

IML Products

IML制品

模内贴标广泛应用于硬塑包装，成为杨森未来新的增长点！

In mold labeling is widely used in rigid plastic packaging, as a new growth point in the future of Yang Sen.

- 汽车、轮船、机床、等各种轻重型工业机械用润滑油、润滑脂系列：20L、18L、10L、5L等各种规格工业用润滑油润滑脂系列桶。
- 日用品包装：杂物收纳箱、鞋类服装包装盒、垃圾桶、啤酒箱、保鲜盒等。
- 食品包装：打包装盒、月饼盒、饼干盒、茶叶罐、干果包装罐、果酱、调味品、食用香料、食用油、方便面碗、糖果包装等。
- 饮品包装：奶茶杯、传统茶、牛奶杯、酸奶杯等；高级水杯、冰激凌盒等。
- 洗涤护理用品：洗衣粉包装、洗衣液清洗剂包装、洗发水、沐浴露、护肤品包装等。
- 涂料及装饰材料包装：20L、18L、10L、5L、2L等规格涂料桶，装修用玻璃胶容器等。
- 婴幼儿用品：童车、玩具、儿童用餐盘等

· Cars, ships, machine tools, such as lubricating oil for all kinds of light and heavy industrial machinery, grease series: series of grease barrel with lubrication oil lubricated 20L,18L,10L,5L various specifications of industry.

· Daily necessities packaging: sundries storage box, shoes and clothing packaging boxes, trash cans, beer boxes, fresh boxes

· Food packaging: packing box, moon cake box, biscuit box, tea caddy, dried fruit can, jam, sauce, edible spices, edible oil, instant noodles bowl, candy packaging

· Beverage packaging: tea cup, traditional tea, milk cup, yogurt cup, such as: senior cup, ice cream box

· Washing care products: washing powder packaging, laundry detergent packaging, shampoo, shower gel, skin care products packaging

· Paint and decoration materials packaging: 20L,18L,10L,5L,2L and other specifications of paint barrels, decorated with glass and plastic containers

· Baby stroller, toys, food, children.

At present, the YANGSEN IML series is popular in the international market.



金属标签制品 Metal label



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YANGSEN
IML Robot In
Mould Labeling



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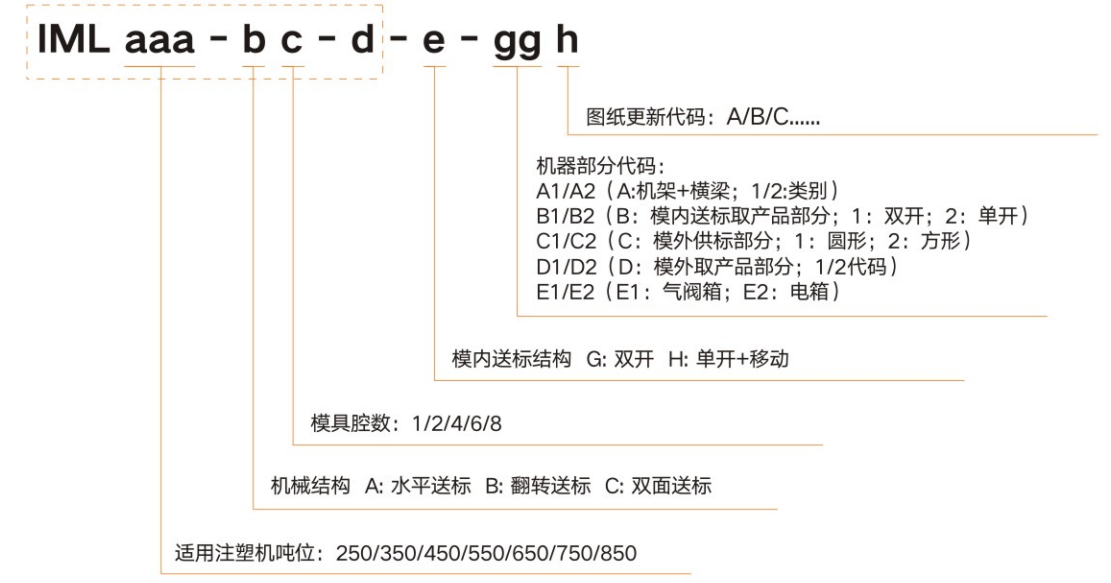


