



LEADERS IN CUSTOM EQUIPMENT MANUFACTURING



DELIVERING ON A

GLOBAL SCALE

Axton's Mission Statement

For our customers - To provide products in accordance with our customer's technical, quality and delivery requirements. Products and services will be provided in a professional manner.

For our employees - To provide a safe, satisfying and challenging work environment with opportunities to improve current skills and to develop new capabilities.

For other stakeholders - To provide an above average return compared to the industry average and to grow Axton's market share and capabilities. Axton will conduct its operations in an environmentally responsible manner.



Rely on Axton Incorporated as a custom equipment manufacturing partner that delivers on a global scale. Since 1975, we have partnered with pulp and paper, oil and gas, petrochemical, mining, power and transportation industry clients to produce turnkey custom equipment solutions at competitive prices. What sets Axton apart from the competition are our people and their commitment to provide innovative ideas, impeccable quality control and ongoing service and support. Every detail from engineering, fabrication, assembly and testing to delivery is fully managed. Axton is your integrated solution for global scale custom equipment manufacturing.



Fabrication

At Axton, the combination of years of experience and technical proficiency provides expertise in a wide array of custom equipment manufacture. In addition to carbon steel and stainless steel, Axton manufactures equipment from diversified types of alloys including chrome moly, duplex stainless, Inconel, titanium, zirconium and various clad combinations.



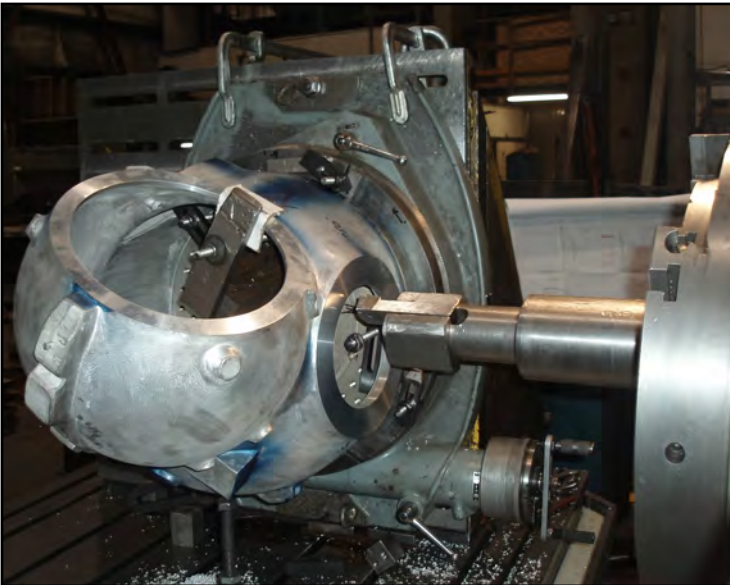
Our fabrication facilities include:

- 12,000 sq. ft. material preparation bay with state of the art plasma CNC cutting center and plate rolling capacity up to 1 1/4" thick.
- Four fabrication bays totaling 35,500 sq. ft. Fifty tons lifting capability. Dedicated bays for alloy fabrication (over 16,000sq. ft.)
- Welding processes—GTAW/GMAW/SMAW/FCAW/SAW
- Approved welding procedures—CS/CrMo/300 series SS/Duplex/Nickel Alloys/Titanium/Zirconium



Machining

Axton provides precision machining of in-house fabricated equipment as well as subcontract machining services for a wide range of components, materials and industries. Integrated operations philosophy yields a win-win solution for client's requirements. Axton's commitment to stay at the forefront of machining and tooling technology ensures a product of the highest quality and value.





Major machine shop equipment:

Fermat CNC HFM X = 248",
Y = 118", Z=23.6",
W = 28.7" (spindle extension)

Rotary Table 79" x 98"

Doosan CNC HBM X = 100",
Y = 78", Z = 60"

