

POWER | PIPELINE | STRUCTURAL | MINING

# BendTec

FABRICATION & BENDING



# WE HAVE A REPUTATION. WE'VE EARNED IT.

In the more than 90 years we've been in business, we've earned our reputation as a high-quality, technically sound steel bending and fabricating company.

## Engineering

Our material procurement, design and engineering groups form an experienced and innovative force in the planning and project execution of pipelines, power plants, buildings, bridges and mining projects.

## Bending

Our bending experience is second to none, with the world's largest, custom-designed bending machines capable of bending pipe as large as 66 inches in diameter, and wall thicknesses up to 6 inches, as well as a wide array of structural shapes.

## Fabrication

Our core fabrication centers—cutting, machining, welding—and our blasting, painting and NDE equipment complement our bending abilities and allow for comprehensive solutions in support of reducing onsite labor. With our 160,000-square-foot facility and five acres of storage, we have the space to accommodate any job, large or small.

At BendTec, we are proud of our reputation as a company dedicated to the successful completion of the project as a whole—we provide certainty of outcome. We welcome the opportunity to further establish our well-deserved reputation with you.





# POWER

We recognize and understand the complexity of power piping systems.

We monitor the global material market. BendTec Quality Assurance and Engineering personnel travel the world auditing pipe mills and fitting manufacturers and consumable suppliers.

Our induction bending equipment can produce very tight radius bends with no thinning of the extrados, reducing field welds and installation costs.

Our in-house laboratory allows us to monitor both mechanical and metallurgical properties—like P-91 grain structure—and guarantee the preservation of critical, performance-related properties. With three massive heat-treating furnaces—all capable of normalizing chrome bends and spools—we are able to provide full-furnace normalizing and tempering of large assemblies.

We assist our clients in reducing field labor, resulting in reduced installation costs. We excel at supplying oversized spools, which reduces onsite heat treating and field welds.

## NEW CONSTRUCTION AND PIPING REPLACEMENT PROJECTS:

- ❖ Combined-cycle fabrication
- ❖ Coal-fired fabrication
- ❖ Rubber-lined ash disposal piping
- ❖ Reheat replacement piping
- ❖ Abrasion-resistant coal piping
- ❖ Carbon, low-alloy, stainless, CSEF

## TRAINED AND TESTED IN OUR METALLURGICAL LABORATORY

Our welders are capable of meeting the requirements of fabrication standards, such as **ASME Sections I and VIII, B31.1**.

## BENDTEC WELDERS ARE CERTIFIED FOR:

- ❖ Submerged arc
- ❖ Gas metal arc
- ❖ Gas tungsten arc
- ❖ Flux core welding

With in-house heat-treating furnaces, BendTec can heat treat components measuring up to 50 feet in length, 20 feet in width and 14 feet in height. Temperatures over 2000 degrees F allow for the full-furnace normalizing and tempering of P-91 chrome bends.





# PIPELINE

BendTec is the most experienced pipeline bending company in North America with over 70,000 induction bends in service. Our custom-designed/built bending machines are capable of bending in excess of X-80 grade pipe with minimum thinning and distortion, and in many cases, we actually improve the mechanical and metallurgical properties of the mother pipe.

We offer services that make your job easier, like segmentable bends in standard angles that may be trimmed to exact requirements in the field. This eliminates the need to accurately survey a pipeline's every change in direction prior to soliciting bending proposals.

We encourage our clients to take advantage of our unrivaled experience and technical expertise in the project development stage, so we can provide our clients with assistance in the development of project-specific induction-bending procedures and material procurement efforts.

## WE CAN SUPPLY:

- ❖ Jumper and riser sub-sea piping
- ❖ Pipeline launchers and receivers
- ❖ Station piping
- ❖ Offshore platform piping

## OUR ENGINEERING EXPERTISE IS BACKED BY A FULLY EQUIPPED IN-HOUSE METALLURGICAL LABORATORY that allows us to develop and test bending procedures, with:

- ❖ Tensile testing equipment
- ❖ Charpy impact tester
- ❖ Hardness testing
- ❖ Photomicrograph equipment

## FINISHING FACILITIES ALLOW FOR:

- ❖ Internal and external blasting
- ❖ Priming and painting
- ❖ Sophisticated coating applications, such as fusion bond epoxy



# STRUCTURAL

From your architectural/structural drawings, we can create detailed fabrication specifications. We also perform complex engineering that satisfies project-specific design/engineering requirements. Our accomplishments include landmark and signature bridges as well as modern bridge structures.

We can bend steel shapes that are square, rectangular and multi sided, including channels, I-beams, rails and wide flanges, plus almost any customized cross section. We have the ability to bend large-diameter structural steel with tight tolerances. Our processes minimize construction time and provide a product that exceeds industry standards.

## **BENDTEC OFFERS COMPLETE SERVICES FOR YOUR STRUCTURAL STEEL NEEDS.**

- ❖ Detail
- ❖ Fabricate
- ❖ Paint/coat
- ❖ Ship to worldwide destinations via truck, barge and rail

## **ARCHITECTURAL PRODUCTS**

- ❖ Bent structural piping tube shapes
- ❖ Light/power poles
- ❖ Vierendell trusses
- ❖ Parabolic arches
- ❖ Window mullion
- ❖ Signs
- ❖ Bridge structural members
- ❖ Long radius bends

## **NOTABLE PROJECTS:**

- ❖ Damen Avenue Arch Bridge, IL
- ❖ Dallas Convention Center, TX
- ❖ Hayden Planetarium, NY
- ❖ Cady Way Trail Bridge, FL
- ❖ Penobscot Narrows Bridge, ME
- ❖ Thurston Avenue Bridge, NY
- ❖ McCaslin Pedestrian Bridge, CO



AISC-certified since 2000 to fabricate steel for Steel Building Structures, Simple Steel Bridges and Major Steel Bridges Fracture Critical Endorsement  
Sophisticated Paint Coating Endorsement





# MINING

We've supplied piping for mining companies across the globe, from Minnesota's Iron Range to Indonesia, from the Tar Sands to South America.

With direct access to the largest inland seaport in the United States, we can ship vast volumes of spools, including massive, oversized modules. Our induction bending abilities allow us to supply 180-degree returns for choke stations as well as long radius bends for tailings and slurry lines.

Our comprehensive engineering services allow us to design and fabricate sophisticated conical or spherical spools capable of tying in multiple lines with reduced stress.

We select the optimum design and fabrication techniques to meet your service conditions. To further complement your system design, we offer rubber, urethane or ceramic lining to prevent erosion of piping.

**BENDTEC FURNISHES PRESSURE-RETAINING COMPONENTS AND PIPING SYSTEMS** for slurry pipelines, choke stations and process plants.

Our products are designed to meet **ANSI-B-31.11, OR API STANDARDS.**



TO GET THE JOB GOING, CALL US TOLL-FREE AT 1-800-BENDTEC.

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FABRICATION & BENDING

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