IML Robot In Mould Labeling



Coding rules for IML in mould labeling system

模贴机编码规则

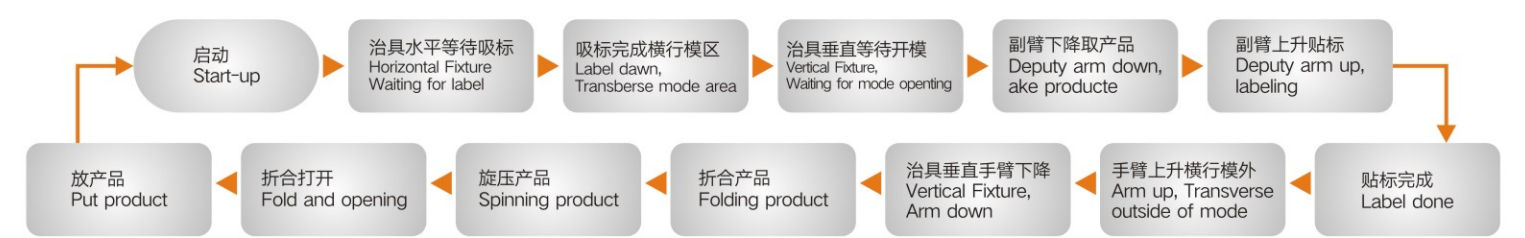


Top entry IML & auto folding system(milk powder can lips)

顶入式IML模内贴标及自动折叠集成应用系统(奶粉盖)



系统动作流程图
Flow chart of system operation



工业自动化智能匠师

Side-entry in mould labeling solution

侧入式模内贴标方案



侧入式-IML模内贴标机

IML制品

自动输送带

注塑机

Top-entry in mould labeling solution

顶入式模内贴标方案



自动输送带

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顶入式-IML模内贴标机

机械手

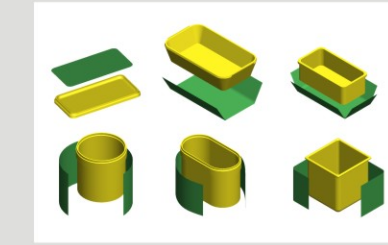
自动送标系统

IML in mould labeling system information collection table

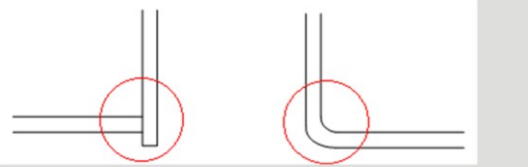
IML模内贴标系统信息采集表

A 产品 (Part)

- (1)种类(Type): _____ (盖、桶、杯、盒...等) (图A1)
- (2)形状(Shape): _____ (圆、方...等) (图A1)
- (3)重量(Weight): _____ g
- (4)样品(Sample): Yes/No
- (5)产品尺寸(Size L×W×H): _____ mm
- (6)壁厚(Thickness): _____ mm
- (7)材料(Material): _____ (如:PP/PS.....等)
- (8)是否有以下条件:有/无(Below condition:Yes/No) (图A2)



图A1

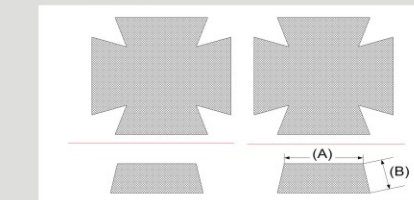


图A2

C 模具 (Mould)

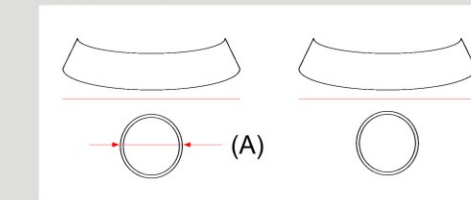
- (1)模穴数量(Number of cavities): _____
- (2)穴与穴中心距(Cavity to cavity distance): _____ mm
- (3)五面标模具中心距计算方法(For 3 and 5 side labeling): $(A+B \times 2) \pm 20\text{mm}$ (图C1)
- (4)圆桶模具产品水平放置中心距计算方法(Cavities horizontal layout for round full wrap): $A \times 3.1416 + 60\text{mm}$ (图C2)
- (5)圆桶模具产品垂直放置中心距计算方法(Cavities vertical layout for round full wrap): $[(A \times 3.1416 \div 2 - A) \pm 2] + A + 100\text{mm} + 50\text{mm}$ (图C3)
- (6)方盒模具产品水平放置中心距计算方法(Cavities horizontal layout for square full wrap): $(B+C) \times 2 + 60\text{mm}$ (图C4)
- (7)方桶模具产品垂直放置中心距计算方法(Cavities vertical layout for square full wrap): $B+C+100+50\text{mm}$ (图C5)

