

MHD-Series High Density Server Cabinet

As AI transforms data center architecture, traditional cabinets can no longer support the weight, cooling, and spatial demands of modern GPU-driven systems. The Martin MHD-Series High Density Server Cabinet is purpose-built for these new requirements—delivering exceptional structural strength, optimized airflow pathways, and intelligent space planning for today's AI and hyperscale environments.

AI deployments demand more than a standard rack. Dense GPU arrays, liquid-cooling manifolds, redundant power distribution, and massive cable volumes require both unmatched load capacity and strategic internal layout. The MHD-Series High Density Server Cabinet is designed precisely for that.

Features

Welded Patented Aluminum Extrusion Frame

- Lightweight 6063 T5 welded rugged frame
- Dynamic weight load 4,000 LBS; Static weight load 5,000 LBS
- 29.50" (750mm) and 31.50" (850mm) frame widths available
- Available in 42U, 48U, 52U height options
- 50.00" (1270mm) and 60.00" (1524mm) frame depths available
- Custom sizes available upon request
- Textured powder coat finish

2 Pairs of Fully Adjustable Vertical Mounting Rails

- 19" Rack mount
- Cable pass throughs with cover plates on vertical rails
- Standard square hole mount
- U-Label markings

Solid Top Panel With Cable Access

- (2) 12" X 4" and (2) 24" X 4" cable access cutouts with cover plates

Caster Base

- HD Casters and adjustable leveling feet

Perforated Front and Rear Lockable Doors

- High Air Flow 78% Ventilation

Split Quick Release Locking Side Panels

- Solid side panels

(2) Extra Wide Lacing Panels

- Mounting up to (8) vertical PDUs or a wide variety of cable management accessories





Part Number	Dimensions				Frame Style	
	19" Rack Mount	Usable Width	Usable Height (U)	Usable Depth	Patented Aluminum Frame	Welded Frame
MHD732547	✓	25.26"	42U	47.58"	✓	✓
MHD732747	✓	27.26"	42U	47.58"	✓	✓
MHD732557	✓	25.26""	42U	57.58"	✓	✓
MHD732757	✓	27.26"	42U	57.58"	✓	✓
MHD842547	✓	25.26"	48U	47.58"	✓	✓
MHD842747	✓	27.26"	48U	47.58"	✓	✓
MHD842557	✓	25.26"	48U	57.58"	✓	✓
MHD842757	✓	27.26"	48U	57.58"	✓	✓
MHD912547	✓	25.26"	52U	47.58"	✓	✓
MHD912747	✓	27.26"	54U	47.58"	✓	✓
MHD912557	✓	25.26"	54U	57.58"	✓	✓
MHD912757	✓	27.26"	54U	57.58"	✓	✓

* Custom sizes available upon request