

Foundations for Oil & Gas

High Quality Foundations For Oil, Gas and
Other Processing Industries
Safe, Trusted and Manufactured in the USA

magnumpiering.com
800-822-7437

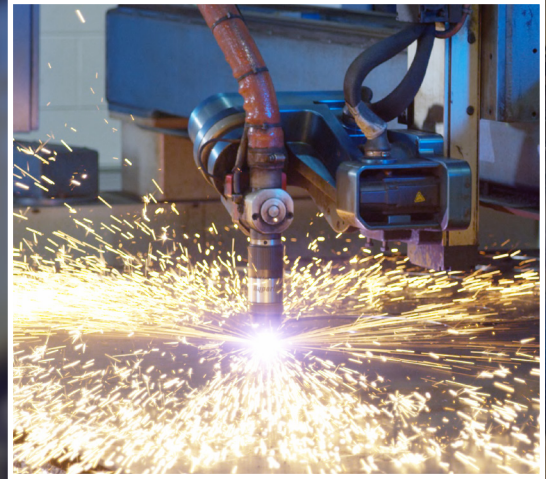
MAGNUM[®]
PIERING
designed to support

Fabrication & Quality Control

“...these foundations undergo continuous, multi-step, quality control process including 3rd party inspections.”

MAGNUM's Difference

MAGNUM's process industry foundation systems are designed to order to ensure compatibility with any equipment, skid, pipe arrangement or larger foundation system. Steel foundation systems utilizing helical piles offer extremely versatile solutions for your project; overcoming difficult site conditions and increasing production rates for difficult schedules. MAGNUM® Helical piles can be installed quickly with no vibration and no soil spoils. All-steel foundation systems do not require any curing time, allowing for immediate pipe or equipment installation. Helical piles can be smaller than single concrete caissons and require minimal crew and installation equipment. These pile systems can be installed in congested areas with low headroom to minimize outages. All of this means mobilization costs and schedules are reduced and up-time is increased. Rapid construction times can be as little as a single day.



Fabrication and Quality Control

MAGNUM® foundation systems are manufactured in the USA according to our ISO 9001 approved Quality Program. Each part of these foundations undergo a continuous, multi-step, quality control process including 3rd party inspections. With highly skilled crews of fabricators, manufacturing turnaround can meet even the tightest schedules.



**Quality,
Designs,
Constructibility,
Experience,
and Safety
You Can Trust**



On Schedule

Shipping and Logistics

Timely and efficient job site deliveries are critical for keeping construction projects on schedule. Leveraging the latest technologies can provide real-time visibility, optimize routing, and streamline logistics operations, ensuring materials and equipment arrive precisely when needed.

All of Magnum's foundation systems are manufactured to order in Cincinnati, Ohio. Our 140,000+ square foot fabrication facility operates state of the art equipment increasing our manufacturing times and enabling us to better control quality.

Clear and consistent communication with suppliers and carriers is another essential aspect of efficient job site logistics. Our proactive communication ensures that all parties involved are aware of the delivery schedules, site access requirements, and any specific handling or storage needs.



Buy American Act

All MAGNUM® Piering, Inc. products are manufactured in the United States. The raw materials used to produce our products are manufactured in various United States Steel Mills. All materials meet all provisions of the Buy American Act.

If you have any questions or need any further information please do not hesitate to contact me.