A:产品底部最大边长
B:产品侧面贴标位置边长,
20mm:标纸间距



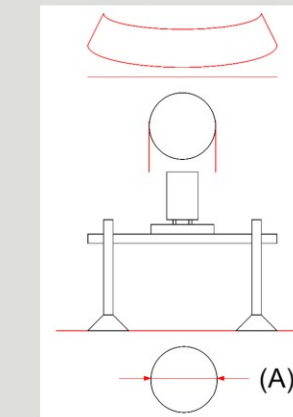
图C1

A:产品最大贴标面直径, 60mm:标纸间距
备注:如模具中心距太大可移动标纸减小模具中心距
(移动范围100mm内)



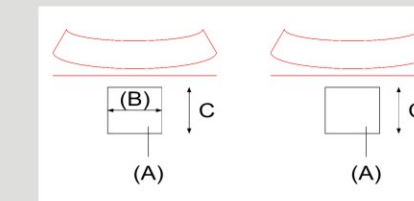
图C2

A:产品最大贴标面直径
100mm:取标治具总高度
50mm:气缸行程



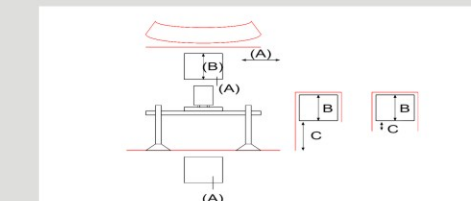
图C3

备注:如模具中心距太大可移动标纸减小
模具中心距(移动范围100mm内)
A:建议贴标时标纸贴缝
B:产品最大贴标面直径
60mm:标纸间距



图C4

A:建议贴标时标纸贴缝
B:产品贴标面垂直方向边长
100mm:取标治具总高度
50mm:气缸行程



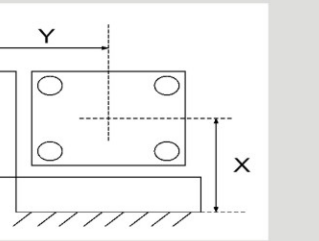
图C5

B 生产情况 (Production)

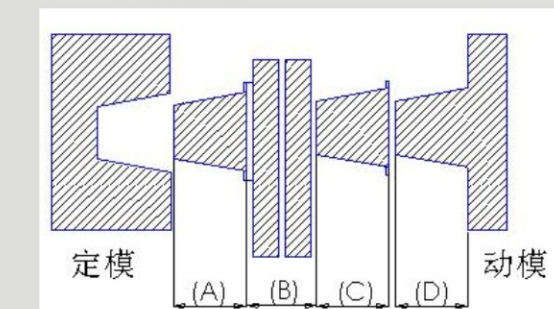
- (1)成型周期(Cycle time): _____ sec
- (2)堆叠和排列(Stacking): _____

D 注塑机情况 (Injection machine)

- (1)注塑机品牌与型号: _____
- (2)锁模力(Clamping force): _____ tons
- (3)开模行程(Opening stroke): _____ mm
- (4)X尺寸(X dimension): _____ mm
- (5)Y尺寸(Y dimension): _____ mm
- (6)侧入系列注塑机开模行程计算方法(G、Side entry IML robot): $A+100\text{mm}+C+D+20\text{mm}$ (图D1)
- (7)顶入系列注塑机开模行程计算方法(L、Top entry IML robot): $A+50\text{mm}+C+D+20\text{mm}$ (图D2)

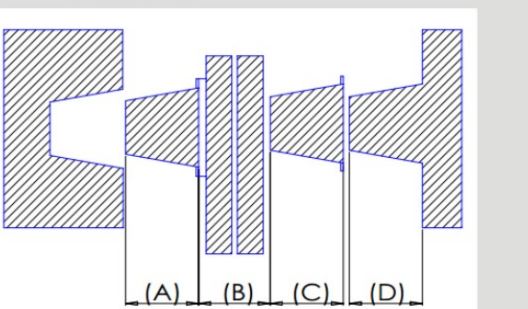


A:C+5mm
B:IML手臂(SF、SM)+吸盘、接头固定板=100mm
C:产品高度(product height)
D:型芯和型腔突出部分距离(Mould core height)
20mm:IML移出模内活动空间



图D1侧入式

A:C+5mm
B:IML手臂(SF、SM)+吸盘、接头固定板=50mm
C:产品高度/product高度
D:Mould core height/型芯和型腔突出部分距离
20mm:IML移出模内活动空间



图D2顶入式

IML-模具效果图



标仓 Label storage device

治具 Fixture

治具 Fixture

标仓 Label storage device

