



Becklin Holdings, Inc.

**ECSCASE**  
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## Loadmaster™ Rackmount Cases Features and Performance Highlights

### Loadmaster™ Rackmount Cases

#### The Ruggedized Choice

Loadmaster™ Rackmount Cases are the toughest, lightest, most protective, portable military electronic enclosures anywhere. They are extremely durable in any environment. The slide-out rack can be unlatched and removed from the outer case when the rack is empty or when it is filled with electronic equipment. Slide-out 19-inch racks allow unlimited access to electronic equipment during installation, integration, and maintenance. Ruggedized ECS Rackmount Cases have been the choice of American warfighters for more than 40-years.



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## Loadmaster™ Rackmount Cases

### Features and Performance Highlights

#### Comprehensive Shock & Vibration Protection

Loadmaster™ Rackmount Cases provide excellent shock and vibration protection for electronic equipment of all types. TSC (Thermo Stamped Composite) materials are very rigid under heavy stacking loads and resilient during impacts. Approximately one third of all impact energy is absorbed by the deflection of the TSC enclosure walls before impact forces are transferred to the shock mounts. Final shock and vibration attenuation is then provided by a minimum of eight hemispherical shock isolators.

#### Optimum Cube And Weight

ECS Rackmount Cases provide maximum sway space inside the smallest, lightest, toughest rackmount enclosures available anywhere. Enhanced sway space for the rack allows shock mounts to provide maximum shock and vibration protection for the equipment. The 19-inch racks utilize compression molded TSC composite parts to optimize volume utilization inside the case and to reduce total case weight. Rackmount cases provide maximum attenuation of impact energy and unequaled shock and vibration protection for enclosed equipment.

#### The Ultimate Composite Case Material

Rackmount cases are manufactured from ECS' incredibly strong TSC material. Using compression molding presses up to 1,200-tons in capacity, ECS manufactures these cases of the same composite materials used for car bumpers and military truck components. TSC case shells provide extraordinary impact resistance and rugged durability at temperatures ranging from -65° F to +185° F.

#### Total Protection From The World's Environments

Water tight TSC rackmount cases provide protection from moisture, salt spray, sand and dust throughout the world's climate extremes, thanks to molded-in inserts and lid hangers to prevent leak paths. Impervious to fuels, oils and solvents, they can also be decontaminated if exposed to chemical warfare agents.

#### Broad Range Of Sizes

Standard Loadmaster™ Rackmount case sizes are available from 3U-20U in rack height and front-to-back rack depths of 20.00", 24.00" and 30.00". TSC covers are available 3" or 5" depths.

#### Equipment Weight Range

Standard 19-inch rackmount cases are designed for equipment weights up to 120 pounds. Rackmount cases and their aluminum racks can be custom reinforced and supplied with additional shock mounts to accommodate and protect equipment weighing up to 300 pounds.

#### CEA-310-E Compliant Equipment Racks

CEA-310-E compliant shock mounted interior racks are manufactured from precision machined aluminum extrusions. Riveted aluminum vertical rails on these 19-inch racks provide multiple equipment mounting capabilities. Racks have equipment mounting holes in front and rear vertical members and interior vertical rails for attachment of slides and brackets. Two rackmount fastener types are available - Thread locking 10-32 clip nuts or stainless steel nut bars with 10-32 tapped holes.

#### Shock Mounted Equipment Protection

19-inch CEA-310-E compliant racks are suspended within the center bodies of rackmount cases using a minimum of eight multi-axis elastomeric shock isolators. Shock isolators are configured for the weight and center of gravity of the installed equipment, and they provide uniform performance in all three axes. Optional shock mount configurations and spring rates can be provided to support a broad range of equipment weights and equipment centers-of-gravity.

#### Unrestricted Equipment Operation

Cases are stackable with covers installed or removed. With covers removed, electronic equipment is accessible front and back for ease of cabling and operation. Exterior stacking features securely engage and prevent shifting of cases. Standard stacking latches are available to secure stacked cases together, and will rotate for retention during case shipment.

