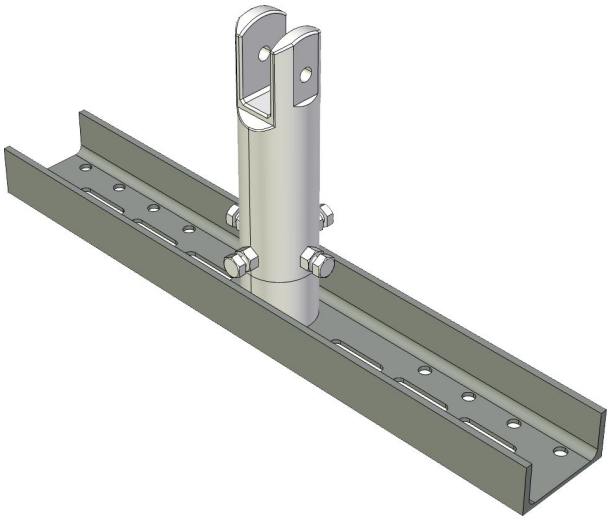
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Multi-Axis Billet Base for AL220/AL340 Tower Series

AP-ALT-MAB



Key Features

- 76.2 mm solid structural grade billet
- Multi-Axis adjustment for pitched roofs
- Precision machined
- Part of the AL220/AL340/AT60/AT90 Ecosystems

Overview

The AP-ALT-MAB is a multi-axis interface bracket that allows an AL220 tower module or AL340 reducer module to attach to a roof structure or flat surface. The billet hinge can be rotated a full 360°, allowing the tower to be raised and lowered in any direction, as well as being installed on sloped/pitched surfaces.

It is required to construct aluminium lattice towers that are to be installed on tin rooftops using screws or dynabolted into concrete. It has a 76.2 mm solid structural grade billet that has been machined into a clevis-fork that accepts the clevis-eye present on AL220 base modules, AL340 reducer modules, and other APAC products such as the AT-Series pegged masts.

A Stainless Steel M12 Bolt and Nylock is used as a pin to secure the two clevis components, however thanks to the precision machining, the structural load is directed through the billet-formed clevis rather than the bolt. This design strategy significantly minimises reliance on the bolt for load-bearing purposes, thereby reducing the risk of shear stress and enhancing the overall stability and durability of the tower assembly.

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Specification

Parameter	AP-ALT-MAB
Physical Specification	
System	**AL220** **AL340**
Subtype	**Interface Bracket**
Materials	**Aluminium 6005-T5**
Mounting	**Screw / Bolt**
Dimensions	**650 × 100 × 300 mm**
Weight	**10 kg**
Interfaces	
Available Interfaces	

Quantity	Interfaces	Notes
1	AL220/Reducer Clevis-Fork	Mates with AL220/Reducer Module Clevis-Eye

Subcomponents

Quantity	Item	Materials	Material Finish
1	76.2 mm Billet Universal Joint Base welded to 100x50 Channel	Aluminium 6005-T5	Bright/Pickled Finish
1	76.2 mm Billet Universal Joint with Clevis-Fork and M12 Set Screws	Aluminium 6005-T5	Bright/Pickled Finish

Quantity	Bundled Components
1	Hex Bolt, Stainless Steel - M12 x 80mm Standard Thread (AP-FSS-HXB-M12-80)
1	Nylock Nut, Stainless Steel - M12 Standard Thread (AP-FSS-NYN-M12)
1	Flat Washer, Stainless Steel - M12 (AP-FSS-FW-M12)

Australian designed and manufactured infrastructure for public safety and first response, built on the Sunshine Coast, Queensland. Need a variation on this design? Our team can engineer it to suit your site.

Contact us

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Specifications, dimensions and weights are nominal, correct at the date of issue and subject to change without notice. Images are for illustration and may show optional equipment. Confirm suitability for your site, including wind region and mounting surface, with APAC before ordering, and install in accordance with APAC's instructions and the relevant Australian Standards.

Issued 12 November 2026. For the latest version of this datasheet, visit https://apacinfrastructure.com.au/product-catalogue/base-plates-interfaces/multi-axis-billet-base-al220al340-tower-series?v=410

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