

AUTOMATED
WELDING & CUTTING TECHNOLOGIES



AUTOMATED PIPE WELDING MACHINES



CNC PIPE & BEAM CUTTING MACHINES



ORBITAL WELDING MACHINES



AUTOMATED BEAM WELDING

GSI MACHINERY

GSI Machinery is on a mission to "passionately serve those who build America's critical infrastructure". In order to strengthen our critical industry we are here to provide cutting-edge solutions for our customers to stay competitive in today's global market with a dwindling labor force. Our solutions include:

- **Automated Pipe Welding Machines**
- **Automated Structural Steel Welding Machines**
- **CNC Plasma Cutting Machines for Pipe, Vessels, Beams, Angle & Square Tube**
- **Fiber Laser Cutting Machines**
- **Plate Rolling, Beveling and Welding Solutions**
- **Orbital Welding, Cutting & Facing Equipment Rentals, Sales & Repairs**

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Autonomous Pipe Welding





Multiple Layout Options



Multi-Process Welding



AI Software

Fully Autonomous Pipe Welding

GSI sells, services and provides local support for the Rotoweld line of fully autonomous robotic pipe welding machines. These machines use a proprietary Ai software to read the weld puddle during the weld and make parameter and motion adjustments to account for joint misalignment in real time with no operator intervention needed. These machines can perform GTAW, GMAW, FCAW and SAW welding processes.

Key Features

- 3" - 48"+ Pipe Working Range
- In-House Ai Software with No Subscriptions
- 10,000lbs Pipe Supports
- Hight Torque Electric Direct Drive Positioners
- Rigid Track Construction
- Autonomous Welding Parameter and Motion Adjustments
- Pypeserver and Stratus Software Integrations
- No On-Going Subscriptions
- Remote Software Flashing and Support Available 24/7
- Welds 1min per 1inch of Nominal Pipe OD - 6in Sched 40 Joint Welded in 6min
- Automatic In-line Fume Extraction
- Automatic Torch Angle and Height Adjustment
- Family Owned and Operated for 35 Years

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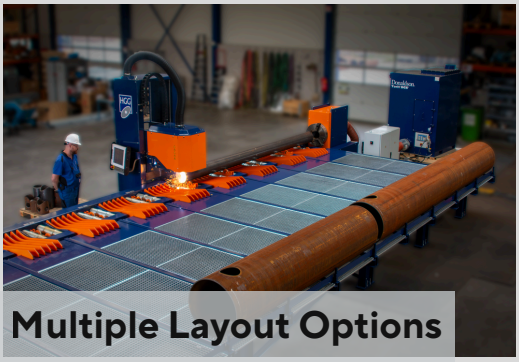
Pipe & Vessel Cutting

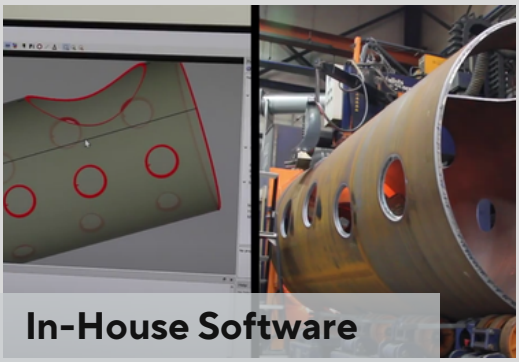




Rigid Construction



Multiple Layout Options



In-House Software

Automated Profiling

GSI sells and supports locally the HGG brand of CNC plasma pipe & vessel and beam profiling machines. Designed originally for vessel cutting, the HGG series of pipe cutting machines are super rigid, heavy duty machines. HGG's in-house software engineering allows on-going support for many years with no subscriptions.

