

2019 Manufacturing Catalogue

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apac

INFRASTRUCTURE

Contact & Ordering Information

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INTRODUCING APAC

APAC Infrastructure is an Australian metal fabrication company dedicated to high tech industries in the commercial, industrial, and defence sectors. Our team is committed to evolving our solutions to meet the rapidly changing needs of our rapidly changing world, ensuring your team deliver solutions at the very forefront of technological development. APAC develops made-to-measure height systems for four primary market segments;

- ✓ Renewable Energies
- ✓ Construction & Mining
- ✓ Telecommunications
- ✓ Defence & Security

We also help many Australian companies bring their ideas and products to life through a plethora of intricate machining solutions, along with a full complement of injection moulding services, including milling of moulds themselves, all right here in Queensland.

APAC work closely with many innovative renewable energy companies to integrate electrical power systems, microcontrollers, and custom PCBs into our systems.

APAC believes its innovative success is largely due to its core belief of maintaining a flat organisational architecture. This allows rapid brainstorming and prototyping, where front-line staff often lead the development of new product lines.

Our vision is to help Australian industry compete on the international stage by providing high technology fabrication solutions. To support rapid product development CNC lathe facilities and CNC milling facilities are on site. We machine injection moulds, and through strategic alliance with our local injection moulding partner also offer a full complement of injection moulding services to help bring your design to life.

APAC Infrastructure designs, machines, and manufactures a diverse range of height systems for the telecommunications industry as well as defence and military sectors throughout our defence prime partners. APAC employ a range of multi-axis machining and welding technologies in the manufacturing process, allowing the construction of complex and extremely high-grade system components. We specialise in lightweight aluminium and stainless mast & tower systems, pneumatic and telescoping masts, aerostats, and trailers. APAC - fabricating solutions through innovation.



Meet Some of the Team



Michael Window – Sales Manager

As APAC's Sales Manager, Michael is responsible for developing the many custom engineered solutions requested by our clients. Having worked for smaller companies in sheet metal, lifting & rigging, and large telecoms entities including Telstra, Michael's multi-industry background has provided a unique insight into both sides of the supply chain.

A keen 4WD enthusiast, Michael enjoys custom building and outfitting his vehicles, and spends his weekends either camping or fishing, and attempting to grow the world's largest rosemary bush.



Shane Pukallus – Lead Fabricator

Shane is APAC's Lead Fabricator and has a dual-trade in Sheet Metal and Boilermaking. Originally from Mackay, Shane has spent much of his career in mining, previously working for DMS Mining and Hastings Deering (Caterpillar).

As a recent father of two, Shane spends most of his time wrangling octopuses and preventing nuclear meltdown. In his spare time you'll often find Shane on Surf Lifesaving patrol at one of the Sunshine Coast's many beaches.



Ralph Francis – Lead Machinist

Ralph is the company's source of genius. Across his 20+ year career in Machining Ralph has worked on an incredibly diverse range of projects, from race car gear cutting, to factory automation, to classified military projects.

Originally from South Africa, Ralph and his family chose to start the next chapter of their lives on the beautiful Sunshine Coast in 2016.



Maylee – Workshop Hound

Heading up APAC's Lunch Inspection division, Maylee is charged with ensuring all staff lunches pass a strict quality assurance process.



Maylee was found wandering cane fields in search of something to eat. Threatened with being shot by the local farmers, Maylee was rescued by Shane and now enjoys a happy home life and loves walks along the beach.

Product Selection Guide



APAC supply four main product categories from our Queensland facility:

- ✓ Towers
- ✓ Deployable Systems
- ✓ Pneumatic & Telescopic Masts
- ✓ Small Mounts

The table below will help you understand the differences between the categories and their suitability.

	Feature	Advantage
Towers 	Heights: 3 to 40 metres	All our systems are built in 3 metre modules for easy shipment and can be stacked to build towers as high as needed. Extra modules are available to extend tower heights after installation. Most designs use guy wires.
	Mobility: Permanent Installation	Towers are designed for permanent installations in the tough Australian environment. Most designs are suitable for cyclonic regions.
	Installation: Ground, Roof, Building Wall	Interchangeable mounting plates means each design can be adapted to suit different installations. Custom plates can be supplied for special requirements.
Deployable Systems 	Heights: 3 to 21 metres	Trailer, Tripod, and Skid base platforms allow us to attach tower modules, telescoping masts, and custom-built systems. Heights are limited by the footprint area available with each system.
	Mobility: Fully Mobile, Semi-Permanent	Trailer-based systems provide full mobility, tripods and skids provide for more permanent solutions.
	Installation: Ground	All of our systems are designed to be ground-based, with most suitable for soil and uneven surfaces.

Product Selection Guide (continued)

	Feature	Advantage
<p>Pneumatic & Telescopic</p> 	Heights: 2 to 18 metres	Collapsible masts allow easy transport and quick deployment of height systems beyond 18 metres. Most designs use guy wires to provide stability, but many can be unguyed for small payload sizes.
	Mobility: Fully Mobile, Semi-Permanent	Pneumatic masts can be mounted on vehicles, or on many of our deployable platforms (trailers, skids, tripods) for more permanent applications.
	Installation: Ground, Vehicle, Tripod, Roof, Wall, ...	These masts are completely versatile. Being a self-contained system, they can be roof mounted, trailer mounted, even permanently installed with a ground cage.
<p>Small Mounts</p> 	Heights: 0.5 to 3 metres	For applications where the building or structure already provides height. These small mounts allow you to attach your equipment to the building, tower, or on a roof.
	Mobility: Permanent Installation	Small mounts are typically made from heavy duty galvanised steel or structural aluminium for permanent installation.
	Installation: Roof, Wall, Tower	Bolt-together and clamping designs provide exceptional versatility. Models are generally designed to fix to standard structure types such as corrugated tin roofs or accept wide tolerances such as clamping poles 30 to 72 mm in diameter.

Series Suitability Matrix (Max. Heights)

		Freestanding	Guyed	Roof	Deployable
Small Mounts	GC32 32 mm Galvanised Roof Mast			2.0 m	
	GC48 48 mm Galvanised Roof Mast			3.0 m	
	GC76 76 mm Galvanised Roof Mast			3.0 m	
	GPCA114 114 mm Galvanised Roof Mast	3.0 m		3.0 m	
Monopoles	GP48 48 mm Climbable Galvanised		5.0 m	5.0 m	
	AT60 60 mm Climbable Aluminium		5.0 m	5.0 m	Tripod
	AT90 90 mm Climbable Aluminium		12.4 m	12.4 m	Tripod
Aluminium Lattice	AL220 220 mm Faced Lattice Module	3.1 m	37.2 m	21.7 m	Tripod
	AL340 340 mm Faced Lattice Module	6.2 m	40.7 m	25.2 m	Tripod
	AL500 500 mm Faced Lattice Module	9.3 m	46.5 m*		Tripod
Galvanised Lattice	GL450 450 mm Faced Lattice Module	12.4 m	40.7 m		
	GT1000 1000 mm Faced Lattice Module	30 m			
Pneumatic	AIR950 9.5 m Pneumatic Mast	9.5 m	9.5 m	9.5 m	All Platforms
	AIR1200T 12 m Pneumatic Tripod	12 m	12 m	12 m	All Platforms
	AIR1560 15.6 m Pneumatic Mast	15.6 m	15.6 m	15.6 m	All Platforms
	AIR1800 18 m Pneumatic Mast	18 m	18 m	18 m	All Platforms

Arranging Installation

Towers

Installing a tower is a big task. Fortunately, any local building professional will be capable of handling this for you.

Your local builder will arrange all necessary soil tests, council development approvals, structural engineering assessments, and riggers to complete the tower erection.

If in doubt, always consult a professional.



Deployable Systems

APAC's deployable systems such as our trailer and tripod mounted solutions, are generally supplied "turn-key". Most systems are fabricated and assembled for testing in our Sunshine Coast facility, and then partially disassembled for transport.

During testing process components are colour tagged and/or numbered for easy reassembly on site.

Some large deployable systems such as the AL340 and AL500 tripod towers need to be assembled and operated by suitably qualified personnel.

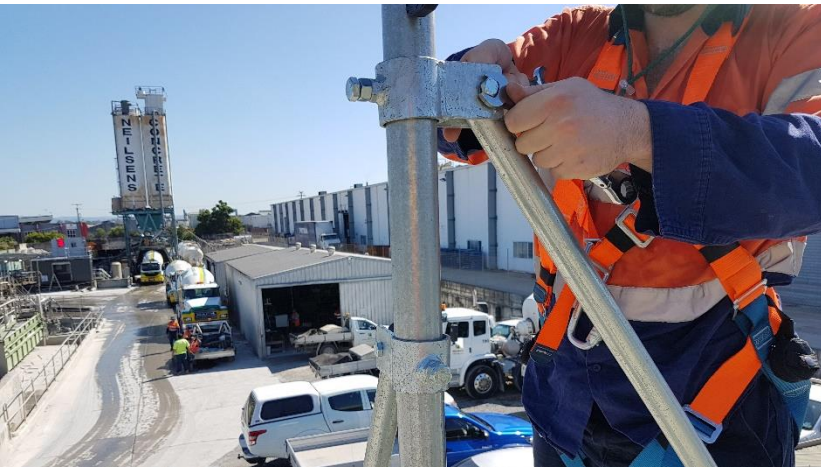
Pneumatic & Telescopic Masts

These masts come pre-assembled and can be operated by any competent individual, with minimal training required.

