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Telecommunication Poles

Combining engineering expertise, high-quality manufacturing practices and an economical slip-joint design, Valmont's multisided monopole structures are available in heights up to 60m. These poles can be custom-designed for a variety of single or multi-user configurations and in a wide variety of finishes to meet local aesthetic and zoning requirements.

Monopoles

Valmont's steel poles are designed for cellular, PCS, land mobile, microwave, broadcast, and other applications. These poles can be configured to support platforms and a variety of curved arms, straight arms, and other antenna mounting hardware. Poles can be designed to accommodate multiple carriers and microwave antennas.

Poles that support microwave antennas are designed using the allowable twist and sway limits as specified in the EIA standard (TIA/EIA-222-F and TIA-222-G with latest addendums). Special deflection requirements can also be met when specified by the customer.

Structural Features:

- Pole shafts are fabricated from low-alloy, high strength steel specification from IS 2062, ASTM A572, ASTM A36, BSEN 10025 & Q 345.
- Anchor bolt material complies with ASTM A615, IS1367, GR/T 196-1981
- All poles are hot-dipped galvanized after fabrication per ASTM A-123 & IS 2629.
- Each shaft section is a constant-tapered multisided hollow steel section up to 16m in length (or 12m for shipping purposes)
- Slip joints are designed with a minimum of 1-1/2 times the pole diameter at the splice.
- Base plates are welded to the pole shaft using top and bottom circumferential welds, or using a full-penetration weld.
- Each bolt includes one leveling nut and one hold-down nut.
- Anchor bolts are provided loose with setting templates.
- Bearing Plate design is available if anchor bolt lengths are limited.

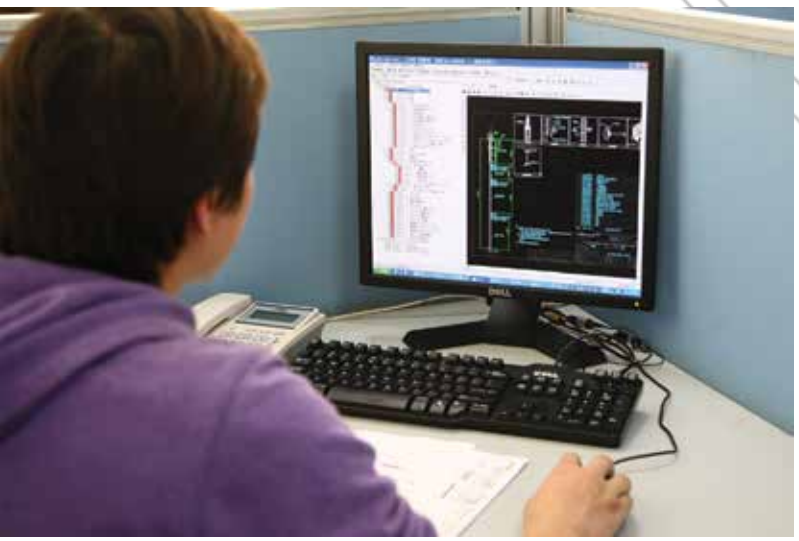
Design & Engineering

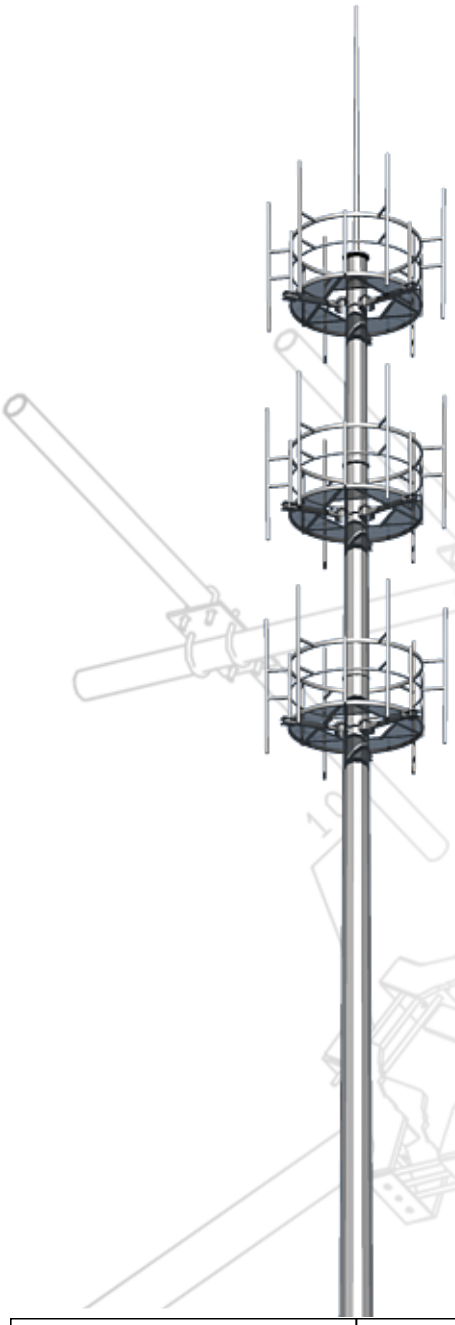
Valmont's in-house capabilities include state of the art computer design technics using proven structural engineering softwares. CAD-CAM systems are available to assist in design, drafting activities and 3D modeling.