Key Features

- 2"- 160"+ Pipe & Vessel OD Working Ranges
- Local Parts & Service in Houston, TX
- Floating Chuck to Compensate for Pipe Ovality
- Independent Lifting Wheels to Compensate for Pipe Bow
- In-House Software with No Subscriptions
- Auto Nesting for Fast, Efficient Cut Measuring
- Heavy Duty Chuck Construction
- Rigid Frame Construction
- Automatic Torch Height Control to Adjust for Pipe Ovality and Bowing
- Pypeserver & Stratus Software Integrration
- No On-Going Subscriptions or Fees
- Remote Software Flashing and Support Available 24/7
- Vessel Dome Profiling Capabilities

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Automated Tee Pulling

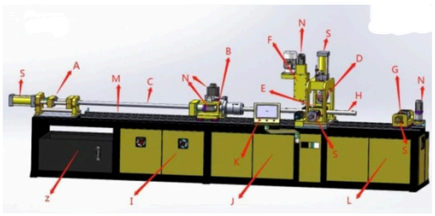




Auto Pierce, Pull & Face

FAS-T 8

GSI sells and services the T-PULL brand of automated pipe and tube tee collar pulling machines. These machines automatically punch, pull and trim tee collars off of stainless steel run pipe.



Multiple Sizing Options

Max. steel pipe diameter	8.625"
Min. steel pipe diameter	1.5"
Steel pipe wall thickness	.047" - .148"
Applicable pipe length	10 ft
Applicable collar hole diameter	1" – 4"
Collar hole inner diameter precision	±0.5mm (0.002")
Min. space between two holes	3" (customizable)
Hole collar height	0.09"0.2" (based on steel pipe elongation and wall thickness)
Verticality between flange and pipe	≤0.004"



Fast, Repeatable Results

Key Features

- Electric Servo feeding, pulling, rotating, trimming, hydraulic punching, hydraulic tee forming
- PLC + HMI, full automatic, only manual loading & unloading
- Hole positions can be programmed on the entire run length
- Precise punching & collaring
- High-speed produciton volume
- Medium-speed wire cut molds, more than 100,000 punches per die
- Achieves consistent pulled tee collar wall thickness and finish

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Automated Seam Welding





Multiple Layout Options



Multi-Process Welding

Automated Seam Welding

Planar Welding System is Ideal for longitudinal welding of process tanks, vessels and piping, petrochemical piping, process reactors, and hygienic process pipelines. It provides industries with food, breweries, water and electric utilities, chemical processing, pharmaceuticals, energy, and semiconductor 100% penetration, one-pass welding on unseparated flat copper substrates, with no thermal degradation on the material.

Key Features

- Strong and Durable Joining: Planar welding systems join metal parts together in a strong and durable way. This results in a high-strength and leak-proof joint as a result of welding. **TIG, MIG/MAG, Force TIG & Plasma Options**
- High Efficiency: The use of automatic or semi-automatic welding machines enables the application of planar welding system with high efficiency. Joining operations can be performed quickly and accurately.
- Reduced Material Loss: Planar welding systems result in minimal material loss during the welding process. This saves materials and reduces costs.
- Versatile Applicability: Planar welding systems can be applied for different metal types and thicknesses. This provides flexibility in various application areas.

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Automated Beam Cutting





Typical Machine Layout with Material Handling



Full Range of Motion Allows for Intricate Cuts



Intuitive Software Automated Nesting

Steel Coping Machines

GSI sells and supports locally the HGG brand of structural steel coping machines for processing beams, angle, box sections, flat plate and even pipe. Not only are these machines very versastile in their cutting operations, HGG's proprietary designs allow our robotic arms to reach and cut angles not previously possible. GSI sells several structural steel coping machine models from HGG and depending on your specific needs we can recommend the right machine for you.

- **RoboRail**
  - Designed for Job Shops
  - Channel Sizes: 4 x 2 "- 18-6/8 x 5-7/8 "
  - Beam Sizes: 4 x 2 "- 48 x 17 "
  - Pipe Sizes: 4.5" - 18"
  - Angle Sizes: 3" - 12"
  - Box Section Sizes: 4 x 4 "- 24 x 16 "
  - Flat Bar Sizes: 3-7/8 x 5/8 "- 16 x 1-5/8 "
- **Apex**
  - Beam Sizes: 4"x13" - 30"x235"
  - Pipe Sizes: 3" - 24"
  - Angle Sizes: 3"x3" - 12"x12"
  - Box Section Sizes: 3"×3" / 3×1-1/2 - 16×16 / 24×16
- **RPC 1200k3**
  - Channel Sizes: 4 x 2 "- 18-6/8 x 5-7/8 "
  - Beam Sizes: 4 x 2 "- 48 x 17 "
  - Pipe Sizes: 4.5" - 18"
  - Angle Sizes: 3" - 12"
  - Box Section Sizes: 4 x 4 "- 24 x 16 "
  - Flat Bar Sizes: 3-7/8 x 5/8 "- 16 x 1-5/8 "

