

Concrete Utility Pole

This concrete utility pole is as light as a wood pole, as strong as a steel pole, and as cheap as a concrete pole. It is designed to lower transportation and installation costs, save space, and save resources.



ADDITIONAL IMAGES



Overview

Ultra-High Performance Concrete Technology

Our UHPC Utility Poles utilize patented technology to deliver ultra-high strength and exceptional durability in a lightweight design. Engineered to outperform traditional steel and standard concrete poles, these structures offer superior resistance to corrosion, cavitation, and abrasion. They provide a cost-effective, maintenance-free solution for modern power transmission and distribution networks.

Performance Metrics

Performance Highlights

50 %

Weight vs Traditional Concrete

3 x

Max Carrying Capacity Increase

60 %

Cost vs Galvanized Steel

Material Properties

Base Material	Ultra-High Performance Concrete (UHPC)
Reinforcement Technology	Accurate positioning and anti-cracking process configuration
Resistance Profile	Corrosion Resistant, Cavitation Resistant, Abrasion Resistant, Saline-Alkali Resistant, Acid Rain Resistant

Applications

Ideal Environments

- Coastal areas with high salt spray
- Inland saline soil regions
- Industrial zones with chemical exposure
- Acid rain prone areas
- Roadways with high salt concentration

Functional Use Cases

- Electric power transmission and distribution
- Angle poles (without stay wires)
- Strain power poles
- Traffic sign poles
- Light poles

Product Variants

Available Categories

Category	Primary Replacement Target
Light Pole	Wood and traditional concrete poles
Super-high Strength Pole	Steel poles and transmission towers

Economic & Environmental Benefits

Economic Advantages

- Reduced transportation costs due to lower weight
- Lower installation expenses
- Maintenance-free or low-maintenance service life
- Significant material consumption reduction

Environmental Impact

Yes