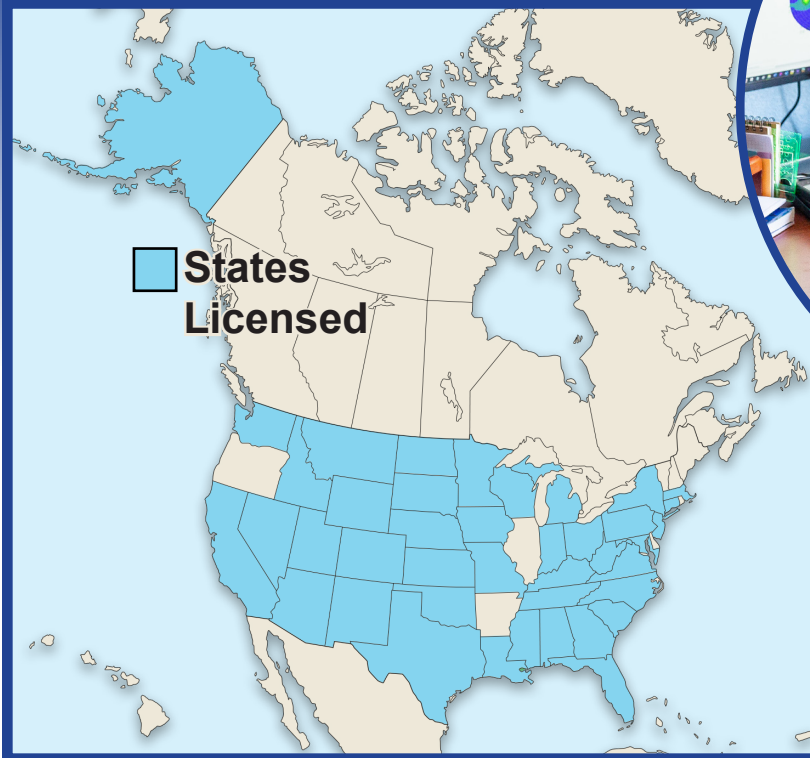
Thank you,

Todd Paddock
Vice President Manufacturing
Office 513-759-3348 ext. 237

MAGNUM[®] Geo-Solutions

Engineering Services

Licensed in nearly all states and equipped with a growing database of over 3,000 project sites, Magnum's staff of foundation engineers are able to apply its experience to assist projects throughout the United States. From support during bidding and design process to turn-key industrial foundation designs, load testing, and field observation, they ensure quality all the way through to project completion. Trust is their goal.

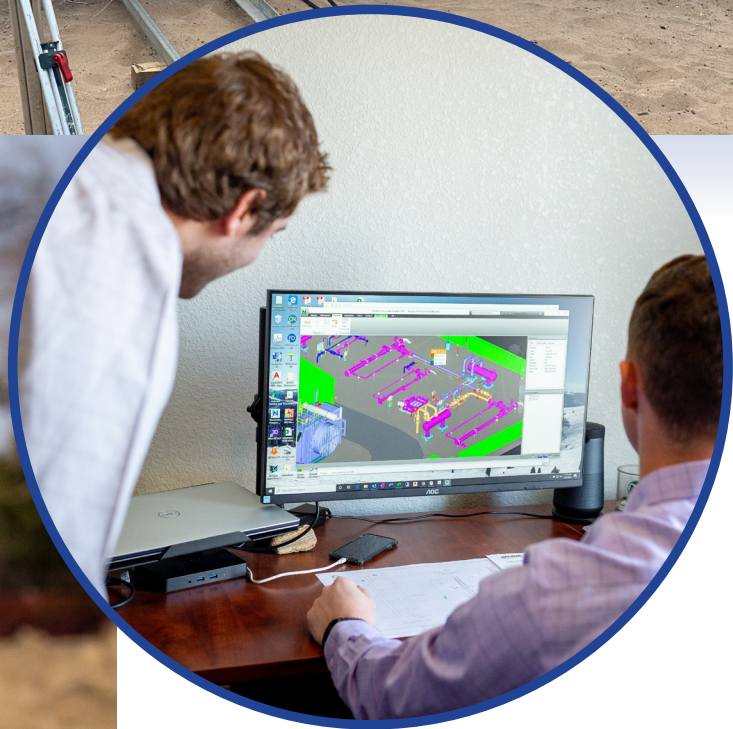


Typical Projects

- Midstream processing equipment foundations
- Process piping & pipeline supports
- Structural steel support frames & foundation
- Foundation repair and underpinning
- New construction piles
- Tension anchors
- Highway and bridge repairs
- Tiebacks, Shoring
- Concrete-less foundations
- Slab lifting and void filling
- Earth anchors and slope stabilization
- Retaining wall design
- Load testing assistance
- Structural Steel Support Frame



Tested - Proven



Services:
Compression Load Testing
Tension load Testing
Lateral Load Testing
Site Observation
Quality Control

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Helical Piles

Precision-Engineered Helical Pile Solutions for Any Project

Our helical pile solutions are designed to meet the demands of any commercial project, offering the largest variety of helical sizes in the industry, including fully customizable options to suit your specific needs. With value-engineered designs, our piles ensure efficient, **safe, and cost-effective** installations—even in limited-access areas.

Unlike traditional deep foundation methods, helical piles **eliminate the need for concrete or grout**, produce no ground spoils, and still deliver exceptional load-bearing capacities. Their high production rates keep your project on schedule, minimizing downtime. We also offer a variety of pile cap connection options to accommodate diverse structural requirements.

