APAC Infrastructure Pty Ltd
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AML500 Aluminium Modular Lattice Module - 1.0m

AP-AML500-LM-1.0



Key Features

- 500 mm square lattice on a 500 mm grid
- 1.0 to 3.0 m modules in 0.5 m steps
- Genderless taper-bolt spigot joint at both ends
- 6061-T6 aluminium throughout
- Builds towers, gantries and frames in any direction with AML500 nodes

Overview

APAC's AML500 is a heavy-duty modular aluminium lattice system for building towers, gantries, bridges and frames. Anyone who has worked with aluminium box truss on stages and events will know the idea, but AML500 is made for industrial sites and permanent installations: heavier members and a tight, taper-bolted joint give a much stiffer structure that goes higher and carries more. Modules and nodes join on a 500 mm grid, so a structure can be built in any direction and to almost any size.

Each module is a 500 mm square lattice of 76.2 x 6.35 mm SHS chords, braced with 32 x 3 mm CHS rings and 50 x 4 mm CHS Warren diagonals, all 6061-T6 aluminium, with its bays on the 500 mm grid. Modules come in 1.0, 1.5, 2.0, 2.5 and 3.0 m lengths, so with the 500 mm nodes any span or height in 500 mm steps is built exactly, and the shorter modules are an easy two-person lift.

The joint is genderless: either end of any module meets any other module, any node face or a base plate, turned any way round. A machined spigot slides into the chords, and stainless taper bolts, seated in holes taper-reamed through chord and spigot, pull the joint tight without free play. Module-to-module joints use the AP-AML500-JK-MM joint kit; module-to-node joints use the AP-AML500-JK-MN. AML500 base plates fix the structure to its footing.

AML500 structures are engineered for each project.

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Specification

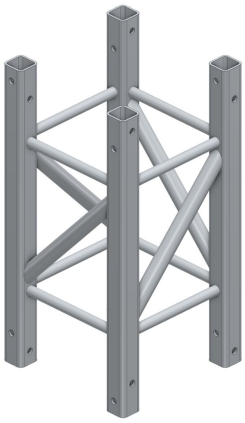
Parameter	AP-AML500-LM-1.0
Physical Specifications	
System	**AML500**
Subtype	**Erexures**
Height (Nominal)	**1 m**
Materials	**Aluminium**
Material Finish	**Mill Finish**
Weight	**22.7 kg**
Installation	**Ground Mounted** **Platform / Substructure**
Mounting	**AML500 Spigot Joint**
Interfaces	
Installation / Attachment	**Quantity** | **Mounting** | **Notes** 1 | AML500 Spigot Joint | Either end joins an AML500 module (AP-AML500-JK-MM kit) or a node face (AP-AML500-JK-MN kit)
Payload Interfaces	**Quantity** | **Interfaces** | **Notes** 1 | AML500 Spigot Joint | The other end, the same: modules are genderless and reversible

Subcomponents

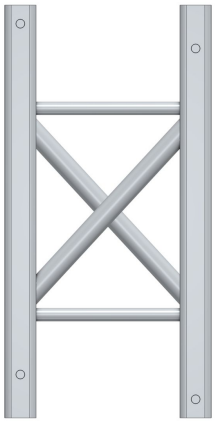
Quantity	Item	Materials	Material Finish
4	76.2x6.35 SHS Chords	Aluminium 6061-T6	Mill Finish
8	32x3 CHS Ring Members	Aluminium 6061-T6	Mill Finish
4	50x4 CHS Warren Diagonals	Aluminium 6061-T6	Mill Finish

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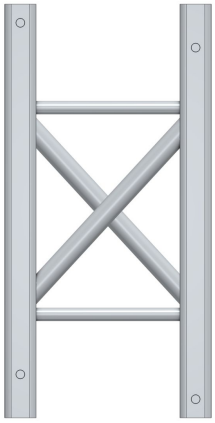
Views



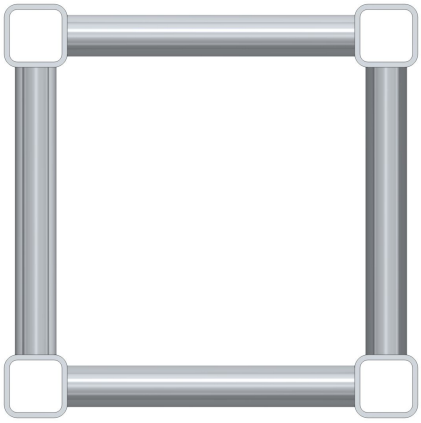
Isometric



Front



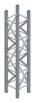
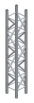
Side



Top

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Variants

	AML500 Aluminium Modular Lattice Module - 1.0m AP-AML500-LM-1.0 · this datasheet
	AML500 Aluminium Modular Lattice Module - 1.5m AP-AML500-LM-1.5
	AML500 Aluminium Modular Lattice Module - 2.0m AP-AML500-LM-2.0
	AML500 Aluminium Modular Lattice Module - 2.5m AP-AML500-LM-2.5
	AML500 Aluminium Modular Lattice Module - 3.0m AP-AML500-LM-3.0

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 11 November 2026. For the latest version of this datasheet, visit https://apacinfrastructure.com.au/product-catalogue/mounting-structures/aml500-aluminium-modular-lattice-module-10m-30m?v=785

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