Puma CNC Turning Center 40.5"
dia. swing x 120" c/w live tooling

New Century CNC VBM 89" dia.
swing, 72" maximum under rail

Toshiba TUE-15 CNC VBM 70"
dia. swing, 67" maximum under
rail

Mazak CNC VMC X=40" Y=20"
Z=30" 4 axis

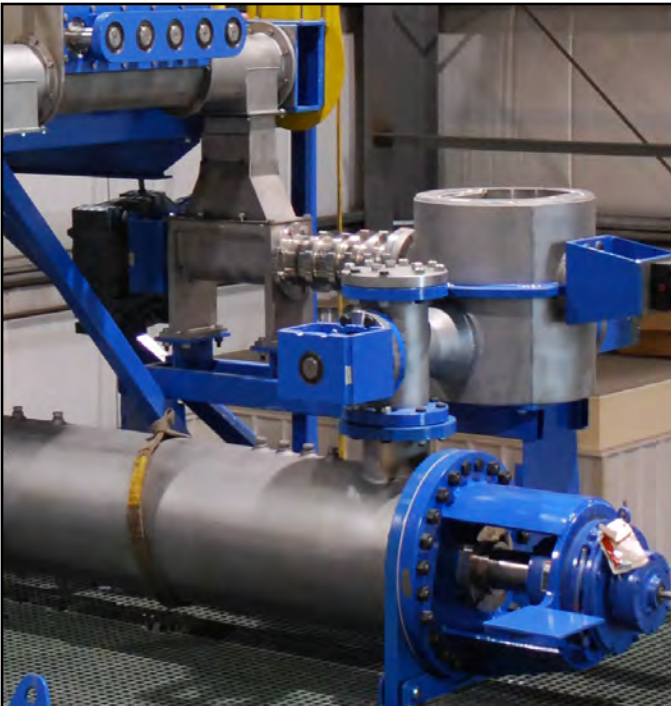
Okuma CNC Lathe 36" dia.
swing, 20" over cross-slide,
160" c/c

**Nakamura-Tome CNC Slant Bed
Mill** 14" x 20" dia. Swing



Assembly

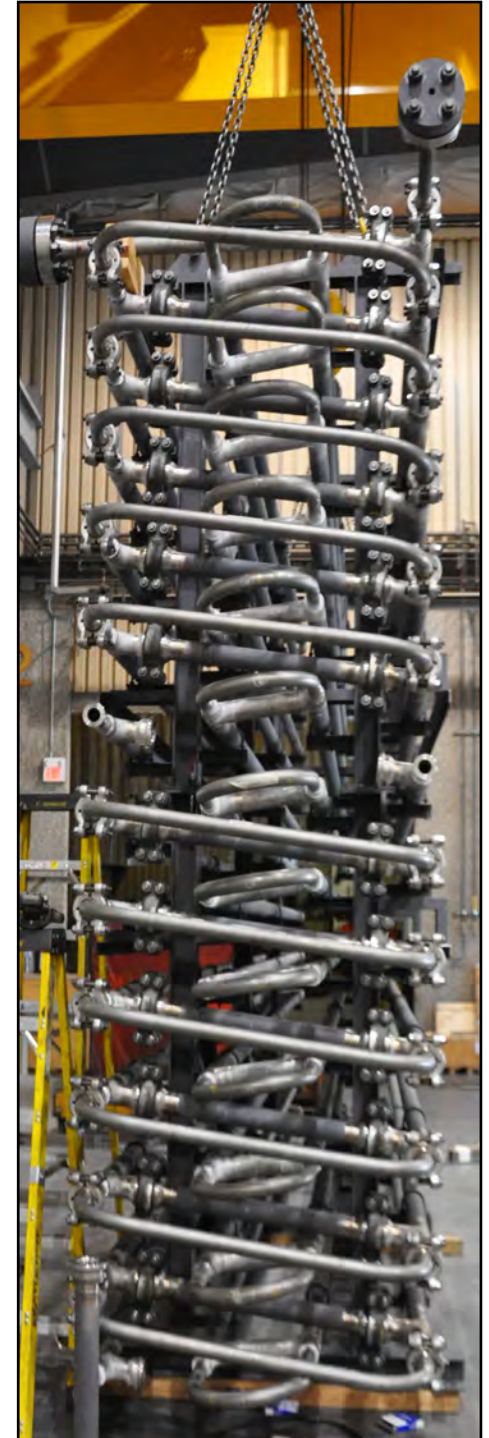
The process of custom equipment manufacturing concludes in the final assembly of the product. Verification throughout engineering, fabrication, machining and strict adherence to quality control produces a precision assembly which meets and invariably exceeds our customers' requirements. Axton offers mechanical, instrument and hydraulic assembly with expertise and apparatus to test assembled units. On completion of testing, the equipment is disassembled and prepared for shipment. Custom packaging is available for rail and ocean transport.

