Hollow Structural Sections (HSS)

About Atlas Tube

Atlas Tube, a division of Zekelman Industries, produces a wide range of steel tubular products and is the leading provider of hollow structural sections (HSS) in North America. Other offerings include HSS Design Tools, straight-seam electric resistance weld (ERW) pipe piling and Epox Z Kote powder primed tubing.

For more information, contact Atlas Tube at 800.733.5683 or info@atlastube.com. Or, visit our website at atlastube.com.

Follow us on twitter.com/atlastube, linkedin.com/company/zekelman-industries, youtube.com/ZekelmanIndustries, atlastube.com/atlas-observer.

ATU-031821

BROAD & DEEP TECHNICAL RESOURCES

The Atlas Tube technical team is recognized across industries for its steel expertise. If you’re in construction, Atlas structural engineers can provide information and inspiration. If you’re in manufacturing, energy exploration or mining, Atlas metallurgists have wide-ranging industry experience.

For total quality assurance, Atlas personnel monitor the production process at every step and provide full traceability from hot-rolled coil to finished product—plus tensile testing, spectrographic tube analysis, metallographic analysis and Charpy testing.

QUALITY MANUFACTURING

All Atlas Tube facilities manufacture to both U.S. and Canadian specifications. Atlas is the North American member of CIDECT, an international association of HSS producers.

STRONG ENVIRONMENTAL COMMITMENT

Atlas Tube is continuously working to increase recycling and reduce use of harmful chemicals and solvents. In addition, our facilities are looking for ways to become more energy-efficient. From installing new lighting fixtures in the plant to establishing a formal recycling program, from planting trees to using solar energy to help power one of our manufacturing facilities, Atlas Tube is committed to the environment.
In addition to delivering high-quality HSS product, Atlas Tube has a well-earned reputation for supporting customers with the most innovative thinking and services available.

The ATLAS CUSTOMER SERVICE PORTAL

To improve ordering efficiency and scheduling accuracy, the Atlas e-commerce system uses EDI and SAP electronic information technology to let you view order and inventory status, test report data and more—in real time. The live chat feature allows you to easily connect with a customer service representative.

24/7 CUSTOMER INVENTORY MANAGEMENT PROGRAM

Our vendor-managed inventory program lets you check on product availability 24/7 and adjusts daily to information from distributor-customers to improve inventory turnover and on-time delivery.

WORLD’S BEST HSS DESIGN TOOLS

Atlas Tube gives you access to industry-leading HSS design tools from CIDECT, the Steel Tube Institute (STI) and the American Institute of Steel Construction (AISC). See the Atlas website for more information.

Atlas makes HSS information easily accessible online. Our website gives you access to HSS products, solutions and downloads such as capability charts, fact sheets and brochures. Our blog, the Atlas Observer (atlastube.com/atlas-observer).

Our ongoing educational video series, "Designing with HSS," is available at atlastube.com/designing-with-hss as well as on our YouTube page (youtube.com/ZekelmanIndustries). You can follow us on Twitter (@AtlasTube) for up-to-the-minute news and updates.
Shaping the Future

Today, leading designers, engineers and fabricators continue to find new, inspired uses for hollow structural sections (HSS). HSS are increasingly specified for more applications across more industries. HSS are already an integral part of buildings, bridges, stadiums and structures of all kinds, public and private. HSS are used by manufacturers in a variety of OEM applications, including heavy equipment. And in the booming oil and gas industry, HSS can be found in oilfield construction across the continent.

1. Clinton Presidential Library, Little Rock, Arkansas
2. Peak 2 Peak Gondola, Whistler, British Columbia
3. AT&T Stadium, Dallas, Texas
4. University of Waterloo, Waterloo, Ontario
5. Griffiths Pedestrian Bridge, Burnaby, British Columbia
6. SkyDance Bridge, Oklahoma City, Oklahoma
7. Tunica RiverPark, Tunica, Mississippi
8. Ski jump manufacturer, Whistler, British Columbia
Solving the Challenges

Atlas HSS services reduce total construction project costs for labor, installation, shipping, administration and manufacturing. Atlas HSS help you do more—with less steel and less weight. Atlas products are also used in OEM product applications such as agricultural equipment, automotive, construction equipment and solar.

ATLAS HSS: MADE FOR THE 21ST CENTURY

- High strength-to-weight ratios
- Uniform strength
- Cost-effective
- Aesthetically appealing
- Highly recyclable
- Easily coated or painted
RESISTING TORSION
Atlas HSS deliver exceptional torsional resistance. The torsional constant of HSS is 200 times greater than that of an open section. HSS are an ideal choice for curved members, edge members that support eccentric loads, or any other members with high torsional loads.

PERFORMING MORE EFFICIENTLY
Atlas HSS offer an excellent strength-to-weight ratio, which allows for more efficient utilization of the cross section, greater axial capacity, and longer spans. Atlas is the exclusive North American supplier of Jumbo HSS with sizes in squares up to 22", rectangles up to 34" x 10", and rounds up to 28" OD, all with wall thickness up to 1", further enhancing Atlas’ size range capabilities. Jumbo HSS meet both ASTM A500 and CSA G40 standards.

