

T130E refurbished track links

PRODUCTS & SERVICES

- Armoured vehicle track links - both single and dual pin, design, manufacture and refurbishment.
- Armoured vehicle road wheels, design, manufacture and refurbishment.
- Track shrouds for Armoured vehicle.
- Anti-vibration/shock mounts for surface and sub-surface vessels.
- Hand fabrication of rubber products ie; gas sealing membranes for submarines, rubber fume/fluid ducts etc.
- Anechoic materials for sub-surface vessels.
- Missile and Silo components ie; conductive and high temperature seals, silo closures, shock mounts etc

CAPABILITIES

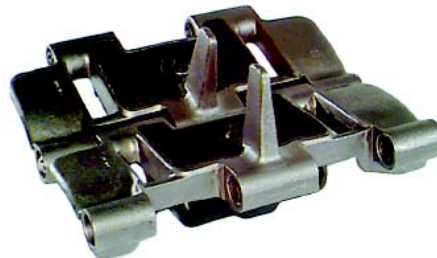
- Finite Element Analysis used in design concepts and validation of products
- Unigraphics CAD design drafting system.
- NATA certified laboratory
- Full range of rubber manufacturing processes.

QUALITY ASSURANCE

ISO 9001, ISO1401
QS9000

T130E track links refurbished to EMEI, vehicle N604-6, issue 1, Sept. 83 M113, series T130E. This calls for a stringent inspection of the used track shoe and the fitting of new bushes, track pad, pin and nuts.

The formulation used to manufacture the track bushes is licensed to Mackay Consolidated Industries Pty Limited by Aeronautical Marine Research Laboratory. This rubber has been extensively tested by AMRL over the last ten years in the laboratory and in the field on M113 vehicles, and further independent life testing has been carried out by the Australian Army showing considerable performance improvements when compared to four other track bush manufacturers. Trials in the UK have also confirmed the exceptional performance life characteristics of this rubber.



Whilst the compound is recognised as being a very important factor in bush life, Mackay has recognised that the installation of bushes is also critical, and that positioning and stress relaxation impacts directly on bush life. We have developed a PLC (basic computer) controlled bush installation machine which positions all bushes accurately in relation to each other and the link whilst removing rubber stresses during installation. The key advantages of this process include:

- Consistent and repeatable assembly of bushes.
- Programmed stress relaxation of bushes.
- Exceptional ease of assembly in the field as all bushes are positioned accurately.

The advantages of the Mackay pad include a uniquely designed engineering plastic used in the plate insert which has none of the inherent problems currently found in the steel or aluminium plate inserts.

- Plastic designed with webbing to avoid localized stressing.
- Stud is pressed into the steel washer using a splined interface fit.
- Stud washer assembly is locked into a large square boss in the plastic insert to withstand rotation forces when the nut is tightened.
- The plastic insert and rubber mould are shaped so as to create a one millimetre concave backed track pad. This essential to avoid debris from building up.
- Reduction in weight by 19 Kgs per Vehicle (compared to steel).
- Pad life under Australian conditions averages 1500-2000 Kms.



Excellence in Design