


INGAL **EPS**
A valmont COMPANY



Services & Accessories



>> Australia's leading manufacturer of quality pole products with representation in every state and territory.

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INGAL EPS is a division of Industrial Galvanizers Corporation Pty Ltd which is ultimately owned by Valmont Industries Inc. Actively involved in the Australian pole market since 1969, INGAL EPS has strived to continuously lead the industry in research, design, innovation, quality of product and quality of service. Establishing industry benchmarks such as the Seesaw pole, 60km/h and 110km/h Impact Absorbing poles and the largest steel poles ever installed in both Australia and New Zealand.

The company employs around 150 staff and has offices located in every state and territory of Australia and on the North Island of New Zealand. With manufacturing facilities in Brisbane and Perth and full access to three modern facilities in China owned by Valmont Industries Inc, INGAL EPS is well positioned to meet the broad requirements of the pole market. Due to our extensive experience, national coverage, resources and manufacturing capacity we have the ability to provide the most comprehensive product range available.

The INGAL EPS product range includes:

- Street Lighting poles
- Floodlighting poles
- Power poles
- Lowering Systems, for ease of maintenance
- Special Application poles including banner poles, camera poles, traffic signal and communication poles
- Services & Accessories providing individual design, drafting, installation and accessories including foundation materials, adaptors, headframes and cross arms.

With our dedicated design service, material control, quality assured manufacturing processes and after sales service, INGAL EPS has established itself as Australasia's largest pole supplier. INGAL EPS has over four decades of experience leading the industry in Australia and our ever improving product range and expanded manufacturing resources will continue to ensure we're at the cutting edge of providing new and innovative solutions to a growing and ever more demanding market.



Design and Structural Engineering

INGAL EPS has had a successful history partnering with clients who require solutions in design, manufacturing, installation and engineering of projects.

Our Design and Structural Engineering Services team provides you with the most comprehensive in-house design, engineering and drafting services in the industry. Utilising the latest technology the team is able to work closely with the client from project conception to providing the ultimate design and engineering solutions.

The Design and Structural Engineering Services team is able to custom design specialty products for specific sites and applications, offering some of the most highly qualified engineers and draftspersons in the industry. This allows for personalised consultation with regards to particular needs and applications on varying projects.

Using the most technologically advanced software and comprehensive database has enabled the rationalisation and optimisation of design and manufacturing processes, allowing a more effective design procedure meeting clients' needs and conforming to all relevant Australian Standards. This means that we can design extremely complicated products very quickly and produce drawings exactly meeting your specifications. Structural design adequacy of our columns is verified in the form of a fully documented computer print out showing all input parameters, column construction and dimensional data.

Engineering Staff Qualifications

- Six qualified and experienced Civil/Structural Engineers
- Four qualified and experienced design Draftspersons
- Two Professional Engineers registered with the Building Practitioners Board Victoria as a Building Practitioner in the category of Civil Engineer; enabling INGAL EPS to provide Certificates of Compliance in Design (Regulation 1507).
- A Professional Engineer registered with the Board of Professional Engineers of Queensland, RPEQ.
- A Professional Engineer registered on the National Professional Engineers Register, NPER.
- All our Engineers are members of the Institution of Engineers Australia.

Design and Drafting Software

- In-house developed pole design software, in accordance with the latest relevant Australian design standards
- Multiframe 3D
- PLS Pole
- AutoCAD Mechanical
- AutoCAD
- Adobe Acrobat
- Bentley PowerDraft (Microstation)

Testing

As part of the engineering design function, testing facilities are available for full scale and detailed tests upon request. The Design and Structural Engineering Services team carry out testing of standard products as part of INGAL EPS' ongoing commitment to research and development.

Installation

INGAL EPS has a track record of being able to partner clients in design, manufacture, installation and maintenance through the experience of our engineering, drafting, manufacturing, installation and maintenance personnel, providing the option of a turnkey solution to every project.

INGAL EPS is able to install most of the products we sell.