DELIVERING MORE FOR LESS
Atlas HSS provide exceptional structural support, sometimes with less steel required to do the job. The Atlas mission to “satisfy customer needs in the quickest, most cost-effective manner” drives us to look for ways to take costs out of every stage of the process.

REDUCING LABOR COSTS
Atlas HSS are available with Epox Z Kote®, an advanced, proprietary coating that saves time, labor and material costs.
Industry Leader

Founded in 1984, Atlas Tube is the leading North American producer of HSS. Today we’re known throughout North America for our capabilities in hollow structural sections (HSS), the quality and breadth of our product lines, and our exceptional product and technical expertise.

WHY ATLAS TUBE?

- Exceptional manufacturing flexibility
- Shortest cycle times in the industry
- Breadth of value-added services
- Largest HSS size ranges
- Exclusive provider of Jumbo HSS

UNEQUALED MANUFACTURING EFFICIENCIES

Atlas Tube’s six state-of-the-art facilities are equipped with “quick change” technology that provides the shortest cycle times in the industry and exceptional manufacturing flexibility.

With a total annual capacity of more than 1 million tons, Atlas plants are strategically located in Harrow, Ontario; Blytheville, Arkansas; Winnipeg, Manitoba; Chicago, Illinois; Birmingham, Alabama; and Plymouth, Michigan.

COMPREHENSIVE VALUE-ADDED CAPABILITIES

To minimize cost, waste and lost time, Atlas Tube can deliver product prepared to your specifications and ready for use upon delivery. A wide variety of services are available, including ID flash removal, specialty steel chemistries and thermal stress relief. Epox Z Kote, an Atlas Tube exclusive, reduces material handling and surface preparation for final coating.

WIDEST SIZE RANGE

- SQUARES
  - Up to 22’
- RECTANGLES
  - Up to 34’ x 10’
- ROUNDS
  - Up to 28’ OD

WALL THICKNESS: UP TO 1”
MILL CUT LENGTHS: 18’-125’
BROAD & DEEP TECHNICAL RESOURCES

The Atlas Tube technical team is recognized across industries for its steel expertise. If you’re in construction, Atlas structural engineers can provide information and inspiration. If you’re in manufacturing, energy exploration or mining, Atlas metallurgists have wide-ranging industry experience.

For total quality assurance, Atlas personnel monitor the production process at every step and provide full traceability from hot-rolled coil to finished product—plus tensile testing, spectrographic tube analysis, metallographic analysis and Charpy testing.

QUALITY MANUFACTURING

All Atlas Tube facilities manufacture to both U.S. and Canadian specifications. Atlas is the North American member of CIDECT, an international association of HSS producers.

STRONG ENVIRONMENTAL COMMITMENT

Atlas Tube is continuously working to increase recycling and reduce use of harmful chemicals and solvents. In addition, our facilities are looking for ways to become more energy-efficient. From installing new lighting fixtures in the plant to establishing a formal recycling program, from planting trees to using solar energy to help power one of our manufacturing facilities, Atlas Tube is committed to the environment.
About Atlas Tube

Atlas Tube, a division of Zekelman Industries, produces a wide range of steel tubular products and is the leading provider of hollow structural sections (HSS) in North America. Other offerings include HSS Design Tools, straight-seam electric resistance weld (ERW) pipe piling and Epox Z Kote powder primed tubing.

For more information, contact Atlas Tube at 800.733.5683 or info@atlastube.com. Or, visit our website at atlastube.com.
Providing the Tools

In addition to delivering high-quality HSS product, Atlas Tube has a well-earned reputation for supporting customers with the most innovative thinking and services available.

**ATLAS CUSTOMER SERVICE PORTAL**

To improve ordering efficiency and scheduling accuracy, the Atlas e-commerce system uses EDI and SAP electronic information technology to let you view order and inventory status, test report data and more — in real time. The live chat feature allows you to easily connect with a customer service representative.

**24/7 CUSTOMER INVENTORY MANAGEMENT PROGRAM**

Our vendor-managed inventory program lets you check on product availability 24/7 and adjusts daily to information from distributor-customers to improve inventory turnover and on-time delivery.

**WORLD’S BEST HSS DESIGN TOOLS**

Atlas Tube gives you access to industry-leading HSS design tools from CIDECT, the Steel Tube Institute (STI) and the American Institute of Steel Construction (AISC). See the Atlas website for more information.

Atlas makes HSS information easily accessible online. Our website gives you access to HSS products, solutions and downloads such as capability charts, fact sheets and brochures. Our blog, the Atlas Observer (atlastube.com/atlas-observer).

Our ongoing educational video series, “Designing with HSS,” is available at atlastube.com/designing-with-hss as well as on our YouTube page (youtube.com/ZekelmanIndustries). You can follow us on Twitter (@AtlasTube) for up-to-the-minute news and updates.
About Atlas Tube

Atlas Tube, a division of Zekelman Industries, produces a wide range of steel tubular products and is the leading provider of hollow structural sections (HSS) in North America. Other offerings include HSS Design Tools, straight-seam electric resistance weld (ERW) pipe piling and Epox Z Kote powder primed tubing.

For more information, contact Atlas Tube at 800.733.5683 or info@atlastube.com. Or, visit our website at atlastube.com

Follow us on

twitter.com/atlastube
linkedin.com/company/zekelman-industries
youtube.com/ZekelmanIndustries
atlastube.com/atlas-observer