

PROVEN RESILIENCY

For generations, wood distribution poles have been the norm for power utility companies. But wood poles cannot effectively meet the demand for more resilient and hardened grids. Valmont® Utility created lightweight spun concrete distribution poles as a strong, long-lasting alternative to wood poles. We've created a pole that stands up to corrosive elements, high winds and the most rigorous freeze/thaw standards. In other words, the resilient distribution pole you've been looking for.

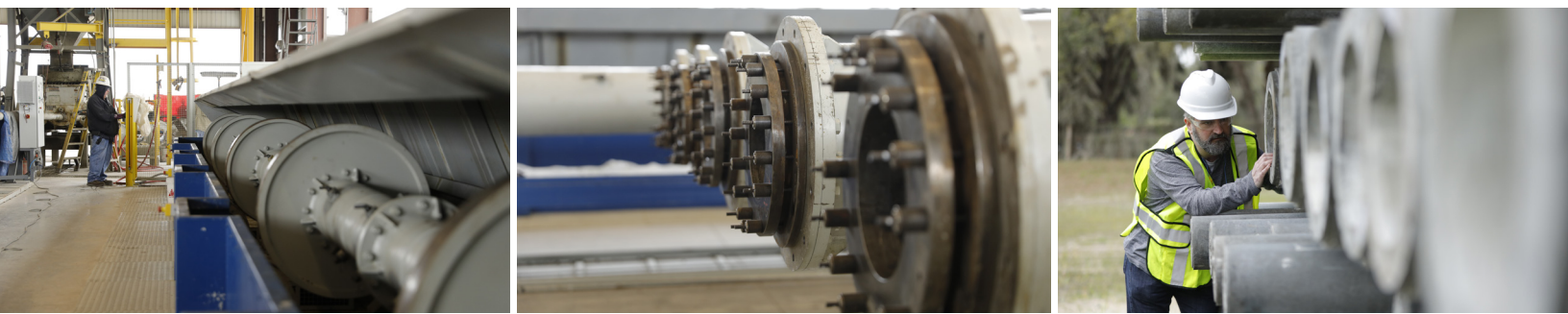


THE VALMONT UTILITY DIFFERENCE

Spun concrete from Valmont Utility offers more than a lightweight distribution pole that can stand up to Mother Nature. You get all of the benefits of spun concrete:

- **Short Lead Time** — Pre-engineered designs combined with readily available raw materials allow for a 6- to 8-week delivery in most cases.
- **Modern Manufacturing** — Using the latest manufacturing technology, we offer high-volume production capacity.
- **Cost-Effective Installation** — The convenience of direct embedment allows pole installations with most standard utility erecting equipment trucks.
- **Virtually Maintenance Free** — No need to dispatch crews to fix rust, spall, rot, degradation or install patches.
- **Confidence** — Because we have our own full-scale testing facility, Valmont Utility leads the world in concrete pole research and development.
- **Framing** — Factory drilled holes and grounding provisions fabricated per customer specification. Field drilling training supported by Valmont.

RAISING THE BAR ON SPUN CONCRETE POLES



Creating a distribution pole that offered both strength and lighter weight was not easy. But the engineers at Valmont® Utility didn't stop until they achieved it. Our proprietary concrete poles were engineered to be the lightest weight in the industry. They were also engineered to provide the maximum strength through the spinning process.

VALUE THAT WOOD POLES CANNOT OFFER

- Resistant to salt, moisture, high winds, insects, rot, fire
- Little to no maintenance
- Custom designs for size and/or strength
- IEEE NESC material strength factor at 1.0 vs. reduced wood strength factors
- Our spun concrete solution weighs 20%-30% less than similar static cast concrete poles
- Shorter lead times
- Direct embedment with no additional foundation required
- Structural engineering support and testing
- Uniform shape and consistent sizing along the pole length
- Grounding provisions incorporated to the steel reinforcement cage designs
- Uniform shape and consistent sizing along the pole length
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LIGHTWEIGHT SPUN CONCRETE MEASURES UP

Lightweight spun concrete distribution poles can be manufactured to meet nearly any specifications. Below is the data for some of our more popular sizes.

Length	Tip Diameter	Butt Diameter	Bury Depth	Pole Weight	GLM Capacity	Pole Weight	GLM Capacity	Pole Weight	GLM Capacity	Pole Weight	GLM Capacity	Pole Weight	GLM Capacity	Pole Weight	GLM Capacity
(feet)	(in)	(in)	(ft)	(lbs)	(kip-ft)	(lbs)	(kip-ft)	(lbs)	(kip-ft)	(lbs)	(kip-ft)	(lbs)	(kip-ft)	(lbs)	(kip-ft)
	Tip Load (lbs.)			2,405		2,925		3,510		4,160		4,876		5,656	
	ALL	ALL		C2		C1		H1		H2		H3		H4	
40	7.75	14.95	6.0	3,300	77	3,400	94	3,400	112	3,500	133	3,600	156	3,800	181
45	7.75	15.85	6.5	3,900	88	4,000	107	4,000	128	4,100	152	4,200	178	4,400	206
50	7.75	16.75	7.0	4,600	99	4,600	120	4,700	144	4,800	171	4,900	200	5,200	232
55	7.75	17.65	7.5	5,300	109	5,300	133	5,400	160	5,500	189	5,600	222	5,900	257
60	7.75	18.55	8.0	6,000	120	6,100	146	6,200	176	6,200	208	6,400	244	6,800	283

NOTE: All Embedment Depths assumed to be 10% of the pole length +2 ft.

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