As an international industry, our engineering team applies domestic and recognized international standards such as TIA/EIA-222 F and TIA-222G with latest addendums as well as steel construction standards.

Structures must be designed such that twist and sway do not exceed allowable limits. These limits are a function of antenna types, size and frequency.

To complete a full design computation, we need to consider standard selected for design, wind definition and wind speed, type and specification of the antennas selected, twist and sways limits.





TECHNICAL CHECKLIST		valmont
QPR72-1/11 (2005/8)		Order:
		Location :
Design wind speed*:_____ per ☐ Fastest-mile ☐ 3-sec gus ☐ 10-min avg ☐ or else		
Max deflection :		at Wind speed of :
Design standard: ☐ TIS/EIA-222- ☐ TIS-222- ☐ Or else (please specify)		
Type of connection between sections		☐ slip Join ☐ flange Join
Quantity of pole		
Pole height from structure base (m)		
Elevation of structure base above surrounding terrain (m)		
Platform	Platform type	Circular platform, traiangle platform or t-arm
	Quantity of platform	
	Platform height H1/H2/H3(m)	H1= H2= H3=
	Number of antenna panel at each platform	(pcs)
	Each antenna panel	Size (LxWxD,mm): Weight (Kg):
T-arm	Quantity	
	Height of each T-arm	H1= H2= H3=
	Number of microwave dish at each layer	
	Each microwave dish	Diameter (mm): Weight (Kg):
Hand hole	Height of hand hole for cable exit h(m)	
Pole finish	☐ Galvanization ☐ painting ☐ Galvanization + painting	
	If painting, color specification	
Step bolts		Ladder
Comments: For example: material of pole shaft,base plate and anchor boltas and other essential information		

Platform & Climbing Equipment

Platform:

Valmont proposes triangular and round platform as well as custom design platform depending on customer specific requirements.

Round platform advantages:

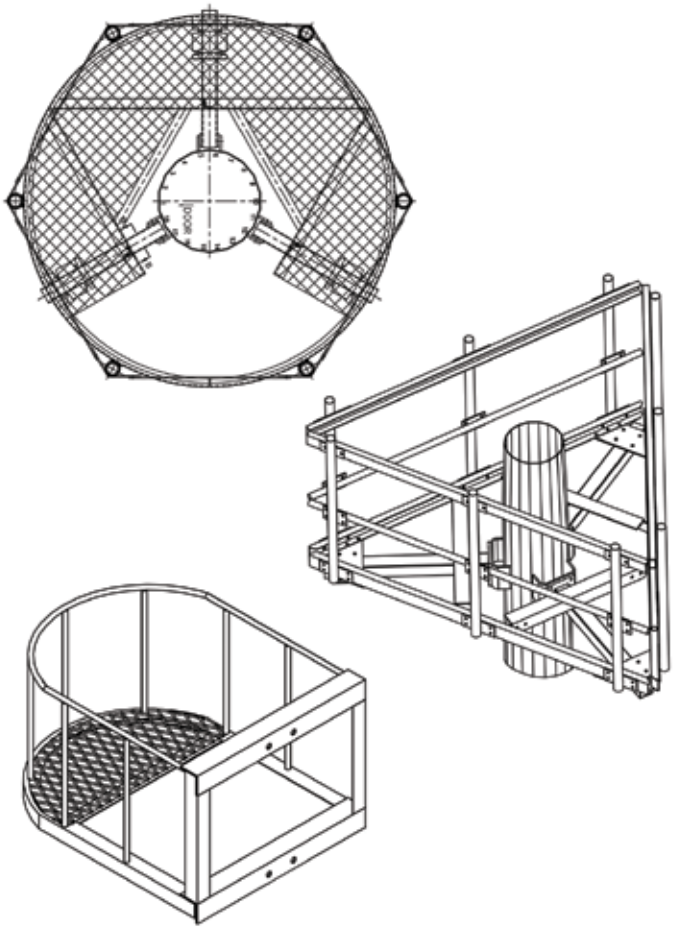
- Antenna pipe mounts can be distributed over 360 deg
- Anchor bolts orientation can be easily verified
- Azimuth can easily be obtained
- Installation can be completed at the ground level to save time

Triangular platforms can also be rotated in order to perfectly match the desired orientation. Antenna pipe mounts are provided with all our poles.

Foot platform can be added at any location along the poles for resting.

