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Introducing ERack

Transporting mission-critical, fragile and heavy rack equipment has been made easier with ERack, a lightweight, robust rack case from CP Cases.
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).
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.

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).

Shock-mounted aluminum transit case for 19-inch rack-mounted equipment, ideal where a lightweight and strong solution is required.
ERack
As with all CP Cases’ products, ERack is fully customizable to suit individual client requirements; CP Cases has extensive experience in designing and manufacturing ruggedized OEM cases and containers, and are able to provide practical solutions for unique applications, when a case or an extremely tough container is required for deployment, transport or storage.

ERack carries the following accreditations and standards:
- MIL-STD-810F
- DEF STAN 00-35
- Ingress Protection rating 65
- RoHS compliant
- NATO stock numbers
- ANSI/EIA-310-C
- BS5954

**Features**

**Aluminum**
Rugged, .060” high tensile aluminum alloy construction

**Chassis Depth**
Standard chassis depths: 19”, 24”, 29” and 34”

**Half Rack**
Designs also available

**Lids**
Precision manufactured and interchangeable

**Lightweight**
The 4U 19” deep version weighs less than 30 lbs including lids

**Patented**
Unique patented design

**Patented rim-fold**
Innovative folded rim design, which eliminates edge extrusion and makes the case stronger, lighter and more resistant to ingress by water and dust

**Secure Closure**
Recessed, sprung handles and quick release lid latches offer secure closure and allow front access when stacked

**Sizing**
Available in 3U to 12U sizes

**Stackable**
with inter-locating ribs on container top and bottom surfaces

**Temperature**
Stable in temperatures from -40°F to +158°F (-40°C to +70°C)

**Easy access while stacked with other ERack or Amazon Racks**

Robust aluminum construction

Elastomeric anti-vibration mounts available in two hardnesses

Quarter-turn latches draw the lid into position

Patented rim-fold ensures strength and integrity

Unique, lightweight chassis

ERack carries the following accreditations and standards:
- MIL-STD-810F
- DEF STAN 00-35
- Ingress Protection rating 65
- RoHS compliant
- NATO stock numbers
- ANSI/EIA-310-C
- BS5954
Applications
Certification and accreditations are available on request
## Size List

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* Approximate weight
For additional weight with EasyGlide accessory, see page 8
Sizes and Numbering

Size Numbering System

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<td>Lid depth Front (in)</td>
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Scale comparison of ERack RR0619-0303 to a 6ft / 1.83m tall man
**ERack Accessories**

### EasyGlide™ (Removable Chassis System)
Removable ‘EasyGlide’ chassis frame option allows the complete withdrawal of the 19" inner frame in constricted spaces or semi-permanent installations, without loss of anti-vibration characteristics. Add following to total weight if EasyGlide included:
- 19" chassis: 3.7 lbs
- 24" chassis: 4.4 lbs
- 29" chassis: 5.3 lbs
- 34" chassis: 6.2 lbs (E)

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(E) = Estimated weight

### Aluminum Handles
Additional powder-coated aluminum handles are available as surface mounted items only.

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### Cable Storage Pouch
Zipped pouch that can be secured in place in both shallow and deep rack lids for the storage of cabling and leads. Cable pouches can be retrofitted by users without the use of tools.

**Options:**
- RRASP0303/BK for 3U ERack
- RRASP0403/BK for 4U ERack
- RRASP0503/BK for 5U ERack
- RRASP0603/BK for 6U ERack
- RRASP0803/BK for 8U ERack
- RRASP1003/BK for 10U ERack
- RRASP1203/BK for 12U ERack

### Lift/Tie Down Rings
Black powder-coated stainless steel tie-downs and lifting rings for when a freight solution is required.

**Options:**
- AATD001/BK
- RRTD001/BK

### Elastomeric Mount Options
Stiffer elastomeric mounts are available for payloads in excess of 110 lbs. Elastomeric mounts can also be fitted in tandem at each corner of the internal suspended frame, to give a total of 16 anti-vibration mounts. This provides a controlled ride for very heavy loads.

**Options:**
- AAVM458 – factory fit 8 additional mounts, 45 shore hardness
- AAVM608 – factory fit 8 additional mounts, 60 shore hardness
- AAVM60R – factory fit 8 60 shore hardness in place of 45 shore hardness

(E) = Estimated weight
Latches
Specially designed quarter-turn latches feature fully recessed lobe knobs sculpted for easy grip even wearing arctic gloves. These are standard on all ERack units.