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AUTOMATED BEAM WELDING





Fanuc Robotic Arms



Multi-Axis Welding
Many Options



Zero
Programming

ROBOTIC STRUCTURAL MACHINES FROM AGT

GSI Machinery sells and supports locally the AGT line of robotic automated structural steel welding machines. These innovative machines require ZERO programming with AGT's proprietary Cortex software you can import files from your CAD software and Cortex will automatically program and plan out all of your welds. The machine uses a Fanuc robotic arm with Abicor Binzel welding torches and a Lincoln power supply. The machine features AGT's patented SnapCam technology which allows the robotic arm to take a 3D image of each weld joint and make any needed programming adjustments for joint misalgnment, bevel inconsistencies and corrosion on the steel surface that would normally hinder a traditional robotic welding program.

KEY FEATURES

- Proprietary Cortex Software with Automatic Programming
- SnapCam 3D Imaging for Real Time Weld Program Adjustments
- Blok System Custom Fixturing for Different Work Pieces
- Twin Bay Setup to Allow Loading While Welding
- Fanuc Robotic Arms with Readily Available Parts
- Abicor Binzel Welding Torches and Consumables
- Lincoln Electric Welding Power Supplies

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Orbital Welding

Fusion Welding



Closed Weld Heads
1/4" - 6.625in"



Touch Screen 200A Power Supplies



Micro-Fit Weld Heads

Axxair Fusion Tube & Pipe Orbital Welding Solutions

GSI Machinery sells, rents, services and provides training for Axxair, AMI and Magnatech orbital welding products for fusion tube and pipe welding. We are available 24/7 for after sale support and training. Located locally in Houston with a large parts inventory and factory-trained techs, GSI is able to quickly repair your equipment and providing rock-solid rental machines for your ciritcal projects.

Located in Houston, TX:

Service & Parts

Training

Rentals & Sales

DEMOS & SUPPORT

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Orbital Welding

Wire-Fed





D-Head
1" - 14"



Power Supplies with Automatic Schedule Generation



T-Head
Large OD Welding

MAGNATECH Orbital Pipe Welding Solutions

GSI Machinery sells, rents, services and provides training for the Magnatech and Axxair brands of orbital welding products for wire-fed tube and pipe welding. We are available 24/7 for after sale support and training. Located locally in Houston, GSI is able to quickly source parts for servicing your equipment and providing rock-solid rental machines for your critical projects.

Located in Houston, TX:

Service & Parts

Training

Rentals & Sales

DEMOS & CONSULTATIONS

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Orbital Cutting & Facing

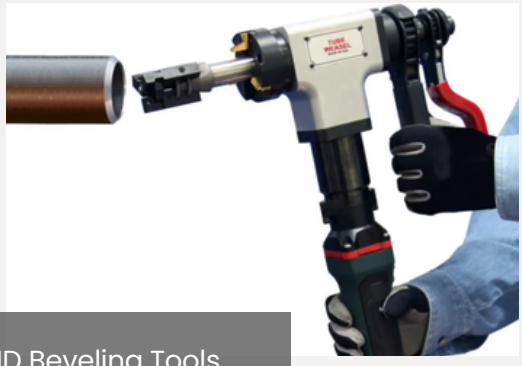




Orbital Cutting & Beveling Saws



Tube Facing Tools



ID Beveling Tools

Orbital Cutting, Facing & Beveling

GSI rents, sells, repairs and provides training for a variety of orbital cutting, facing and beveling tools. Pipe or tube weld preparation is absolutely vital in achieving consistent, high-quality orbital welds. Since the orbital welding machine is executing the same welding schedule repeatedly, the pipe or tube weld preparation and fit-up must be consistent in order to avoid introducing variables into the welding process that could negatively affect weld quality and consistency. These tools and machines are specifically designed to enable fitters to consistently achieve a precise fit-up.

