



# Digital Infrastructure Solutions

ART

### Our products

- + Modular Communication Shelter (MSC+)
- + Remote Deployment Units (RDU)
- + Vertical Infrastructure – towers and masts
  - + Autonomous power trailers.

# Digital Infrastructure Solutions

In our connected world, reliable and efficient digital infrastructure is crucial for maintaining seamless communications, particularly in remote or high-demand environments.

With over 50 years of Australian manufacturing expertise, ART is a trusted infrastructure solutions partner across the telecommunications, mining, and renewable energy sectors. Our focus is on quality, compliance, and innovation, and delivering high-performance, locally made products built to last.

From remote power and communication systems to full turnkey deployment, ART provides end-to-end solutions tailored to your specific needs.

Whether you're upgrading existing infrastructure or building from the ground up, our engineering, construction, supply, and installation services ensure your digital assets are secure, scalable, and always connected.

# Modular Communication Shelter (MSC+)

ART's next-generation modular shelter is a fully customisable, Australian-made shelter designed for durability, flexibility, and operational efficiency.

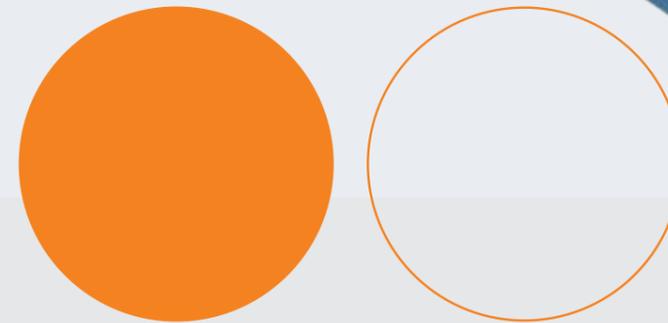
Developed from decades of engineering expertise, it suits a wide range of environmental and technical requirements and supports future scalability. Its modular design allows for easy configuration, expansion, and on-site adaptation, reducing total cost of ownership and making it ideal for both remote and high-demand environments, on-grid or off-grid.

From design through to install, ART reduces project complexity by delivering complete, site-ready infrastructure that just works, on time, on spec, and with no surprises. Built for people who don't have time for delays, excuses, or redesigns.



Key features include:

- + Available in 9 m<sup>2</sup> and 18 m<sup>2</sup>  
Larger sizes available upon request
- + Modular and efficient floor layout design (up to 17 racks)
- + On-site expansion capabilities (link shelters or add rooms as needed)
- + Multiple configurable cable entry points (comms, power, fibre, RF)
- + Sub-floor cable management for safety and flexibility
- + **Power-ready:** supports solar, generator, mains, or hybrid inputs
- + Modular and expandable power rack with 12, 24, 48DC & 240AC
- + Region C/D wind-rated
- + High-performance thermal insulation rating R3.5 with optional FRL -/180/180
- + Built to relevant Australian Standards and tailored for site-specific compliance (e.g. mining, telco, transport)



## Applications

- + Remote telecommunications or mining automation nodes
- + Private LTE/5G or CBRS systems
- + Edge computing / micro data centres
- + Industrial automation and monitoring
- + Renewable energy communications
- + Emergency services infrastructure
- + Smart transport and rail corridors

# Remote Deployment Units (RDU)

Our Remote Deployment Units provide secure, off-grid communication/power solutions for remote sites.

- + **RDU-S 30 m skid** – A sealed shelter with two communication racks, two battery racks, 18 foldable solar panels, outrigger ballast blocks, and a 30 m guyed tower.
- + **RDU-S 10 m skid** – A compact sealed shelter with one communication rack, one battery rack, eight roof-mounted folding solar panels, and a 10 m free-standing mast.
- + **RDU-S 6 m skid** – A small skid solution featuring two solar panels, a power cabinet, and a 6m free-standing mast.
- + **HeliPod remote power solution** – Designed for independent operation, the HeliPod enables off-grid power for remote communication infrastructure. It features a folding solar panel array, along with storage for batteries and control equipment, with optional PTZ cameras and remote monitoring capabilities.



