



Services

- ▶ Testing Services
- ▶ Weighing Services
- ▶ Inspection & Repair
- ▶ Rigging Training
- ▶ Multimedia Services
- ▶ Technical Services
- ▶ Fabrication Services

Holloway complements its broad product line with a wide array of professional services, including testing, inspection, repair, multimedia, technical, and fabrication services.



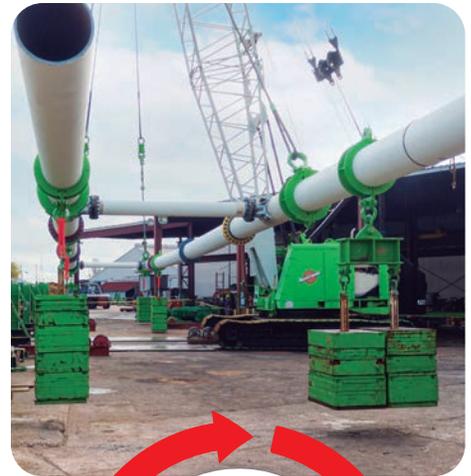
General Testing



With over 13 test beds on premises, **Holloway Houston's Testing Department** is equipped to offer an array of testing options for lifting components of up to **10,000 tons**. HHI's testing department is also equipped to provide reports on fatigue performance, stress data, elongation, teperature, and continuity.

TESTING SERVICES

- ▶ Wire Rope
- ▶ Synthetic Rope
- ▶ Slings and Assemblies
- ▶ Oilfield Equipment and Tools
- ▶ Special Products
- ▶ Elevator Links
- ▶ Riser Pipes
- ▶ Blocks



TESTING
UP TO
10,000
TONS



SERVICES

Cyclic Testing



TESTING SERVICES

SERVICES

Holloway Houston's Testing Department performs cyclic testing which, in addition to measuring the capacity of new products, tracks performance over time with a thorough analysis of wear, corrosion, and other variables.

HHI's Big 3 Cyclic Test Beds

Capacity	Width	Length
550 ton Test Bed	4' 3"	45'
3000 ton Test Bed	9'	200'
10,000 ton Test Bed	15"	90'

Environmental Testing

Test specimens can be submerged in a representative working environment, such as salt or dirty water, as well as subjected to the effects of commonly associated equipment and materials, such as fairleaders, sheaves, and lubricants.

Temperature Monitoring

All temperature data is recorded digitally.

Video Recording

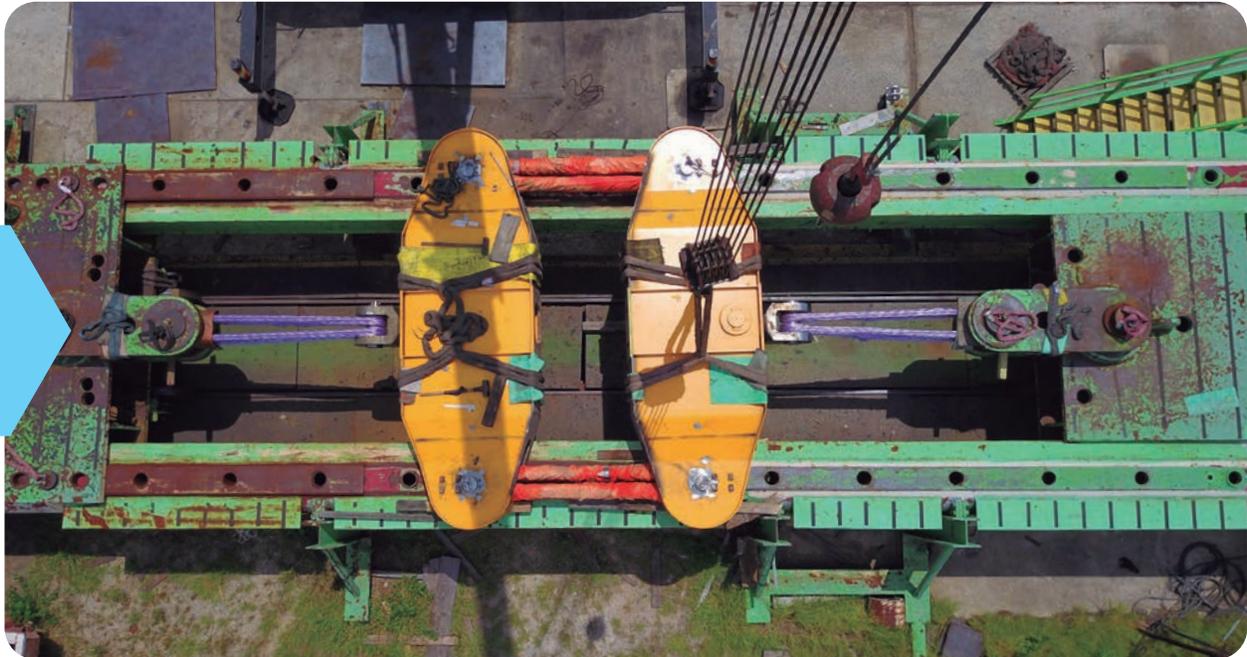
All video is recorded digitally.