You may need to consult a local builder to attach these masts to a structure.



Arranging Installation (continued)



Small Mounts

Attaching small mounts to a roof or building can be completed by any good tradesperson.

Property owners can usually self-install many of these components.

Of course, it's a good idea to check with your local council for any regulations that may apply in your area.



Towers



AL220 ALUMINIUM LATTICE TOWER SPECIFICATIONS

AP-GLT-AL220 GUYED TOWER, GROUND MOUNTED

OVERVIEW

APAC's modular aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. As an ultra-lightweight structure the towers can be built with a small crew and minimal plant, with smaller towers even able to be assembled by hand.

These modular lattice towers consist of a large universal-joint base, modular 3.1 metre lattice sections, guy wires, footing interface plate, guy wire equaliser plates, and a choice of headframe. The 3.1 m sections are easily stacked meaning roof towers can be built as small as 3.1 metres with full structural engineering certification up to 37.2 metres. APAC's aluminium lattice tower features three upright columns made from 42x3 round tube with 25x3 round tube lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb to the very tower top.



The ground mounted AL220 tower series are recommended to be used in conjunction with Surefoot Footings for a simple, concrete-less installation. Concrete cages, skids, and other options are available on request.

FEATURES

- Ultra-lightweight fully engineered design
- 3.1 to 37.2 m tower heights
- Machined billet universal-joint base
- 6 mm 7x19 galvanised steel guy wires
- 3100 mm section lengths
- Low maintenance aluminium construction

ENGINEERING

- Aluminium fabrication in accordance to AS1664
- Aluminium welding in accordance to AS1665
- 7/16" Zinc or Stainless Steel bolts in accordance to ISO 3506 U.N.O.
- Guy cables in accordance to AS3569, Class 7x19 Grade 2070
- Guy wire preload tension to 1.0 kN
- Cable joins and attachments in accordance to AS2579
- Structure classification per AS3995 is Type II

SPECIFICATION

PARAMETER	AP-GLT-AL220
Maximum Height	37.2 m (Wind Region A)
Typical Footprint (60° guying)	$diameter = \frac{2h}{\tan 60}$
Wind Survivability	See table below
Max. Lattice Modules	12
Module Weight	12.2 kg (excl. guy wires)
Module Section Length	3100 mm
Module Width	220 mm
Module Face Width	180 mm
Module Material	6005 T5 Aluminium Alloy, 42x3 mm CHS legs, 25x3 mm braces
Module Finish	Raw Aluminium, acid cleaned
Guy Kit	Full kit supplied
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Universal Joint Construction	Machined Billet, 6005 T5 Aluminium Alloy
Universal Joint Finish	Raw Aluminium, acid cleaned

ENGINEERING CERTIFICATION	Wind Region A	Wind Region B	Wind Region C
Max. Height (m)	37.2	31.0	21.7
No. Modules	12	10	7

AL340 ALUMINIUM GUYED LATTICE TOWER

AP-GLT-AL340 GUYED TOWER, GROUND MOUNTED

OVERVIEW

APAC's modular aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. As a lightweight structure the towers can be built with a small crew and minimal plant, with smaller towers even able to be assembled by hand.

These modular lattice towers consist of a large multi-axis base plate, reducer module, 3.1 metre lattice sections, guy wires, anchor footings/skids, and a choice of headframe. The 3.1 m sections are easily stacked meaning radio towers can be built as small as 3.1 metres with full structural engineering certification up to 40.7 metres (25.2 metres in Wind Region C). APAC's AL340 series lattice modules feature three upright columns made from 50x4 CHS with 32x3 CHS lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb the full height.



Your safety is most important - the tower base comprises of a 50 tonne rated, fully machined billet aluminium universal-joint. This universal-joint design allows axis locking to permit safe and easy raising, as well as the components machined from solid structural grade aluminium providing absolute peace of mind of tower integrity.

FEATURES

- Machined billet universal-joint base
- 3.1 to 40.7 m tower heights
- 340 mm wide body
- 3100 mm modular lengths
- 50 x 4 mm aluminium CHS legs
- 32 x 3 mm lattice structure
- Low maintenance aluminium construction

ENGINEERING

- Aluminium fabrication in accordance to AS1664
- Aluminium welding in accordance to AS1665
- 7/16" Zinc or Stainless Steel bolts in accordance to ISO 3506 U.N.O.
- Guy cables in accordance to AS3569, Class 7x19 Grade 2070
- Guy wire preload tension to 0.94 kN
- Cable joins and attachments in accordance to AS2579
- Structure classification per AS3995 is Type II



AL340 Tower Base Plate

SPECIFICATION

PARAMETER	AP-GLT-AL340
Maximum Height	40.7 m (Wind Region A)
Typical Footprint (60° guying)	$diameter = \frac{2h}{\tan 60}$
Wind Survivability	See table below
Max. Lattice Modules	13
Module Length	3100 mm
Module Face Width	340 mm
Module Material	6005 T5 Aluminium Alloy, 50 x 4 mm CHS legs, 32 x 3 mm braces
Module Finish	Raw Aluminium, acid cleaned
Footing	Surefoot, Galvanised Steel (others available)
Guy Kit	Supplied, Galvanised Steel or Stainless Steel options
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Universal Joint Construction	Machined Billet, 6005 T5 Aluminium Alloy
Universal Joint Finish	Raw Aluminium

ENGINEERING CERTIFICATION	Wind Region A	Wind Region C
Max. Height (m)	40.7	25.2
No. Modules	13	8

AL500 ALUMINIUM GUYED LATTICE TOWER

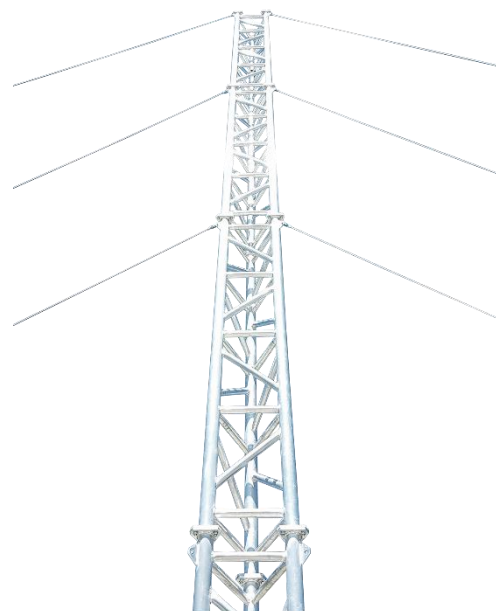
AP-GLT-AL500 GUYED TOWER, GROUND MOUNTED

OVERVIEW

APAC's modular AL500 aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. With each module weighing only 38.7 kg, the towers can be safely built with a small crew and minimal plant.

These modular lattice towers consist of a large 101.6 mm solid billet hinging base, modular 3.1 metre lattice sections, guy wires, anchor footings/skids, and your choice of headframe. The 3.1 m sections are easily stacked meaning radio towers can be built as small as 3.1 metres with full structural engineering certification up to 37.2 metres in Wind Region C. APAC's AL500 series towers feature three upright columns made from 76.2x4.75 CHS with 40x3 CHS lattice welded in between by certified boom welders, providing incredible strength while retaining a comparatively lightweight design.

Your safety is most important - the tower base comprises of a heavy duty fully machined billet aluminium universal-joint. This universal-joint design allows axis locking to permit safe and easy raising, as well as the components machined from solid structural grade aluminium providing absolute peace of mind of tower integrity.



