

McWANE POLES



PRODUCT BROCHURE



Contents

- About Ductile Iron Poles 4
- Why Ductile Iron 6
- Testimonials 8
- Pole Sizes 10
- Finishes & Features 14
- Tools & Accessories 16
- Contact 18

STANDING RESILIENT IN AN UNPREDICTABLE WORLD

In an increasingly volatile climate, ductile iron poles are a highly durable and sustainable solution for energy transmission and distribution. McWane Poles is a global leader in manufacturing ductile iron poles, backed by an industry-leading support team.

A GROUNDBREAKING ALTERNATIVE TO CONVENTIONAL UTILITY POLES

Consistent Strength

Unlike wood poles, McWane ductile iron poles are engineered with a minimum yield strength of 42ksi, ultimate yield strength of 60ksi, modulus of elasticity of 24,000ksi, and a minimum percentage of elongation of 10%.

Durability

McWane ductile iron poles have a service life of 75+ years, outlasting both steel and wood.

Low Maintenance

Ductile iron poles give you one less thing to worry about. Because of its strength and composition, ductile iron is highly resistant to wind, storms, and heat from wildfires, as well as completely resistant to rot, insects, freezing weather, and woodpeckers. Maintenance and upkeep are minimal to none.

Simple Installation

Installation is as easy as it gets. Ductile iron poles can be pre-drilled, or if you prefer to drill yourself, it's easy to do so. Many poles can be shipped fully assembled, and others can be shipped in just two pieces and assembled by hand with chain hoists, making them easy to install without heavy machinery.



Environmental Impact

Ductile iron poles are made from 96% recycled material and are 100% recyclable, and unlike wood poles, which are frequently treated with pentachlorophenol, ductile iron is certified to be safe for use in contact with potable water sources. Ductile iron poles weigh less than wood poles and are much lighter than concrete, requiring less energy and fuel to transport and reducing carbon emissions.

Consistent Appearance

McWane Poles are manufactured by centrifugal casting, resulting in highly consistent strength and dimensional control. The consistent appearance of McWane Poles also make them the ideal solution in residential areas, where they can be matched to existing aesthetics and design.

Advanced Metallurgy

Because of ductile iron's advanced metallurgy, it has the physical strength of steel with the corrosion resistance of cast iron. But unlike cast iron, which is brittle, the added magnesium in ductile iron allows it to bend instead of snapping under pressure.

Quality Control

Our manufacturing facility is ISO 9000 certified for quality management, and we employ multiple controls throughout the process. From the melting point of the iron to shipping the final product, our quality control team performs 23 quality checks on every pole, including spectrometer tests, casting thickness ultrasounds, Permasafe wet gauge inspection, and more.



WHY DUCTILE IRON?

SUSTAINABILITY

Sustainability is one of our highest priorities, and McWane Poles are made of over 96% recycled material and are 100% recyclable.

Eco-friendly. From start to finish.

Pentachlorophenol is a manufactured chemical and restricted-use pesticide utilized in industrial applications such as a wood preservative for utility poles. Unlike pentachlorophenol, ductile iron is impermeable to organic contaminants, protecting clean water from environmental spills and the environment from contaminants in wastewater. Our poles are certified by the National Sanitation Foundation (NSF) to be safe for use in contact with potable water sources.

Reducing your carbon footprint.

Ductile iron poles weigh less than wood poles and are much lighter than concrete. Because ductile iron poles are so lightweight and do not require as much energy and fuel to transport, they reduce carbon emissions as well as lower transportation costs.

Reducing deforestation.

Every ductile iron pole saves two to three trees from being cut down, and because ductile iron lasts more than twice as long as wood poles, they don't need to be replaced as frequently, saving even more trees throughout its lifecycle.

FIRE RESISTANCE

Ductile iron poles provide a fireproof, heat-resistant solution for replacing existing lines or expanding service. Ductile iron poles are among the strongest and most fire-resistant utility poles in the United States, more durable than wood and more cost-effective than steel or concrete.

The evidence from independent tests on ductile iron poles concluded the following:

- Ductile iron utility poles proved to be fireproof*, heat resistant, and able to sustain loads well beyond requirements before failure, even after being subject to excessive heat over a sustained amount of time.

