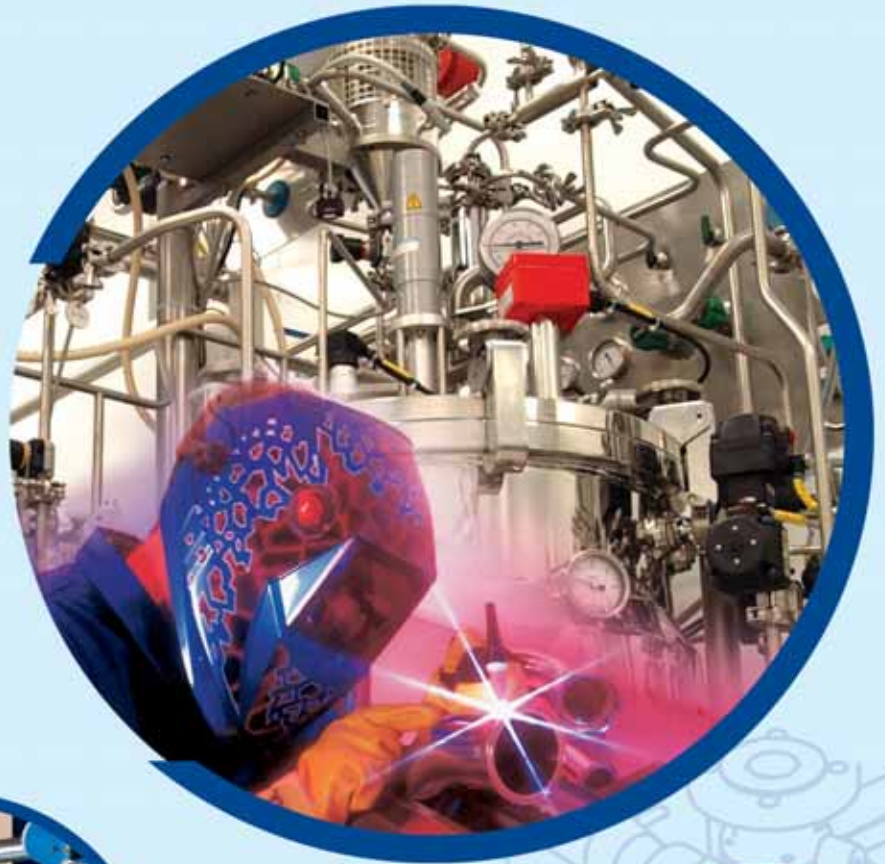


# HYGIENIC STAINLESS STEEL SYSTEMS AND COMPONENT FABRICATION



- Hygienic Process Plant
- Design and System Fabrication
- Project Management
- In House Manual & Orbital Welding, Machining, Fabrication & Polishing
- Component Customisation



## THE COMPANY

Axiom Process is a specialist stainless steel system fabricator supplying custom built process equipment, components, fittings and filtration systems to companies throughout the hygienic industries in the UK and overseas.

Operating from a modern 10,000 ft<sup>2</sup> facility, our capabilities include the rapid production of high quality adaptors and manifolds to fully integrated, customised hygienic process plant.

Investment in the very latest technologies, training, systems and procedures enable us to meet the stringent standards set by the pharmaceutical industry for hygienic design, manufacturing quality, surface finish and inspection.

## PROJECT MANAGEMENT

Our team of highly skilled engineers provide a complete engineering service and can offer:

- Project design and management capabilities
- Product and process development
- Drawings produced to customer specification using advanced 3D design software (Autocad Inventor)
- Technical and training support



### FABRICATED COMPONENTS TO CUSTOMER SPECIFICATION

- Adaptors, manifolds, Y pieces
- Butterfly, ball and sample valves
- Filters and sightglasses
- Jacketed pipework
- Tank and non standard ferrules
- Special bends, tees, hoseliners
- Tank manways
- Sprayballs and sprayball assemblies
- Flowplates

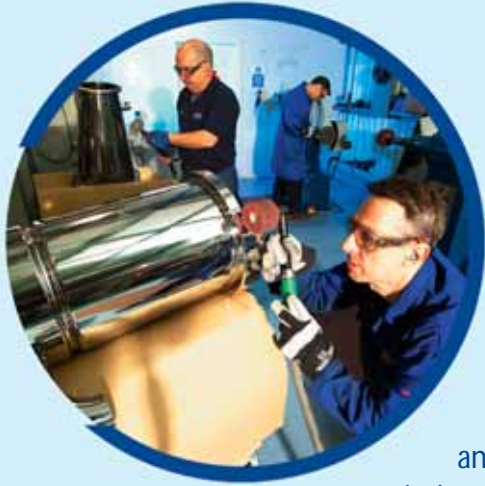


## DESIGN AND FABRICATION

Designing in accordance with ASME BPE-2002 principles, our emphasis is on best practice hygienic engineering. Capabilities include specialist high end pharmaceutical and fully integrated process plant.

- All welders are dual coded ASME IX / BS EN 287
- Manual and orbital welding
- In-house machining, fabrication and polishing
- Certificated surface finishes to 0.05  $\mu$ m Ra
- Only stainless steel fabricated on site

## POLISHING



Our team of polishers are trained to provide the level of finish required by the pharmaceutical and biotech industries.

- Finishes to 0.05µm Ra
- Bead blasting, mirror and electropolishing options
- All polishing materials certified free of animal derived products

## SURFACE MEASUREMENTS

Nominal Grit	Ra measurement		Typical applications and techniques
	Micro-meter	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). Normal abrasives required.
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. Sequential use of abrasives is required.
180	0.6	24	
240	0.5	20	
320	0.4	16	Bright polish - Top end pharmaceutical (water for injection), high value biotechnology materials, semi-conductors, solvents and pure gases. Abrasives plus electropolishing normally required.
500	0.05 - 0.2	4 - 8	

## QUALITY ASSURANCE

Axiom Process is an ISO 9001:2000 registered company and operates rigorous procedures to ensure that all aspects of material selection, design, production, packaging and delivery conform to customer specification.

As part of the inspection, testing and certification process, we can offer:

- Surface finishes to 0.05 µm Ra
- Boroscope direct view and video
- Dye penetrant testing
- X-ray
- Pressure testing to 60 bar
- Nitric acid or citric acid passivation
- Ferroxy testing
- Ultrasonic cleaning and vacuum packing



## TRACEABILITY

Traceability is paramount to companies operating in the pharmaceutical and biotech industries. We can provide:

- Full materials certification
- Weld maps, logs, welder qualifications and weld procedures
- Orbital weld print outs
- Mechanical and electrochemical marking
- Full Ra testing and certification with printouts
- Pickling, passivation and ferroxy certification



## FILTRATION

Our 316L stainless steel Pure-Screen wedge wire filter range is manufactured entirely in-house and requires no tools for access. The filter offers benefits such as reduced down-time for cleaning and maintenance. In addition it provides:

- The highest levels of product security
- Reduction in product variability, batch to batch
- Consistency of viscosity and improvement in smoothness and mouthfeel
- Avoidance of product granularity due to powder mixing limitations

The filters can be fabricated to customer specification and includes duplex, multiplex and jacketed options



By offering a rapid response to your fabrication enquiries and stocking a comprehensive range of process equipment, we can meet your requirements in terms of delivery, quality and consistency.

- Filters
- Sample Valves
- Sightglasses
- Manways
- Sprayballs
- Flanges
- Valves
- RJT, IDF, SMS, DIN, Clamp Unions

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