FEATURES

- Machined billet universal-joint base
- 3.1 to 37.2 m tower heights
- 500 mm wide body
- 3100 mm modular lengths
- 76.2 x 4.75 mm aluminium round tube legs
- 40 x 3 mm lattice structure
- Low maintenance aluminium construction



AL500 Lattice Module

ENGINEERING

- Aluminium fabrication in accordance to AS1664
- Aluminium welding in accordance to AS1665
- 7/16" Zinc or Stainless Steel bolts in accordance to ISO 3506 U.N.O.
- Guy cables in accordance to AS3569, Class 7x19 Grade 2070
- Guy wire preload tension to 0.94 kN
- Cable joins and attachments in accordance to AS2579
- Structure classification per AS3995 is Type II

SPECIFICATION

PARAMETER	AP-GLT-AL500
Maximum Height	46.5 m (Wind Region A, subject to application)
Typical Footprint (60° guying)	$diameter = \frac{2h}{\tan 60}$
Wind Survivability	See table below
Max. Lattice Modules	15
Module Length	3100 mm
Module Width	500 mm
Module Weight	38.7 kg
Module Material	6005 T5 Aluminium Alloy, 76.2 x 4.75 mm CHS legs, 40 x 3 mm braces
Module Finish	Raw Aluminium, acid cleaned
Footing	Surefoot, Galvanised Steel (others available)
Guy Kit	Supplied, Galvanised Steel or Stainless Steel options
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Universal Joint Construction	Machined Billet, 6005 T5 Aluminium Alloy
Universal Joint Finish	Raw Aluminium

ENGINEERING CERTIFICATION	Wind Region A	Wind Region C
Max. Height (m)	46.5*	37.2
No. Modules	15	12

GT1000 FREE-STANDING LATTICE TOWER

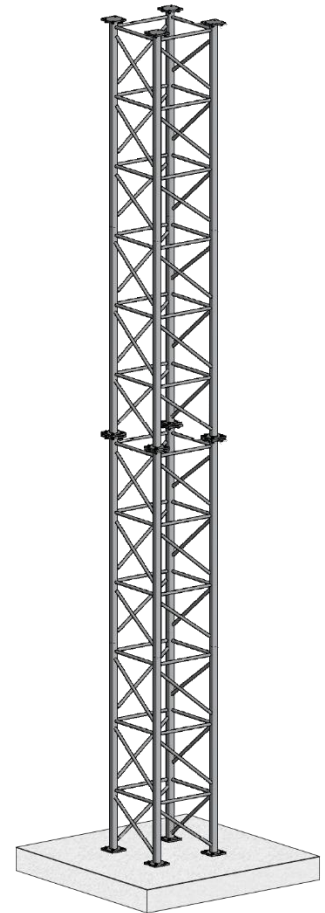
AP-FS-GT1000 FREE-STANDING TOWER, UP TO 30 METRES

OVERVIEW

APAC's modular free-standing galvanised steel lattice towers are manufactured locally in Queensland in 6.0 metre, 350 kg sections, permitting comfortable handling during transport and assembly. The GT1000 module is a stackable design, to build towers up to 30 metres (five sections). The series' 1000 mm face width provides exceptional shear and torsional stiffness, necessary for many telecom applications. Fully-welded galvanised steel construction ensures the system can still be delivered at a low price point, but with minimal maintenance over its working life of 25 years - providing a superior total-cost-of-ownership.

GT1000 towers are a square-based (four-leg) self-supporting design, selected for minimal deflection and maximum durability in the extreme weather conditions our country faces. Ordinary free-standing galvanised towers have a tapered design, meaning final design height must be known well in advance of manufacturing, and each tower must be purchased as a single kit. GT1000 towers are designed to be manufactured and shipped as identical modules, arranged to any height as needed. The tower are ordinarily supplied in a galvanised finish, but can be supplied painted in aircraft colouring, or high visibility for mining applications.

The GT1000 series can be manufactured with mid and top-level platforms. Headframes are available to support a range of wind turbines, camera systems, radar, and telecommunications configurations.

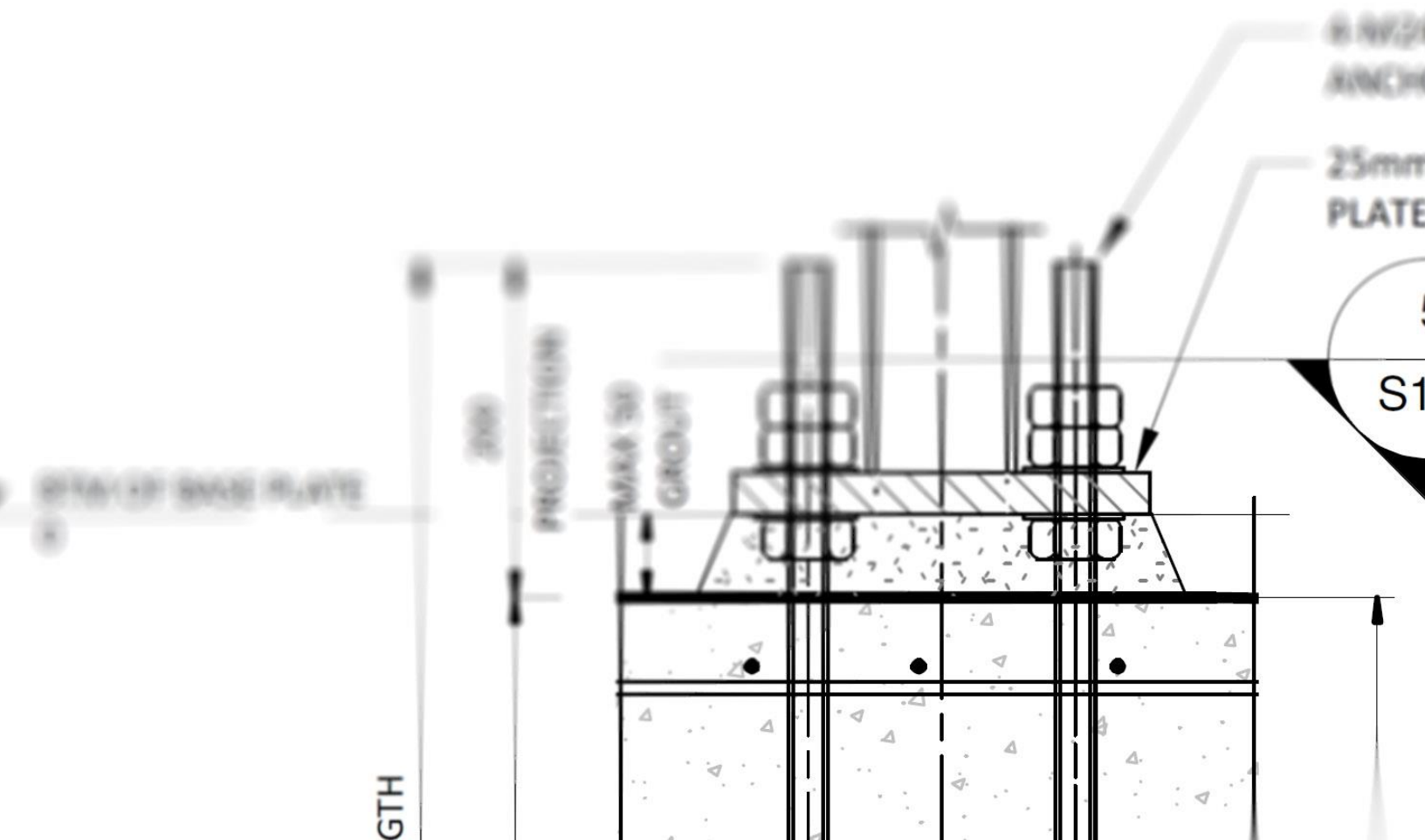


FEATURES

- 1000 mm face width
- 89x89 mm SHS, four-leg (square) design
- 42x4 CHS lattice webbing
- 6000 mm section length, 350 kg weight
- Hot dip galvanised to AS/NZS 4680
- Modular, buildable to heights of 6 to 30 m
- 25 year design working life

SPECIFICATION

PARAMETER	AP-FS-GT1000
Maximum Height	30 m
Typical Footprint	1200 x 1200 mm
Design Wind Speed	70 m/s (Wind Regions A to C)
Max. Lattice Modules	5
Lattice Module Length	6000 mm
Lattice Module Width	1000 mm
Lattice Module Weight	350 kg
Module Material	Grade C350 Steel, 89x89x5.0 mm SHS legs, 42.4x4 mm CHS webbing
Lattice Finish	Hot Dip Galvanised to AS/NZS 4680
Base Plate	6005 T5 Aluminium Alloy
Fixings	M20 Bolts, M24 Anchor Bolts
Class	AS3995 Class C



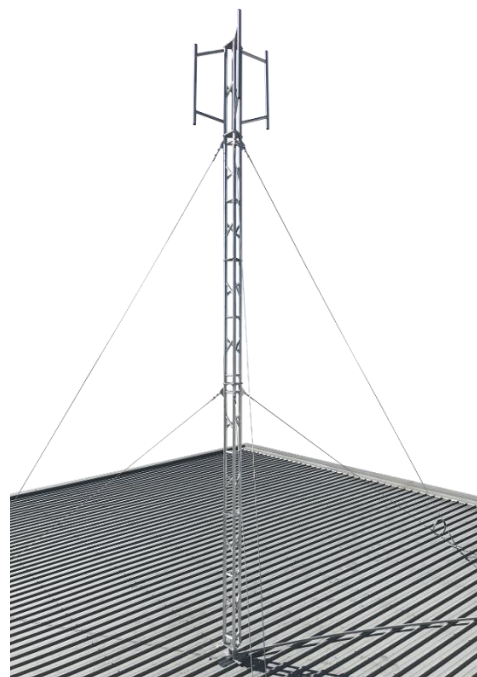
AL220 ALUMINIUM ROOF LATTICE TOWER SPECIFICATIONS

AP-RLT-AL220 GUYED TOWER, ROOF MOUNTED

OVERVIEW

With the exploding demand for wireless point to multipoint services, WISP's have been under increasing pressure to maximise site and spectrum utilisation. Often the challenge faced is reaching the largest number of clients with a limited vantage point from the fibre POP - traditionally tall 'telomasts' have been used but are unsuitable for multiple sectors and most certainly unsuitable for high gain dishes. APAC met the challenge with an ultra-lightweight, climbable, aluminium lattice tower that could be easily raised on a roof with a small team.