Climbing Equipment:

Add on step bolts, outside climbing ladders, and rail-type safety climb devices are available as accessories.



Minimum Visual Impact

Valmont offers a full range of monopoles and decorative communication structures designed for a Minimal visual impact application complying to technology and environmental demand. Choose from a variety of finishes to meet your local aesthetic and zoning requirements.

Camouflaged Tree Poles

Our decorative camouflaged poles, from a selection of pine, palm or coconut tree design perfectly blend with the landscape and surrounding environment to create solutions for the wireless industry that conform to demanding community standards.

The main structure is a galvanized steel monopole, painted or covered with an epoxy barks, with tree branches and artificial foliage outfitted on the top section.

Site Services

Valmont provides site survey, foundation inspection, assembly and erection of structures.

Additional services:
Structure and foundation design, feasibility study for modification of existing structures can also be provided depending on requirement.

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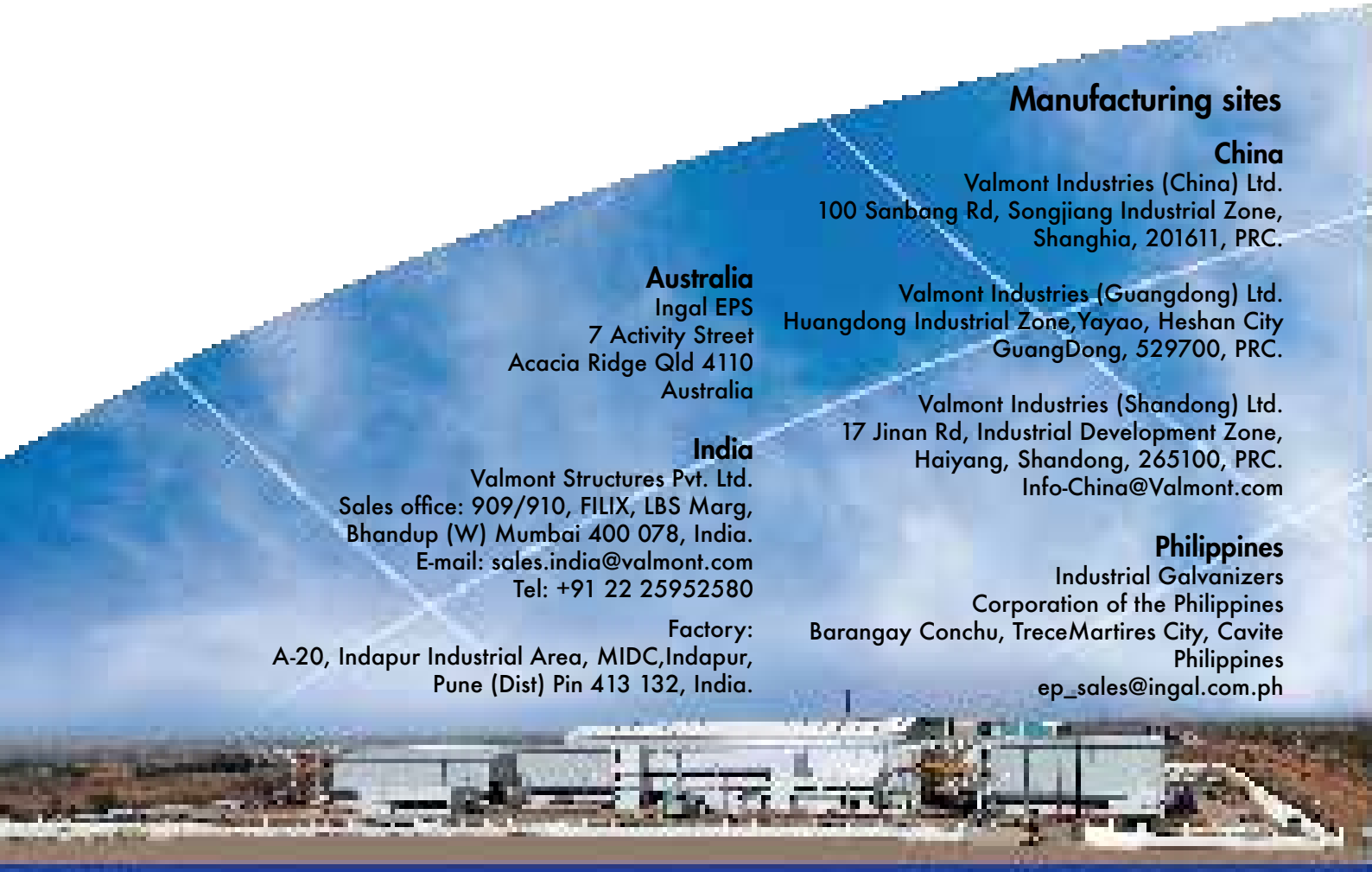

Manufacturing sites

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