Proof Load and Break Testing

Testing Services Division:

HHI maintains one of the world's largest and most complete assortment of load measurement and testing equipment, as well as an expert staff dedicated to keeping customers in a wide variety of industries safe, productive, and profitable.



TESTING SERVICES

SERVICES

Water Bag Proof Load Testing



TESTING SERVICES



An economical alternative to solid weight testing when ample water supplies are available, Holloway's water bag testing reduces transportation, handling, and storage costs while saving time.

Auxiliary Rigging and Accessories

Further services include:

- ▶ Full complement of auxiliary rigging and accessories
- ▶ Certified ASTM E-4 and AWWA C701 specifications
- ▶ Calibrated measuring equipment
- ▶ In-house technical services
- ▶ Fully trained technicians
- ▶ Transportation to your site

SERVICES



Solid Weight Proof Load Testing



Modular Solid Weights



Holloway Houston supplies modular solid weights for the proof load testing of:

- ▶ Mobile Cranes
- ▶ Overhead Cranes
- ▶ Maritime Cranes
- ▶ Spreader Beams
- ▶ Jumper Lifting Beams
- ▶ Man Lifts
- ▶ Special Heavy Lift Equipment
- ▶ Winches
- ▶ Overboarding Equipment and More
- ▶ Solid Weights up to 780 Tons

Dead Weight Baskets

100 t

150 t

280 t

400 t

Services Include:

- ▶ Certified ASTM E-4 specifications
- ▶ Full compliment of auxiliary
- ▶ rigging accessories
- ▶ Offshore transportability
- ▶ In house technical services
- ▶ Calibrated measuring equipment
- ▶ Full range of auxiliary rigging accessories
- ▶ In-house technical services

Infield Services



Holloway's testing professionals leverage years of experience and a large inventory of hydraulic jacks, load shackles, running line monitors, anti-two block systems, and other measuring equipment to deliver unmatched infield services at your site or ours.

Infield services include:

- ▶ Tension Measurement
- ▶ Onboard Weighing
- ▶ Center of Gravity Calculations
- ▶ Calibration Services
- ▶ Specialty Weighing
- ▶ Crane Testing
- ▶ Pad Eye Pulling
- ▶ Field Socketing
- ▶ Field Testing of Sockets