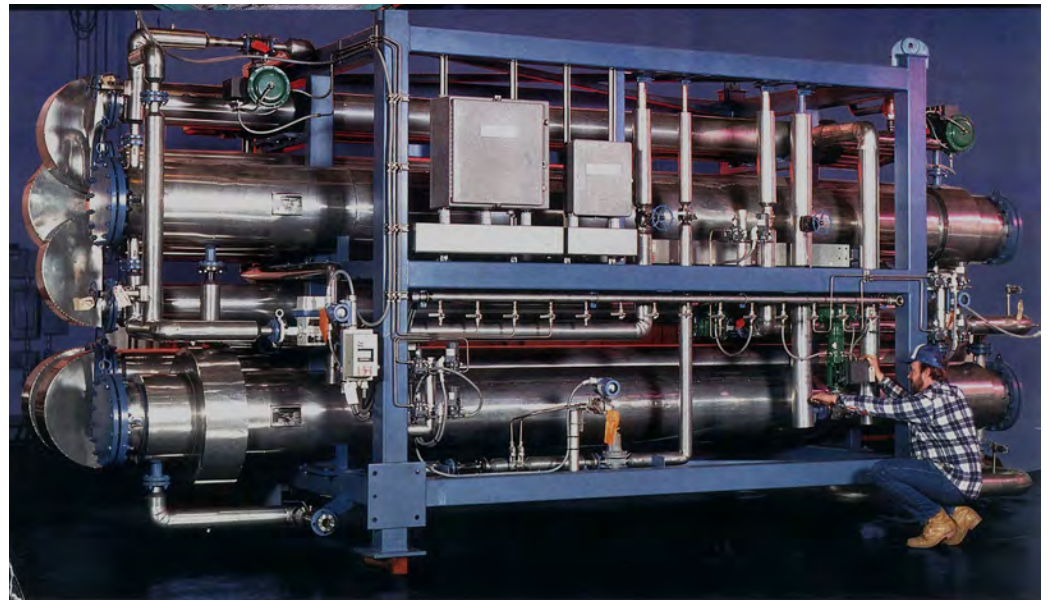
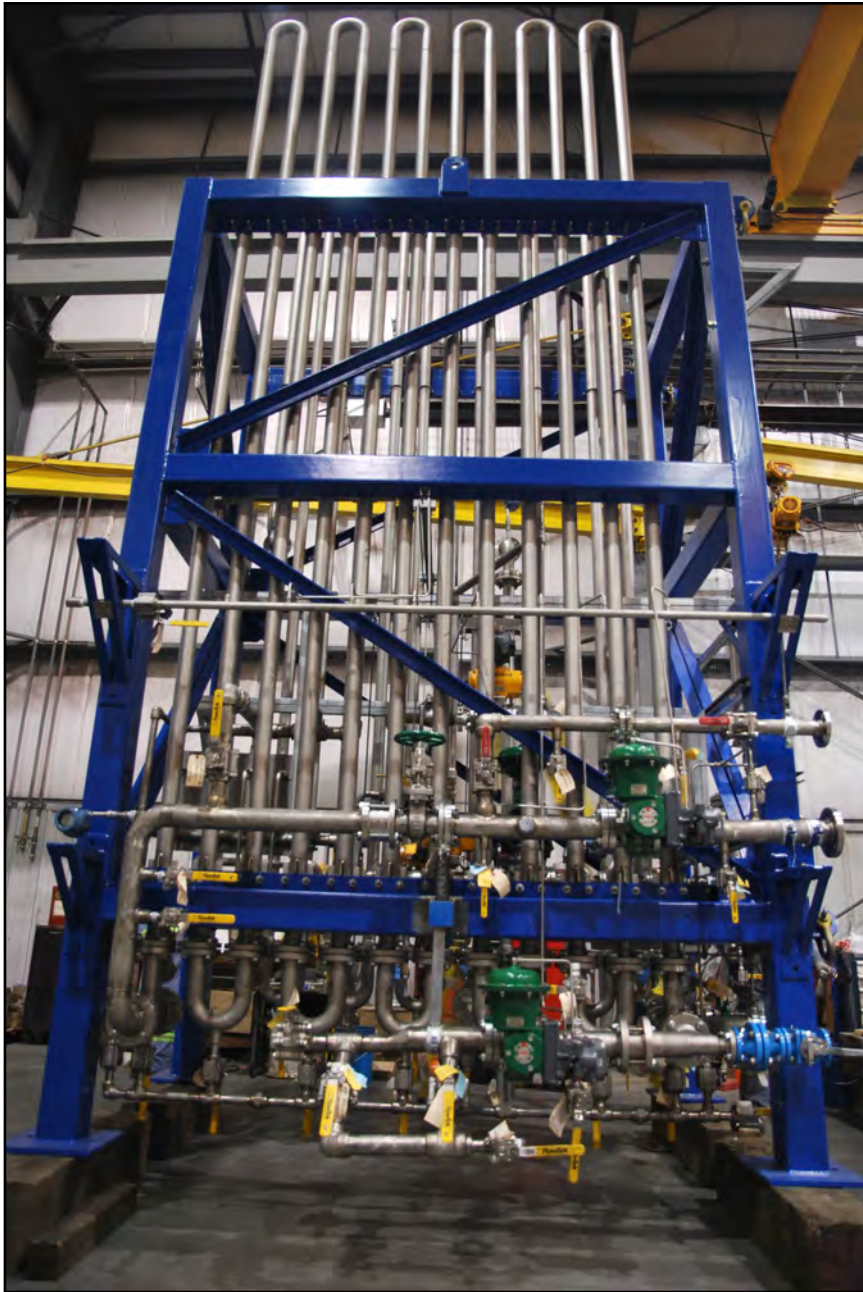




Process Modules

Modular fabrication has become the industry standard for reducing field costs. Axton has a long history of manufacturing specialized process modules for a wide range of industries. Pulp and paper, mining, oil and gas and environmental are just some of the areas where we have modularization experience. The Axton integrated approach to our clients' needs ensures a turnkey service by providing in-house design, manufacturing and assembly.





