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注塑機整機及主要零部件保用期明細 Maintenance Details of the Whole Unit and the Main Spare parts of the Injection Mould Machine						
零部件名稱 Name of Spare Parts	整機 Whole Machine	哥林柱、三大板 Tie Bar, Three Platen	電機 Electric Motor	電腦 Micro Computer	液壓件 Hydraulic Components	電器件 Electric Components
保用期 Warranty Period	在正常使用條件下免費維修、保養兩年 The whole unit is entitled to two-year free warranty, which is only applicable to proper operation.	2.5年 2.5 years	1年 1 year	1年 1 year	1年 1 year	1年 1 year

備注：在保用期內，若因客戶使用不當導致機件損壞，更換零件及維修費用需由客戶承擔。
Remarks: Within the warranty period, if the spare parts are broken caused by the customers' improper operation, the fee of the spare parts and maintenance shall be paid by the customers.

另注：氮化炮筒螺桿不在保修範圍內。
Nitrided screw and barrel is not under warranty



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ELITE GROUP

模內貼標系統
In Mould Labeling Series
















模內貼標系統 In Mould Labeling system

德利達模內貼標系統採用EA系列注塑機，具備快速的機鉸鎖模單元，產品成形周期短，能有效降低生產成本，尤其是日常家用品和食品包裝行業，並增加其美觀性，具有龐大的市場前景。

Elites' In-Mould Labeling system is using toggle type machine (EA series) which gives a fast production cycle. It reduces the production cost and gives a better finish on household & food packing production.

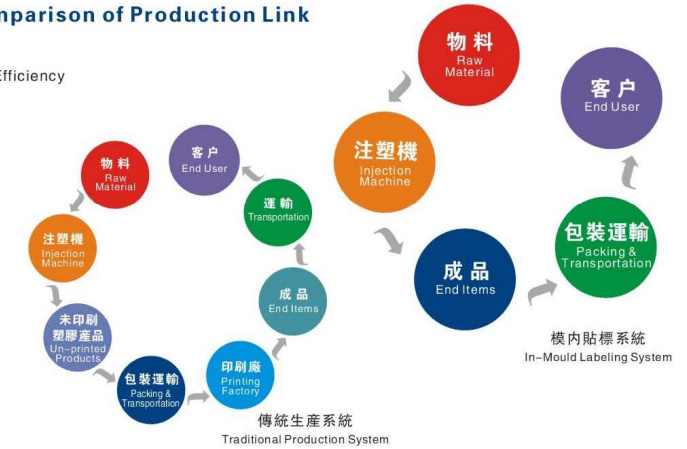


適用範圍廣 Widely Application

醫療用品 Medical Articles	➔	clean room solution				
包裝 Packing	➔	Production cell				
汽車部件 Automotive parts	➔					
家居用品 Household Product	➔					
手機用品 Mobile Product	➔					

生產環節對比 Comparison of Production Link

少時\快捷\高效
Time Saving \ Fast \ High Efficiency



優勢說明 Advantage

- 靈活多變、兼容度高：能結合多種形式色彩或圖像，適合多種印刷品。
- 符合環保、成本下降：“一次注塑、一體成型”減少生產環節亦減少了廢品率，既環保又減省生產成本。沒有黏貼劑，符合環保要求。
- Flexible, Changeable & High Compatibility: Able to Mix with different patterns, colors, photography, etc.
- Environmental Friendly, Cost Deduction: "One inject, one forming" reduce the production link & rejection rate, also comes with environment protection & savings in production cost.

運作過程 Operating Process

- 由專用模內貼標機械手用真空吸盤拿起模內貼標專用膠紙
- 機械手將膠紙置入模腔，途中經過靜電產生器令膠紙附上靜電，當機械手靠近模腔時切斷真空吸盤，令膠紙靠靜電準確地貼在模腔（在模腔內使用真空方法固定膠紙會造成凹痕）
- 合模，注塑，冷卻，成型，開模
- 模內貼標產品完成
- Use vacuum suckions to pick up the label by specialized IML Robot.
- Apply static electric to the label, and locate the label into the cavity by static electric with cut off the vacuum suckions.
- Mold Close, Injection, cooling, forming and mold open.
- Finished IML Product.

