ○Hopper Dryer |
| ○冷凍機 (氣冷式, 水冷式) | ○Chiller (Air Type / Water Type) |
| ○散熱水塔 | ○Cooling Tower |
| ○空氣壓縮機 | ○Air Compressor |
| ○輸送帶 | ○Conveyor |
| ○粉碎機 | ○Powerful Crusher |
| ○混合機 | ○Mixer |
| ○模具 | ○Mold |
| ○切瓶口機 | ○Neck Trimmer |
| ○測漏機 | ○Leak Tester |
| ○貼標機 | ○Labeling Machine |
| ○模內貼標設備 | ○In-Mold Labeling Equipment |




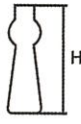

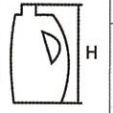

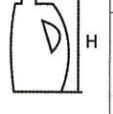
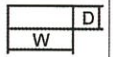


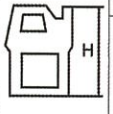



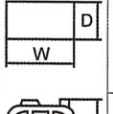



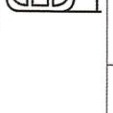
適用範圍 Market for PE / PP / PVC / PC / PETG Containers

- | | |
|------------------------|---|
| ○食品 / 飲料容器 | ○Bottles for Food / Drink |
| ○清潔劑 / 試劑 / 化妝品 / 藥品容器 | ○Containers for Detergents / Reagents / Cosmetics / Medicines |
| ○機油瓶 / 潤滑油瓶 | ○Bottles for Engine Oils / Lubricants |
| ○家具用件 | ○The Parts for Home Products |
| ○汽車配件 | ○The Car Parts |
| ○裝飾品配件 | ○Decoration Parts |
| ○大容積桶子 | ○Big Size Containers |
















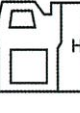




中空成型機整廠設備 Turnkey Blow Molding Solution



單模座中心距離規格表 Production Possibilities

	Single Head (Single Station)		Double Head (Single Station)		Triple Head (Single Station)		Four Head (Single Station)				
	Bottle Shape	Max. Volume (Liter)	Bottle Shape	Center Distance (CD)	Max. Volume (Liter)	Bottle Shape	Center Distance (CD)	Max. Volume (Liter)	Bottle Shape	Center Distance (CD)	Max. Volume (Liter)
CM-45		1 L		120 (mm)	0.5 L x 2		85/100 (mm)	0.3 L x 3	X	X	X
		(mm) Ø = 100 H = 220			(mm) Ø = 100 H = 200			(mm) Ø = 60 H = 180			
CM-55		2.5 L		130 (mm)	1 L x 2		100 (mm)	0.5 L x 3	100 (mm)	0.3 L x 4	
		(mm) D = 120 W = 160 H = 250 Ø = 110			(mm) Ø = 110 H = 230			(mm) Ø = 70 H = 210			(mm) Ø = 65 H = 170
CM-65		5 L		140 (mm)	2 L x 2		100 (mm)	1 L x 3	100 (mm)	0.5 L x 4	
		(mm) D = 160 W = 240 H = 280 Ø = 120			(mm) D = 120 W = 120 H = 250 Ø = 120			(mm) Ø = 80 H = 230			(mm) Ø = 65 H = 210
CM-75		10 L		160/180 (mm)	3 L x 2		120 (mm)	1.5 L x 3	100/120 (mm)	1 L x 4	
		(mm) D = 240 W = 300 H = 330 Ø = 140			(mm) D = 140 W = 140 H = 300 Ø = 140			(mm) Ø = 100 H = 270			(mm) Ø = 80 H = 240
CM-90		20 L		200/220 (mm)	5 L x 2		160 (mm)	2 L x 3	120 (mm)	1.5 L x 4	
		(mm) D = 280 W = 360 H = 350 Ø = 250			(mm) D = 200 W = 140 H = 320 Ø = 180			(mm) D = 140 W = 140 H = 290 Ø = 140			(mm) Ø = 100 H = 260