Key Features

- Orbital Cutting & Beveling Saws up to 40" OD
- Orbital Saws Feature Concentric Clamping to Avoid Tube Deformation
- Orbital Saws Feature Interchangeable Beveling Module
- Tube Facing Tools for Tubing up to 8in OD
- Tube Beveling and Facing Tools for Pipe Up to 36" OD
- Esco Millhog brand of Pipe J-Beveling & Squaring Machines
- GSI Stocks and Sells Consumables for Orbital Saws and Facing Tools with 24-hour Availability

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Pipe Beveling & Flange Facing





Heavy Wall Pipe Beveling



Portable Flange Facing



High-Speed Beveling

Beveling & Facing

GSI sells, rents and provides training for several pipe beveling solutions from ID-Mounted portable machines to CNC pipe beveling lathes, we have solutions to fit your production needs and budget. We represent the Esco Millhog brand of ID and OD mounted portable pipe beveling, facing and counterboring machines which we offer as rentals as well. Our innovative flange facing tool allows pipe fitters to machine flanges back to spec in-place in minutes.

Key Features

- Esco Tool line of Portable Pipe Beveling, Squaring and Counterboring Machines for Pipe from 1/2" - 36" OD
- Pneumatic, Electric and Hydraulic Drives Available
- Simple User Friendly Machines Built to Last for Decades of Service
- Simple Easy to Learn Flange Facing Tool for 1" - 10.39" ID Flanges with a 14" Overall Swing Radius
- Machine Flanges Back to ASME Spec in Minutes
- CNC Pipe Beveling Lathe for Fast Programmable Beveling
- Local Rental Inventory and 24-Hr Support

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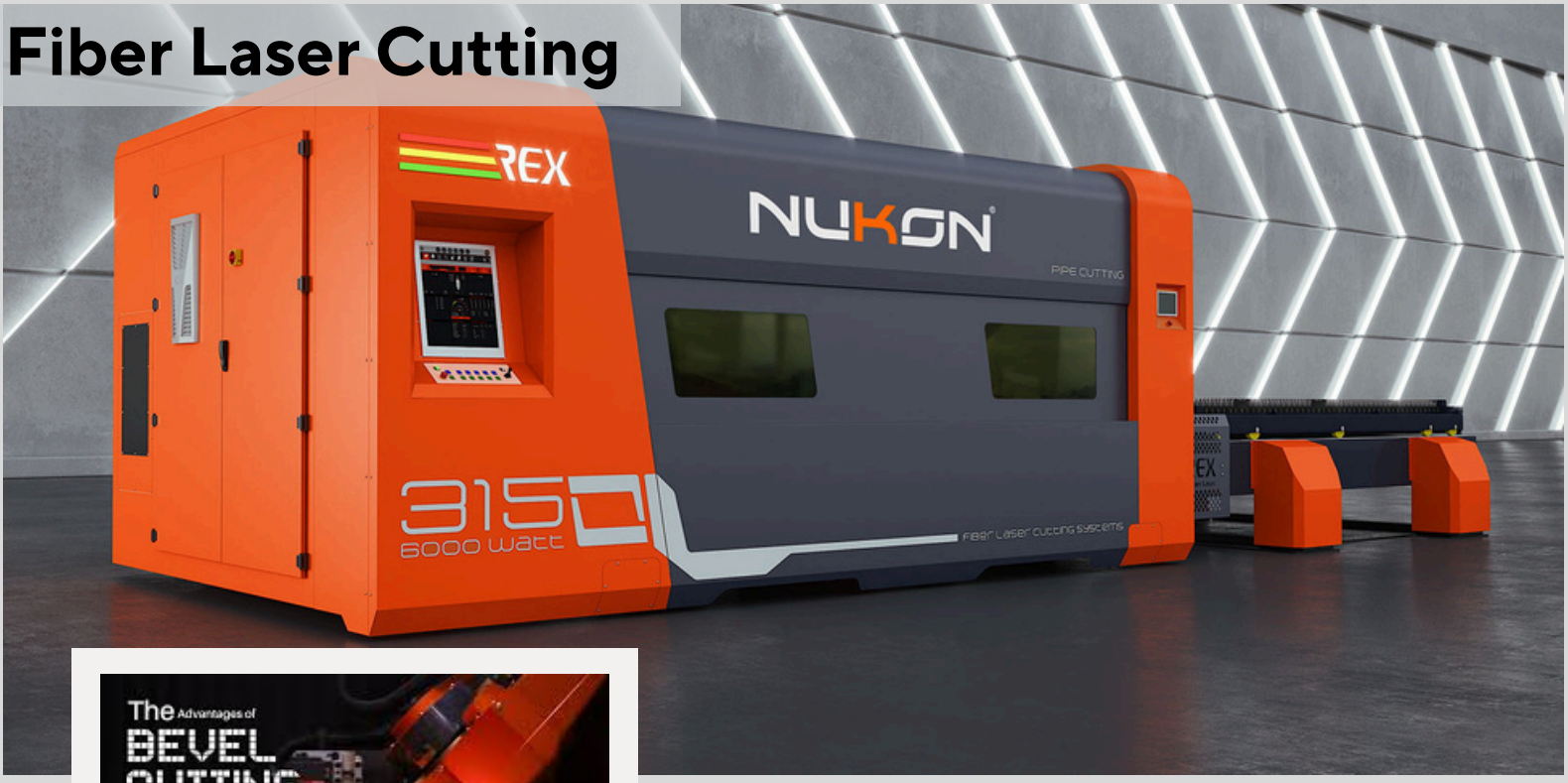
Fiber Laser Cutting