Our module manufacturing services encompass:

- Design
- 3D modelling
- Piping ISO (subcontract)
- Process Vessels
- Heat Exchangers
- Pipe spooling
- Structural Skids (in- house or subcontract)
- Instrumentation
- Electrical (subcontract)
- Insulation (subcontract)
- FAT testing prior to loadout
- Site supervision support during installation and startup (as necessary)

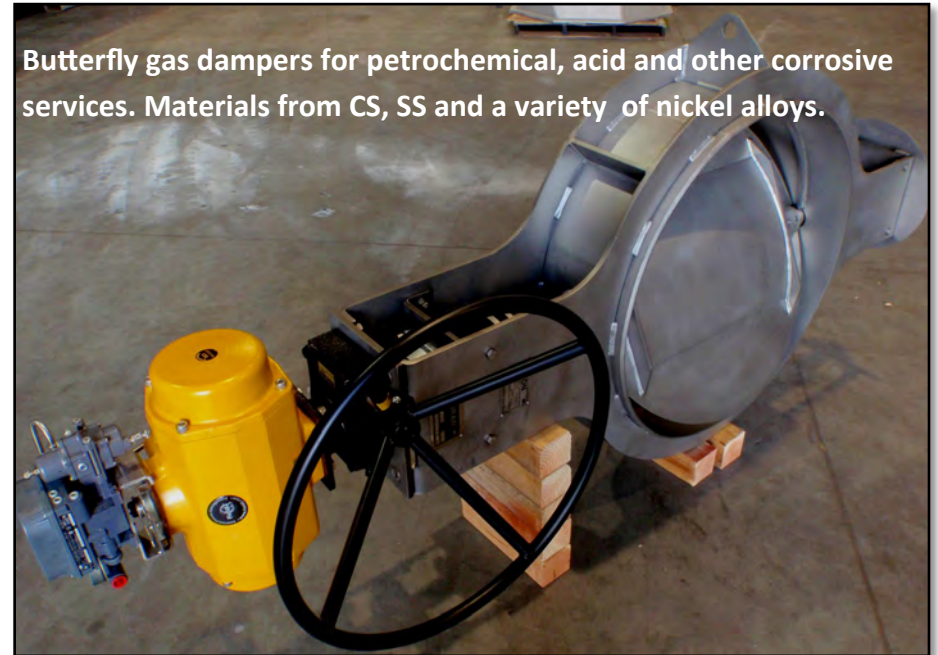
***Our strategic location includes access to barge loading facilities.
This enables us to ship large fully assembled modules not shippable via road or rail transport.***

Products

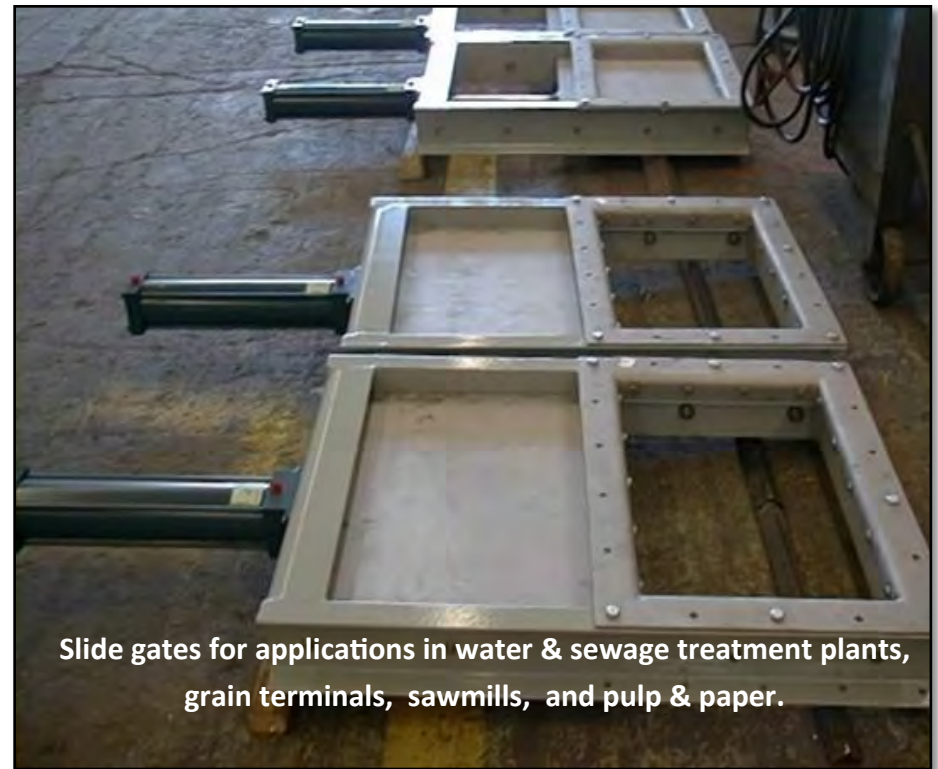
Throughout the years, Axton has encountered challenges in design and fabrication of equipment to meet some of our client's requirements. Over time this experience has led to Axton's development of a number of products which addresses some of the design or manufacturing shortcomings in standard products. Our product slate is constantly improving and new products are being developed.