雙模座中心距離規格表 Production Possibilities

	Single Head (Double Station)		Double Head (Double Station)		Triple Head (Double Station)		Four Head (Double Station)				
	Bottle Shape	Max. Volume (Liter)	Bottle Shape	Center Distance (CD)	Max. Volume (Liter)	Bottle Shape	Center Distance (CD)	Max. Volume (Liter)	Bottle Shape	Center Distance (CD)	Max. Volume (Liter)
CM-45		0.5 L		120 (mm)	0.2 L x 2		85/100 (mm)	0.1 L x 3	X	X	X
		(mm) Ø = 100 H = 130			(mm) Ø = 100 H = 130			(mm) Ø = 70 H = 130			
CM-55		1 L		130 (mm)	0.5 L x 2		100 (mm)	0.3 L x 3	85 (mm)	0.15 L x 4	
		(mm) Ø = 100 H = 220			(mm) Ø = 110 H = 200			(mm) Ø = 70 H = 210			(mm) Ø = 65 H = 90
CM-65		2.5 L		140 (mm)	1 L x 2		100 (mm)	0.5 L x 3	100 (mm)	0.3 L x 4	
		(mm) D = 120 W = 160 H = 250 Ø = 110			(mm) Ø = 120 H = 230			(mm) Ø = 80 H = 230			(mm) Ø = 80 H = 170
CM-75		5 L		160/180 (mm)	2 L x 2		100/120 (mm)	1 L x 3	100 (mm)	0.5 L x 4	
		(mm) D = 160 W = 240 H = 280 Ø = 120			(mm) D = 120 W = 140 H = 250 Ø = 140			(mm) Ø = 80 H = 270			(mm) Ø = 80 H = 210
CM-90		10 L		200/220 (mm)	3 L x 2		120 (mm)	1.5 L x 3	120 (mm)	1 L x 4	
		(mm) D = 280 W = 360 H = 350 Ø = 140			(mm) D = 145 W = 180 H = 300 Ø = 180			(mm) D = 105 W = 100 H = 290 Ø = 110			(mm) Ø = 100 H = 240

規格表 Production Possibilities

Model	型式		CM-40P	CM-40E	CM-45SH	CM-55SH	CM-65SH	CM-75SH
Material to be Used	使用原料		PE	PE	PE/PP	PE/PP	PE/PP	PE/PP
Screw Diameter	螺桿直徑	mm	Ø 40	Ø 40	Ø 45	Ø 55	Ø 65	Ø 75
L/D Ratio	長徑比		22/1	22/1	24/1	24/1	24/1	26/1
Screw Speed Range (PE)/rpm	螺桿轉速 / 每分鐘	rpm	15 - 85	15 - 85	15 - 85	20 - 80	20 - 80	20 - 75
Inverter Motor	變頻馬達	HP	3	5	10	15	20	30
Max. Extrusive Capacity/Per Hour	最大押出量 / 小時	kgs	13	13	25	37	60	78
Heating Zone (Barrel)	輸料管加熱區域	zone	2	2	2	3	3	3
Heating Capacity (Barrel)	輸料管加熱容量	kw	3.2	3.2	3.9	7.2	10.8	12.6
Diehead	模頭							
Heating Zone (Diehead)	模頭加熱區域	zone	2	2	3	3	3	3
Heating Capacity (Diehead)	模頭加熱容量	kw	2.8	2.8	3.5	5.8	8	8.6
Double Mold Center Distance	中心距離	mm	—	—	—	—	—	—
Mold Plate	模板							
Max. Opening Stroke	最大開模行程	mm	230	230	350	410	525	510
Min. Close Stroke	最小開模行程	mm	93	93	80	100	172	150
Mold Clamping Force	鎖模力	ton			4	5.5	8	9
Hydraulic System	油壓系統							
Hydraulic Pump Motor	油壓馬達	HP	—	—	7.5	10	15	20
Hydraulic Oil Pressure	油壓使用壓力	kg/cm ²	—	—	100	100	100	100
Oil Tank Capacity	油箱容量	gallon	—	—	50	75	85	100
Product	產品							
Product Dia. (Min./Max.)	產品直徑 (最小 - 最大)	mm	10 - 80	10 - 80	20 - 100	30 - 140	50 - 200	70 - 260
Product Capacity (Min./Max.)	產品容量 (最小 - 最大)	ml	20 - 300	20 - 300	80 - 1000	400 - 2500	800 - 5000	2500 - 10000
Total Power Consumption	總電力	kw	8.2	10	22.4	35.4	48.6	62.2
Weight of Machine	機械重量	ton	0.55	0.65	3	4.5	5.5	6.5

Model	型式		CM-45SH2D	CM-55SH2D	CM-65SH2D	CM-75SH2D	CM-90SH2D	CM-45DH2D
Material to be Used	使用原料		PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP
Screw Diameter	螺桿直徑	mm	Ø 45	Ø 55	Ø 65	Ø 75	Ø 90	Ø 45
L/D Ratio	長徑比		24/1	24/1	24/1	26/1	26/1	24/1
Screw Speed Range (PE)/rpm	螺桿轉速 / 每分鐘	rpm	15 - 85	20 - 80	20 - 80	20 - 75	20 - 65	15 - 85
Inverter Motor	變頻馬達	HP	15	20	30	40	50	15
Max. Extrusive Capacity/Per Hour	最大押出量 / 小時	kgs	25	37	60	78	105	25
Heating Zone (Barrel)	輸料管加熱區域	zone	2	3	3	3	3	2
Heating Capacity (Barrel)	輸料管加熱容量	kw	3.9	7.2	10.8	12.6	25.2	3.9
Diehead	模頭							
Heating Zone (Diehead)	模頭加熱區域	zone	3	3	3	3	3	3
Heating Capacity (Diehead)	模頭加熱容量	kw	3.5	5.8	8	8.6	16.4	5.4
Double Mold Center Distance	中心距離	mm	—	—	—	—	—	120
Mold Plate	模板							
Max. Opening Stroke	最大開模行程	mm	350	410	525	510	700	350
Min. Close Stroke	最小開模行程	mm	80	100	172	150	385	80
Mold Clamping Force	鎖模力	ton	4	5.5	8	9	10.5	4
Hydraulic System	油壓系統							
Hydraulic Pump Motor	油壓馬達	HP	10	15	20	25	30	10
Hydraulic Oil Pressure	油壓使用壓力	kg/cm ²	100	100	100	100	100	100
Oil Tank Capacity	油箱容量	gallon	50	75	85	100	125	50
Product	產品							
Product Dia. (Min./Max.)	產品直徑 (最小 - 最大)	mm	20 - 85	20 - 100	30 - 140	50 - 200	70 - 260	10 - 85
Product Capacity (Min./Max.)	產品容量 (最小 - 最大)	ml	100 - 500	250 - 1000	500 - 2500	1000 - 5000	4000 - 10000	10 - 200
Total Power Consumption	總電力	kw	33.5	42.8	56.1	71	115	35.4
Weight of Machine	機械重量	ton	4	6	6.5	8	10	4.5

