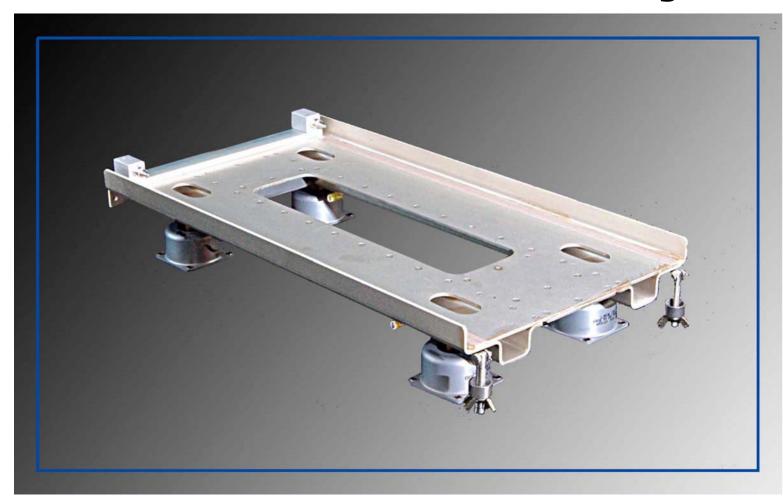
Shock & Vibration Trays are designed to meet your specifications for:

- Tray dynamic shock and vibration performance.
 - Size and space requirements.
 - Weight, loading and material goals.
- Mounting requirements for optimal dynamic performance.
 - Tray environmental requirements such as salt and humidity.
 - Wiring and connection conditions.
 - Cooling plenums and fans.

Shock & Vibration Trays













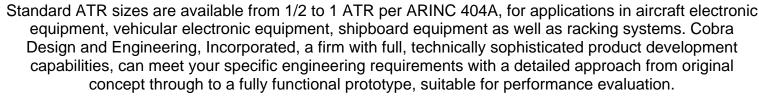




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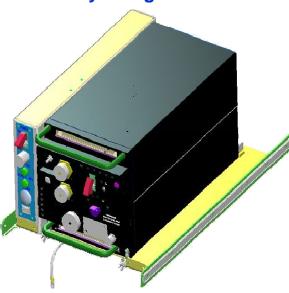
Cobra Design & Engineering Resources

Complete design and 3D modeling.

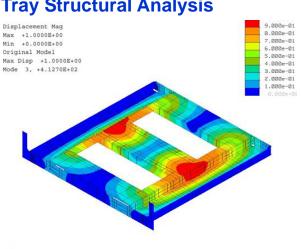
FEA analysis using specific environmental inputs.

• Available environmental testing services.

Custom Tray Design



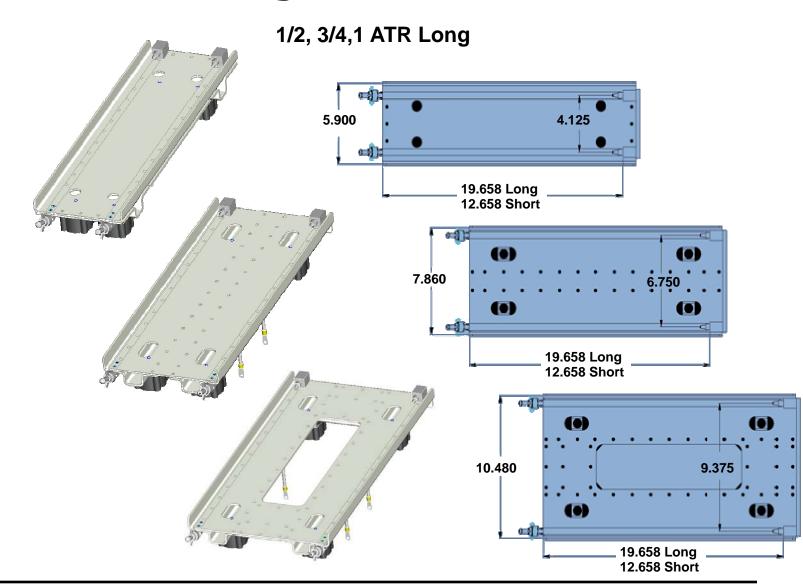
Tray Structural Analysis



ATR Product Line ATR Weight Max Model Number Description 03-ATR14SH-001 1/4 ATR Short 12 lbs(5.4 kgs) 03-ATR14LG-001 1/4 ATR Long 30 lbs(13.6 kgs) 03-ATR38SH-001 3/8 ATR Short 15 lbs(6.8 kgs) 03-ATR38LG-001 3/8 ATR Long 35 lbs(15.9 kgs) 03-ATR12SH-001 1/2 ATR Short 18 lbs(8.2 kgs) 03-ATR12LG-001 1/2 ATR Long 40 lbs(18.1 kgs) 30 lbs(13.6 kgs) 03-ATR34SH-001 3/4 ATR Short 03-ATR34LG-001 3/4 ATR Long 45 lbs(20.4 kgs) 03-ATR10SH-001 1 ATR Short 45 lbs(20.4 kgs) 1 ATR Long 60 lbs(27.2 kgs) 03-ATR10LG-001

Custom Trays

Shock & Vibration Tray Product Line



Shock & Vibration Tray Features:

- Aluminum alloy base with Alodine anodized finish.
- Military qualified isolators selected to match design loads.
- Military stainless steel hardware and retainers with passivated finish.
- Custom design configurations for special applications.
- Suitable for all mounting systems that require natural frequencies Above 20 MHz in the ambient temperature from -65 degrees Fahrenheit to +300 degrees Fahrenheit.

To bring your requirements to life, contact John Tischner or Brian Rennick at Cobra Design & Engineering today.