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Diecast Aluminum Enclosures 1590-RIBBED Series

With Internal Ribs



Features

- Rugged, diecast aluminum alloy (tough - yet easy to machine), electronic instrument enclosure.
- Lap joint construction provides protection against access of dust and splashing water. Also provides for improved EMI/RFI shielding.
- Unpainted version is vibra finished for a smooth surface with no sharp edges.
- Satin black painted version is painted with tough polyester powder paint for a lasting finish, even after machining. Black screws are included to enhance appearance.
- Includes screws threaded into factory-tapped holes. Screw type and quantity vary. See details below or in drawings.
- Standard versions are designed to meet IP54.
- Water-tight versions are designed to meet IP65 and include a gasket which is supplied loose inside the enclosure (not pre-installed).
- Low side wall draft angle (2 degrees or less) for easy P.C. board mounting.

Hardware

NOTE: 1590 series enclosures feature factory-tapped assembly screw holes that accept machine screws, which are included with the enclosures.

Replacement Hardware



Tamper-proof Hardware Upgrade (Torx w/ Pin)



See "Hardware" table below for compatibility.

Gaskets

NOTE: Gaskets are included with watertight 1590 enclosures. They can also be purchased as a kit if you'd like to upgrade an IP54 enclosure to IP65. Not available for all sizes.



- Each kit includes two pre-formed silicone gaskets.
- Gaskets include adhesive backing for easy installation.
- Allows enclosure to be machined and/or painted first and gasketed later.
- Gasket is applied to the lid.
- Designed to meet IP65 with properly installed gasket and lid screws torqued to 25-30 cN.m (36-43 ozf.in).
- Refer to part number table below for correct gasket.

2/27/25, 9:43 AMDiecast Aluminum Enclosures (1590-RIBBED Series) - Hammond Mfg.

No Mounting Flanges		w/ Flanged Lid		w/ Flanged Bottom Plate						Optional
Standard	Water-Tight	Standard	Water-Tight	Standard	Water-Tight	Color	Length (mm)	Width (mm)	Depth (mm)	Replacement
Version	Version	Version	Version	Version	Version					Gasket Kit
1590MM						Natural	50	50	31	
1590MMBK						Black	50	50	31	
1590L				1590LF		Natural	101	40	25	
1590LBK						Black	101	40	25	
1590M				1590MF		Natural	112	63	31	
1590MBK						Black	112	63	31	
1590N	1590WN	1590NFL	1590WNFL	1590NF	1590WNF	Natural	121	65.5	40	1590NGASKET
1590NBK	1590WNBK	1590NFLBK	1590WNFLBK	1590NFBK	1590WNFBK	Black	121	65.5	40	1590NGASKET
1590PP						Natural	121	85	61	
1590PPBK						Black	121	85	61	
1590P	1590WP	1590PFL	1590WPFL	1590PF	1590WPF	Natural	153	83	50	1590PGASKET
1590PBK	1590WPBK	1590PFLBK	1590WPFLBK	1590WPFBK		Black	153	83	50	1590PGASKET
1590R				1590RF		Natural	192	102	61	1590RGASKET
1590RBK						Black	192	102	61	1590RGASKET

NOTE: Dimensions include lid. Lid height is 4mm (0.16").

Replacement Hardware

Philips Head Machine Screws (100 or 50-packs)					Torx with Pin Tamper-Resistant Screws (50-packs)				
Size	Natural	Black	Water	Water-Tight	Natural	Black	Water	Water-Tight	Screwdriver
			Tight	Black			Tight	Black	Bit
1590L	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2
1590MM	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2
1590M	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2
1590N	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2
1590PP	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2
1590P	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2
1590R	1550MS100	1550MS100BK	1550WMS100	1550WMS100BK	1550MS50T	1550MS50TBK	1550WMS50T	1550WMS50TBK	SCDRIVET15-2

Tags: diecast, die cast, electronic, board enclosure, screw down cover, stomp box, project box, flanged, bottom flange, flanged lid, partitioning, ribs, PCB mount

Data subject to change without notice