These roof lattice towers consist of a large universal-joint base, modular 3.1 metre lattice sections, guy wires, and your choice of headframe. The 3.1 m sections are easily stacked meaning roof towers can be built as small as 3.1 metres with full structural engineering certification up to 37.2 metres. APAC's aluminium lattice tower features three upright columns made from 42x3 round tube with 25x3 round tube lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb the very top.



Your safety is most important - the tower base comprises of a 50 tonne rated, fully machined billet aluminium universal-joint. This universal-joint design allows axis locking to permit safe and easy raising, as well as the components machined from solid structural grade aluminium providing absolute peace of mind of tower integrity.

FEATURES

- Lightweight, easy to raise
- 3.1 to 37.2 m tower heights
- Machined billet universal-joint base
- 6 mm 7x19 galvanised steel guy wires
- 3100 mm section lengths
- Low maintenance aluminium construction

ENGINEERING

- Aluminium fabrication in accordance to AS1664
- Aluminium welding in accordance to AS1665
- 7/16" Zinc or Stainless Steel bolts in accordance to ISO 3506 U.N.O.
- Guy cables in accordance to AS3569, Class 7x19 Grade 2070
- Guy wire preload tension to 1.0 kN
- Cable joins and attachments in accordance to AS2579
- Structure classification per AS3995 is Type II

SPECIFICATION

PARAMETER	AP-RLT-AL220
Maximum Height	37.2 m (subject to roof structural inspection)
Typical Footprint (60° guying)	$diameter = \frac{2h}{\tan 60}$
Wind Survivability	See table below
Max. Lattice Modules	12
Module Length	3100 mm
Module Width	220 mm
Module Weight	12.2 kg
Lattice Material	6005 T5 Aluminium Alloy, 42x3 mm CHS legs, 25x3 mm braces
Lattice Finish	Raw Aluminium, acid cleaned
Guy Kit	Supplied, Galvanised Steel or Stainless Steel options
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Universal Joint Construction	Machined Billet, 6005 T5 Aluminium Alloy
Universal Joint Finish	Raw Aluminium

ENGINEERING CERTIFICATION	Wind Region A	Wind Region B	Wind Region C
Max. Height (m)	37.2	31.0	21.7
No. Modules	12	10	7

Deployable Systems



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INFRASTRUCTURE

AL220 PORTABLE TRIPOD LATTICE TOWER

AP-TLT-AL220-WR11 TRIPOD TOWER, 11 METRES

OVERVIEW

APAC's tripod-base aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. Constructed with a bolt-together galvanised tripod and lightweight aluminium modules, this tripod tower is designed to be assembled by hand with just a few basic tools.

Able to be set up in under an hour with a team of two, APAC's tripod tower allows instant communications anywhere - no footing required. The bolt-together design means easy shipment to site, and the included winch allows raising and lowering of the tower eliminating the need for tower climbs.

This unique portable lattice tower consists of three bolt-together heavy duty galvanised outriggers, a 1.0 m galvanised base, three 3.1 metre lattice sections, guy wires, anchor footings/skids, and your choice of headframe. APAC's AL220 aluminium lattice modules feature three upright columns made from 42x3 CHS with 25x3 CHS lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design.

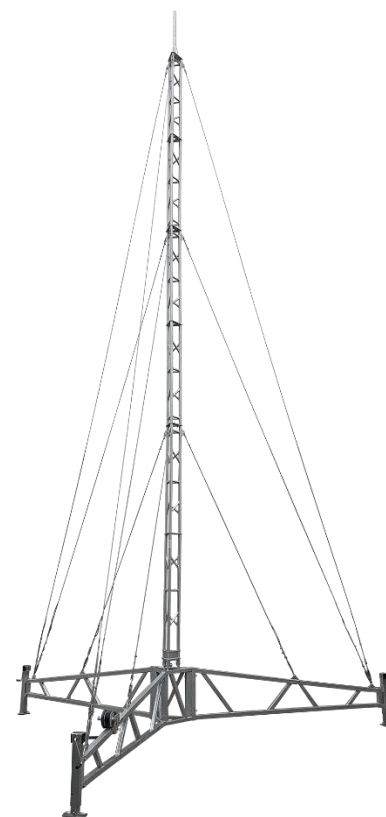
AL220 Tripod Tower is suitable for operation in wind speeds up to 160 km/h by anchoring the tripod legs using pegs or blocks to provide dead weight.

Capable of mounting a range of lighting, CCTV, sensors, and industrial monitoring equipment, this serviceable mast is popular in mining and construction where climbing structures can present a safety concern, eliminating the need for an elevated work platform or a certified tower rescue team to perform even simple adjustments. This mast is also ideal for combination with wind turbines, providing high elevation with maximum stability allowing the establishment of temporary power generation at your exploration site, construction office, or hardstand.

Headframes are available to support a range of wind turbines, radars, camera systems, and telecommunications configurations. Torque Arms (anti-twist) available for applications requiring large microwave antennas, or systems with large offsets.

FEATURES

- Lightweight aluminium lattice tower
- Heavy duty galvanised tripod outrigger base
- 3 metre outriggers
- 1000 kg outrigger legs
- 1.5 tonne winch
- <1 hour construction time
- Quick, simple winch raising (winch included)



SPECIFICATION

PARAMETER	AP-TLT-AL220-WR11
Maximum Height	11.05 m
Footprint	5317 x 5317 mm (3070 mm outrigger length)
Approximate Erected Weight	210 kg
Design Wind Speed	44.5 m/s (160 km/h) with +275 kg anchor per leg
Lattice Module Length	3100 mm
Lattice Module Width	220 mm
Lattice Module Weight	12.2 kg
Lattice Material	6005 T5 Aluminium Alloy, 40 x 3 mm CHS legs, 25 x 3 mm struts
Lattice Finish	Raw aluminium, acid cleaned
Tripod Material	50 x 50 mm, 2.5 mm wall SHS, AS 1163-C350L0
Tripod Finish	Hot dipped galvanised, Duragal to AS 4792
Outrigger Levelling Jacks	3 x 1000 kg
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Lattice Hinge Interface	3x Machined Billet 40 mm 6005 T5 Aluminium Alloy
Winch Capacity	1.5 tonne



AL340 PORTABLE TRIPOD LATTICE TOWER

AP-TLT-AL340-WR14 TRIPOD TOWER, 14 METRES

OVERVIEW

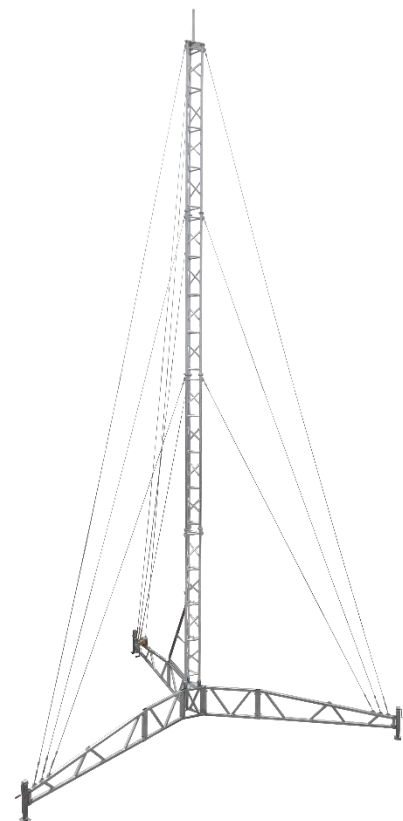
APAC's tripod-base aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. Constructed with a bolt-together galvanised tripod and lightweight aluminium modules, this tripod tower is designed to be assembled by hand with just a few basic tools. The hinging tripod design is offered built with APAC's AL220, AL340, and AL500 lattice modules, with the AL340 series providing exceptional strength-to-weight, and tower heights up to 14.4 metres.

Able to be set up in about an hour or two with a team of two, our tripod tower allows instant communications anywhere - no footing required. The bolt-together design means easy shipment to site, and the included winch allows raising and lowering of the tower eliminating the need for tower climbs.

This unique portable lattice tower consists of three bolt-together heavy duty galvanised outriggers, a 1.0 metre galvanised base, four 3.1 metre lattice sections, guy wires, anchor footings/skids, and your choice of headframe. Unique to the 14 metre model are three heavy duty outrigger extensions which sit between the base and outriggers, extending the footprint a further 1400 mm.

APAC's AL340 aluminium lattice modules feature three upright columns made from 50x4 CHS with 32x3 CHS lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb the full 14 metres. The three hinge feet are machined from 76.2 mm solid billet 6005 T5 aluminium, providing unmatched strength with precision machining ensuring perfectly distributed load across bolts and galvanised receptacle.

Capable of mounting a range of lighting, CCTV, sensors, and industrial monitoring equipment, this serviceable mast is incredibly popular in mining and construction where climbing structures can present a safety concern, eliminating the need for an elevated work platform or a certified tower rescue team to perform even simple adjustments. This mast is also ideal for combination with wind turbines, providing high elevation with maximum stability allowing the establishment of temporary power generation at your exploration site, construction office, or hardstand.



