

Why you should use Thread Inserts

To provide strong durable threads in soft materials

Most light alloys and plastic materials are very low in shear strength.

Tapped threads in these materials have very poor "pull" strength and very low resistance to wear.

The wire thread insert provides a hard, smooth surface of high mechanical efficiency.

It is normally used to provide hard, accurate, lasting threads in new components. It can, however, also be used to replace stripped or damaged threads.

It is lighter, cheaper and takes up far less space than a solid bushing. It locks itself into position in its tapped hole and does not require staking or locking pins.

The "Cross" Wire Thread Insert was designed and developed by the Cross Mfg. Co. (1938) Ltd. of Bath, from the original idea of the late R. C. Cross, F.I.Mech.E., A.F.R.Ae.S. inventor of the Rotary Valve engine.

It was initially introduced in 1950 to provide a strong durable thread in an aluminium automobile engine. Since then it has found applications in every field where light alloys and plastic are used.

The "Cross" Insert is made from round wire rolled to diamond section by methods of unrivalled precision. It is wound on a mandrel on which the insert is thread rolled to ensure that the true thread form is maintained during coiling.

The winding method employed enables the free diameter of the insert to be controlled within very close limits. This means that the insert fits perfectly in its tapped hole and provides a highly accurate internal thread. It also means that it can be fitted quickly and easily with relatively cheap and simple tools.

CROSS MANUFACTURING CO. (1938) LTD.
COMBE DOWN, BATH D.Q.A.B. & C.A.A. APPROVED.
Phone: Combe Down 837000 Grams: CIRCLE, BATH.

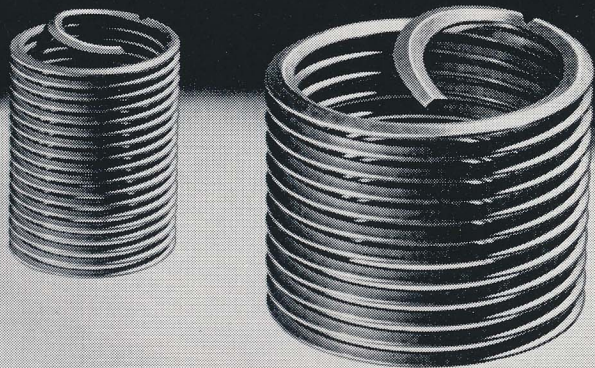
Produced by ATA West Advertising Ltd.



CROSS

Wire Thread Inserts

CROSS

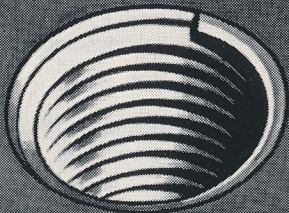


Why you must specify

CROSS

- 1 Quick easy fitting—no prewinding necessary—no difficulty even with countersunk holes.
- 2 Cheap, simple tooling.
- 3 Enormous range of thread forms—all normal British, Metric and Unified threads and many “specials” including one of 7 in. diameter.

- 4 Choice of materials—spring steel, stainless steel or phosphor bronze—any of these materials can be cadmium plated if required. Inserts can also be made in Nimonic 90.
- 5 All “Cross” inserts comply with S.B.A.C. or British Standards where applicable.
- 6 Highly accurate thread form and exceptional “pull” strength.



Insert in the fitted position.