#### Quick Cover Removal And Installation

Externally operated quarter turn latches permit rapid removal and installation of covers while the cases are stacked. Rackmount cases have molded-in male/female closure features that are gasketed for a perfect watertight seal.

#### TSC Rackmount Cases Stack With Loadmaster Storage Cases

Loadmaster™ Rackmount Cases have the Loadmaster™ patented stacking features. These features allow rackmount cases to stack together and interlock with ECS Loadmaster™ Shipping Cases and storage cases. Set-up of military electronic systems has never been easier or more secure. Warehouse storage or palletized shipment of rackmount cases and transit cases has never been safer or more efficient.

#### High Performance Hardware

All hardware is recessed for maximum protection. Latches, custom brackets and fasteners are stainless steel. Ergonomic acetal copolymer handles with UV inhibitor have comparable strength to steel at half the weight. An automatic air pressure relief valve protects the case and enclosed electronic equipment from rapid compression and decompression during transportation.

#### Colors & Options

ECS Rackmount Cases are available in military colors, desert tan, black, olive drab and gray. Standard options are available, including: edge casters (3U to 10U), center-grip handles, lid pouches, removable casters, drawers and rain shields.

#### About ECS

ECS Case is a third generation, family owned business founded in 1954 with two manufacturing plants in Grants Pass and Klamath Falls, Oregon. ECS is a certified Small Business and HUB Zone and has four distinct products lines: Fiberglass Reinforced Polyester (FRP), Thermo Stamped Composite (TSC), Rotomolded Linear Low Density Polyethylene (LLDP), and Vacuum Infusion Process (VIP).



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### 8000 Series (Slide-Out Frame) Rackmount Case Sizes

Weights are approximate depending on case options selected.

ECS Case Part No.	Rack Height (Units)	Rack Height Inside (Inch)	Flange to Flange Depth (Inch)	Outside Case Height (Inch)	Outside Case Width (Inch)	Front Cover Depth (Inch)	Center Body Depth (Inch)	Rear Cover Depth (Inch)	Overall Outside Depth (Inch)	Case Weight (Lbs)
8303	3	5.25	20.00	9.34	22.47	3.00	24.00	3.00	30.00	36.8
8304	4	7.00	20.00	11.09	22.47	3.00	24.00	3.00	30.00	38.9
8305	5	8.75	20.00	12.84	22.47	3.00	24.00	3.00	30.00	40.8
8306	6	10.50	20.00	14.59	22.47	3.00	24.00	3.00	30.00	44.2
8307	7	12.25	20.00	16.34	22.47	3.00	24.00	3.00	30.00	46.2
8308	8	14.00	20.00	18.09	22.47	3.00	24.00	3.00	30.00	48.6
8309	9	15.75	20.00	19.84	22.47	3.00	24.00	3.00	30.00	50.5
8310	10	17.50	20.00	21.59	22.47	3.00	24.00	3.00	30.00	52.4
8311	11	19.25	20.00	23.34	22.47	3.00	24.00	3.00	30.00	52.9
8312	12	21.00	20.00	25.09	22.47	3.00	24.00	3.00	30.00	54.8
8313	13	22.75	20.00	26.84	22.47	3.00	24.00	3.00	30.00	56.9
8314	14	24.50	20.00	28.59	22.47	3.00	24.00	3.00	30.00	58.7
8315	15	26.25	20.00	30.34	22.47	3.00	24.00	3.00	30.00	61.6
8316	16	28.00	20.00	32.09	22.47	3.00	24.00	3.00	30.00	63.5
8317	17	29.75	20.00	33.84	22.47	3.00	24.00	3.00	30.00	66.4
8318	18	31.50	20.00	35.59	22.47	3.00	24.00	3.00	30.00	67.3
8319	19	33.25	20.00	37.34	22.47	3.00	24.00	3.00	30.00	69.2
8320	20	35.00	20.00	39.09	22.47	3.00	24.00	3.00	30.00	71.1