Designed for rapid and precise installation in **challenging soil conditions**, our helical piles feature a **patented Dual Cutting Edge Helix**, allowing them to cut through tough materials effortlessly. Combined with our moment-balanced helices, this innovation ensures superior accuracy, stability, and minimal displacement, preventing pile walking or wobbling during installation.

From high-capacity foundations to specialized applications, we provide expertise, innovation, and reliability to support your project's success.



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Advantages:

Capacities of 250 tons and higher

Variety of Pile Cap connection options.

Value Engineered Designs

High Production Rates

No Spoils, No Concrete or Grout, Clean

Limited Access Installs

Smaller Crew Size

SAFE!

Plate Cap

Extension

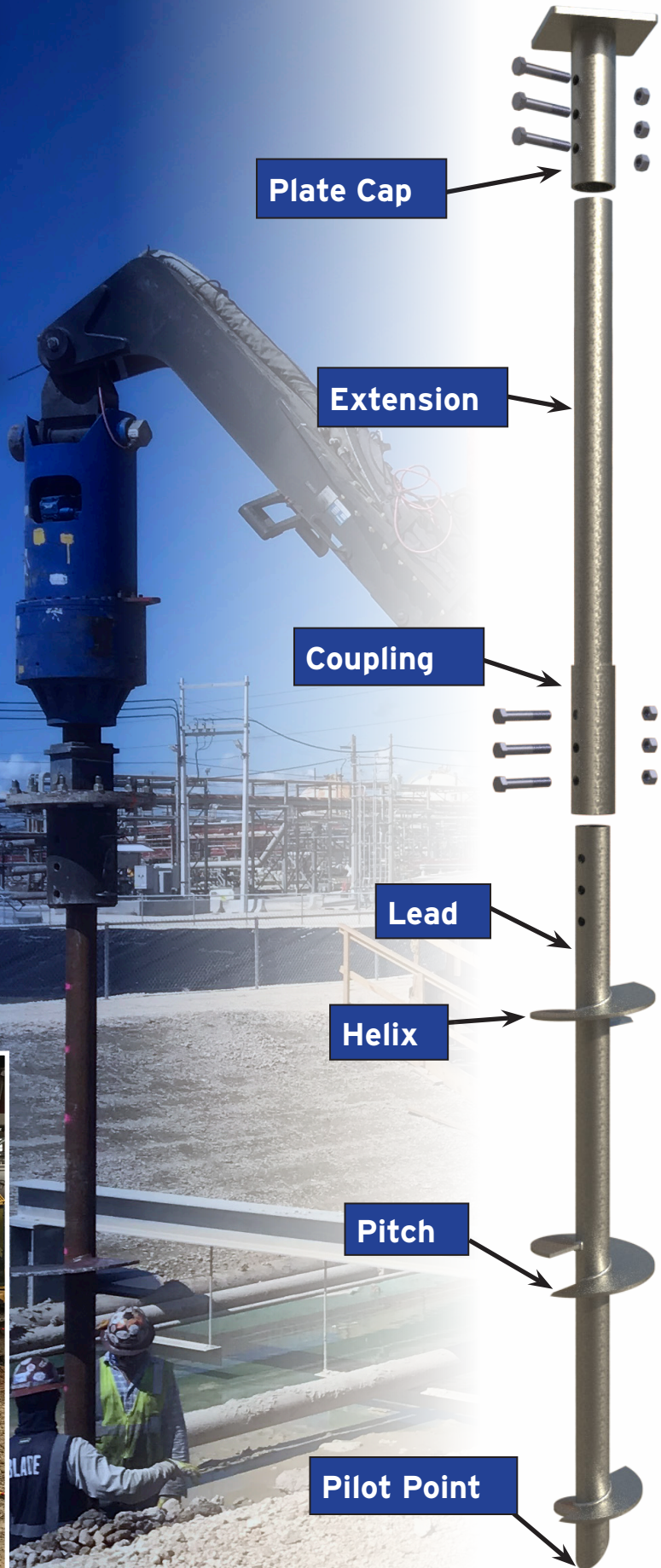
Coupling

Lead

Helix

Pitch

Pilot Point



Oil Field Equipment

Helical Foundations for Upstream & Midstream Equipment



In the **upstream and midstream** sectors of the oil and gas industry, reliable foundation systems are critical for supporting essential equipment used in exploration, drilling, extraction, and processing. MAGNUM's fully customizable helical pile solutions provide a strong, stable, and long-lasting foundation for a wide range of equipment, ensuring optimal performance in even the most challenging environments.

