

HYGIENIC STAINLESS STEEL SYSTEMS AND FABRICATIONS



ONE SOURCE, ONE COMPANY

We specialise in design and customised fabrication providing engineering solutions that meet the needs of our customers.

- Project design and management capabilities
- Product and process development
- Manual & orbital welding, machining, fabrication and polishing
- Full materials traceability
- Validation, testing and qualification to the highest levels
- 3D drawings to customer specification
- Manufacturers of filters including wedge-wire, perforated sheet and sintered mesh
- Stockist of process components, tube and pipe fittings
- Technical and training support



Project Management

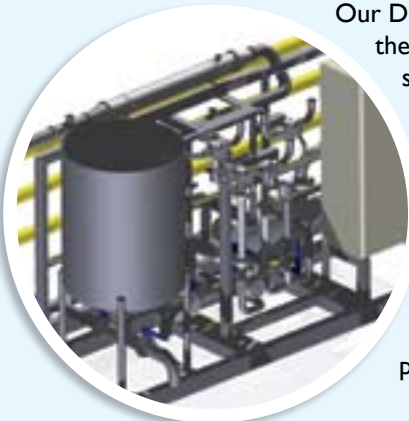


Typical projects can range from pressure vessels, process mixing systems and CIP systems up to the design, build and commissioning of fully automatic membrane filtration systems.



Working in accordance with strict QA procedures, each stage of a project is closely tracked by a dedicated project engineer to ensure that the user requirement specification (URS) is fully complied with.

Design



Our Design Office uses the latest design software enabling the visualisation of individual components and assemblies which is of benefit to customers wishing to develop an idea or progress to a prototype.



Our engineers routinely offer advice relating to cost reduction in the construction of fabrications in stainless steel, making sure that our customers receive the best possible value for money in terms of design, fabrication and delivery.

Visit our website: www.axiumprocess.com

Fabrication

Capabilities range from pipework fabrications up to high end pharmaceutical process equipment and plant.

Our welders and procedures are Notified Body approved to ASME IX/BS EN 287.

Materials of construction include 304/316/316L stainless steel, Hastelloy®, Duplex and engineering plastics.



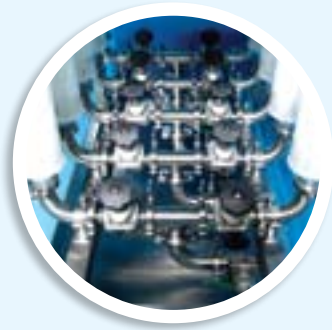
Typical Fabrications Include:

- Skid mounted systems
- Membrane filtration systems
- Hygienic machine frames
- CIP systems
- Pressure vessels and tanks
- Manifolds
- Aircraft workdecks and pipework
- Flowplates
- Filters
- Special bends, tees, hoseliners, spool pieces

In-House Processes

- Machining
- Orbital and manual welding
- Fabrication and polishing
- Surface finish, pickling, passivation, ferroxyl, pressure and dye penetrant testing

Our emphasis is on best practice engineering and capabilities include specialist high end pharmaceutical and fully integrated process plant



Inspection, Certification, Traceability

Axiom Process is an ISO 9001 registered company and operates rigorous procedures to ensure that all aspects of material selection, design, production, packaging and delivery conform to customer specification.



We Can Provide:

- Full materials certification
- Surface finishes to 0.10µm Ra, full Ra testing and certification
- Boroscope direct view and video records of each weld
- Weld maps and weld logs
- Dye penetrant testing
- Radiography
- Pressure testing up to 110 Bar
- Nitric or citric acid passivation to ASTM A967
- Ferroxyl testing and certification
- TSE certification
- Mechanical and electrochemical marking options
- Ultrasonic cleaning and vacuum packing



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Polishing / Surface Finishes

- Finishes from descaled to 0.10µm Ra
- Bead blasting, mirror and electropolishing options
- All polishing materials certified free of animal derived products



Axium Process Surface Measurements

Nominal Grit	Ra measurement		Typical Applications
	Micron (micrometer)	Micro-inch	
80	2.5	100	Dull polish - applicable for tube, bends and tees in general food processing subject to daily cleaning in place (CIP).
100	1.2	48	
120	1.0	40	
150	0.8	32	Satin polish - used by high end food and beverage plants, cosmetics, toiletries and with standard pharmaceutical and biotechnology applications. Easier to CIP.
180	0.6	24	
240	0.5	20	
320	0.4	16	Bright polish - Top end pharmaceutical, high value biotechnology components.
500	0.1 - 0.2	4-8	

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