FEATURES

- Rigid aluminium lattice tower
- Heavy duty galvanised tripod outrigger base
- 3 metre outriggers
- 1000 kg outrigger legs
- 1.5 tonne winch
- 1-2 hour assembly time
- Quick, simple winch raising (winch included)

SPECIFICATION

PARAMETER	AP-TLT-AL340-WR14
Extended Height	14.4 m (incl. headframe)
Footprint	9940 mm ø (4470 mm outrigger length)
Approximate Erected Weight	290 kg
Design Wind Speed	44.5 m/s (160 km/h) with additional leg anchors
Lattice Module Length	3100 mm
Lattice Module Width	340 mm
Lattice Module Weight	22.8 kg
Lattice Material	6005 T5 Aluminium Alloy, 50 x 4 mm CHS legs, 32 x 3 mm struts
Lattice Finish	Raw aluminium, acid finish
Tripod Material	50 x 50 mm, 2.5 mm wall SHS, AS 1163-C350L0
Tripod Finish	Hot dipped galvanised, Duragal to AS 4792
Outrigger Levelling Jacks	3 x 1000 kg
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Lattice Hinge Interface	3x Machined Billet 76.2 mm 6005 T5 Aluminium Alloy
Winch Capacity	1.5 tonne



AL500 PORTABLE TRIPOD LATTICE TOWER

AP-TLT-AL500-WR18 TRIPOD TOWER, 18 METRES

OVERVIEW

The AL500 tripod tower is an absolute revolution in portable tower systems. Capable of being built to an unprecedented 21 metre height, the AL500 tripod system allows near-instant height anywhere without the need for geo or soil testing. The bolt-together design means easy shipment to site, and the included winch allows raising and lowering of the tower eliminating the need for tower climbs.

APAC's tripod-base aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. As a comparatively lightweight structure the towers can be built in a matter of hours with a small crew and minimal plant. The hinging tripod design is offered built with APAC's AL220, AL340, and now AL500 lattice modules.

This breathtaking 18 metre deployable lattice tower comprises of three ultra-heavy duty galvanised steel outriggers, a 1.3 metre galvanised base, five 3.1 metre lattice sections, guy wires, and your choice of one metre headframe. The system is ideally deployed using three 0.5 to 1 tonne precast concrete blocks as feet, however a range of options are available to match your application.



APAC's aluminium lattice tower features three upright columns made from 76.2x4.75 CHS with 40x3 CHS lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb the full tower height. The three hinge feet are machined from 101.6 mm solid billet steel, providing unmatched strength with precision machining ensuring perfectly distributed load across bolts and galvanised receptacle.

Headframes are available to support a range of wind turbines, radars, camera systems, and telecommunications configurations. Torque Arms (anti-twist) available for applications requiring large microwave antennas, or systems with large offsets. Aircraft lighting and grounding systems are also available as optional extras.

FEATURES

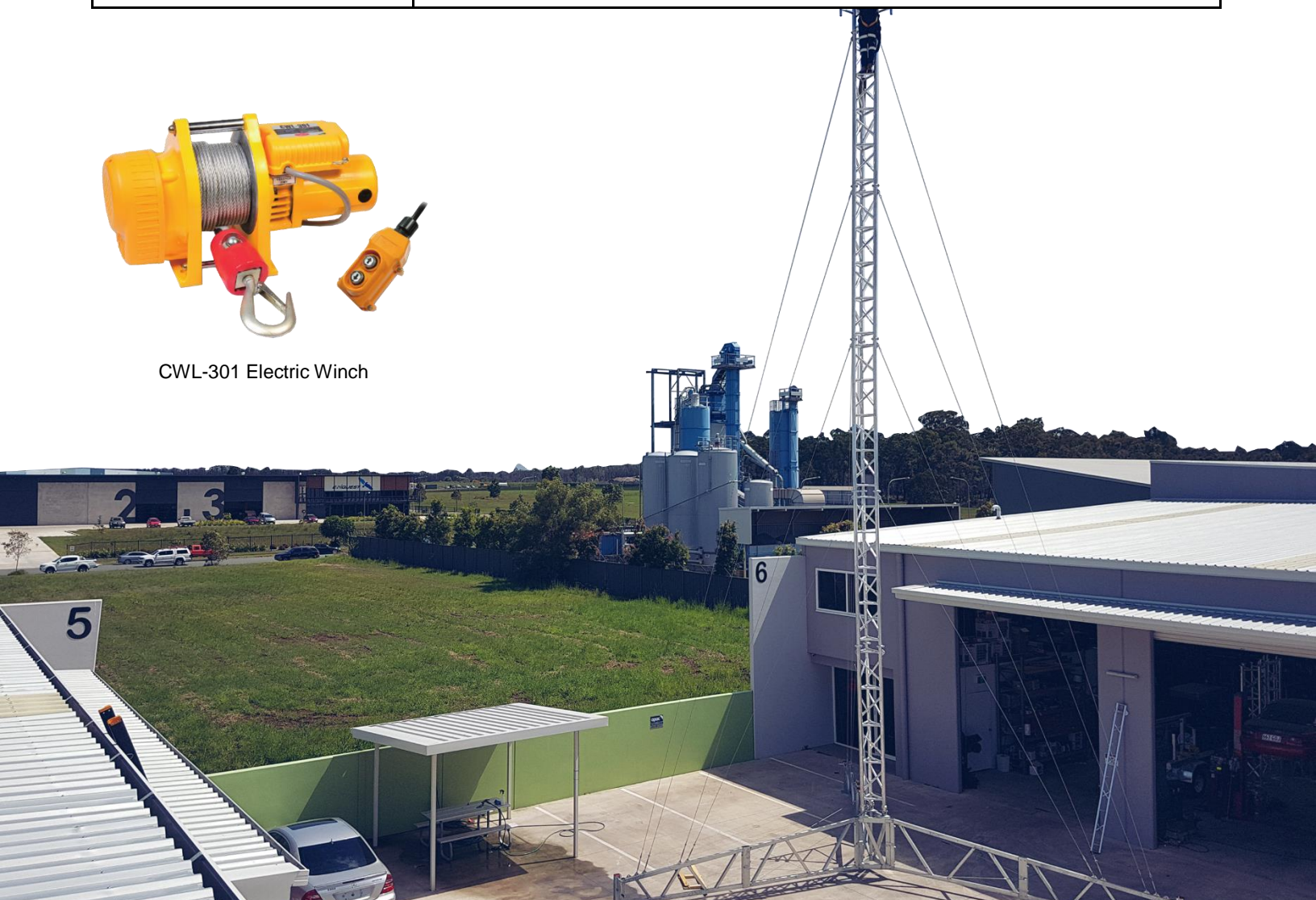
- Durable, low deflection design
- Ultra heavy duty galvanised tripod outrigger base
- 4.5 tonne levelling jacks
- 4 hour deployment time
- 18 m total height (15.5 m lattice)
- 500 mm wide body
- 3100 mm section lengths
- Quick, simple winch raising (winch included)

SPECIFICATION

PARAMETER	AP-TLT-AL500-WR18
Extended Height	18.2 m (incl. headframe)
Footprint	11200 mm ø (5200 mm outrigger length)
Approximate Erected Weight	Tower: 196 kg, Base: 380 kg + Ballast Option
Design Wind Speed	44.5 m/s (160 km/h) with additional leg anchors
Lattice Module Length	3100 mm
Lattice Module Width	500 mm
Lattice Material	6005 T5 Aluminium Alloy, 76.2 x 4.75 mm CHS legs, 40 x 3 mm struts
Lattice Finish	Raw, acid finish
Tripod Material	50 x 75 mm, 3 mm wall SHS, AS 1163-C350L0
Tripod Finish	Hot dipped galvanised, Duragal to AS 4792
Outrigger Levelling Jacks	3 x 4500 kg, 3 x 2000 kg
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Lattice Hinge Interface	3x Machined Billet 101.6 mm 6005 T5 Aluminium Alloy
Winch System	Comeup CWL-301 Electric, Remote Controlled. Options Available.



CWL-301 Electric Winch



APAC COUNTERHAWK SOLAR/COMMS TRAILER

LIGHT SERIES, 6 METRE COUNTERWEIGHT MAST

OVERVIEW

APAC specialise in the design and fabrication of solar and communications trailers built to the highest of standards. Exported to the world, APAC trailers are 100% Australian designed, built, and shipped from our facility in the Sunshine Coast, Queensland.

The CounterHawk light-series trailer has an integrated six metre dual-section counterweight mast and 1000 x 550 x 800 mm aluminium checkerplate primary electronics cabinet - all while maintaining a 4200 mm transport length and 760 kg curb weight. All components including the mast are bolt-on for easy removal and reconfiguration. As standard the trailer can be supplied with a 270 to 810 Watt solar configuration, alternatively APAC can tailor build the solar system to meet your performance requirements.

Operation is simple and effective; the dual-section telescoping mast is extended to desired length, locked into position using a heavy duty 5/8" hitch-pin, and then raised using a 1.2 tonne braked hand winch with 6 mm dyneema rope. The four telescoping outriggers are extended and locked in place using the supplied heavy duty pins and set-bolts. Four 7x16 mm galvanised steel guy wires are then attached to the outriggers and the trailer is ready to go.