Custom Bevel Heads



Tube Lasers



Large Plate Cutting

Laser Cutting Automation

GSI Machinery proudly sells and locally services Nukon Laser fiber laser cutting systems, offering advanced solutions for high-speed, precision metal cutting. Nukon's lineup includes **flat sheet & plate fiber lasers, 3D tube laser cutting systems, and automated material handling solutions** designed for demanding production environments. GSI Machinery provides local sales, installation, technical support, and service, giving customers advanced laser cutting technology backed by responsive, local support

Key Features

- **High-Speed, Precision Cutting** – Advanced fiber laser technology delivers fast cutting speeds, excellent edge quality, and high dimensional accuracy across a wide range of metals and thicknesses.
- **Powerful Fiber Laser Options** – High-power configurations provide the capability to process everything from thin sheet to heavy plate efficiently.
- **Sheet, Plate & Tube Solutions** – A broad lineup includes flat sheet and plate systems as well as advanced 3D tube and profile laser cutting machines.
- **Automation Ready** – Automated loading, unloading, and material handling options help reduce operator involvement and increase overall production throughput.
- **Strong Value & Local Support** – European-built laser cutting technology combined with competitive pricing and local sales, installation, service, and technical support from GSI Machinery.

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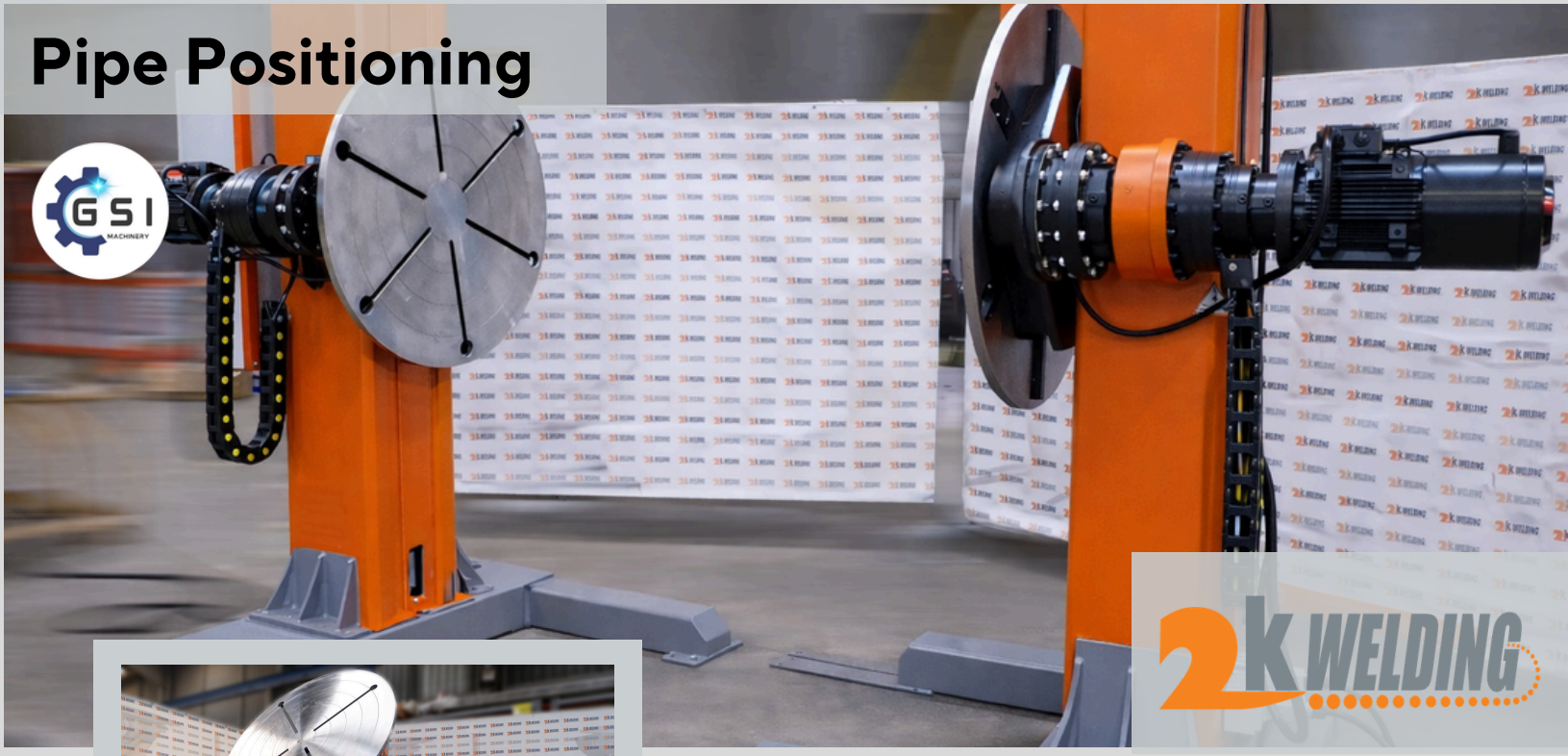
Pipe Positioning









Positioners, Rollers, Column & Boom Welding

GSI Machinery proudly sells and locally services 2K Welding pipe positioners, turning rolls, and pipe roller equipment manufactured in Turkey. Built for demanding pipe fabrication applications, 2K Welding equipment helps improve productivity, weld quality, and efficiency. GSI Machinery provides customers across the U.S. with reliable equipment backed by responsive, local sales, service, and technical support.

Key Products

- **Welding Positioners** – Heavy-duty rotary positioners for controlled positioning and rotation of pipe, fittings, and fabricated assemblies.