ECS Case Part No.	Rack Height (Units)	Rack Height Inside (Inch)	Flange to Flange Depth (Inch)	Outside Case Height (Inch)	Outside Case Width (Inch)	Front Cover Depth (Inch)	Center Body Depth (Inch)	Rear Cover Depth (Inch)	Overall Outside Depth (Inch)	Case Weight (Lbs)
8503	3	5.25	24.00	9.34	22.47	3.00	28.50	3.00	34.50	40.5
8504	4	7.00	24.00	11.09	22.47	3.00	28.50	3.00	34.50	42.7
8505	5	8.75	24.00	12.84	22.47	3.00	28.50	3.00	34.50	44.7
8506	6	10.50	24.00	14.59	22.47	3.00	28.50	3.00	34.50	48.2
8507	7	12.25	24.00	16.34	22.47	3.00	28.50	3.00	34.50	50.3
8508	8	14.00	24.00	18.09	22.47	3.00	28.50	3.00	34.50	52.8
8509	9	15.75	24.00	19.84	22.47	3.00	28.50	3.00	34.50	54.8
8510	10	17.50	24.00	21.59	22.47	3.00	28.50	3.00	34.50	56.8
8511	11	19.25	24.00	23.34	22.47	3.00	28.50	3.00	34.50	57.5
8512	12	21.00	24.00	25.09	22.47	3.00	28.50	3.00	34.50	59.5
8513	13	22.75	24.00	26.84	22.47	3.00	28.50	3.00	34.50	61.6
8514	14	24.50	24.00	28.59	22.47	3.00	28.50	3.00	34.50	63.6
8515	15	26.25	24.00	30.34	22.47	3.00	28.50	3.00	34.50	66.6
8516	16	28.00	24.00	32.09	22.47	3.00	28.50	3.00	34.50	68.6
8517	17	29.75	24.00	33.84	22.47	3.00	28.50	3.00	34.50	70.6
8518	18	31.50	24.00	35.59	22.47	3.00	28.50	3.00	34.50	72.6
8519	19	33.25	24.00	37.34	22.47	3.00	28.50	3.00	34.50	74.6
8520	20	35.00	24.00	39.09	22.47	3.00	28.50	3.00	34.50	76.8



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8903	3	5.25	30.00	9.34	22.47	3.00	34.00	3.00	40.00	46.3
8904	4	7.00	30.00	11.09	22.47	3.00	34.00	3.00	40.00	48.6
8905	5	8.75	30.00	12.84	22.47	3.00	34.00	3.00	40.00	50.8
8906	6	10.50	30.00	14.59	22.47	3.00	34.00	3.00	40.00	54.5
8907	7	12.25	30.00	16.34	22.47	3.00	34.00	3.00	40.00	56.7
8908	8	14.00	30.00	18.09	22.47	3.00	34.00	3.00	40.00	59.4
8909	9	15.75	30.00	19.84	22.47	3.00	34.00	3.00	40.00	61.6
8910	10	17.50	30.00	21.59	22.47	3.00	34.00	3.00	40.00	63.7
8911	11	19.25	30.00	23.34	22.47	3.00	34.00	3.00	40.00	64.6
8912	12	21.00	30.00	25.09	22.47	3.00	34.00	3.00	40.00	66.7
8913	13	22.75	30.00	26.84	22.47	3.00	34.00	3.00	40.00	69.0
8914	14	24.50	30.00	28.59	22.47	3.00	34.00	3.00	40.00	71.1
8915	15	26.25	30.00	30.34	22.47	3.00	34.00	3.00	40.00	74.4
8916	16	28.00	30.00	32.09	22.47	3.00	34.00	3.00	40.00	76.6
8917	17	29.75	30.00	33.84	22.47	3.00	34.00	3.00	40.00	78.7
8918	18	31.50	30.00	35.59	22.47	3.00	34.00	3.00	40.00	80.8
8919	19	33.25	30.00	37.34	22.47	3.00	34.00	3.00	40.00	83.0
8920	20	35.00	30.00	39.09	22.47	3.00	34.00	3.00	40.00	85.2



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