FEATURES

- Six metre dual-stage mast
- 50 mm axle with drum brakes
- Galvanised chassis and cabinets
- Slide-out 1.0 tonne stabilising outriggers
- High quality Australian made product
- Full custom builds available; mine, aero, and mil-spec builds

TYPICAL APPLICATIONS

- Defence, counter-terrorism, and policing operations
- Emergency services/disaster relief
- Mining CCTV and wireless backhaul
- Cell-on-wheels / Mesh wireless
- Surveying and surveillance
- Semi-permanent and temporary communications

SPECIFICATIONS

MAST	AP-T-CHL6M
Fully Deployed Height	6200 mm
Minimum Deployed Height	4160 mm
Mast Sections	2
Maximum Payload	40 kg
Winch Cable	6 mm Dyneema
Winch Cables Per System	1
Winch Capacity	1.2 tonne
Spigot	Single spigot, telecom configurations available
TRAILER	AP-T-CHL6M
GVWR	1250 kg
Deck Height	560 mm
Number of Axles	1
Transport Height	1880 mm
Transport Width	1900 mm
Transport Length	4200 mm
Curb Weight	760 kg
Levelling Jacks	4 x 1000 kg
Outrigger Footprint	3920 x 2580 mm (L x W)
Galvanised	Y
Equipment Cabinet	1000 x 1250 x 585 mm
Battery Box	Optional
Full Size Spare Tire	Y
DOT- Safety Chains	Y
DOT- Break Away Kit	N
Std. 7-Pin Electrical Connector	Y
Wheel Chocks	Y
Coupling Hitch	50 mm 3.5T



APAC COUNTERHAWK COMMUNICATIONS TRAILER

MEDIUM SERIES, 7 METRE COUNTERWEIGHT MAST

OVERVIEW

APAC specialise in the design and fabrication of communications trailers built to the highest of international standards. Exported to the world, APAC trailers are 100% Australian designed, built, and shipped from our facility in the Sunshine Coast, Queensland.

The genuine beauty of the trailer body is its versatility - the fully engineered subframe design can be adapted for use in even the most demanding of applications, from military theatre, to aerospace monitoring, to black-coal mining environments. The CounterHawk medium-series trailer has an integrated seven metre dual-section counterweight mast, a 2000x1250x585 mm insulated primary electronics cabinet, and 1200x600x500 mm battery box.

Operation is simple and effective; the dual-section telescoping mast is extended to desired length, locked into position using a heavy duty 5/8" hitch-pin, and then raised using a powerful 1.8 hp winch system with 6 mm 7x19 strand stainless steel wire.

The standard supplied communication boxes are as standard painted in high impact, high visibility yellow and chassis is hot dipped galvanised. Through partnership with leading Queensland painting facilities, the trailer system can be painted to your specific requirement including to MIL-STD and NATO/STANAG standards, such as Olive Drab, Desert Tan, and NATO Green colour schemes.



FEATURES

- 7.6 m dual-stage mast
- 50 kg (engineered) lifting capacity
- 50 mm axle with drum brakes
- Galvanised body, high impact yellow cabinets
- High quality Australian made product
- Full custom builds available; mine, aero, and mil-spec builds

TYPICAL APPLICATIONS

- Defence, counter-terrorism, and policing operations
- Emergency services/disaster relief
- Mining CCTV and wireless backhaul
- Cell-on-wheels / Mesh wireless
- Surveying and surveillance
- Semi-permanent and temporary communications

SPECIFICATIONS

MAST	AP-T-CH7M
Fully Deployed Height	7640 mm
Minimum Deployed Height	4220 mm
Mast Sections	2
Maximum Payload	50 kg
Winch Cable	8 mm Dyneema
Winch Cables Per System	1
Tilt Winch Motor (hp)	1.8
Spigot	Single spigot, telecom configurations available
TRAILER	AP-T-CH7M
GVWR	1500 kg
Deck Height	600 mm
Number of Axles	1
Transport Height	2605 mm
Transport Width	1900 mm
Transport Length	4473 mm
Curb Weight	1250 kg
1000 kg Levelling Jacks	4
Outriggers	4
Galvanised	Y
Equipment Cabinet	2000x1250x585 mm
Battery Box	1200x600x500 mm
Full Size Spare Tire	Y
DOT- Safety Chains	Y
DOT- Break Away Kit	N
Std. 7-Pin Electrical Connector	Y
Wheel Chocks	Y
Coupling Hitch	50 mm 3.5T



APAC AIRHAWK COMMUNICATIONS TRAILER

HEAVY SERIES, 15.6 METRE PNEUMATIC MAST

OVERVIEW

APAC specialise in the design and fabrication of communications trailers built to the highest of international standards. The AIRHawk Dual-Axle trailer has an integrated 15.6 metre ten-section pneumatic mast, a 2000x1250x585 mm insulated primary electronics cabinet, and 1200x600x500 mm battery box.

The AIRHawk Dual-Axle Trailer has an integrated AIR1560 pneumatic mast. AIR1560 is a 15.6 metre, 10 section mast which collapses to 2.55 metres and is capable of supporting payloads up to 140 kg. AIR1560 has a military-grade hard-anodised treatment, developed for extremely harsh environments such as sandstorms and coastal locations subject to corrosive salt air.

The standard supplied communication boxes are as standard painted in high impact, high visibility yellow and chassis is hot dipped galvanised. Through partnership with leading Queensland painting facilities, the trailer system can be painted to your specific requirement including to MIL-STD and NATO/STANAG standards, such as Olive Drab, Desert Tan, and NATO Green colour schemes.



FEATURES

- 15.6 m ten stage mast
- 140 kg (engineered) lifting capacity
- Dual 50 mm axle with drum brakes
- Galvanised body, high impact yellow cabinets
- Full custom builds available; mine, aero, and mil-spec builds

TYPICAL APPLICATIONS

- Defence, counter-terrorism, and policing operations
- Emergency services / disaster relief
- Mining CCTV and wireless backhaul
- Cell-on-wheels / Mesh wireless
- Surveying and surveillance
- Semi-permanent and temporary communications

SPECIFICATIONS

MAST	AIR1560
Fully Deployed Height	1560 mm
Minimum Deployed Height	2550 mm
Mast Sections	10
Maximum Payload	140 kg
Compressor	2x GD Thomas, 160 L/min, 0.25-0.30 MPa, IP64 Rated
Tilt Winch Motor (hp)	1.8
Control Module Dimensions	2x 400x290x480 mm
TRAILER	AP-T-AH1560
GVWR	3100 kg
Deck Height	950 mm
Number of Axles	2
Transport Height	2250 mm
Transport Width	2200 mm
Transport Length	5000 mm (options available)
Curb Weight	2500 kg
1000 kg Levelling Jacks	4
Outriggers	4
Galvanised	Y
Equipment Cabinet	2000x1250x585 mm
Battery Box	1200x600x500 mm
Full Size Spare Tire	Y
DOT- Safety Chains	Y
DOT- Break Away Kit	N
Std. 7-Pin Electrical Connector	Y
Wheel Chocks	Y
Coupling Hitch	76 mm NATO Eyelet 3500 kg



Pneumatic & Telescopic Masts



AIR950 PNEUMATIC MAST SPECIFICATIONS

AP-TM-AIR950 PNEUMATIC AIR-OPERATED MAST, 9.5 METRES

OVERVIEW

Complementing our locally manufactured telescopic mast systems, APAC have commissioned a standardised range of pneumatic mast systems to allow the delivery of a cost-effective air-operated mast. The AIR series of pneumatic pump-up masts are available in 9.5, 12, 15, and 18 metre heights, capable of supporting payloads up to 140 kg. Each system is supplied with a full control module, comprising of a world-standard GD Thomas compressor system for reliable, safe lifting every time.

APAC's locking pneumatic masts are ideal for military communications, lighting, elevated testing, meteorology, surveillance, and mobile radar applications. Internal keying and a rigid design ensures minimal wind deflection, even without guy wire attachment. For additional stability and for larger systems each pneumatic mast is supplied with a guy wire kit. Automatic sectional locking assures personnel and payload safety, and permits compressorless operation for long term and even permanent installations.

Manufactured from high strength aluminium alloy (>260 MPa tensile, >245 MPa yield), AIR950 pneumatic masts are robotically welded in an ISO 9001 certified facility to ensure high precision and consistent, reliable supply lead times. All systems pass a stringent mechanical engineering inspection prior to shipment.