Wire Rope Anti-Vibration Mounts
Wire rope isolators can be fitted in place of elastomeric mounts. These are comprised of stainless steel stranded cable, threaded through aluminum alloy retaining bars, for effective vibration isolation. Their corrosion-resistance, all-metal construction, gives high-performance shock and vibration protection in hostile environments and are unaffected by temperature extremes, chemicals, oils, solvents and abrasives.

Insect Hoods
Transparent membrane to protect sensitive equipment while still allowing visual access to the rack.

Wheelboards
The ERack wheelboard allows heavy loads and stacked units to be easily moved. Loads up to 660 lbs can be accommodated.

Earthing/ Grounding Point
Earthing/grounding points can be fitted to allow for discharge of static electricity from the inner rack frame and its mounted equipment.

Lid Hangers
For stowage of lids while the rack is in use. This is a factory fit only item.

Fixings

Support Shelf
Stainless steel full-width shelf to provide extra support for heavy payloads. (Self-color shelf, inc fixings, provided)

Wire Rope Anti-Vibration Mounts
Wire Rope Anti-Vibration Mounts
Wire Rope Anti-Vibration Mounts
Wire Rope Anti-Vibration Mounts
ERack Accessories

Tamper-proof Latches
Specially designed hexagonal-head latch for additional security. Factory fit only.

RRATPF

Protective Skirts
For protection against the ingress of rain under operational conditions with the lid removed, a flexible rubber skirt can be fitted between the outer casing and the internal rack frame. It is important to ensure equipment front panels are watertight to prevent water entry.

RRAPS03 for 3U ERack
RRAPS04 for 4U ERack
RRAPS05 for 5U ERack
RRAPS06 for 6U ERack
RRAPS08 for 8U ERack
RRAPS10 for 10U ERack
RRAPS12 for 12U ERack

EMC/EMI Gasket and Protective Skirts
To maintain the EMC integrity of the rack a specially designed gasket must be used in conjunction with the protective skirt.

RRAEMCG03 – EMC/EMI lid gasket, for 3U rack
RRAEMCG04 – EMC/EMI lid gasket, for 4U rack
RRAEMCG05 – EMC/EMI lid gasket, for 5U rack
RRAEMCG06 – EMC/EMI lid gasket, for 6U rack
RRAEMCG08 – EMC/EMI lid gasket, for 8U rack
RRAEMCG10 – EMC/EMI lid gasket, for 10U rack
RRAEMCG12 – EMC/EMI lid gasket, for 12U rack

RRAEMC03 – EMC/EMI protective skirt, for 3U rack
RRAEMC04 – EMC/EMI protective skirt, for 4U rack
RRAEMC05 – EMC/EMI protective skirt, for 5U rack
RRAEMC06 – EMC/EMI protective skirt, for 6U rack
RRAEMC08 – EMC/EMI protective skirt, for 8U rack
RRAEMC10 – EMC/EMI protective skirt, for 10U rack
RRAEMC12 – EMC/EMI protective skirt, for 12U rack

Automatic Pressure Relief Valve (PRV)
A two-way automatic pressure relief valve with manual override release push button enables equalization of the pressure inside and outside the container.

RRAPRV
RRAPRVEMI

Humidity Indicator
Humidity indicator for effective humidity control during long-term storage.

AAHI3050
Applications in
- Aerospace
- Maritime
- Offshore & Geophysical
- Secure Telecommunications
- Satellite Uplinks
Other CP Products and Services

Climate Control

CP Cases Climate Control is a new offering covering air conditioning and climate control units for use in CP Cases’ ERack.

Delivered either as a COOL-COLLAR™ or as an integrated unit, CPCC provides a one-stop-shop for 19-inch rack mount cases complete with air conditioning to maintain equipment’s optimal operating conditions. Available in thermoelectric, for heating as well as cooling, and vapor compression, for high efficiency and volume, formats.

All CP Cases Climate Control units can be fitted with accessories including stowage pouches, wheel kits, pressure relief valves and humidity indicators.

COOL-COLLAR™

COOL-COLLAR™ is an air conditioning capability for 19-inch racks that utilizes the patented ERack rim-fold to create an airtight and waterproof seal to allow the unit to function in extreme conditions. The unit is attached to an existing rack to maintain an optimum operation temperature for equipment.

Where a greater cooling requirement is needed, two COOL-COLLARs™ with AC units can be fitted to both the front and rear of the rack. Units are available up to 5000BTU (1465 watts) which can be fitted to 12U racks and collars.