Expansion joints for process piping, ducting, shell and tube heat exchangers. Materials from CS, SS and a variety of nickel alloys.



Butterfly gas dampers for petrochemical, acid and other corrosive services. Materials from CS, SS and a variety of nickel alloys.



Slide gates for applications in water & sewage treatment plants, grain terminals, sawmills, and pulp & paper.



Axton designs and manufactures screws and screw conveyors to suit client's custom requirements. Options include variable pitch, tapered diameters and cut flights. Sizes ranging up to 60" diameter and 50 ft. in length. Flight thicknesses up to 1 1/2". Materials from CS, SS, nickel alloys, aluminum and abrasion resistant plate. Plasma spray coatings for further abrasion resistance are also available.



Projects

As a custom manufacturer on a global scale, Axton has supplied and delivered equipment to destinations worldwide. From petrochemical plants in the Middle East and Asia, to pulp and paper, and mining process plants in South America, the final destination of a project is never a deterrent to our involvement.

A cross-section of international and domestic projects are shown.



Flue Gas Desulfurization - Dry Scrubber



Heat Exchanger



Mechanical Separator



Trayed Column - Dearator



Heat Exchanger



2010 Olympic Cauldron



Sulfur & Spent Acid Burner

"WHAT SETS AXTON APART FROM THE COMPETITION IS OUR PEOPLE AND THEIR COMMITMENT TO PROVIDE INNOVATIVE IDEAS, IMPECCABLE QUALITY CONTROL AND ONGOING SERVICE AND SUPPORT".