模內貼標專用機與標準注塑機對比表

項目 Items	高射速(小射臺) High Injection Speed (Small size Injection Unit)	同步溶膠 Recharge after injection at same stage	快速鎖模 Fast Clamping System	專用模內貼標貼 紙機械手 Special design Robot for IML	電馬達溶膠 (同步溶膠) Electrical Motor for recharge after injection	儲能射膠 High speed injection with accumulator
標準注塑機 Standard Machine	備選 Optional Feature	備選 Optional Feature	備選 Optional Feature	無 NIL	無 NIL	備選 Optional Feature
模內貼標 專用機(IML) Special IML series	標準配置 Standard Feature	標準配置 Standard Feature	標準配置 Standard Feature	標準配置 Standard Feature	備選 Optional Feature	備選 Optional Feature

億利達IML一站式服務 One Stop Solution by Elite IML System

適用行業範圍廣泛 Widely Application In Different Field



市場上不同類型的標籤 Different Kinds of Labels

PP-Label	(0.05mm - 0.07 mm)
PS-Label	(0.06mm - 0.08 mm)
PE-Label	(0.06mm - 0.08mm)
ABS-Label	(0.08mm - 0.15mm)
Paper-Label	(0.06mm - 0.08mm)



提取系統，自動吸取貼紙及產品，實現自動化生產
Automatize Production Cycle With Extractive System



提供模具設計諮詢服務
Mold Design Advice Service



成品樣本 Sample



Cavities	2
Part weight	33.6 g
Dimensions	Ø144/125 x 90 mm
Material	PP BASF 3348
Wall sections	0.6 - 1.2 mm
Proj.area	325.5 cm ²
Flow length	156 mm
F/W ratio	240:1
Cycle time	< 7 s
Plast. capacity	35 kg/h
Plast. flow	26 g/sec
Machine	IML 250
Screw	Ø40-20D
Motor	37 kw

- 高透明材料 High Transparency Material
- 特制標籤 Specialized Label



Cavities	2
Part weight	15.55 g Label 0.85
Dimensions	99 x 99 x 106 mm
Material	PP Basell X50081
Wall thickness	0.44 - 0.68 mm
Projected area	149.5 cm ²
Flow path	148 mm
P/W	320 : 1
Cycle time	4.5 s
Plast. capacity	23.52 kg/h
Plast. volume	38.7 g/s
Machine	IML 160
Screw	Ø25-21D
Drive	22 kw

- 500g容器 (奶類制品) 500g Container(Milk Product)



Cavities	2
Part weight	12.4 g
Dimensions	Dia. 143 x 6 mm
Material	PP BASF 3348
Wall sections	0.7 - 1.2 mm
Proj.area	321 cm ²
Flow path	77 mm
F/w ratio	110:1
Cycle time	4.4 s
Plast. capacity	20.3 kg/h
Plast. flow	14 g/sec
Machine	IML 160
Screw	Ø25-21D
Motor	22 kw

- 高透明材料 High Transparency Material
- 特制標籤 Specialized Label



Cavities	2 + 2
Part weight	39.7 g Bucket (incl. Etiket) 2.70 g Handle
Dimensions	132 / 106 x 132 mm
Material	PP
Wall section	0.55 - 1.0 mm
Proj.area	280 cm ²
Flow path	208 mm
F/W ratio	300 : 1
Cycle time	8.39 s
Plast. Capacity	34.8 kg/h
Plast. Flow	44.0 g/s
Machine	IML 320
Screw	Ø45-20D
Drive	45 kw

- 附手挽桶形容器 Bucket

成品樣本 Sample



Cavities	4
Part weight	9.62 g, 10.14 g with label
Dimensions	159 x 107 x 12.3 mm
Material	PP DSM 312MN40
Wall section	0.50 – 0.64 mm
Proj.area	552 cm ²
Flow path	102 mm
F/W ratio	165 : 1
Cycle time	4.82 s
Plast. Capacity	28.74 kg/h
Plast. Flow	29.8 g/s
Machine	IML 250
Screw	Ø40–20D
Drive	37 kw