Integrated Units

Built directly into the rack system, these climate control units provide cooling and heating, when required, automatically when temperature perimeters are met. Normally end-mounted, CP Cases offer the capability to integrate in a range of orientations to fit client requirements.

ERack Size Numbering System

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<td>RRCC1011-0303 VCC</td>
<td>COOL Collar 10U 2 x 3” Lids</td>
<td>23.5</td>
<td>24.2</td>
<td>16.4</td>
<td>10</td>
<td>4</td>
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<tr>
<td>RRCC1211-0303 TEU</td>
<td>COOL Collar 12U 2 x 3” Lids</td>
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<tr>
<td>RRCC1211-0303 VCC</td>
<td>COOL Collar 12U 2 x 3” Lids</td>
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<td>24.2</td>
<td>16.4</td>
<td>12</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

* TEU = Thermoelectric Unit
VCC = Vapor Compression Cycle

Weight listed is for COOL-COLLAR only. Please contact CP Cases for air conditioner weights. 
(E) = Estimated weight
**SatRack™**

Designed for Electronic News Gatherers and Media Professionals, operating across the globe, SatRack is a lightweight solution that can be carried on commercial airlines as checked luggage, saving time and avoiding additional baggage charges for those who need delicate electronic and satcom equipment to be quickly deployable and available immediately.

SatRack’s novel and patented design is available in standard sizes of 3U, 4U and 5U versions with a 19” or 24” deep, ultra-lightweight welded aluminum floating frame and is fully compatible with all 19-inch rack-mountable equipment. This design offers an exceptional strength-to-weight ratio and equipment panel fixing rails located at both ends of the frame allow for flexible mounting of kit.

(Also available for 9.5-inch racks.)

**Amazon Cases & Racks™**

Ideal for defense, marine, security, aerospace, oil and gas, satellite and telecommunication applications worldwide, Amazon Cases and Racks deliver exceptional strength to weight and are suitable where delicate or valuable equipment needs to be transported or stored safely.

Amazon Cases and Racks have a unique patented design that offers a tough, lightweight, customizable system that can be tailored to the client’s requirements and individual needs.

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**Aluminum Cases**

A triumph of strength and style, CP Cases aluminum cases protects their contents even under severe impact and are tougher, lighter and more resilient than traditional designs in laminated plywood.

CP Cases aluminum cases are the ideal balance between style and protection. Made from .080” rigidized aluminum, cases are constructed without an edge corner weld to prevent seam splitting and the pre-pressed corners add extra strength and exceptional resistance to drop damage.

The inter-locking lid/body seal, with an integrated neoprene rubber gasket, protects contents against rain, dirt, dust and other environmental hazards.

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**Rugged Textiles**

CP Cases manufactures a wide range of bags and covers for Original Equipment Manufacturers (OEMs), to provide a cost effective and practical solution for moving, deploying and protecting equipment and instrumentation. Products are widely used in the medical, defense, electronics and broadcast industries for a variety of applications.

Whether protecting expensive broadcast equipment from rain showers at Wimbledon, to sales presentation packs for artificial knee joints, or operational bags for aircraft testing equipment; CP Cases can provide a solution. The design team draws on years of experience with protective textiles to create the most cost-effective bag for your needs.

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**Custom Solutions**

CP Cases’ design team can create a solution for any application that you or your products require. Designers are equipped with state-of-the-art capabilities and have extensive experience in diverse manufacturing processes including rotomolding, blow molding and injection molding, vacuum molding, precision sheet metal work and traditional craft skills in a wide range of materials.

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**Foam Engineering**

CP Cases can create foam protection systems to meet exacting project requirements for color, multi-layering and special properties, by a variety of processes, including high speed CNC routing, laminating, drilling, blocking, waterjet cutting and hand sculpting.

Calculating which density and composition of foam to use and the exact thickness required to produce the desired deceleration on impact, ensures the best protection possible.
About CP Cases
CP Cases designs and manufactures high-performance, protective cases and racks used for transport, operation and storage of essential equipment in commercial and military applications.

Many of our products are accredited to MIL-STD-810F, rated IP65 and carry NATO stock numbers. With over 40 years’ of expertise in producing cases, 19-inch rack solutions and rugged textile products, CP Cases has an unparalleled range of in-house skills and knowledge with materials and processes, including rotationally molded products, plastic fabrication, aluminum, laminated plywood, HPP, textiles and CNC foam machining.

Full Capability Statement available on request.