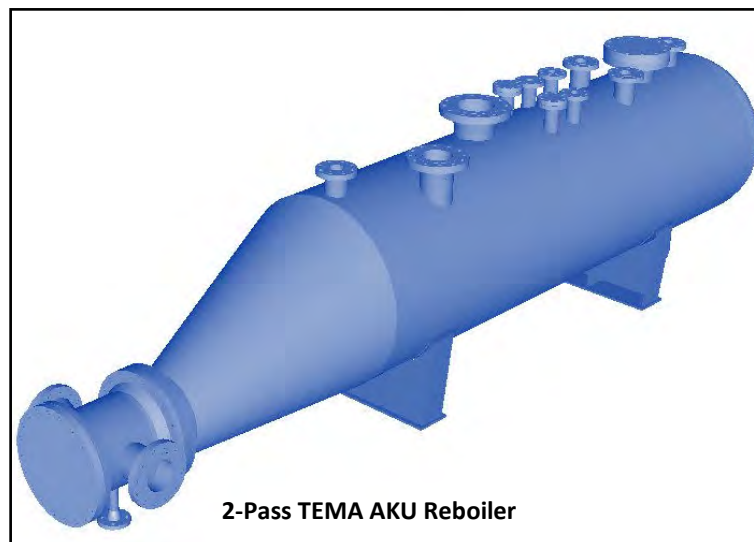
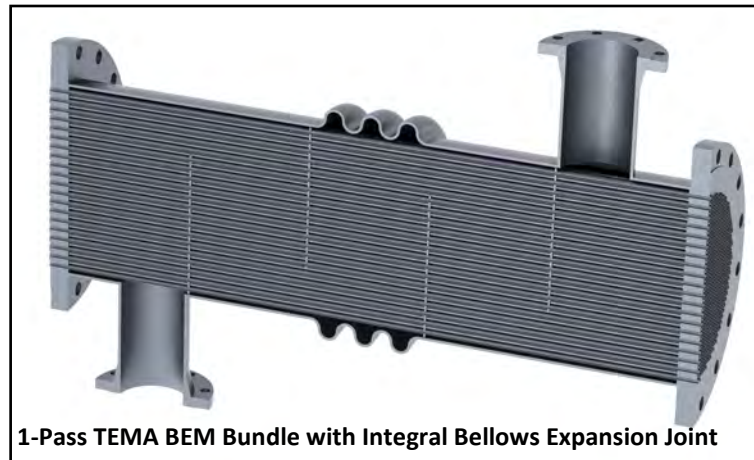
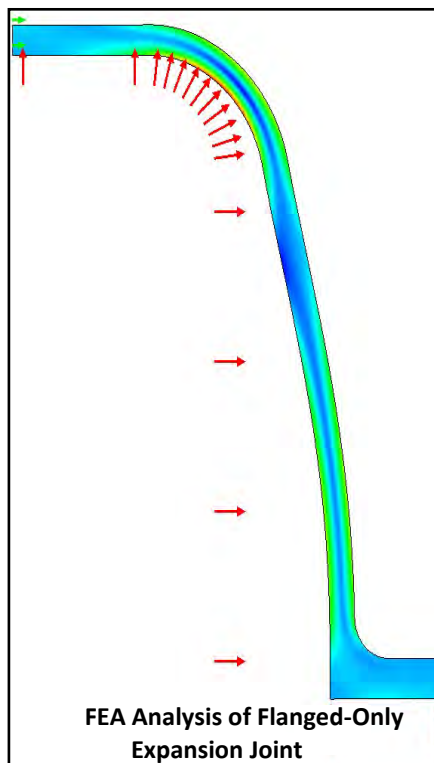
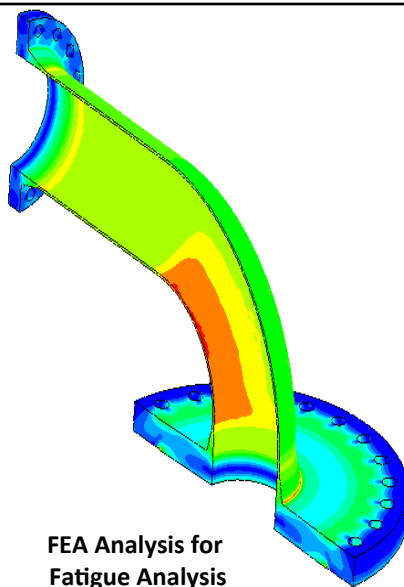


Engineering

Axton's integrated approach strategy includes a talented engineering group providing the necessary design and detailing expertise for our client's projects. The latest in sophisticated computer design programs are utilized.

- Process Design
Aspen HYSIS
VMGSim
- Mechanical and Thermal Design
Codeware Compress
HTRI Xchanger Suite
Solidworks Simulation (FEA)
- Design Detailing and Modelling
Solidworks 3D

As a member of HTRI, Axton is able to offer a complete line of heat exchanger design services. Starting from a process datasheet, a thermal design can be completed and followed through to fabrication. All TEMA shell arrangements are possible, as well as many other specialized designs.



Quality Assurance

At Axton Incorporated, quality is our number one priority. Strictly adhering to our quality assurance and quality control programs ensures all specifications are met. These processes include:

- Documented Quality Control and Quality Assurance programs
- ASME and National Board Reviews every three years
- Up-to-date amendments and revisions as per the ASME code
- Yearly ISO audits

Axton is equipped to perform various types of NDE including PT, MPI, UT, PMI, Helium Leak Test, and hydrotest up to 10,000 PSIG. Level II PT and MPI certified inspectors are employed in-house.

Inspections and test plans are developed for each project's specific requirements.

Certifications include compliance stamps:

- ASME 'U' Stamp Certificate of Authorization
- ASME 'S' Stamp Certificate of Authorization
- National Board of Boiler and Pressure Vessel Inspectors Certificate of Authorization 'NB' Symbol
- National Board of Boiler and Pressure Vessel Inspectors Certificate of Authorization 'R' Symbol
- Boiler and Pressure Vessel Contractor License Class A
- Boiler and Pressure Vessel Contractor License Class MA
- CWB CSA Standard W47.1, Division 2
- SAI Global Quality Management System Registration (ISO 9001:2008)