With **minimal installation time** and superior load-bearing capacity, our helical foundations excel in harsh, remote, and limited-access locations, including offshore platforms, arctic permafrost, deserts, and seismic zones. Their ability to withstand **extreme environmental conditions** and heavy dynamic loads makes them the ideal choice for securing vital oil and gas infrastructure.

Unlike traditional foundation methods, MAGNUM's **helical piles require no concrete**, reducing material costs, minimizing crew requirements, and streamlining installation. With fast installation, minimal site disturbance, and unmatched durability, our foundation solutions help keep oil and gas operations running efficiently while lowering overall project costs.

Trust MAGNUM® for precision-engineered **foundation solutions** that support your equipment and keep your operations moving forward.



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Oil Field Equipment Supported on Helical Piles:

- Compressor Stations
- Pipe Risers
- Stack Flare
- Heater Treater
- MCC Building
- Flare Knockout
- PPU – PW - LACT Skid
- Injection Skid
- PPF Separator
- In Line heater
- Pipe Supports
- Vertical and Horizontal Vessels
- Storage Tanks
- Communication Towers
- PCR Buildings, Platforms
- Filter Separator
- Instrument Rack
- Ladders
- UM and By Pass Skids
- Meter Skid Canopy
- Regulator Skids and Canopy
- GC Enclosure and Buildings
- Gas Dehydration Unit
- Cooler Enclosure
- Drill Platforms and Anchors
- Flow Control Skids
- Launcher and Receiver Skid
- Regan Skid
- Driven Generators
- Microturbine Power Units
- Cable Tray Supports
- Conduit Risers



Pipelines

Reliable & Cost-Effective Pipeline Foundations with MAGNUM®

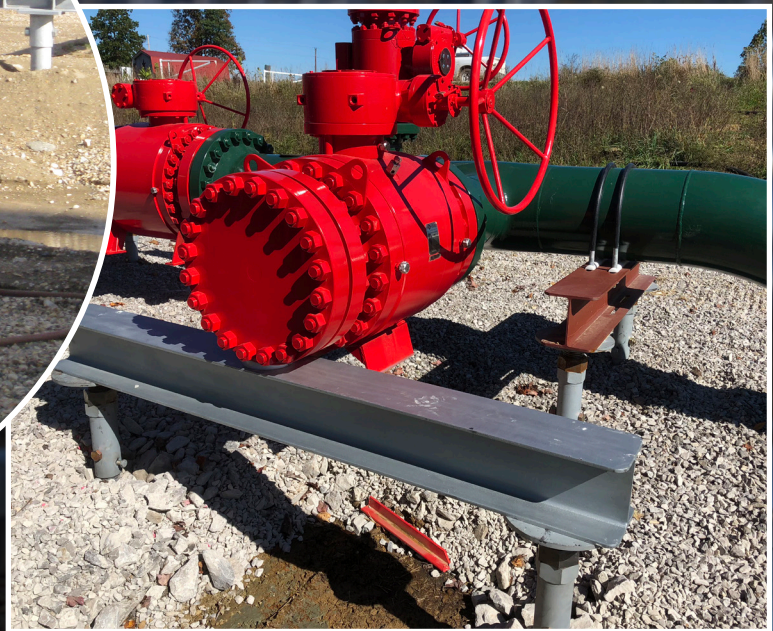


Installing stable foundations for pipelines in **remote and challenging terrains** can be difficult. Limited access for heavy equipment and the high cost of traditional concrete foundations further complicate the process. Unstable ground conditions create obstacles that can lead to pipeline shifting, ruptures, and costly environmental damage. Ensuring proper support is critical to preventing leaks and minimizing long-term maintenance costs.

MAGNUM® **Helical Piles & Pipe Supports** offer a proven, cost-effective alternative to traditional concrete footings. These engineered deep foundation solutions function like giant screws, anchoring securely into the ground to provide immediate, load-bearing support. Integrated pipe support end caps ensure pipelines remain stable, aligned, and protected, even in unpredictable soil conditions. MAGNUM's **variety of pipe support caps** can be utilized with a large number of the most common pipe straps being used in the industry.

Unlike traditional concrete foundations, helical piles require **minimal equipment and labor**, making them ideal for projects in remote or logistically challenging locations. With fast installation, minimal environmental impact, and **no need for concrete**, MAGNUM® Helical Piles help pipeline projects stay on schedule and within budget, making them the superior choice for securing pipeline infrastructure in even the most demanding conditions.