Inspection & Repair

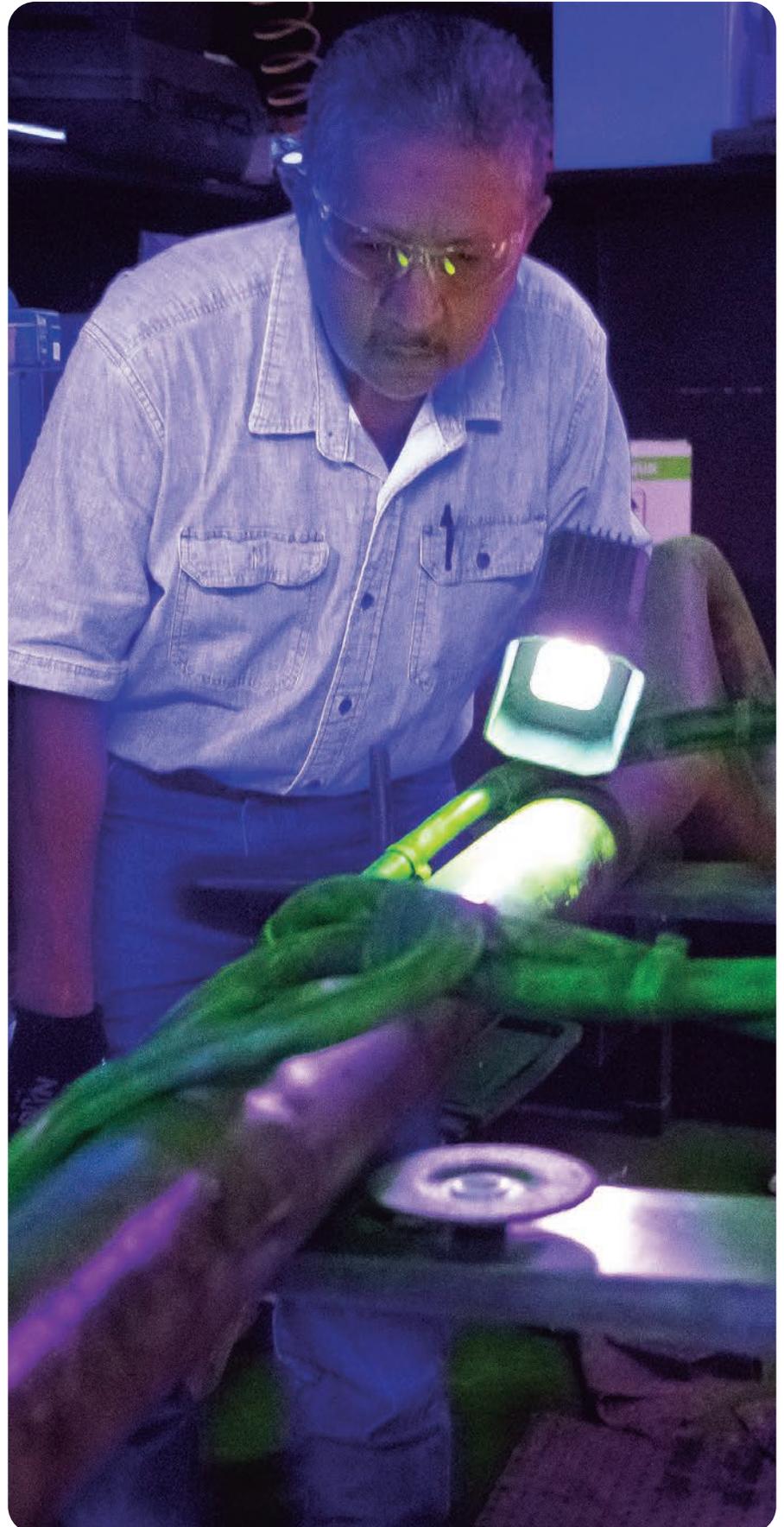
Holloway's inspection and repair experts offer full-range repairs and removal testing for a wide variety of equipment. We also inspect most types of lifting equipment, including chains, slings, plate clamps, chain falls, come-alongs, load cells, blocks, and more. Other services include:

- ▶ **Liquid Penetrant Testing**
- ▶ **Wet or Dry Magnetic Particle Inspection**
- ▶ **Ultrasonic Testing**
- ▶ **Pad Eye Visual Inspection & Proof Testing Sling Inspection and Recertification**
- ▶ **Sandblasting and Welding**
- ▶ **In-House Machining & Fabrication**
- ▶ **Experienced, Certified Welders**

Holloway's certified and experienced technicians perform visual inspections and other nondestructive testing on shackles, blocks, elevator links, pad eyes, spreader bars, and many other products and assemblies.

Holloway also provides annual and semi-annual inspections and recertification in accordance with applicable regulatory agency and company guidelines.

NDT inspectors maintain Level II certifications in accordance with the SNT-TC-1A standard.