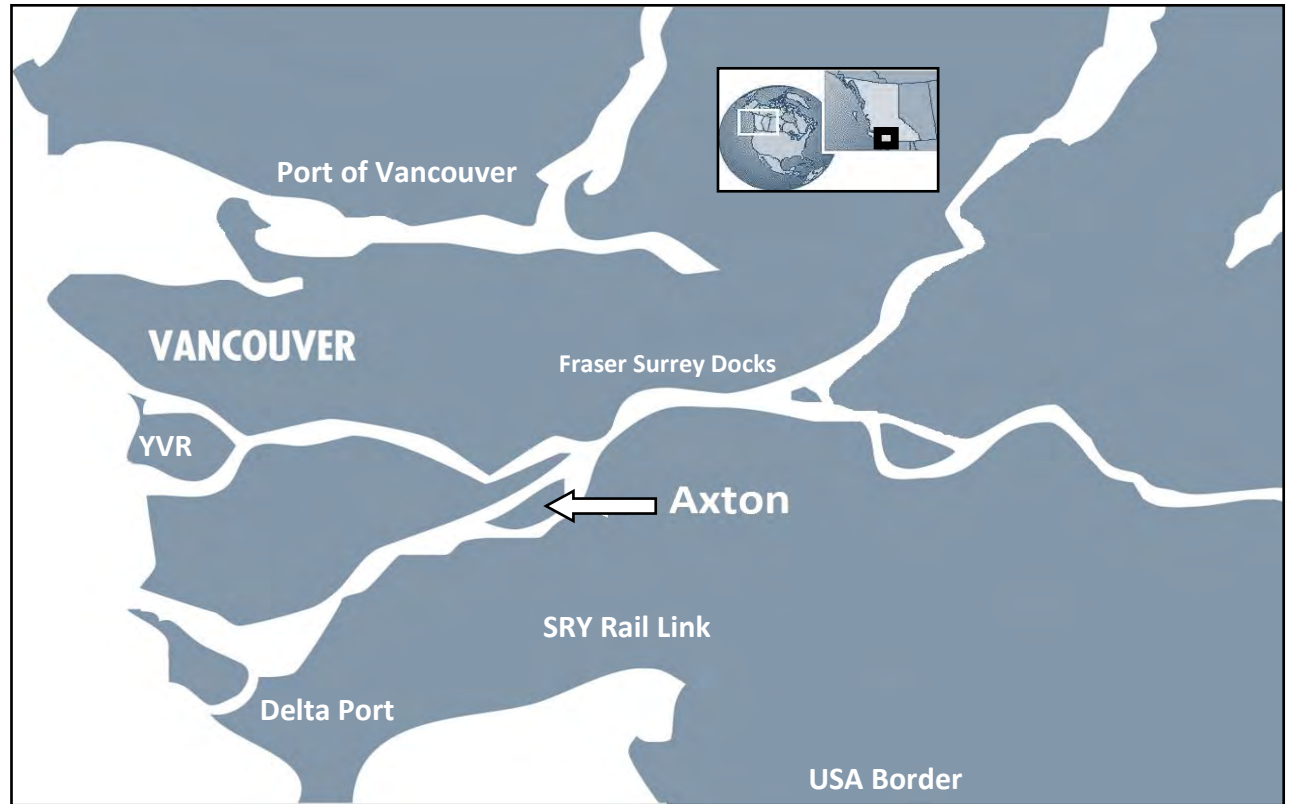
Axton has held ASME pressure vessel certification for more than 25 years and achieved ISO 9001 registration in 1997. Our quality system ensures that we can meet all specifications.

Shell and tube exchangers are designed to ASME Sect VIII, Div 1 and fabricated in compliance with the Tubular Exchanger Manufacturers Association (TEMA) B, C and R.

Piping fabrication complies with B31.1 and B31.3 Code



Road	Junction of Highway 99 and 91 - Motor Freight
Rail	Southern Railway Spur Line with tie-ins to CN, CP and BNSF
Water	Barge ramp with access to main shipping arm of the Fraser River
Land	5 Acres
Shop Area	66,000 sq. ft.
Total Area	68,845 sq. ft.
Outside Storage	30,000 sq. ft.



Logistics

From our manufacturing facility we have direct access to road, rail and water for transportation. Air freight is routed through Vancouver International Airport (YVR)

Truck

Adjoining Hwy 91 with direct access to Hwy 99 South to United States and from Hwy 91 to Hwy 17 North for destinations in Northern BC and Alberta

Rail

Rail siding adjacent to our facility. SRY Rail Link with linkup to CN, CP & BNSF

Water

The Annacis Island rail/truck barge loading facility is located adjacent to our plant with direct access for barge shipments. Fraser Surrey Docks, one of the largest marine terminals on the west coast of North America providing container, break-bulk and project cargo shipments is also a few miles from our facility.



1. BARGE & RAIL FACILITY
2. AXTON INC STAINLESS STEEL SHOP
3. PAINT SHOP
4. STAINLESS STEEL
5. MAIN BAYS
 - CARBON STEEL
 - STAINLESS STEEL
 - MACHINE SHOP
 - ASSEMBLY SHOP
 - PREP SHOP

Located on five acres of industrial waterfront only 20km from the Vancouver International Airport, Axton's fabrication facility is uniquely positioned to accommodate all industrial fabrication requirements. Featuring more than 68,000 square feet of space, the fabrication shop includes two separate segregated bays for stainless steel fabrication and nickel alloy fabrication. The largest bay has 50-ton capacity overhead cranes with 26'-0" under hook.



