



INSERTS

FOR

PLASTICS

塑膠專用螺母

Wherever you are...

we have the solution!

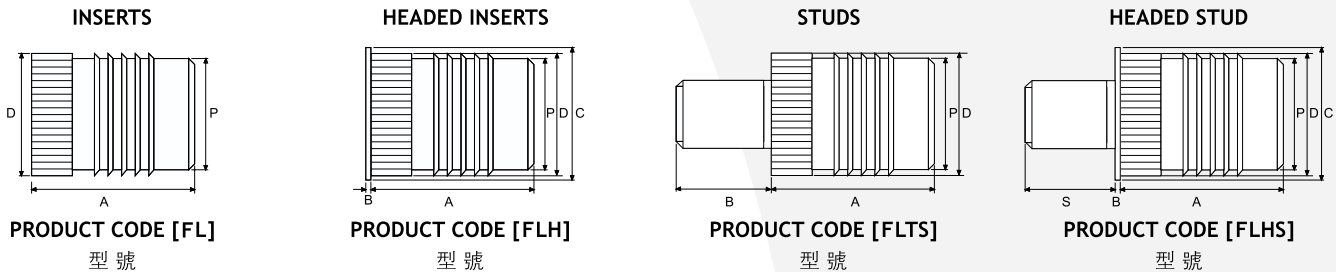
ADVANTAGES

- Easy press-in insertion
- High pull-out performance in most thermoplastics
- Self-aligning - Assists Installation

特點

- 埋植簡單，可用壓床壓入即可。
- 提供高扭拉力之性能應用於熱固性塑膠。

SELECTION OF INSERT OR STUD



ISO METRIC (公制)

Unit: Millimetres

Product Code 型	Thread Size 螺牙	Insert Length A 標準長度	Stud Lengths (For FLTS & FLHS only) S 公件長度										Head Height B 頭厚	Head Ø C 頭外徑	Insert Ø D 外徑	Pilot End Ø P 圓頭	No. of Fins	Rec.Hole Size -0.00 +0.10 孔直徑	Min. Wall Thickness 最少肉厚
			5	6	8	10	12	14	16	18	20	25							
FL-B	M2	4.0	5	6	8	10	12	14	16	18	20	25	0.45	4.8	3.7	3.1	2	3.2	1.6
	M2.5	4.8	5	6	8	10	12	14	16	18	20	25	0.58	5.5	4.5	3.9	3	4.0	2.0
FLH-B	M3	4.8	5	6	8	10	12	14	16	18	20	25	0.58	5.5	4.5	3.9	3	4.0	2.0
FLTS-B	M3.5	6.4	5	6	8	10	12	14	16	18	20	25	0.74	6.4	5.3	4.7	4	4.8	2.4
FLHS-B	M4	7.9	5	6	8	10	12	14	16	18	20	25	0.89	7.1	6.1	5.5	5	5.6	2.8
	M5	9.5	5	6	8	10	12	14	16	18	20	25	1.07	7.9	7.0	6.3	5	6.4	3.2
	M6	12.7	5	6	8	10	12	14	16	18	20	25	1.32	9.5	8.6	7.9	7	8.0	4.0
	M8	12.7	5	6	8	10	12	14	16	18	20	25	1.32	11.1	10.2	9.5	7	9.6	4.8

Other lengths possible on quotation. 其它長度也可估價。

UNIFIED (英制)

Unit: Inches

Product Code 型	Thread Size 螺牙	Insert Length A 標準長度	Stud Lengths (For FLTS & FLHS only) S 公件長度										Head Height B 頭厚	Head Ø C 頭外徑	Insert Ø D 外徑	Pilot End Ø P 圓頭	No. of Fins	Rec.Hole Size -0.000 +0.004 孔直徑	Min. Wall Thickness 最少肉厚
			3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1							
FL-B	2-56	.157	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.018	.189	.147	.123	2	.126	.063
	4-40	.187	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.023	.217	.178	.154	3	.157	.079
FLH-B	6-32	.250	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.029	.250	.209	.185	4	.189	.094
	8-32	.312	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.035	.281	.240	.218	5	.220	.110
FLTS-B	10-24	.375	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.042	.312	.274	.248	5	.252	.126
	10-32	.375	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.042	.312	.274	.248	5	.252	.128
FLHS-B	1/4-20	.500	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.052	.375	.337	.310	7	.315	.157
	1/4-28	.500	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.052	.375	.337	.310	7	.315	.157
	5/16-18	.500	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.052	.433	.400	.375	7	.378	.189
	5/16-24	.500	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	.052	.433	.400	.375	7	.378	.189

Other lengths possible on quotation. 其它長度也可估價。

STANDARD MATERIAL: BRASS (B)

Other materials possible on quotation

標準材質: 黃銅 (B)

其它長度也可估價。

SPECIFYING AN INSERT STUD

INSERTS (METRIC)					STUDS (METRIC)								
	HL	-	B	-	M3	HLTS	-	B	-	M3	×	5.0	
	PRODUCT CODE		MATERIAL		THREAD SIZE	PRODUCT CODE		MATERIAL		THREAD SIZE		STUD LENGTH	
	型號		材質		螺牙	型號		材質		螺牙		公件長度	
	HLH	-	B	-	632	HLHS	-	B	-	632	×	3/16	
INSERTS (INCHES)					STUDS (INCHES)								

BOSS DESIGN SPECIFICATION

HOLE PREPARATION

Moulded holes are recommended wherever possible. The taper on a moulded hole should be 1° inclusive and the hole diameter recommended should apply at the point reached by the bottom of the insert. The top of the hole should not be chamfered or counterbored and care must be taken to avoid bell mouching. Hole diameter tolerance: -0.00 +0.10mm.

塑膠孔徑之設計

1. 各規格螺母之塑膠建議孔徑，請參考規格表。
2. 塑膠孔徑內之脫模斜度應於 1 度以內。
3. 塑膠內孔徑之公差應設計在 -0.00+0.10mm 的範圍。
4. 塑膠孔上方可以不設計導角。

INSTALLATION

The inserts must be installed using a steady squeeze action press. A hammer blow type installation will prevent plastic flow and may damage the boss.

裝置

1. 可使用定速加壓方式壓入。
2. 不可用瞬間衝壓或鐵錘打人。

WALL THICKNESS

A general guide to minimum wall thickness is given in the data table but this will vary depending upon the nature of the plastic. Where thinner walls are required these can often be accommodated, but consultation with the P.S.M Technology Centre or Local Sales Office and pre-production testing is strongly advised.

塑膠孔肉厚

1. 建議肉厚，請參考規格表。
2. 肉厚可視不同塑膠材質，而略作調整，請先與 P.S.M 技術人員聯繫，必要時我們將協助測試及作最適當之建議。

PERFORMANCE DATA

The complexity of materials and variations in service conditions make it impossible to detail fastener performance for specific applications. The chart below gives a general guide and show the relative performance of the inserts in the range.

測試數據

1. P.S.M 使用各種精密之測試儀器，針對常用之塑膠材料作出各類型螺母可承受之拉力的測試參考數據。
2. P.S.M 為服務客戶，非常歡迎客戶委托代作測試，我們將提供完整及詳盡之測試報告及必要之建議。