NDT Nondestructive Testing



HHI's NDT specialists evaluate and analyze the performance of structural components, reliably pinpointing flaws, discontinuities, and defects that can affect structural integrity, equipment longevity, and worker safety.

Available onsite or in our labs, HHI nondestructive testing employs the latest NDT equipment and proven procedures and testing methods.

At HHI, we pride ourselves on providing round-the-clock NDT testing and quick turnaround to minimize customer downtime.

With HHI nondestructive testing, you get premium service and results at a competitive price, reducing your testing costs, increasing the useful life of your equipment, and ensuring the safest possible work environment for your employees.



Rigging Inspection Services

INSPECTION & REPAIR



HHI is committed to provide thorough and cost-effective rigging inspection services that comply with all procedures recommended by ASME, OSHA, and manufacturers. Staffed by a team of engineers with extensive knowledge and an outstanding industry reputation, our Rigging Inspection Department works with you during every step of your operation to ensure that your rigging meets the highest standards of integrity and safety.

Our technicians thoroughly evaluate each and every component in your rigging system, including:

- ▶ Hooks
- ▶ Chains
- ▶ Hoist rings
- ▶ Shackles
- ▶ Eyebolts
- ▶ Load blocks
- ▶ Turn buckles

We also inspect all sling types, including:

- ▶ Wire rope
- ▶ Synthetic
- ▶ Web
- ▶ High Performance Slings
- ▶ Below-the-hook lifting devices

All HHI rigging inspections come complete with a detailed visual report on rigging conditions. If we note defects in standard or custom rigs, we'll also offer repair recommendations and action steps to improve safety and comply with applicable regulations. For more information on HHI rigging inspection services, please contact a knowledgeable HHI representative today.

SERVICES

Rigging Training



As part of our Value-Added proposition, Holloway Houston provides “Fundamentals of Rigging Safety” training seminars at NO COST to either existing or prospective clients. We see it as an investment in people’s knowledge in order to promote a “risk management culture.” Our goal is to provide you and your employees with a better understanding of how to properly select, inspect and use rigging gear. These training seminars are available at our facilities, in English or Spanish.

A typical seminar covers 4-hours and each attendee will receive the following items.

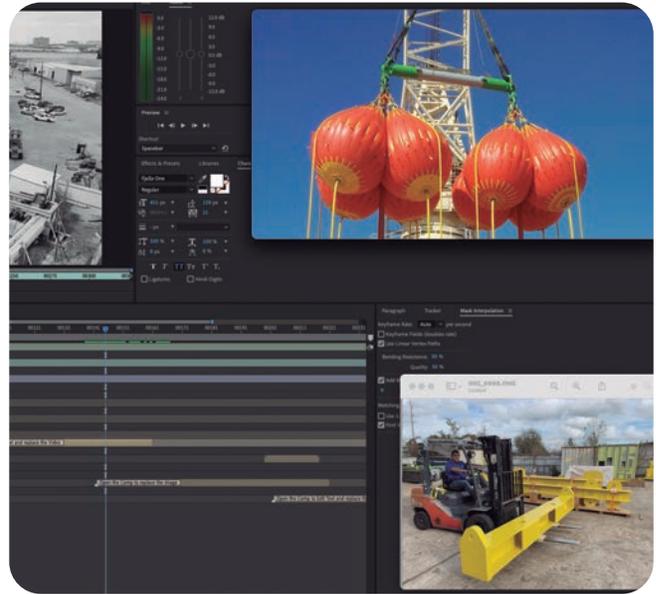
- ▶ **16-Panel Crosby “Users Guide for Lifting” Rigging Card (ASME)**
- ▶ **ASME / OSHA Based Product Application Seminar Workbook (Crosby)**
- ▶ **Holloway Houston , INC. Products Catalog**
- ▶ **The Crosby Group General Products Catalog**
- ▶ **Holloway Houston Certificate of Attendance**
- ▶ **Tour of Holloway Houston Facilities (optional)**





Multimedia Services

MULTIMEDIA SERVICES



HHI's multimedia team specializes in break test footage, high-definition photos, and other documentation of testing, repair, and other services, as well as onsite footage and promotional videos. For more information about our affordable multimedia packages and services and how you can boost business with promotional video, please speak to your HHI sales representative.

