



valmont 
UTILITY

Spun Concrete Poles

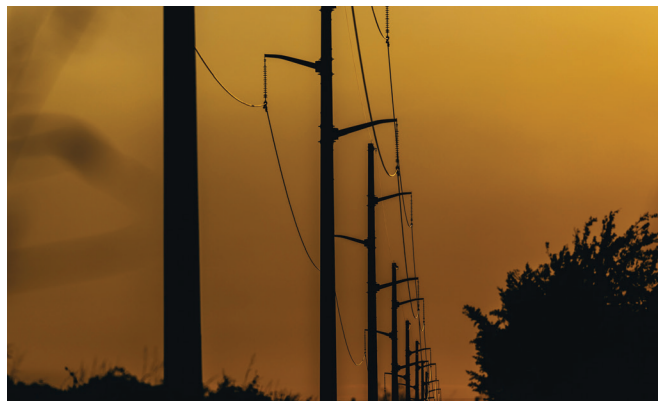
SET IT AND FORGET IT...FOREVER

Every year, during hurricane season, Valmont® Utility poles stand as a testament to the value of spun concrete. But the power of spun concrete poles isn't just in their ability to resist extreme elements. Lower prices, simple installation, virtually no maintenance concerns and line sizes up to 345 kV (single or double circuit) make spun concrete a nearly perfect pole material. Backed by decades of industry-leading engineering, manufacturing and service expertise, spun concrete poles from Valmont Utility might just be the perfect pole for you to set...and forget.



STAND UP TO MOTHER NATURE

Water, salt, coastal air, fog, mist, erosion, high winds, hot or corrosive soils and swampy environments are just a few of the conditions that wreak havoc on most distribution and transmission poles—but not spun concrete. While these conditions are associated with areas like the southeast and gulf coast regions of the U.S., spun concrete is ideal in any region. It performs well in cold weather climates, standing up to the most rigorous freeze/thaw testing standards. And, if you serve areas prone to fire, spun concrete is a great way to protect the investment in your lines and your reputation.



STRONG AND FLEXIBLE

While spun concrete from Valmont Utility is among the strongest man can make, the capacity to carry loads up to 345 kV on either a double or single circuit is only the beginning of the flexibility that it offers:

- **Lower price**—In addition to being a cost-efficient and stable material, spun concrete poles don't require base plates, anchor bolts, ground sleeves, or pole treatments (galvanizing).
- **Short lead time**—Pre-engineering and readily available concrete means custom-engineered poles can deliver in as little as 8 weeks.
- **Durable**—Spun concrete stands up to nearly all environmental conditions, even when they're at their extreme.
- **Cost-effective foundations and installation**—Drill and set the same day with the convenience of direct burial.
- **Virtually maintenance free**—No rusting, rotting, degradation or patches.
- **Color**—Spun concrete poles can be colored to match the aesthetics of the environment.
- **Confidence**—Valmont Utility is a global leader in concrete pole research and development, using our own full-scale testing facility.

BETTER MATERIALS & MANUFACTURING

Unsurpassed durability is inherent in concrete. When that same concrete is then put through our industry-leading manufacturing process, it becomes some of the densest, least permeable, strongest man-made concrete in the world. Here's how we do it:

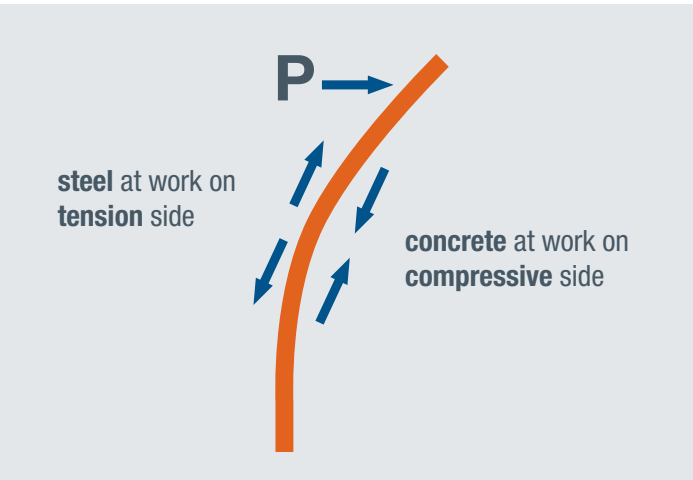
- 1. High strength prestressed steel strands are wrapped with spiral wire and locked into tension plates at each end of the mold.
- 2. The specially formulated, high-strength concrete is placed into the mold.
- 3. The mold is bolted closed, the strand is prestressed, and the mold is spun at a high rate. The centrifugal force generated from spinning compresses the concrete against the mold.
- 4. The finished pole has a hollow center. This provides a lower weight and an outstanding strength-to-weight ratio.



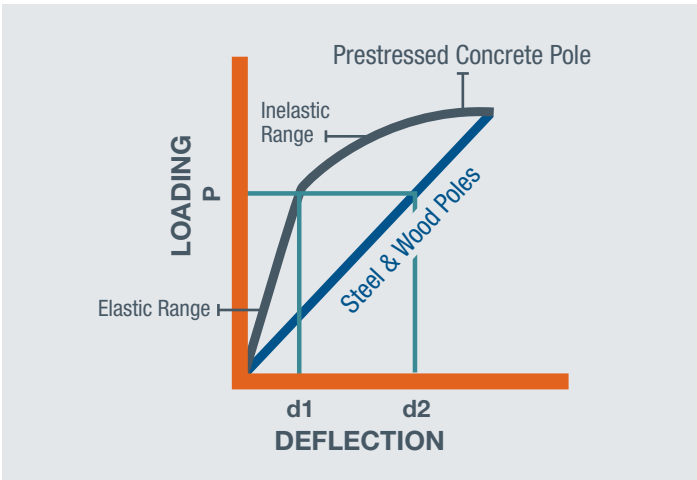
STRONG UNDER PRESSURE

Every hurricane season, Valmont Utility spun concrete poles stand up to extreme winds and flooding. That's because prestressed strands significantly increase strength and resistance to cracking, providing ultimate moment capacities far beyond those found in non-prestressed, static-cast alternatives.

Prestressed Concrete Pole Under Load



Relative Stiffness



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