- 容器封蓋 (Container Cover), 橢圓形 (Oval), 500g-IML
- 單一工序成品 (Single Procedure End Item)



Cavities	2
Part weight	18.33 g, 19.8 g with label
Dimensions	156 x 104 x 75 mm
Material	PP DSM 312MN40
Wall section	0.50 – 0.60 mm
Proj.area	519.6 cm ²
Flow path	152 mm
F/W ratio	275 : 1
Cycle time	6.21 s
Plast. Capacity	42.5 kg/h
Plast. Flow	37.8 g/s
Machine	IML 250
Screw	Ø40–20D
Drive	37 kw

- 容器封蓋 (Container Cover), 橢圓形 (Oval), 500g
- 單一工序成品 (Single Procedure End Item)
- 簡單兩面標籤 (Double Labeling)



Cavities	4
Part weight	9.3 g Label 0.67 g
Dimensions	Ø73 / 50 x 105 mm
Material	PP Basell Metocene X50081
Wall section	0.38 – 0.55 mm
Proj.area	167.3 cm ²
Flow path	135 mm
F/W ratio	340 : 1
Cycle time	3.5 s
Plast. Capacity	35.5 kg/h
Plast. Flow	18 g/s
Machine	IML 160
Screw	Ø25–21D
Drive	22 kw

- 杯 200 (Cup 200)



Cavities	4
Part weight	18.7 g
Dimensions	141.4 x 122.9 x 57.3 mm
Material	PP StamyJanP 412MN40 MFI 37
Wall section	0.48 – 0.56 mm
Proj.area	695 cm ²
Flow path	128 mm
F/W ratio	245 : 1
Cycle time	5.93 s
Plast. Capacity	90.9 kg/h
Plast. Flow	81g/s
Machine	IML 320
Screw	Ø45–20D
Drive	45 kw

- 牛油類產品容器 (Milk Products Container) 500g
- 單一工序成品, 現為最多生產廠家採用 (Single Procedure End Item, Adopted by most manufacturers)

IML 模內貼標機型參數 Specification of IML

	參數 Specification	單位	IML160	IML250	IML320
注射裝置	螺桿直徑 Screw Diameter	mm	25	40	45
	理論注射壓力 Injection Pressure	Kg/cm ²	1755	1800	1890
	每次注射量 Shot Weight	g	48	204	255
	螺桿長徑比 Screw L/D	---	21 : 1	20 : 1	20 : 1
	螺桿行程 Screw Stroke	Mm	110	180	180
	螺桿轉速 Screw Rotation Speed	r.p.m	414	285	395
	射臺推力 Nozzle Contact Force	ton	2.1	3.7	6.3
	理論注射率 Theoretical Injection Rate	cc/sec	132	183	285
鎖模裝置	鎖模形式 Type of Clamping Unit		機鉸鎖模 Toggle Type		
	鎖模力 Clamping Force	ton	160	250	320
	鎖模行程 Clamping Stroke	mm	400	540	625
	模板最大開距 Max Daylight Opening	mm	850	1100	1265
	容模量 Die Height	mm	175 – 450	200 – 560	250 – 640
	拉杆內距 Space Between Tie Bars	mm	470 x 420	570 x 500	660 x 630
	液壓頂出力 Hydraulic Ejection Force	ton	3.6	7	6.5
	頂出行程 Ejecting Stroke	mm	120	150	150
其它	頂真數量 No. of Ejectors	Unit	1	9	13
	油壓系統壓力 System Pressure	Kg/cm ²	150	170	170
	油泵馬達功率 Pump Driving Motor	kw	22	37	45
	電熱功率 Heating Power	kw	5.5	9.6	13.5
	電源需求 Power Requirement	A	45	74.5	94.5
	溫度控制區 Temperature Control Zones	---	4	5	5
	油箱容積 Tank Volume	L	400	550	600
	機器重量 Machine Weight	ton	4.9	8.8	11.6
	外形尺寸 Machine Outline Dimension	m x m x m	5.2 x 1.3 x 1.83	6.3 x 1.5 x 2.1	6.6 x 1.7 x 2.1