SERVICES

Technical Services



► Spreader Bar & Lifting Beam

Design & Certification

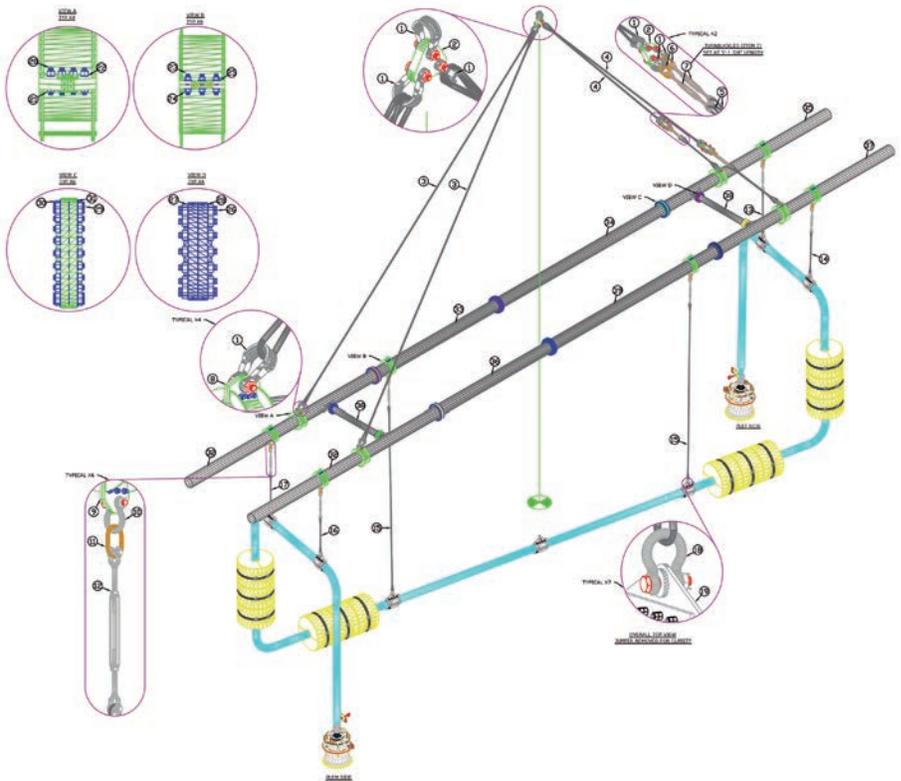
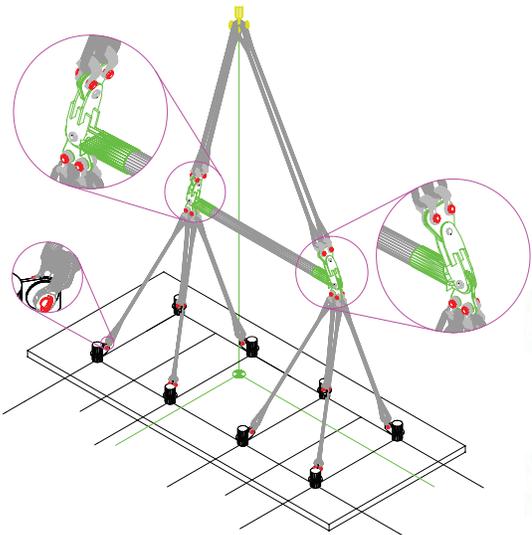
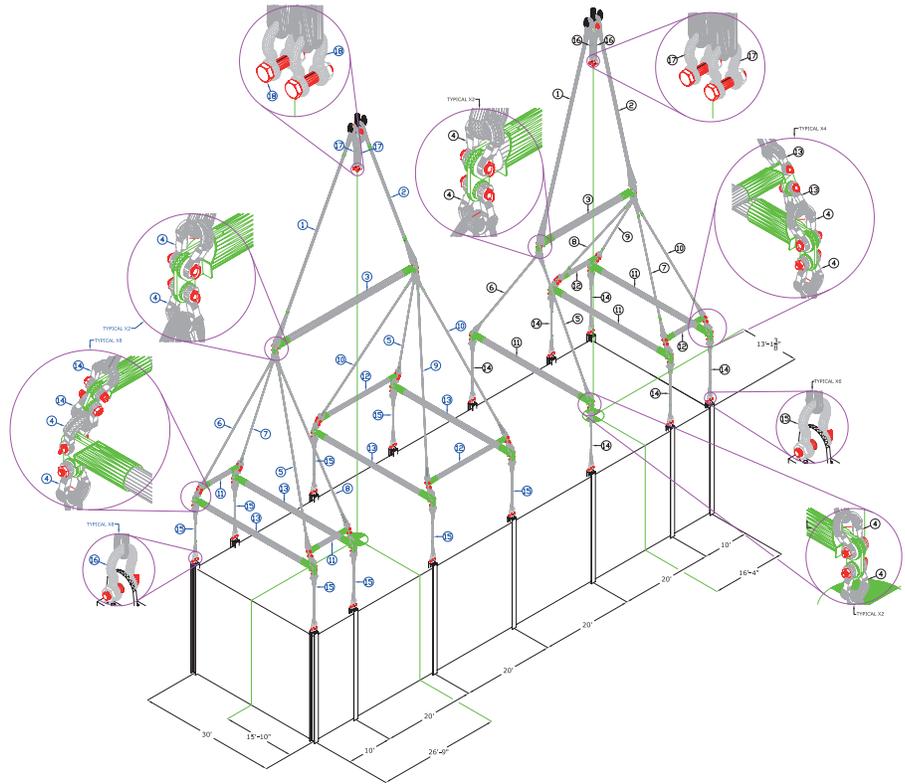
► Rigging Packages & Consulting

