

ENGINE & TRANSMISSION RAFT MOUNTS

RAIL

PRODUCTS & SERVICES

- Primary suspension elements. Locomotives and passenger rolling stock.
- Secondary suspension elements. Locomotives and passenger rolling stock.
- Coil spring resilient pads.
- Traction pads.
- Engine and transmission raft suspensions.
- HVAC system resilient mounts and Seals
- Sterable bogie elements.
- Shock absorber support bushes.
- Drawbar, resilient slack adjuster wedges.
- General products

CAPABILITIES

- FEA design and validation.
- Unigraphics CAD design.
- Analysis for Modal vibration studies.
- NATA certified laboratory.
- Full formulation development and testing.
- Broad range of rubber processes.

QUALITY ASSURANCE

ISO 9001
ISO 1401
ISO/TS 16949



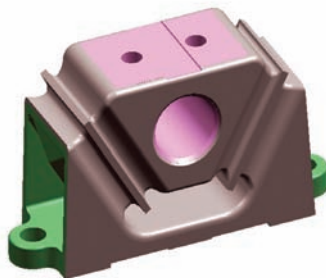
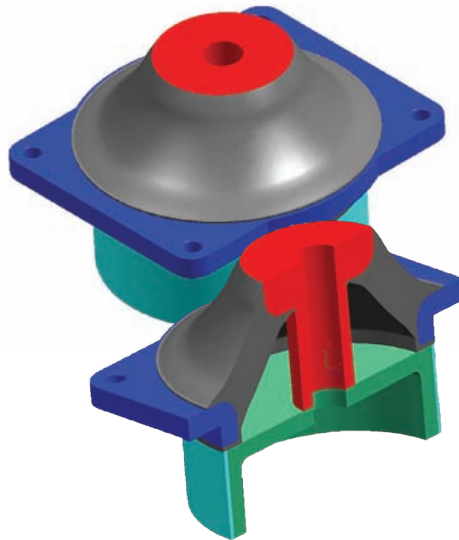
CERTIFIED QUALITY
MANAGEMENT SYSTEM
ISO 9001



CERTIFIED
ENVIRONMENTAL
MANAGEMENT SYSTEM
ISO 14001



ISO TS 16949



Mackay has designed a new mount with up to 20mm vertical deflection and linear response to provide superior vibration isolation in engine and raft mount installations.

Mackay has used modal analysis to ensure that there is no coincidence between;

- engine forcing functions and isolation natural frequencies,
- raft natural frequencies and isolation natural frequencies.

Engine: Cummins QSK 19- R
Idle 850 rpm
Full speed 2100 rpm
Power 560 kW

Trans.: Voith T312 bre

RTSA (NSW) Hunter DMU
Constructor: United Goninan
Introduction: 2005
Initial Fleet: 7 2-car sets



Worldwide
Engineered
Rubber
Products

260 Chesterville Rd , Moorabbin , Victoria, 3189, Australia
Phone: + 61 3 9555 6500 Fax: + 61 3 9276 8882
www.mackayrubber.com.au Email : rail@mackayrubber.com.au