CM-90SH	CM-45DH	CM-55DH	CM-65DH	CM-75DH	CM-90DH	CM-55FH	CM-65FH	CM-75FH	CM-90FH
PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP
Ø 90	Ø 45	Ø 55	Ø 65	Ø 75	Ø 90	Ø 55	Ø 65	Ø 75	Ø 90
26/1	24/1	24/1	24/1	26/1	26/1	24/1	24/1	26/1	26/1
20 - 65	15 - 85	15 - 65	15 - 65	15 - 65	15 - 65	15 - 65	15 - 65	15 - 65	15 - 60
50	10	15	20	30	50	20	30	40	50
105	25	37	60	78	105	37	60	78	105
3	2	3	3	3	3	3	3	3	3
25.2	3.9	7.2	10.8	12.6	25.2	7.2	10.8	12.6	25.2
3	3	3	3	5	5	9	9	9	9
16.4	5.4	7.7	11.9	12.6	25.2	12	13	14.7	21.4
—	120	130	140	160/180	200/220	100	100	100/120	120/160
700	350	410	525	510	700	410	525	510	700
385	80	100	172	150	385	100	172	150	385
10.5	4	5.5	7.5	9	10.5	6	8	9	10.5
25	10	10	15	20	25	10	15	20	25
100	100	100	100	100	100	100	100	100	100
125	50	75	85	100	125	75	85	100	125
160 - 310	20 - 80	30 - 100	50 - 120	60 - 140	100 - 190	15 - 65	20 - 65	20 - 80	30 - 100
10000 - 20000	40 - 500	200 - 1000	450 - 2000	600 - 3000	1500 - 5000	50 - 300	100 - 500	300 - 800	500 - 2000
108.7	24.2	37.3	52.6	66.3	110	45.5	62.3	72	120
8.5	4	4.5	6	7	8.5	4.8	6	7.5	9.5

CM-55DH2D	CM-65DH2D	CM-75DH2D	CM-90DH2D	CM-55FH2D	CM-65FH2D	CM-75FH2D	CM-90FH2D	CM-75I	CM-90I
PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE/PP	PE	PE
Ø 55	Ø 65	Ø 75	Ø 90	Ø 55	Ø 65	Ø 75	Ø 90	Ø 75	Ø 90
24/1	24/1	26/1	26/1	24/1	24/1	26/1	26/1	24/1	24/1
20 - 80	20 - 80	20 - 75	20 - 65	20 - 75	20 - 75	20 - 70	15 - 60	15 - 65	15 - 65
20	40	50	60	30	40	50	60	—	—
37	60	78	105	37	60	78	105	70	110
3	3	3	3	3	3	3	3	3	3
7.2	10.8	12.6	25.2	7.2	10.8	12.6	25.2	12	15.3
3	3	5	5	9	9	9	9	3	4
7.7	11.9	12.6	25.2	12	13	14.7	21.4	12	28.9
130	140	160/180	200/220	85	100	100	120	—	—
410	525	510	635	410	525	510	700	800	1000
100	172	150	233	100	172	150	385	200	270
6	8	9	10.5	6	8	9	10.5	20	30
15	20	25	30	15	20	25	30	40	60
100	100	100	100	100	100	100	100	140	150
75	85	100	125	100	150	180	200	220	250
20 - 85	30 - 105	50 - 125	40 - 145	10 - 70	10 - 70	20 - 85	30 - 105	100 - 320	120 - 480
100 - 500	300 - 1000	600 - 2000	1000 - 3000	50 - 150	100 - 300	300 - 500	500 - 1000	10000 - 20000	15000 - 30000
44.7	56.3	82.6	121.3	49	66	84.7	130	57.6	92.7
6.5	7	8	10.5	7.5	8	9	11.5	11	12

以上數據隨時不斷研發改進，僅供參考。若有變更，恕不另行通知。 All specifications and designs are subject to change without notice. 全系列機器，亦可升級為油電混合或全電式型式。 All models can be upgraded to hybrid or fully electric type by servo motor control.