Services for Any Size Project

► Specialty Testing

► 2D & 3D Technical

Drawings Available



TECHNICAL SERVICES

SERVICES



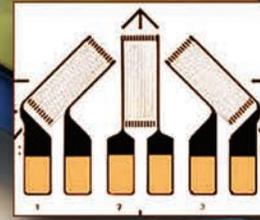
Technical Services

Holloway Houston installs strain gauges and thermocouples in a wide range of onsite environments. To capture and record strain gauge data, we employ a variety of data acquisition, handling, and software systems.

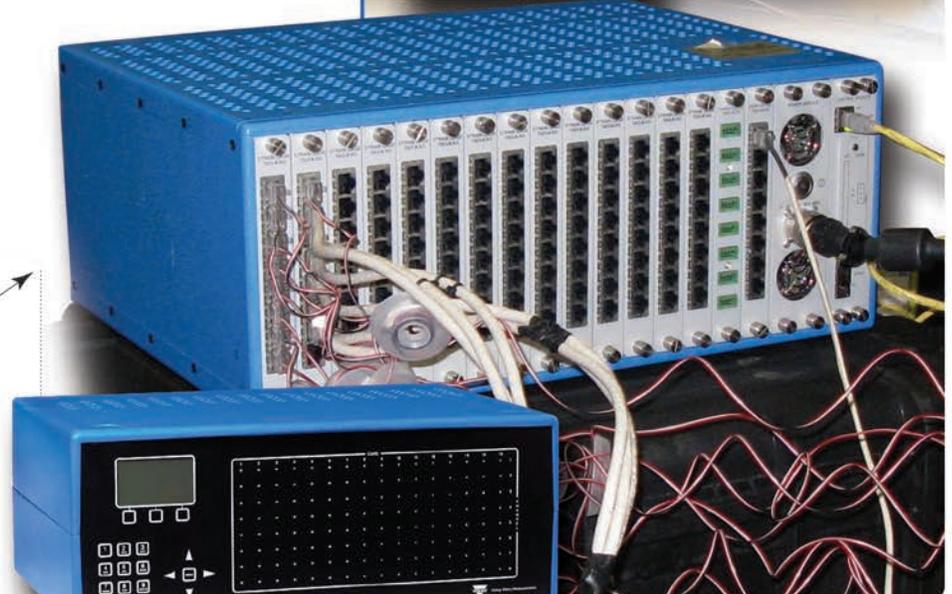
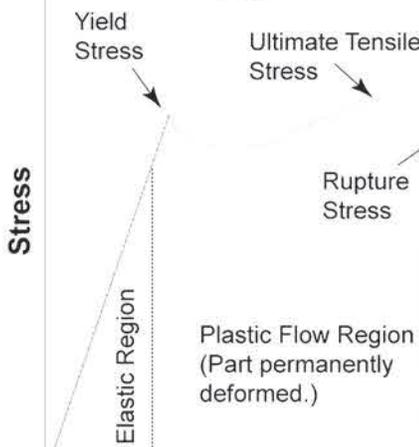
HHI also offers in-house strain gauge and thermocouple services, and all installations are performed according to recommended procedures and practices.