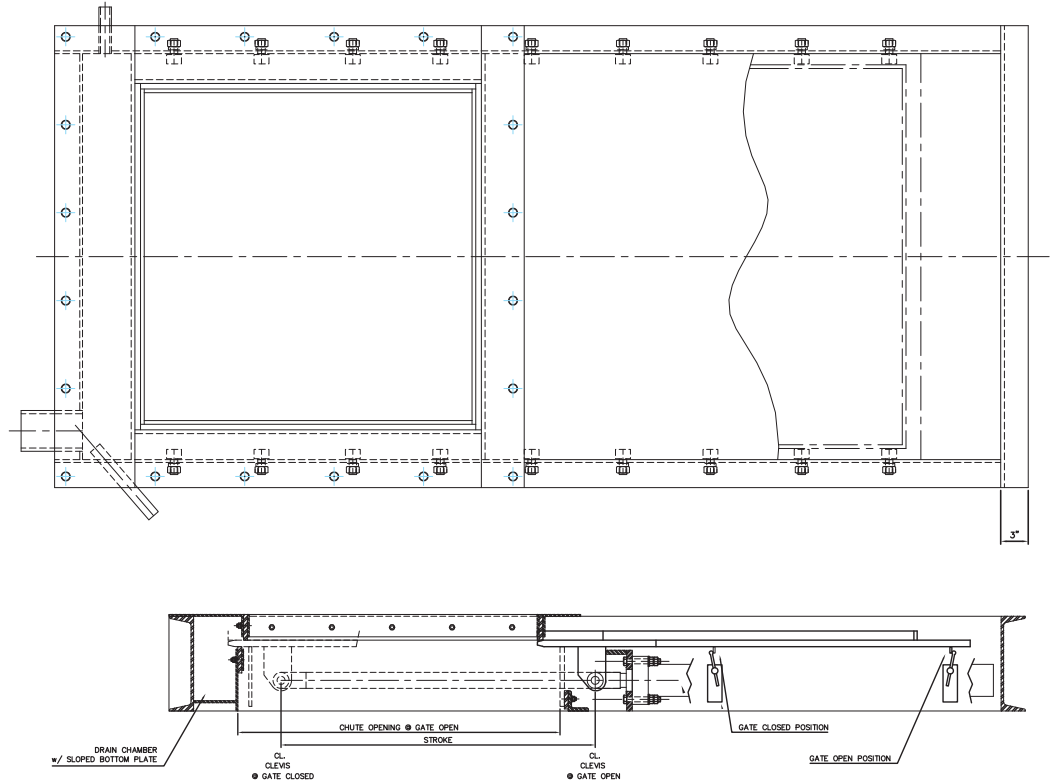
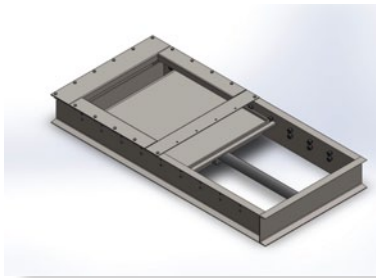
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SLIDE GATES



LEADERS IN CUSTOM EQUIPMENT MANUFACTURING

Oil & Gas ◀

Mining ◀

Petrochemical ◀

Pulp & Paper ◀



The axco Slide Gates manufactured by Axton have been successfully installed and utilized in a variety of different projects. Water & Sewage Treatment Plants, Grain Terminals, Saw Mills, and Pulp and Paper Mills are among the end users of our product.

Slide gate can be designed and fabricated to suit your project and specifications. Different types include watertight, dripless, distribution style, with or without drain chamber, pneumatic, electric or hand operated.

Control and operating systems can also be supplied to operate as a stand-alone system or to integrate with your plants existing controls.

DAMPERS

LEADERS IN CUSTOM EQUIPMENT MANUFACTURING

Oil & Gas ◀

Mining ◀

Petrochemical ◀

Pulp & Paper ◀



Axton Butterfly Dampers are designed to provide low leakage, flow control, by-pass, thermal control, depending on your function requirements.

The Dampers can be manufactured to suit all shapes of ductwork and are available in Carbon Steel, Stainless Steel or High Alloys.

Axton provides a heavy duty design suitable for your application. Our design can be utilized for extreme high temperatures and / or highly corrosive chemical applications.

Our shaft seals are designed to provide a clean, low maintenance and environmentally safe option with active compression followers that provide seal protection under any conditions allowing a maximum 2% through-leak seal design.

Axton Dampers do not require external supports and all components are accessible from outside flow area, this makes maintenance an easy procedure.

Damper actuators are available for manual, electric or hydraulic operation depending on the size and requirement, sensors can also be incorporated.

