

INSERTS FOR PLASTICS

塑膠專用螺母

Wherever you are...

we have the solution!

ADVANTAGES

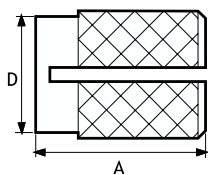
- Easy press in insertion
- Self locking action on the screw - ideal where vibration is present
- Suitable for most thermosetting plastics

特點

- 可用加壓方式快速裝置。
- 提供高扭拉力之性能。
- 適合於熱固性塑膠。

SELECTION OF INSERT

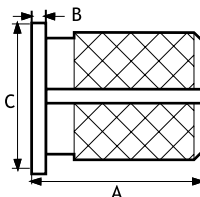
INSERTS



PRODUCT CODE [N41]

型號

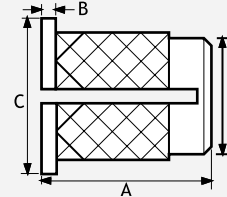
HEADED INSERTS



PRODUCT CODE [N42]

型號

REVERSE INSERTS



PRODUCT CODE [N42R]

型號

ISO METRIC (公制)

Unit: Millimetres

Product Code 型	Thread Size 螺牙	Insert Length A 標準長度	Preferred Other Length A 特殊長度	Head Height B 頭厚	Head ϕ C 頭外徑	Insert ϕ D 外徑	Rec.Hole Size - 0.00 + /0.10 孔直徑	Min. Wall Thickness 最少肉厚
N41-B N42-B N42R-B	M2	3.9	-	0.43	4.8	3.2	3.2	2.4
	M2.5	4.7	-	0.51	5.5	4.0	4.0	3.2
	M3	4.7	3.5	0.51	5.5	4.0	4.0	3.2
	M3.5	6.3	3.5	0.66	6.4	4.7	4.8	3.6
	M4	7.9	5.0	0.82	7.1	5.5	5.6	4.0
	M5	9.4	6.0	0.99	7.9	6.3	6.4	4.8
	M6	12.6	9.5	1.25	9.5	7.9	8.0	6.0
	M8	12.6	9.5	1.25	11.1	9.5	9.6	7.0

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

UNIFIED (英制)

Unit: Inches

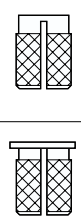
Product Code 型	Thread Size 螺牙	Insert Length A 標準長度	Preferred Other Length A 特殊長度	Head Height B 頭厚	Head ϕ C 頭外徑	Insert ϕ D 外徑	Rec.Hole Size -0.000 +0.004 孔直徑	Min. Wall Thickness 最少肉厚
N41-B N42-B N42R-B	2-56	.155	-	.017	.187	.124	.126	.094
	4-40	.186	.138	.020	.218	.156	.157	.126
	6-32	.249	.138	.026	.250	.186	.189	.142
	8-32	.312	.197	.032	.281	.217	.220	.157
	10-24	.371	.236	.039	.312	.249	.252	.189
	10-32	.371	.236	.039	.312	.249	.252	.189
	1/4-20	.497	.374	.049	.375	.311	.315	.236
	1/4-28	.497	.374	.049	.375	.311	.315	.236
	5/16-18	.497	.374	.049	.437	.374	.378	.276
	5/16-24	.497	.374	.049	.437	.374	.378	.276

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

INSERT (METRIC)					
	N41	–	B	–	M3 × 3.5
	PRODUCT CODE		MATERIAL		THREAD SIZE
	型號		材質		螺牙
	N42	–	B	–	632 × .138
					PREFERRED OTHER LENGTH
					特殊長度
INSERTS (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 mouting. Drilled holes may be used but performance may be reduce when compared with a moulded hole. Hole diameter tolerance: -0.00 +0.10mm.

SELECTION OF INSERT TYPE

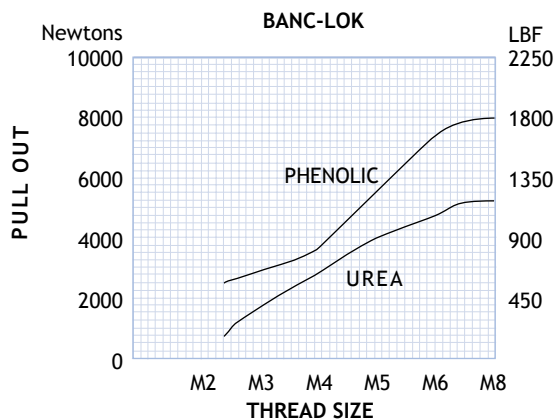
Headed inserts may be used For improved electrical contact or to fill gaps which would result in a jack-out condition. Alternatively a reverse headed type may be used with the head on the back of the moulding. This head then gives extra support for resistance to jack-out loads. These inserts are not recommended for use in thermosetting polyesters with high filler content (DMC, SMC, BMC), for applications using these materials we recommended Screw-Sert.

INFLUENCE OF SCREW DIMENSIONS

It is important that the fixing screw fully penetrates the insert in order to achieve full expansion. Screw length should therefore be calculated to ensure that this condition is met before the final clamp torque is applied.

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.



塑膠孔徑之設計

1. 螺母規格之塑膠孔徑建議值，請參考規格表。
2. 塑膠成型後，內孔徑之脫模斜度應於 1 度以內。
3. 塑膠內孔徑公差值請設於 -0.00+0.10mm 的範圍。

埋植螺母的選擇

有頭型的螺母可增加電流導電性及防止頂出現象的發生，但不適用於 DMC、SMC、BMC 等材料。

螺絲尺寸的影響

組裝時螺絲長度最好能配合螺母深度，以達到最佳的扭力值。

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。