FEATURES:

- ▶ Stable, accurate, low-noise signal conditioning
- ▶ +/-0.5% measurement accuracy
- ▶ 0.5 microstrain measurement resolution
- ▶ Individual input cards for strain gauge and strain gauge-based transducers, sensors with high-level voltage outputs, and linear variable displacement transducers
- ▶ Built-in, electronically selectable bridge completion for 120-, 350-, and 1000-ohm strain gauges
- ▶ Maximum scan rate of 2048 samples per second
- ▶ Self-calibration traceable to NIST standard
- ▶ Simultaneous samples with anti-aliasing filter and analog-to-digital conversion for each channel



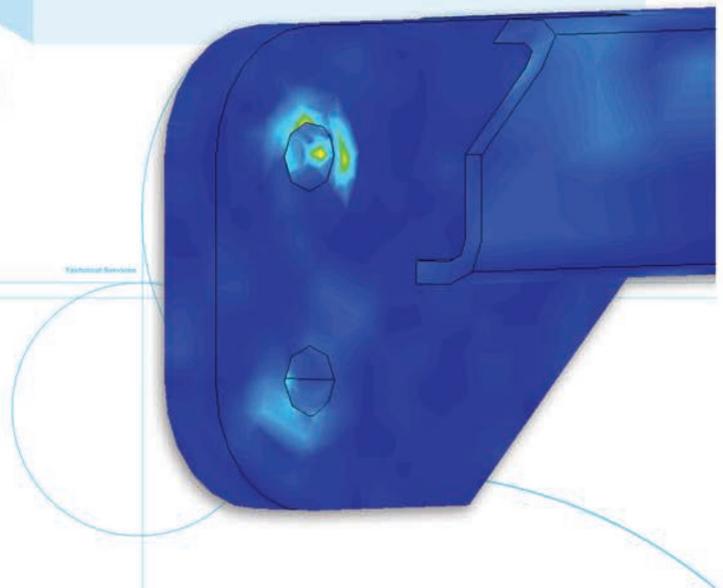
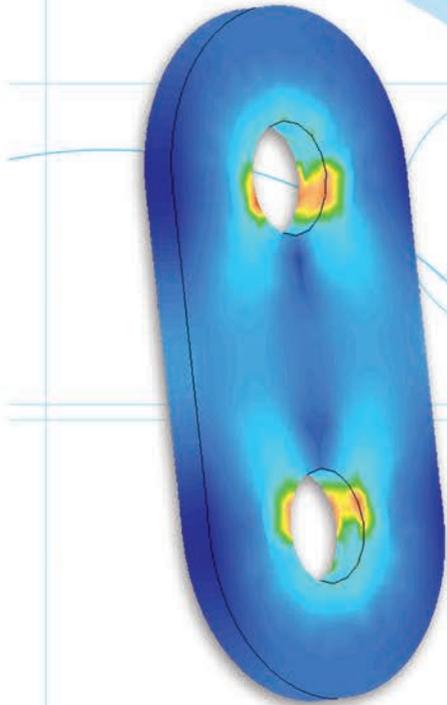
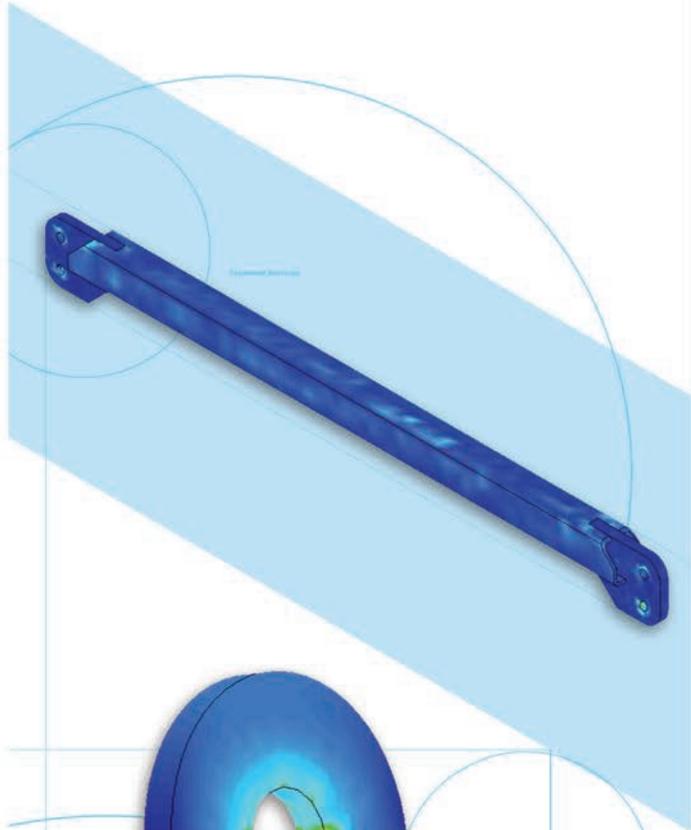
Stress Strain Curve Steel