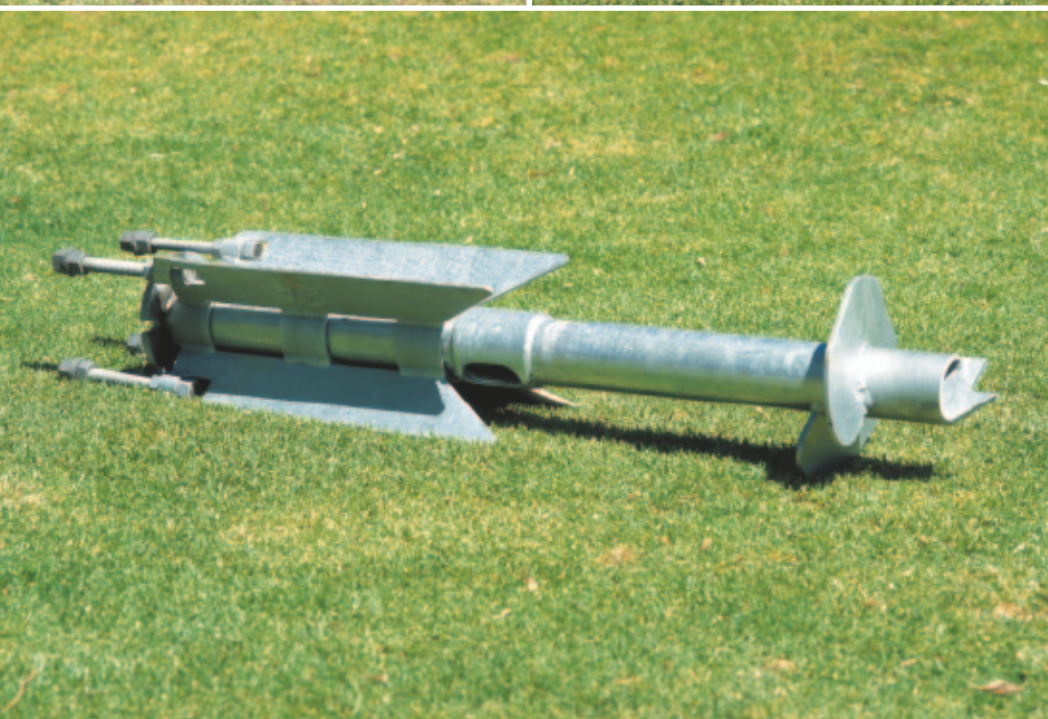
Our professional installation team has the capabilities to carry out all of the following installation tasks.

- Soil test
- Foundation selection
- Service detection (power, gas, water and communication services)
- Dial before you dig
- Traffic management
- Pot holing to expose services prior to drilling
- Drilling
- Foundation installation
 - Concrete
 - In-ground mounted
 - Screw anchors
- Pole erection
- Connection of accessories
- Electrical connection or pre wired from the access door to electrical equipment on the pole
- Clean up.



Installation





Foundations

INGAL EPS offers a total solution for all clients with a comprehensive range of foundation options to complete your project. Our professional team can install all accessories.

The INGAL EPS range of foundations includes:

Bolts

There are two types of bolts, U-Bolts and Straight Bar Bolts, which are available in numerous sizes and configurations. All are individually engineered to suit pole applications. The bolt configuration is set with a template for accurate positioning of the bolts in the concrete. This ensures accurate alignment of poles to bolts when the pole is erected.