FEATURES

- Self-locking for long term deployment
- Collapsed height of 2000 mm
- Extended height of 9500 mm
- 70 kg payload, 7 sections
- Optional guy-wire kit available
- High grade structural aluminium construction
- All-robotic welded for maximum reliability



SPECIFICATION

PARAMETER	AP-TM-AIR950
Collapsed Height	2.0 m
Maximum Height	9.5 m
Sections	7
Section Diameters	189 mm (base), 73 mm (top)
Weight	100 kg
Wind Survivability	73 km/h (without guy wires)
Working Pressure	1.5 kg/cm ²
Lifting Time	< 10 min
Construction	6061 T5 Structural Grade Aluminium Alloy
Finish	Hard Anodised, Brown
Accessories	Control Module, Compressor, Flanges. Guy Kit Optional.
Compressor	GD Thomas, 160 L/min, 0.25-0.30 MPa, IP64 Rated
Control Module Dimensions	400 x 290 x 480 mm



AIR1200T PNEUMATIC MAST SPECIFICATIONS

AP-TM-AIR1200T PNEUMATIC MAST & TRIPOD, 12 METRES

OVERVIEW

Complementing our locally manufactured telescopic mast systems, APAC have commissioned a standardised range of pneumatic mast systems to allow the delivery of a cost-effective air-operated mast. The AIR series of pneumatic pump-up masts are available in 9.5, 12, 15, and 18 metre heights, capable of supporting payloads up to 140 kg. Each system is supplied with a full control module, comprising of a world-standard GD Thomas compressor system for reliable, safe lifting every time.

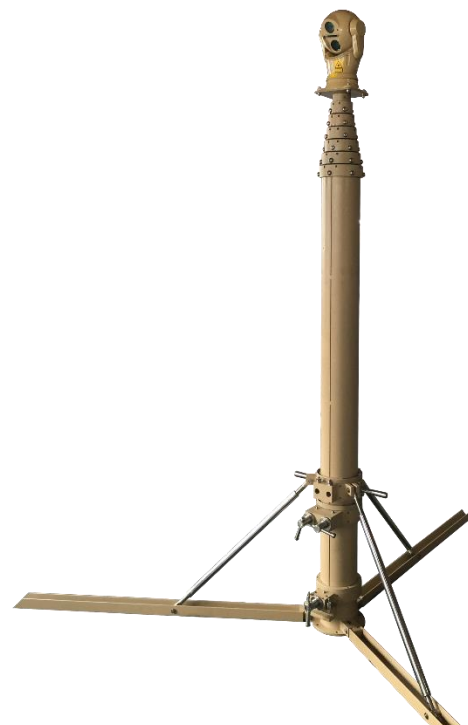
APAC's locking pneumatic masts are ideal for military communications, lighting, elevated testing, meteorology, surveillance, and mobile radar applications. Internal keying and a rigid design ensures minimal wind deflection, even without guy wire attachment. For additional stability and for larger systems each pneumatic mast is supplied with a guy wire kit. Automatic sectional locking assures personnel and payload safety, and permits compressorless operation for long term and even permanent installations.

The AIR1200T mast is a 12 metre, seven section mast which collapses to 2.4 metres. The system is supplied with a military-grade tripod base, with an integrated levelling mechanism and ground anchors. This mil-spec, IP64 rated mast is capable of supporting payloads up to 40 kg. AIR1200T can support a range of different heads and as an example is pictured with a PTZ surveillance unit - of course the camera is available as an optional extra and not included as standard.

Manufactured from high strength aluminium alloy (>260 MPa tensile, >245 MPa yield), AIR1200T pneumatic masts are robotically welded in an ISO 9001 certified facility to ensure high precision and consistent, reliable supply lead times. All systems pass a stringent mechanical engineering inspection prior to shipment.

FEATURES

- Self-locking for long term deployment
- Collapsed height of 2360 mm
- Extended height of 12000 mm
- 40 kg payload, 7 sections
- Military-grade tripod system
- IP64 ingress protection rating
- Guy-wire kit required for high wind zones
- High grade structural aluminium construction
- All-robotic welded for maximum reliability



SPECIFICATION

PARAMETER	AP-TM-AIR1200T
Collapsed Height	2.36 m
Maximum Height	12.0 m
Sections	7
Section Diameters	168 mm (base), 56 mm (top)
Weight	130 kg
Payload	40 kg (without guy wires)
Wind Survivability	73 km/h (without guy wires)
Working Pressure	1.5 kg/cm ²
Lifting Time	< 10 min
Construction	6061 T5 Structural Grade Aluminium Alloy
Finish	Hard Anodised, Brown
Accessories	Control Module, Compressor, Flanges, Guy Kit.
Compressor	GD Thomas, 160 L/min, 0.25-0.30 MPa, IP64 Rated
Control Module Dimensions	400 x 290 x 480 mm

AIR1560 PNEUMATIC MAST SPECIFICATIONS

AP-TM-AIR1560 PNEUMATIC AIR-OPERATED MAST, 15.6 METRES

OVERVIEW

Complementing our locally manufactured telescopic mast systems, APAC have commissioned a standardised range of pneumatic mast systems to allow the delivery of a cost-effective air-operated mast. The AIR series of pneumatic pump-up mast are available in 9.5, 12, 15, and 18 metre heights, capable of supporting payloads up to 140 kg. Each system is supplied with a full control module, comprising of a world-standard GD Thomas compressor system for reliable, safe lifting every time.

APAC's locking pneumatic masts are ideal for military communications, lighting, elevated testing, meteorology, surveillance, and mobile radar applications. Internal keying and a rigid design ensures minimal wind deflection, even without guy wire attachment. For additional stability and for larger systems each pneumatic mast is supplied with a guy wire kit. Automatic sectional locking assures personnel and payload safety, and permits compressorless operation for long term and even permanent installations.

The AIR1560 mast is a 15.6 metre, 10 section mast which collapses to 2.55 metres. The mast is capable of supporting payloads up to 140 kg. Designed for operations in the middle east, the system uses a dual compressor system, providing exceptional reliability through redundant supply.

Manufactured from high strength aluminium alloy (>260 MPa tensile, >245 MPa yield), AIR1560 pneumatic masts are robotically welded in an ISO 9001 certified facility to ensure high precision and consistent, reliable supply lead times. All systems pass a stringent mechanical engineering inspection prior to shipment.



FEATURES

- Self-locking for long term deployment
- Collapsed height of 2550 mm
- Extended height of 15630 mm
- 140 kg payload, 10 sections
- Optional guy-wire kit available
- High grade structural aluminium construction
- All-robotic welded for maximum reliability

SPECIFICATION

PARAMETER	AP-TM-AIR1560
Collapsed Height	2.55 m
Maximum Height	15.63 m
Sections	10
Section Diameters	314 mm (base), 109 mm (top)
Payload	140 kg
Weight	-
Wind Survivability	90 km/h (without guy wires)
Working Pressure	1.5 kg/cm ²
Lifting Time	< 10 min
Construction	6061 T5 Structural Grade Aluminium Alloy
Finish	Hard Anodised, Brown
Accessories	Control Module, Compressor, Flanges. Guy Kit Optional.
Compressor	2x GD Thomas, 160 L/min, 0.25-0.30 MPa, IP64 Rated
Control Module Dimensions	2x 400 x 290 x 480 mm



AIR1800 PNEUMATIC MAST SPECIFICATIONS

AP-TM-AIR1800 PNEUMATIC AIR-OPERATED MAST, 18 METRES

OVERVIEW

Complementing our locally manufactured telescopic mast systems, APAC have commissioned a standardised range of pneumatic mast systems to allow the delivery of a cost-effective air-operated mast. The AIR series of pneumatic pump-up masts are available in 9.5, 12, 15, and 18 metre heights, capable of supporting payloads up to 160 kg. Each system is supplied with a full control module, comprising of a world-standard GD Thomas compressor system for reliable, safe lifting every time.

APAC's locking pneumatic masts are ideal for military communications, lighting, elevated testing, meteorology, surveillance, and mobile radar applications. Internal keying and a rigid design ensures minimal wind deflection, even without guy wire attachment. For additional stability and for larger systems each pneumatic mast is supplied with a guy wire kit. Automatic sectional locking assures personnel and payload safety, and permits compressorless operation for long term and even permanent installations.

The AIR1800 mast is an 18 metre, 9 section mast which collapses to 3.0 metres. The mast is capable of supporting payloads up to 160 kg in 90 km/h wind using the supplied guy wire kit. AIR1800 has a military-grade hard-anodised treatment, developed for extremely harsh environments such as sandstorms and coastal locations subject to corrosive salt air.

Manufactured from high strength aluminium alloy (>260 MPa tensile, >245 MPa yield), AIR1800 pneumatic masts are robotically welded in an ISO 9001 certified facility to ensure high precision and consistent, reliable supply lead times. All systems pass a stringent mechanical engineering inspection prior to shipment.

FEATURES

- Self-locking for long term deployment
- Collapsed height of 3000 mm
- Extended height of 18000 mm
- 160 kg payload, 9 sections
- Supplied with guy-wire kit
- High grade structural aluminium construction
- All-robotic welded for maximum reliability



SPECIFICATION

PARAMETER	AP-TM-AIR1800
Collapsed Height	3.0 m
Maximum Height	18.0 m
Sections	9
Section Diameters	314 mm (base), 127 mm (top)
Payload	160 kg
Wind Survivability	90 km/h (guyed)
Working Pressure	1.5 kg/cm ²
Lifting Time	< 10 min
Construction	6061 T5 Structural Grade Aluminium Alloy
Finish	Hard Anodised, Brown
Accessories	Control Module, Compressor, Flanges. Guy Wire Kit.
Compressor	GD Thomas, 160 L/min, 0.25-0.30 MPa, IP64 Rated
Control Module Dimensions	400 x 290 x 480 mm



Small Mounts



B48 BUDGET GALVANISED MAST SPECIFICATIONS

AP-RM-B48 ROOF MAST, UP TO 3 METRES

OVERVIEW

APAC have launched a range of budget masts for quick, affordable installations. The B48 Budget Roof Mast is a 48 mm diameter galvanised pole with two stay bars attached to the mast by tek screws or hose clamps. Despite its simplicity, this design is quick and effective and most importantly low cost. The footplate has a hinged design allowing pitch compensation for standard corrugated iron and tin roofs. The mast design is also available with a 32 mm pole (B32 Roof Mast), and in a tiled roof design.