Technical Services



Holloway Houston now uses ALGOR, a general-purpose finite element analysis software package that provides high-performance solutions for structural design. Because ALGOR is part of the widely used Autodesk digital prototyping solution, HHI can easily incorporate 3D AutoCAD design drawings into ALGOR. ALGOR virtual testing and visualization provides HHI experts deeper insight into products and facilitates lifting product designs (spreader bars, lifting beams, tri-links, etc.) that reliably meet the industry's stringent requirements.





Fabrication Services

Long considered a leader in rigging equipment sales and rentals, Holloway also fabricates a variety of custom, competitively priced equipment and components, including:

- ▶ Spreader Bars
- ▶ Lifting Beams
- ▶ Lifting Frames
- ▶ Lifting Links
- ▶ ROV-Modified
- ▶ Hooks & Shackles
- ▶ Specialty Load Cells
- ▶ T-Cups
- ▶ And Much More

* Welders are qualified to AWS D1.1 standard.



Fabrication Services



FABRICATION SERVICES

SERVICES



MORBAR Quick Shot Spreader Bars

HHI offers custom-fabricated lifting beams, spreader bars, tri-links, equalizer bars, lifting frames, and other lifting hardware in any quantity, and all hardware meets ASME, DNV, API, and other requirements. HHI also offers turnkey lifting solutions designed, deployed, and serviced by lifting industry experts.

HHI Fabricated Equipment Features:

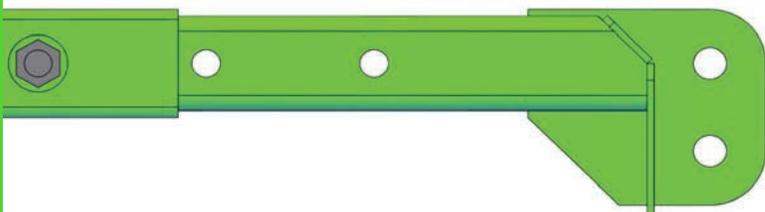
- ▶ Fabricated to take Crosby G2130 & G2160 shackles for crown and drop connections.
- ▶ Proof-tested to 125%/150% of SWL (minimum).
- ▶ Standard coating: sandblasted to near white, primed, and painted with two coats of urethane enamel.

Includes data book containing all mill certs, NDE reports, proof-test certs, weld certs, etc., as applicable.



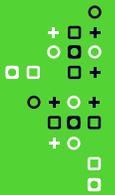
Note:

1. Spreader bars can be proof-tested to increased load, painted to different specs, etc., as required.
2. For even quicker delivery, HHI stocks pre-fabricated, adjustable-length telescopic spreader bars.





hhilifting.com/shop



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Holloway

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