Reinforcing Cages

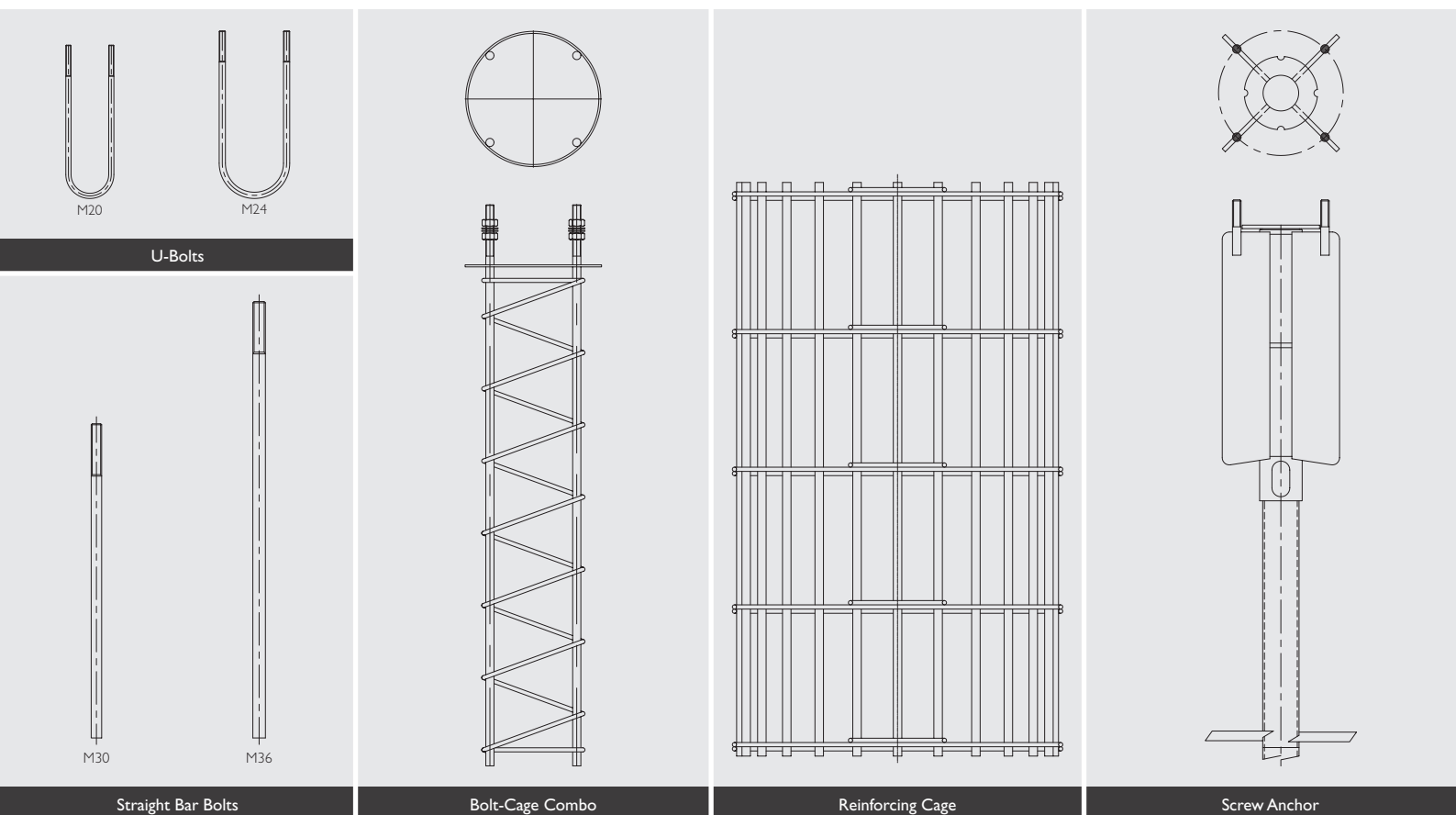
INGAL EPS can provide reinforcing cages in various diameters and lengths to suit engineered pile or slab foundations.

Bolt-Cage Combos

Combos take all the hassle out of preparing a foundation. They are supplied with the Bolts already connected to the Reinforcing Cage, eliminating the need for steel fixing, welding and using a template.

Screw Anchors

Screw Anchors are an alternative to the standard concrete foundation. Utilising a hydraulic borer, the Screw Anchor self augers its way into the ground in less than a few minutes, eliminating the need to prepare concrete foundations seven days in advance of pole erection. They are also ideal for temporary installations and allow for easy relocation.



Pole Top Hardware

INGAL EPS offers a total solution for all clients with a comprehensive range of pole top accessories to complement and complete your project. Our professional team can install all accessories.

The INGAL EPS range of mounting hardware includes:

Adaptors

Adaptors are manufactured in various forms to ensure the correct mounting of single or multiple luminaires. A number of standard Adaptors are available and for specialised projects Adaptors are engineered as required.

Cross Arms

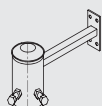
Cross Arms are manufactured in various forms to ensure the correct mounting of multiple luminaires. Luminaires can be mounted below (underslung) or on top of Cross Arms.

Headframes

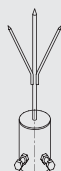
Headframes are typically used on larger projects that require a higher quantity of luminaires mounted at the pole top and would often include additional lower Cross Arms with cable entry points. Headframes also allow for evenly distributing the equipment around the top of the pole.

Lightning Protection Rods

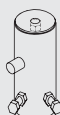
As the name suggests, these rods (or spikes) are mounted in order to become the upper most point of the pole so that they take the force of a lightning strike in order to prevent damage to electrical equipment.



