

ERACK

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

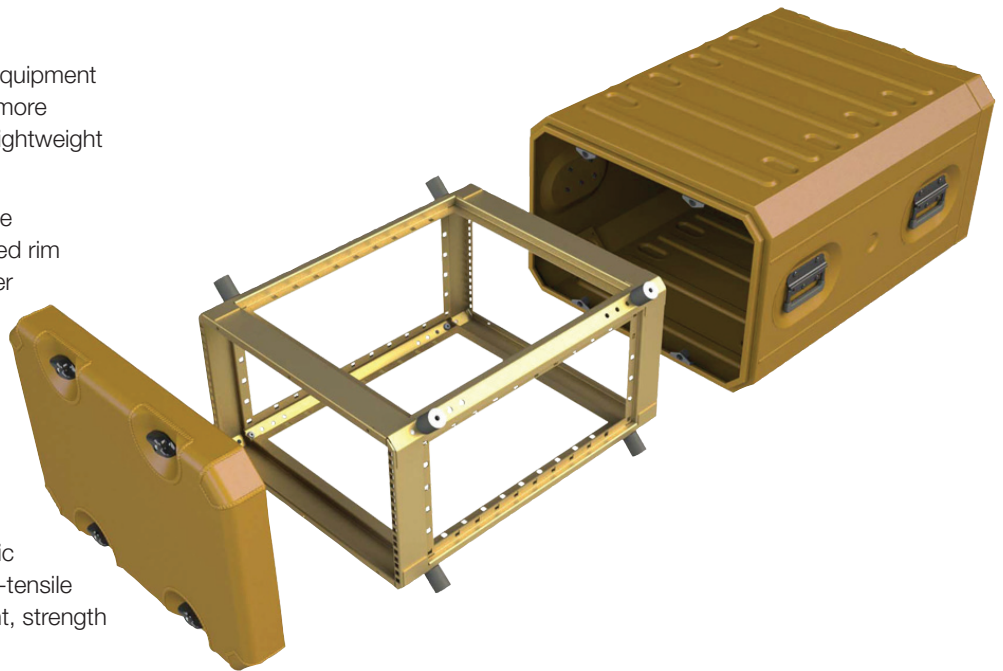


Lightness with protection

Transporting critical, fragile and heavy rack equipment has just been made easier with a lighter yet more robust rack case from CP Cases – the new lightweight ERACK.

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. Special mounts protect against shock and the rack is up to 30% lighter than other rack cases.

This 19-inch ruggedised 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 less than 14.7 kg (33 lb) including lids
- 19-inch chassis compliant to ANSI/EIA-310-C and BS5954
- Rugged, 1.5 mm (60 thou) high tensile aluminium alloy construction
- Recessed, sprung handles and quick release lid latches offer secure closure and allow front 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 480 mm/610 mm/740 mm/870 mm
- Half rack designs also available
- NSN Certification

Key features:

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
- Excellent EMC/EMI shielding characteristics
- No holes - much reduced inherent risk of leakage
- Exceptional beam strength (>100 kg centre point load)



ERACKs are used for applications worldwide including:

- Satellite communications
- Land, airborne and seaborne military communications
- Broadcast field stations
- ENG flyaway solutions for Sat Comms
- Secure communications in oil/gas/utility industries
- Test & Measurement equipment
- Geophysical survey instrumentation

Lightweight ERACK

User-friendly and made to last

Quarter-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.

Elastomeric seal on stainless steel latch spindle prevents ingress of contaminants.

Latch compresses silicone seal to give an Ingress Protection rating of > IP66.

Floating inner rack chassis

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

Constructed from RoSH compliant, high-tensile, anodised aluminium alloy giving enhanced lightness, conductivity, rigidity and durability.

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

Up to 50 kg standard payload. Heavier payloads may be accommodated by double elastomeric or stainless steel wire rope mounts (further info available on request).

Chassis can easily be repositioned 25 mm "fore and aft" from the standard central position if required.

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

Facilitates up to 25 mm of internal thermal insulation.

Field-replaceable M6 stainless steel threaded cage nuts to secure equipment.

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

Fully customisable to suit individual client requirements with minimal delivery time and cost penalties.

Detailed features & specifications

Lid and body interface with a silicone gasket seal to exclude ingress of water, dust and sand. Operational working temperature of the seal is -40°C to +70°C.

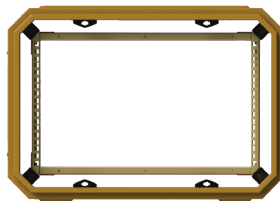
ERACK climactic protection meets MIL STD 810F and IP66.

Stacking ribs incorporated on top and bottom surfaces of rack body. ERACK units fully stackable with front and rear access when stacked.

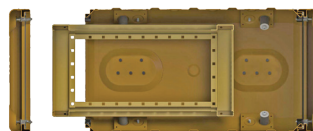
Optional detachable link straps are available for locking stacked containers together.



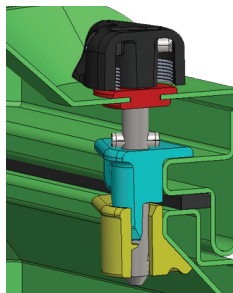
Neat and very light



Floating rack chassis



50 mm sway space



Positive, user-friendly latches



Innovative design



Positively stacked

Pressure and humidity control:

To equalise pressure of internals with atmosphere:

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

Optional accessories available:

- Air Conditioning Systems
- Wheelboard with swivel / lockable castors
- Lifting eyebolts for easy location and positioning
- Spring loaded lifting shackles
- Rechargeable desiccant capsules
- Lids fitted with cable cleats, storage pouches and hinged compartments
- Screw down M8 lid fasteners
- Customised connector panels in lids
- Fixing brackets for bulkheads in vehicles and ships
- Electromagnetic shielding
- Tempest 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

Stackable

- Interstacks with Lightweight ERACK and Amazon.
- Racks can be positively stacked together, allowing removal of front & rear lids without side access
- Retains body shape and "Lid Fit" integrity from -40°C to +70°C when stacked

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 BS colours
- Wet coatings and stove enamelling
- Infra Red reflective (IRR) coatings
- Anti static black coating on 19-inch 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