- In areas with an increased risk of wildfires, ductile iron utility poles would withstand extreme and prolonged fire/heat applications and heavy loading and emerge undamaged and completely intact.
- Ductile iron poles should be considered by utility companies with distribution and transmission lines in wildfire risk areas for replacement or expansion.

*As demonstrated by the Western Center Fire Center Test and EDM Full-Scale Burn and Bend Test.

LINE HARDENING

Harden your lines and reduce damage.

By hardening your lines, you reduce the risk of cascading failure. Ductile iron poles are engineered for consistent strength, with a minimum yield strength of 42ksi and the ability to bend without breaking under intense load pressure. They are extremely durable as well, outlasting wood and steel with a service life of over 75 years. Because they are resistant to corrosion, they are the perfect solution for extreme weather events.

CORROSION RESISTANCE

Ductile iron is engineered to be proven in corrosive environments. When ductile iron is exposed to oxygen, it forms an oxide layer that protects the metal from further corrosion, resulting in a service life of 75 years or more, which is at least 50 - 100% longer than weathering steel.

Ceramic-epoxy embedment coating.

All poles come with a ceramic-epoxy embedment coating that is applied from one foot above the ground line, down to the base of the pole, and on the inside and outside of the pole. The ceramic-epoxy coating has been used to protect ductile iron in waste pipe applications for decades. The coating will not undercut or peel off, and it is much more robust than urethane coatings.

Resistant to woodpeckers.

Woodpeckers wreak havoc on wood utility poles. They can burrow as deep as four feet into the core of a pole to build their nests,

and they rarely use the same nest twice. Just a few woodpeckers can severely compromise the strength of wood poles, making them vulnerable to storms and weather events. Ductile iron, on the other hand, is impervious to woodpeckers, making them a durable, long-lasting solution in climates where woodpeckers roost.

Mitigating ground line rot.

Wood poles have always been susceptible to ground line decay, and as legislators take action against wood-preserving chemical treatments that leach into the ground and cause serious harm to communities, wood poles have an even shorter lifespan in humid, wet environments. Thanks to the Permasafe finish of our ductile iron poles, they will not rot like wood or rust like steel. That's why our poles have been installed near water sources, like lakes, rivers, and oceans.

TESTIMONIALS

“The separate pieces make it easier to set. We don’t jack the poles together before install. We install the base, then the tops. This is easier because the weight is less. As well, we can set several bases and then go back and set the tops. This makes for smaller outage windows.

“Their resistance to the elements was critical. Probably our greatest contributor to early deterioration for poles is woodpecker infestation. These poles are able to solve that problem.



FINISHES & FEATURES

Pole Cap Options



Raptor Cap

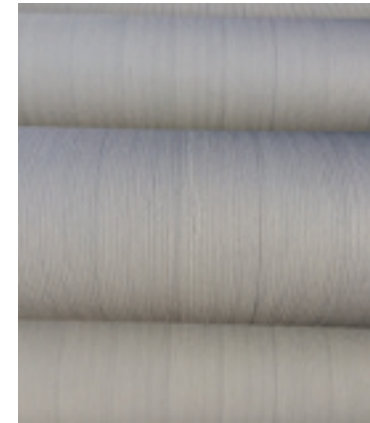
- Up to Class H8
- Applicable for bird issues in certain locations



Flat Cap

- Available in all sizes
- Applicable for bird issues in certain locations

Pole Finishes



Coated Finish

- Arc-applied zinc base coat with acrylic topcoat
- Available in gray, black, and brown
- Ideal for urban environments or customers using a hybrid line



Weathered Finish

- Self-protecting
- Great for environments to blend in with other wood poles, woods, and forests

Nameplates



We know that being able to easily identify our poles in the field is important, so each pole is equipped with a nameplate that contains pertinent information related to that specific pole.