Shoe Box Adaptor X SB



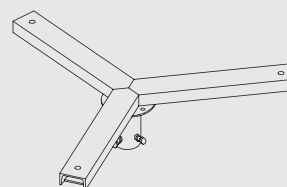
Lightning Protection Rod XLTNGDNC



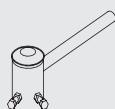
Disc & Nut Coupling XDNC



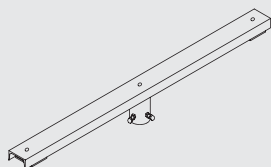
Spigot / Trunion Adaptor X STA



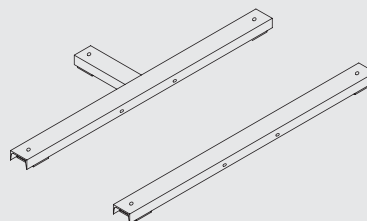
Three way Channel Cross Arm X CY600



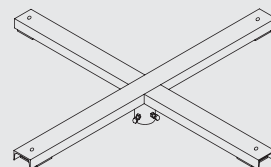
Spigot Adaptor XS



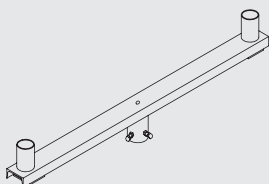
Straight Channel Cross Arm X CP1200 & 1500



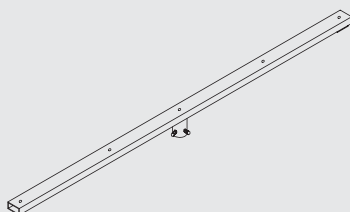
Side-mounted Channel Cross Arm X DP1200, 1500 & 1200T, 1500T



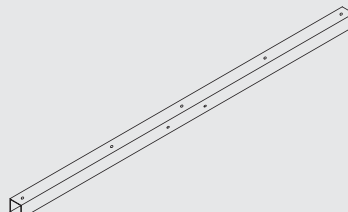
Four way Channel Cross Arm X CX1200 & 1600



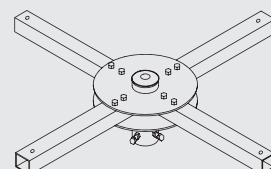
Straight Channel Cross Arm with Spigot Mounts X CS1200 & 1500



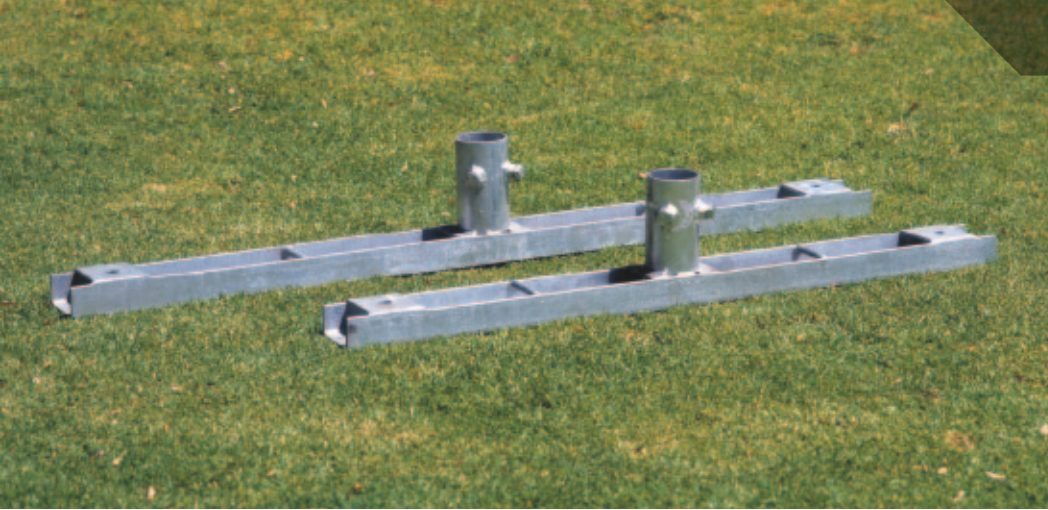
Side-mounted RHS Cross Arm X SP3000



Side-mounted SHS Cross Arm X DP3000



Radial Headframes X4U, X6 U & X8 U





Luminaire Access Equipment

INGAL EPS offers a total solution for all clients with a comprehensive range of luminaire access equipment to complement and complete your projects. Our professional team can install all accessories.