## Trailer products

### Premium Trailer

Our Premium Trailer is a dual-axle trailer designed for providing remote power needs, delivering autonomous power for off-grid infrastructure. It includes a lockable container for secure battery and control equipment storage, with a solar array mounted on the roof.

### Essential Trailer

The Essential Trailer is a smaller single-axle trailer that delivers stand-alone power for remote off-grid applications. It features a dual-panel solar array and a compact battery storage area for reliable energy supply.

# Vertical infrastructure – towers and masts

ART is committed to delivering high-quality, client-focused solutions. In 2023, ART purchased Flight Brothers, one of Australia's market-leading suppliers of communications structures for over 40 years.

With our combined expertise, we deliver custom end-to-end solutions for the renewables, resources, and communications industries.



## Guyed Masts

Our guyed masts are available in multiple configurations to suit different load and height requirements. Constructed with a stainless-steel core and guy wires, they are available in five load categories:

- + **Light-load (305 mm width)** up to 45 m high.
- + **Light/Medium-load (360 mm width)** up to 80 m high.
- + **Medium-load (450 mm width)** up to 70 m high.
- + **Medium/Heavy-load (550mm width)** up to 120 m high.
- + **Heavy-load (650 mm width)** up to 90 m high.
- + **Heavy-duty extreme winds (750mm width)** up to 180 m high.

Heights are dependent on load, footings, and wind region conditions. The guy wires range from 8 mm to 13 mm galvanised steel, with a typical radius of two-thirds the mast height. To minimise twisting in high winds, we offer solutions including larger mast frames and optimised lower membranes.



## Towers

- + **FT towers** – Australian-made, light-duty free-standing towers with a modular design for height flexibility from 9m to 30m in 3m increments.
- + **F & FX towers** – Heavy-duty, Australian-made free-standing towers, custom-designed through detailed engineering analysis to suit specific locations. Heights range from 10.5m to 60m.



## Remote Deployment Guyed Mast Outrigger (RDGMO)

The RDGMO is a rapid-deployment guyed mast solution featuring three outriggers that support the guy wires for stability. This system allows for quick setup and redeployment as required.



## Roof mounts

Our Australian-made 3 m roof-mounted pole is designed for commercial buildings and can support a 1.2 m solid microwave antenna. The 114 mm diameter pipe ensures direct mounting compatibility with most microwave dishes.



## Tower accessories

ART offers a range of optional tower accessories to enhance safety, accessibility, and deployment efficiency. These include:

- + **Antenna mounts**
- + **Tower headend configurations** (e.g., 3-sector)
- + **Face mounts**
- + **Aircraft warning lights**
- + **Tower ladders**
- + **Lightning and earth kits**
- + **Fall arrest systems**
- + **Cable hanger brackets**



# Construction

ART's construction services cover every stage of project execution, ensuring high-quality, safe methodologies and reliable results.

## Mobilisation

We can efficiently mobilise resources and equipment to ensure seamless project execution.

## Civil works

Our civil services include site clearing, leveling, trenching, backfilling and compaction. We also provide earthing solutions and the placement of pre-cast blocks to establish strong foundations for Tower and Shelter infrastructure.

## Rigging

We specialise in tower assembly and lifting, including placement of outriggers and guy wires, installation of ancillary equipment including ladders, aircraft warning lights (AWLs) antenna mounts etc.

Our team ensures that all tower constructions meet industry standards through rigorous inspections, sign-off and certification, followed up with As-Built drawings and documentation and optional on-going maintenance inspections.

# Engineering

ART's experienced team provides comprehensive engineering services to support critical infrastructure projects.

Our expertise includes engineering assessments, preliminary and detailed engineering design, and development of IFC and As-Built engineering drawings.

We conduct tower strengthening assessments, tower/masts certification and re-certifications, ensuring structural integrity and compliance. Additionally, we offer maintenance recommendations, installation setup advice, and complete project documentation and drawings, MDRs, and IOMMs.





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