- **Self-Aligning Turning Rolls** – Automatically adjust to accommodate different pipe and vessel diameters for smooth, consistent rotation.
- **Conventional Turning Rolls** – Durable powered and idler roller systems for rotating pipe, tanks, and cylindrical workpieces during welding.
- **Fit-Up & Assembly Rotators** – Designed to support pipe and vessel alignment, fit-up, tack welding, and fabrication.
- **Custom Pipe Handling Solutions** – Positioning and turning-roll systems configured for specific workpiece sizes, weights, and production requirements.

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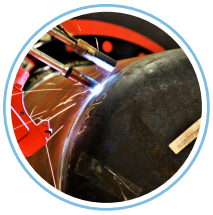
Bringing You the Best Machines in the World with Local Service & Support

GSI Machinery's Mission

GSI Machinery is on a mission to "passionately serve the people who build and maintain America's critical infrastructure". We do this by providing cutting edge innovations to help our critical fabrication shops and field crews get their work done faster and more effectively in the hopes that despite a dwindling labor force American businesses can remain competitive in a global market that seeks to outsource our most critical industries. GSI Machinery was founded on the principles of Honest, Integrity and Grit. Honest means we will never misrepresent our products to you. Integrity means we will do the right thing for the customer even if it does not directly benefit ourselves and Grit means we will be relentless in our efforts to service you, our valued customers who keep our critical infastructure online.



Welding Automation

Automated machines for pipe, tube and structural steel welding applications.



Cutting Automation

Automated machines for cutting, beveling and coping pipe, tube, beams, angle, box section and more.



Rentals, Training & Service

GSI stocks a rental fleet for orbital welding, portable machining and pipe beveling, facing and counterboring equipment. We offer repair services and training for all the equipment that we sell.

GSI MACHINERY

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