The INGAL EPS range of luminaire access equipment includes:

Climbing Rungs

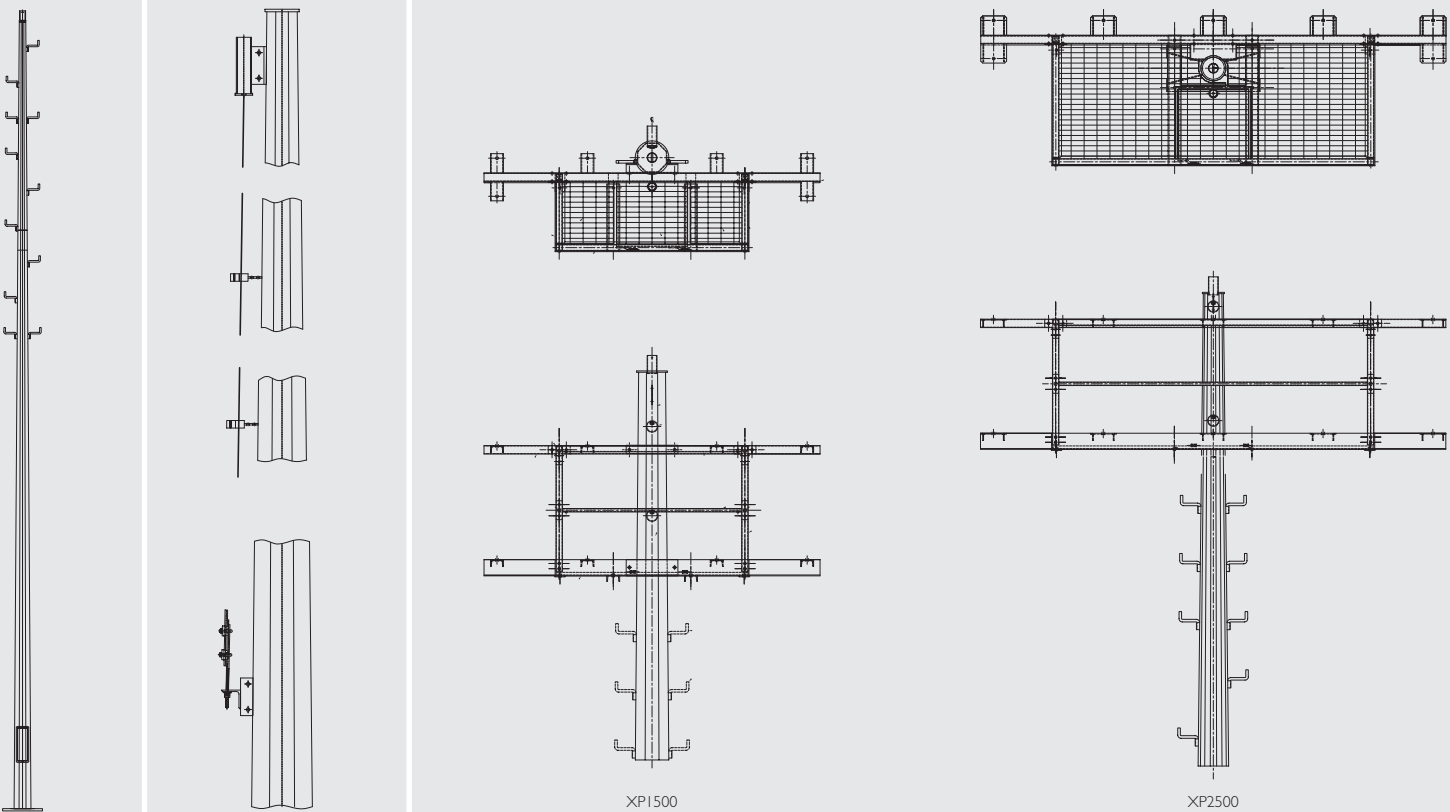
Climbing Rungs are all hot dip galvanized and commence 6m up the pole for safety to restrict passer-by access. There is the option of removable Climbing Rungs that are positioned inside permanently mounted lugs, or the rungs can be permanently attached to the pole.

Lad-Saf[®]

The Sala Lad-Saf[®] system is a personal fall arrest system for use with Climbing Rungs or fixed ladders. For full detail on the Lad-Saf[®] system, contact INGAL EPS and ask for a copy Sala's Lad-Saf[®] Instruction Manual or visit www.salagroup.com.

Lamping Platforms

Lamping Platforms are designed to provide a safe working area for maintenance staff. This allows for easier and safer maintenance and servicing of luminaries and their control equipment at height. The standard Lamping Platforms are depicted and can be modified or custom designed for differing applications.



Climbing Rungs

Lad-Saf[®]

Lamping Platforms



>> STREET LIGHTING POLES >> FLOODLIGHTING POLES >> POWER POLES
>> LOWERING SYSTEMS >> SPECIAL APPLICATION POLES >> SERVICES & ACCESSORIES

To view our entire product range, or for the most up to date product information,
please visit our comprehensive on-line catalogue at www.ingaleps.com.au



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