

# Overview

ERack's patented monocoque design is constructed from .060" high-tensile aluminum alloy and delivers an exceptional strength to weight ratio and all joints are seam welded using the very latest synergic pulse TIG technology.

Patented technology eliminates the edge extrusion, replacing it with an innovative folded rim design which makes the case stronger, lighter and more water and dust resistant. Special mounts protect against shock and the rack is up to 30% lighter than most other rack cases.

The unique design of the internal rack is created from RoHS compliant, high-tensile, alochromed aluminum alloy, coated with Iridite NCP (Non Chrome Passivation), and means that ERack delivers enhanced lightness, rigidity and durability.

The robust design and special anti-vibration mounts ensure that electronic equipment is protected against shock, vibration and impact, regardless of orientation.

The floating inner rack chassis is mounted on eight elastomeric mounts, fixed to the outer body by robust anchor plates, which focus towards the center of mass of the case. The chassis can easily be repositioned 1" 'fore and aft' from the standard central position if required.

The chassis can move up to 2" in any direction independently of the outer container, and a braided earthing (grounding) strap is fitted to maintain conductivity between the chassis and the body. Field-replaceable 10-32 stainless steel threaded cage nuts secure equipment and allow for easy switch-out of payload if required.

The folded rim design eliminates edge extrusion, making the case stronger, lighter and more resistant to water and dust, resulting in an Ingress Protection rating of IP65.

This innovative approach provides excellent EMC/EMI shielding characteristics and exceptional beam strength (>220 lbs center point load).

ERack gives the user access to the front and rear of any installed equipment via precision manufactured interchangeable lids, which are secured to the rack body by unique, patented quarter-turn latches. The specially designed latches feature fully recessed lobe knobs sculpted for easy grip even wearing arctic gloves.

Stainless steel latch spindles engage in striker sleeves located in the rack body, pre-aligning them as the lid is placed in position. Helical cams inside the striker sleeves draw the lid evenly to the body, providing optimum guaranteed seal compression, maintaining the structural integrity. Fully home, the latches are securely located in anti-vibration detents and an elastomeric seal on the spindle further prevents ingress of contaminants if the lid is displaced.

ERack can accommodate a payload of up to 110 lbs in its standard configuration. However, heavier payloads may be accommodated by double elastomeric or stainless steel wire rope mounts (further info available on request).

Designed for both commercial and military applications, this 19-inch ruggedized electronic transit rack offers protection against physical, climatic and electromagnetic hazards and is constructed from high-tensile aluminum alloy, making ERack ideal where weight, strength and portability are critical issues.



**Shock-mounted aluminum transit case for 19-inch rack-mounted equipment, ideal where a lightweight and strong solution is required**