Choose MAGNUM® for durable, efficient, and innovative **foundation solutions** that keep your pipelines safe and secure.



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Significant advantages over traditional concrete foundations

Faster Installation – Helical piles can be installed quickly with minimal equipment and labor, eliminating the need for excavation, formwork, and concrete curing, which can delay projects.

Lower Cost – By eliminating the high material and labor costs associated with concrete foundations, helical piles provide a cost-effective solution that reduces overall project expenses while maintaining durability and reliability.

Unmatched Accessibility – Compact installation equipment allows helical piles to be placed in remote, environmentally sensitive, or hard-to-reach locations—where concrete trucks and heavy machinery simply can't go.

Enhanced Stability – Magnum® Helical Piles are engineered to provide outstanding load-bearing capacity, offering superior resistance to compression, tension, moment, and lateral forces, ensuring long-term structural integrity in even the most challenging conditions.

MAGNUM® Helical Piles are already revolutionizing oil and gas infrastructure, supporting pipelines, well pads, and throughout production facilities with versatility, reliability, and cost efficiency. Whether your project is in a remote location, MAGNUM® Helical Piles provide the smartest, most efficient foundation solution available.

Build faster. Build smarter. Build with MAGNUM®.



Storage Tanks

Helical Pile Foundations for Storage Tanks



MAGNUM® Helical Piles provide a superior foundation solution for storage tanks, offering high load-bearing capacity and **stability in congested or challenging environments**. Their design—combining helical bearing plates with high-strength steel shafts—ensures resistance to settlement and shifting soils, making them ideal for heavy tanks and critical infrastructure.

Designed for high load demands, helical piles achieve embedment in an underlying suitable soil stratum for long-term structural integrity. Unlike traditional pile driving methods, **installation is fast, quiet, and vibration-free**, minimizing disruption to neighboring structures and their foundations or in environmentally sensitive areas.

With minimal environmental impact and proven performance, MAGNUM® Helical Piles deliver a cost-effective, **durable foundation solution** for storage tanks in any location.

Choose MAGNUM® for strength, efficiency, and reliability.



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Facilities

Helical Pile Foundations for Oil & Gas Facilities



MAGNUM® Helical Piles deliver **exceptional load-bearing capacity**, making them ideal for supporting heavy structures and equipment in oil and gas operations. Their innovative helical design and deep soil anchoring provide superior stability and resistance against lateral and uplift forces, which is essential in seismic zones and challenging soil conditions. Additionally, their removable nature allows for **efficient decommissioning** and site restoration, supporting the industry's commitment to sustainability.

Key Design Considerations for Helical Pile Foundations:

Load Requirements – Ensuring piles can support the anticipated structural loads throughout the facility's operational life.

Environmental Conditions – Addressing site-specific challenges, including climate, accessibility, and sustainability goals.

Soil Conditions – Evaluating subsurface materials to optimize pile design and performance.

Seismic Considerations – Engineering solutions to mitigate movement and enhance stability in earthquake-prone regions.

Determining load capacity is critical to ensuring the **structural integrity and safety** of oil and gas facilities. Advanced design methods predict performance under operational loads, while pile load testing verifies capacities, providing confidence in long-term foundation reliability.



With proven durability, rapid installation, and minimal site disturbance, MAGNUM® Helical Piles offer a cost-effective, sustainable **foundation solution for oil and gas** facilities worldwide.

The installation process for MAGNUM® Helical Piles is fast, efficient, and minimally invasive, reducing site disturbance and the carbon footprint associated with traditional foundation methods. A helical pile is screwed into the ground using a torque motor—a process that can be completed in **low overhead spaces** without producing drill spoils or vibrations.

Helical piles are revolutionizing oil and gas infrastructure. Their versatility and cost-effectiveness make them an ideal solution for:

- **Process equipment foundations**
- **Offshore platforms**
- **Pipeline support systems**
- **Temporary structures for exploration and production**

As the energy sector evolves, the demand for efficient, adaptable, and sustainable foundation solutions continues to grow. MAGNUM® Helical Piles provide the strength, speed, and flexibility required to meet these changing infrastructure needs, ensuring **long-term performance** in even the most challenging environments.



Our Experience




ConocoPhillips


RICE ENERGY


TC Energy

MOTIVA

DT


Williams®


LYB LyondellBasell


ENBRIDGE®


VAVCO EO
American Energy Independence

KINDER MORGAN
Delivering Energy. Improving Lives.


OLYMPUS ENERGY


SUNCOR
ENERGY


ONEOK


Shell





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