These simple roof masts can be used for any pole-mounted device under the sun; weather monitoring, antennas, CCTV, solar panels, radio transmitters, data acquisition, GPS, and surveying equipment.

Many telecoms applications are sensitive to deflection and movement, particularly in adverse weather conditions - for any wireless and microwave applications please use GC48 and GC76 series roof masts.



FEATURES

- Entry-grade, low cost roof mast
- Galvanised 48 mm (OD) pole, various heights
- Screw-together design
- Suits pitched roofs up to 45°
- 100% Australian designed & manufactured

SPECIFICATION

PARAMETER	AP-RM-B48
Available Pole Heights	1.2 to 3.0 m
Stay Bars	2x 1620 mm
Installed Dimensions	3045 x 1160 x 1160 mm (3.0 m mast)
Roof Pitch	0 to 45°
Foot Plates	1x 5 mm flat bar
Weight	12 kg (3.0 m mast)
Wind Survivability	Dependent on load configuration
Construction	Grade C350 pipe, 48.3x2.9 mm mast, 33.7x2.5 mm stay bars
Finish	Hot dipped galvanised, Duragal to AS 4792
Fixings	1x M10 Zinc Grade 8.8 bolt, 4x Tek screws



GC48 COLLARED GALVANISED MAST SPECIFICATIONS

AP-RM-GC48 ROOF MAST, UP TO 3 METRES

OVERVIEW

APAC's range of galvanised steel roof poles have been developed to satisfy the need for a durable, low deflection mounting platform that resists even the most intense of weather conditions. These simple roof poles can be used for any pole-mounted device under the sun; microwave dishes, weather monitoring, CCTV, solar panels, radio transmitters, data acquisition, GPS, and surveying equipment.

The GC48 series' collared design incorporates two sliding collars allowing stay bars to be attached to the centre mast without invalidating engineering certification by drilling new holes to vary the stay bar pitch angle. This design is safe, fast, and heavy duty, and is available in a range of different heights. The footplate has a hinged design allowing pitch compensation for standard corrugated iron and tin roofs.

Designed and built by APAC in the Sunshine Coast, Australia, you can expect uncompromising standards and a robust, real-world tested mast that will provide the peace of mind that it will perform it's intended role for many years to come. If you have specific requirements our team are able to re-design the mast to suit.



FEATURES

- Designed for applications requiring high stability
- Fully engineered for minimal deflection
- Pole heights from 1.2 m to 3.0 m
- Galvanised 48 mm (OD) pole, various heights
- Collared design with three 5 mm thick foot plates
- Sliding collars with set-screw locking attachment
- 100% Australian designed & manufactured

SPECIFICATION

PARAMETER	AP-RM-GC48
Available Pole Heights	1.2 to 3.0 m
Installed Dimensions	3045 x 1160 x 1160 mm (3.0 m mast)
Foot Plates	3x 5 mm flat bar
Weight	17.3 kg (3.0 m mast)
Operating Temperature	-40 to +160 °C
Wind Survivability	66 m/s @ 0.07 m ² payload (Wind Region D)
Construction	Grade C350 pipe, 48.3x2.9 mm mast, 33.7x2.5 mm stay bars
Finish	Hot dipped galvanised, Duragal to AS 4792
Fixings	3x M12 Zinc Grade 8.8 bolts, 2x M10 Zinc Grade 8.8 bolts



GC48H COLLARED HINGED GALVANISED MAST

AP-RM-GC48H ROOF MAST, UP TO 3 METRES

OVERVIEW

APAC's range of galvanised steel roof poles have been developed to satisfy the need for a durable, low deflection mounting platform that resists even the most intense of weather conditions. These simple roof poles can be used for any pole-mounted device under the sun; microwave dishes, weather monitoring, CCTV, solar panels, radio transmitters, data acquisition, GPS, and surveying equipment.

The GC48 series' collared design incorporates two sliding collars allowing stay bars to be attached to the centre mast without invalidating engineering certification by drilling new holes to vary the stay bar pitch angle. This design is safe, fast, and heavy duty, and is available in a range of different heights. The footplate has a hinged design allowing pitch compensation for standard corrugated iron and tin roofs.

GC48H is a subseries of the traditional GC48 mast, which includes a hinging top section to allow access to the top of the pole without climbing ladders or foot pegs - minimising safety hazards. The mast is raised and lowered with the use of two high tensile M10 bolts, one as the hinge point, and second to lock the mast in place.

Designed and built by APAC in the Sunshine Coast, Australia, you can expect uncompromising standards and a robust, real-world tested mast that will provide the peace of mind that it will perform it's intended role for many years to come.



FEATURES

- Designed for applications requiring high stability
- Hinging top section for easy equipment installation and service
- Pole heights from 2.4 m to 3.0 m
- Galvanised 48 mm (OD) pole, various heights
- Collared design with three 5 mm thick foot plates
- Sliding collars with set-screw locking attachment
- 100% Australian designed & manufactured

SPECIFICATION

PARAMETER	AP-RM-GC48H
Available Pole Heights	2.4 to 3.0 m
Installed Dimensions	3045 x 1160 x 1160 mm (3.0 m mast)
Foot Plates	3x 5 mm flat bar
Weight	17.8 kg (3.0 m mast)
Operating Temperature	-40 to +160 °C
Construction	Grade C350 pipe, 48.3x2.9 mm mast, 33.7x2.5 mm stay bars
Finish	Hot dipped galvanised, Duragal to AS 4792
Fixings	3x M12 Zinc Grade 8.8 bolts, 4x M10 Zinc Grade 8.8 bolts



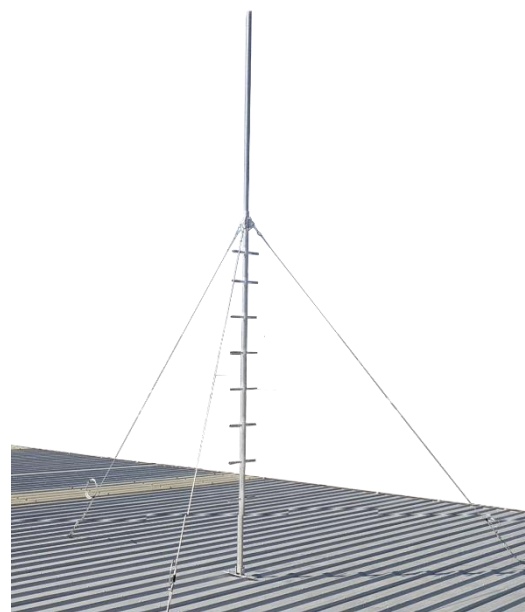
GPP48 CLIMBABLE GALVANISED ROOF MAST

AP-RM-GPP48 GUYED STEEL ROOF MAST, 5 METRES

OVERVIEW

Site engineers are often faced with the challenge of achieving sufficient height while maintaining project cost. Not all projects call for the construction of a roof mounted lattice tower, and not all building owners may permit this. APAC's climbable guyed five metre steel roof mast meets the challenge for a medium height while maintaining accessibility, allowing cameras, instruments, and antenna systems to be aligned, or more equipment added post-installation.

The split two-section design reduces shipping length under three metres, allowing transport anywhere in the globe. This clever design also allows the top section to be rotatable, permitting azimuthal adjustments post-installation, and also completely replaceable with a custom mast head such as a cluster or sector mounting frame.



Foot pegs are fully welded galvanised steel, climbable up to the three metre mark (first section) to access any equipment mounted even at the five metre mark. Being all-galvanised steel construction, this kit will last for years in the harsh Australian environment.

FEATURES

- Climbable foot-pegs to three metres
- Five metre total height, two section design
- Galvanised 48 mm (OD) pole
- Rotatable top section with optional mast heads
- Guyed at the three metre mark for exceptional stability
- 100% Australian designed & manufactured

SPECIFICATION

PARAMETER	AP-RM-GPP48
Available Heights	3.0 to 5.0 m
Installed Dimensions	5045 x 1730 mm ø (5.0 m mast)
Foot Plates	1x 5 mm flat bar
Weight	14 kg (5.0 m mast)
Construction	Grade C350 pipe, 48.3x2.9 mm mast, 42.4x2.65 mm top, 21.3x2 mm foot pegs
Finish	Hot dipped galvanised, Duragal to AS 4792
Guy Wire Kit	3.2 mm, Class 7x19, Grade 2070, Galvanised Steel
Fixings	2x M10 Zinc Grade 8.8 bolts



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