

Lightweight 19 inch Protection

Transporting critical, fragile and often heavy rack equipment is now easier with a lighter yet more robust rack case from CP Cases – the lightweight ERACK. Accredited to MIL-STD-810F and IP66 compliant.

Patented new 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. Elastomeric mounts protect against shock and vibration and the rack is up to 30% lighter than other rack cases.

This 19-inch ruggedized electronic transit rack has been designed for commercial and military applications, when protection against physical, climatic and electromagnetic hazards are required.

Constructed from high-tensile aluminium alloy, ERACK is ideal where weight, strength and portability are critical issues.



Design features include:

- Very lightweight – the 6U 19 inch (480 mm) deep version weighs only 33 lb (14.7 kg) including lids.
- 19 inch chassis compliant to ANSI/EIA-310-C
- Rugged, 60 thou (1.5 mm) high tensile aluminum alloy construction.
- Recessed, sprung handles and quick release lid latches provide secure closure with front and rear access when stacked.
- Weatherproofing to EN 60529 / IP66.
- Stackable with inter-locating ribs on container top and bottom surfaces.
- Precision manufactured interchangeable lids.
- Available in 3U to 12U sizes.
- Standard chassis depths 19", 24", 29" and 34" (480 - 870 mm).
- Half rack designs also available.
- National Stock Numbers allocated.

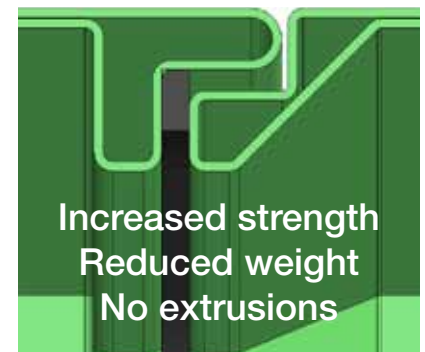
ERACK is used for applications worldwide including:

- Satellite communications.
- Land, air and seaborne military communications.
- Broadcast Field Stations.
- ENG flyaway solutions for Sat Comms.

Key feature:

The lid engagement profile is formed from the parent material by an innovative sequence of patented folds and TIG welding. This avoids attaching an extruded section to the body and provides:

- Substantial weight reduction.
- Exceptional beam strength (>220lb (100kg) centre point load).
- No rivet holes with much reduced inherent risk of leakage.
- Excellent EMC shielding characteristics.



- Secure communications in oil/gas/utility industries.
- Test and Measurement Equipment.
- Geophysical survey instrumentation

Features

Innovative Closure System

Half-turn lid latches feature fully recessed lobe knobs sculpted for easy grip even wearing arctic gloves.

Stainless steel latch spindles fixed in the lid engage in striker sleeves attached to the body, pre-aligning the latch spindles as the lid is placed in position.

Helical cams inside the striker sleeves draw down the lid evenly to the body, providing optimum guaranteed seal compression. Fully home, the latches are securely located in anti-vibration detents.

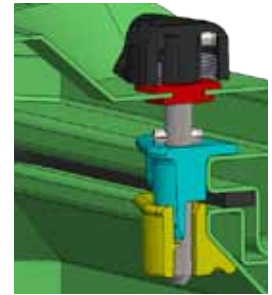
Stainless steel spindle and cross pins for high loading

closure of latch, and stainless steel return spring to disengage latch are fitted as standard.

An elastomeric seal on the stainless steel latch spindle prevents ingress of contaminants.

Lid and body interface with a silicone gasket seal to exclude ingress of water, dust and sand, giving an Ingress Protection rating of > IP66. Operational working temperature of the seal is -40°F to +158°F (-40°C to +70°C)

Accredited to MIL-STD-810F and IP66 compliant.



Positive, user-friendly latches

Floating Inner Rack Chassis



Floating rack chassis



50 mm sway space

Ensures that electronic equipment is protected against vibration and impact, regardless of orientation.

Constructed from RoHS compliant, high tensile, alodined aluminum alloy giving enhanced lightness, conductivity, rigidity and durability.

Mounted on eight elastomeric mounts (AVMs), fixed to robust welded anchor plates in the outer rack body, focused towards the centre of mass.

Up to 110 lb (50 kg) standard payload.

Double elastomeric or wire rope mounts are available for heavier payloads (further information available on request).

Chassis easily repositioned 1 inch (25 mm) "fore and aft" from the standard central position if required.

Up to 2 inches (50 mm) of sway space between the inner chassis and outer container allowing the suspended inner chassis to move independently of the outer container in any direction.

Sway space accommodates up to 1 inch (25 mm) of internal thermal insulation when required.

Field replaceable 10/32 stainless steel threaded cage nuts to secure equipment.

Earthing/grounding strap fitted to maintain conductivity between chassis and outer container.

Fully customisable to suit end user requirements with minimal delivery time and cost penalties.

Positive Stacking

- Stacking ribs are incorporated on top and bottom surfaces of rack body. ERACK units are fully stackable with front and rear access when stacked.
- Interstacks with Lightweight ERACK and Amazon Rack, with front face aligned regardless of body depth.
- Racks can be positively stacked together, allowing removal of front and rear lids without side access. Optional detachable link straps are available for locking stacked containers together.
- Retains body shape and "Lid Fit" integrity from -40°F to +158°F (-40 to +70°C) when stacked.



Positively stacked

Pressure and Humidity Control

To equalize pressure of internals with the atmosphere, the following options are available:

- Automatic pressure relief valve (APV) (with manual override)
- 2 way venting Gortex membrane
- Humidity indicator (incl. reusable desiccant)

Options and Finishes

Accessories

- Air Conditioning Systems
- Wheelboard with swivel / lockable castors.
- Lifting eyebolts.
- Spring loaded lifting shackles.
- Rechargeable desiccant capsules.
- Lids fitted with cable cleats, storage pouches and hinged compartments.
- Customized connector panels in lids.
- Fixing brackets for bulk-heads in vehicles and ships.
- EMC shielding.
- Silicone rubber skirt / gaiter between the chassis and the outer container for use without lids in adverse weather conditions.
- Adjustable shelf supports.
- 19 inch storage drawers, keyboard trays, slides and other accessories.

Colours and surface finishes

As Standard: Commercial black, olive drab and blue (electrostatic polyester powder coated surface finishes, on etch and prime base).

Options include:

- Military Standard paint specifications
- Other RAL and Federal Standard colours
- Wet coatings and stove enamelling
- Infra Red reflective (IRR) coatings
- Anti static black coating on 19" inner chassis

Labelling Options

- Metal engraved or indented metal stamping.
- Acid etched labels, flush or surface fixed (ink fill optional).
- Vinyl cut, self adhesive labels.
- Screen printed logos and lettering.
- Stencilled logos and lettering.
- Thermally printed labels on a polyester substrate (in a variety of colours and shapes).
- Sequential serial number printing.
- Bar coding.