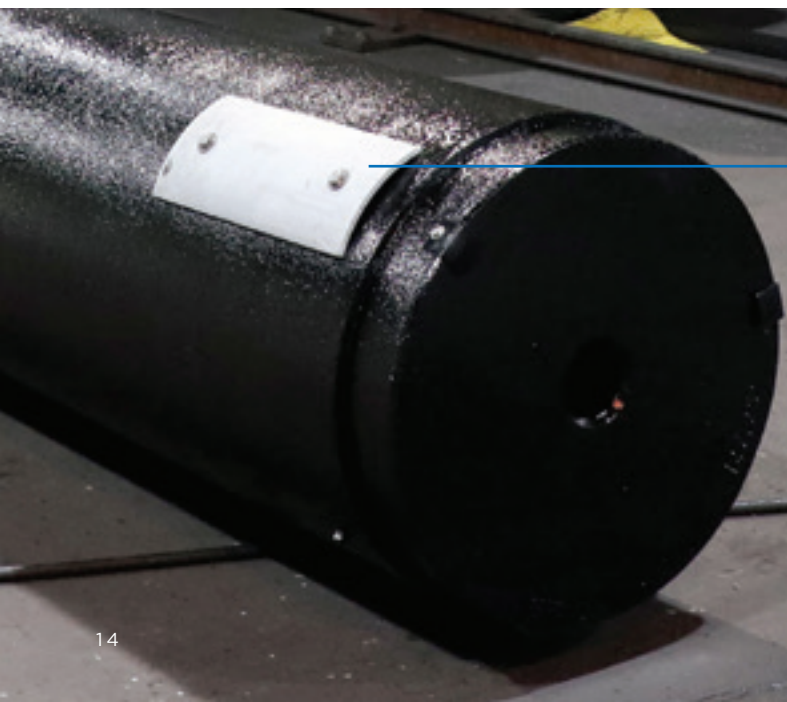
Ground Plates

- No pole ground wire is needed, as the pole can act as its own ground and grounding plates can be added for additional protection, according to your utility's standards
- Integrated ground plates can be provided upon customer request
- Ground plates are used in some cases for added grounding protection

Ground Protection

Ceramic Epoxy

All poles come with a ceramic-epoxy embedment coating that is applied from one foot above the ground line, down to the base of the pole, and on the inside and outside of the pole. This is used to protect ductile iron in waste pipe applications and will not undercut or peel off.



RECOMMENDED ACCESSORIES & TOOLS

Hole Plugs



Hole Plugs PLP-0750B (Black)
PLP-0750G (Gray)

Jacking Kit



Jacking Kits Available for Purchase from
McWane Poles

Poles that are
75' or taller will
arrive in two
pieces. Jacking kit
will be required.



VersaDrive® TCT HoleCutters

VersaDrive TCT HoleCutters are a high-performance solution for cutting larger diameter holes quickly and effectively.



Recommended for Use With:

Rotary drills only
Not for use with impact tools

- HMT 101030-0170 VD TCT Holecutter 11/16"
- HMT 101030-0210 VD TCT Holecutter 13/16"
- HMT 101030-0240 VD TCT Holecutter 15/16"
- HMT 101030-0250 VD TCT Holecutter 1"



HMT 101030P-0001 VD TCT Holecutter Pilot Drills,
2 Pack

VersaDrive® 1/2" Rapid-Lock Impact Wrench Adapter

HMT 111130-012A

This upgraded VersaDrive Impact Wrench adapter features:

- New Rapid-Lock, single-handed loading action
- Improved Quick Release
- High-quality, heavy-duty steel components
- Converts standard 1/2" impact wrenches for use with VersaDrive



Please contact Tanner for orders:

Tanner PHONE 718-434-4500
WWW.TANNERBOLT.COM

IMPACT RATED TOOLS

VersaDrive® TurboTip Impact Drill Bits

HMT 209016-0040

High-Grade Tool Steel / Titanium Coating



Pilot bit for 1/2" Drill & Tap

1/2"-13 VersaDrive® Heavy Duty Impacta Drill & Tap Combo

HMT 301140-0001

VersaDrive Heavy Duty Impacta-Drill Taps are an industrial metalwork or fabrication tool for drilling and tapping heavy steel.



13/16" VersaDrive® ImpactaStep Cutter

9/16, 5/8, 11/16, 3/4, 13/16

HMT 506030-0020

A VersaDrive exclusive innovation, the ImpactaStep Cutter offers combined drilling and reaming on materials up to 1/2" thick.



Featuring five individual cutting diameters and a straight flute design for strength and easy resharpening.

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GENERATIONS

OF EXCELLENCE

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POLES**