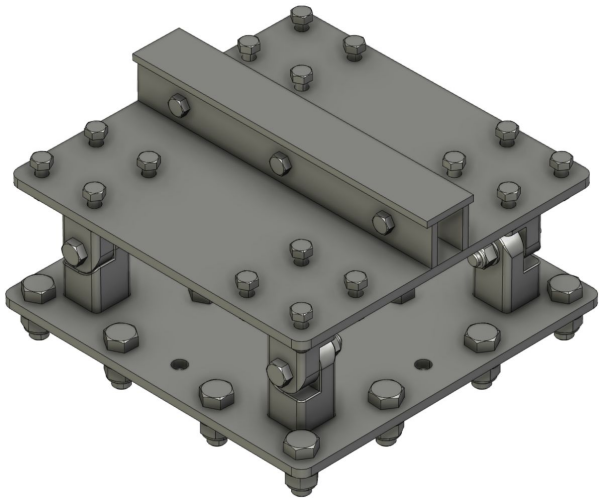
**APAC Infrastructure Pty Ltd**
ABN: 43 615 637 235
1300 952 788
sales@apacinfrastructure.com.au

# ALS500 Hinged Base Plate & Gin Pole

AP-ALS500-HBP



## Key Features

- Used to hinge ALS500 freestanding towers
- Removable gin pole
- High strength aluminium alloy
- Compatible with Surefoot S600

## Overview

The AP-ALS500-HBP is an interface bracket that allows the ALS500 base module to attach to a Surefoot S600 pile cap (or rag-bolt cage). The Hinging Base Plate is used so that ALS500 towers can be built on the ground and safely raised upright.

The Hinging Base Plate operates in only one axis, preventing the tower from leaning sideways during erection, ensuring the tower can be raised either by hand or with minimal lifting equipment.

It is required to construct ALS500 aluminium lattice towers that are to be installed in the ground using the S600. The hinge comprises four pairs of half-lapped billet knuckles, one under each leg, pinned by Stainless Steel M24 bolts and nylocs: the two pins on one side are the hinge, and the two on the other lock the tower upright.

The 6 m gin pole, 75 x 50 x 6 mm aluminium RHS in two bolted 3 m halves, slides through the sleeve on the top plate and is held by three M20 bolts. With the tower assembled on the ground the gin pole stands upright, and drawing its tip down raises the tower about the hinge. It can be removed once the tower is up and locked.

Thanks to the precision machining, the structural load is directed through the 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-ALS500-HBP |
|---|---|
| **Physical Specification** | |
| System | **ALS500** |
| Subtype | **Interface Bracket** |
| Materials | **Aluminium** |
| Mounting | **S600 Bolt Pattern** |
| Dimensions | **6,011 × 625 × 397 mm** |
| Weight | **78.1 kg** |
| **Interfaces** | |

Installation / Attachment

| Quantity | Mounting | Notes |
|---|---|---|
| 1 | S600 Bolt Pattern | Attaches to Surefoot S600 |

Available Interfaces

| Quantity | Interfaces | Notes |
|---|---|---|
| 1 | ALS500 Bolt Pattern | ALS500 Modules attach on top |

### Subcomponents

| Quantity | Item | Materials | Material Finish |
|---|---|---|---|
| 1 | 16 mm Base Plate, 625 mm Square, with 4 Billet Hinge Knuckles | Aluminium 6005-T5 | Bright/Pickled Finish |
| 1 | 16 mm Top Plate, 604 mm Square, with 4 Billet Hinge Knuckles and Gin Pole Sleeve | Aluminium 6005-T5 | Bright/Pickled Finish |
| 1 | Gin Pole, 6 m, 75x50x6 RHS in Two Bolted Halves, with Lifting Eyes | Aluminium 6005-T5 | Bright/Pickled Finish |

| Quantity | Bundled Components |
|---|---|
| 4 | Hex Bolt, Stainless Steel - M24 x 110mm Standard Thread (AP-FSS-HXB-M24-110) |
| 4 | Nylock Nut, Stainless Steel - M24 Standard Thread (AP-FSS-NYN-M24) |
| 4 | Flat Washer, Stainless Steel - M24 (AP-FSS-FW-M24) |
| 16 | Hex Bolt, Stainless Steel - M20 x 60mm Standard Thread (AP-FSS-HXB-M20-60) |
| 3 | Hex Bolt, Stainless Steel - M20 x 110mm Standard Thread (AP-FSS-HXB-M20-110) |
| 19 | Nylock Nut, Stainless Steel - M20 Standard Thread (AP-FSS-NYN-M20) |
| 19 | Flat Washer, Stainless Steel - M20 (AP-FSS-FW-M20) |
| 2 | Hex Bolt, Stainless Steel - M16 x 75mm Standard Thread (AP-FSS-HXB-M16-75) |
| 2 | Nylock Nut, Stainless Steel - M16 Standard Thread (AP-FSS-NYN-M16) |
| 2 | Flat Washer, Stainless Steel - M16 (AP-FSS-FW-M16) |

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

| | |
|---|---|
| Phone | 1300 952 788 |
| Email | sales@apacinfrastructure.com.au |
| Web | apacinfrastructure.com.au |
| ABN | 43 615 637 235 |

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/als500-hinged-base-plate-gin-pole?v=538

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