



INDUSTRIAL®
PLASTICS

PLASTIC FABRICATION SPECIALISTS

www.industrialplastics.com.au



Industrial Plastics™ has a reputation for being project capable which has evolved over the forty plus years it has operated in Brisbane.

Initially trading in Woolloongabba and then, re-locating as it expanded over time, Industrial Plastics™ is now based in a 2400 square metre factory with 3500 metres of secured hard stand in Murarrie.

Since the early days the business grew steadily but, after a change of ownership in May 2004, the increase in business development and maturity was particularly significant.

The current owners brought with them decades of past experience in running a commercial building business along with a background in the private and public health systems.

Such history ensured an awareness that great customer service has to be backed up with systems that ensure reliability, accountability, consistency and quality for the ongoing success and security of both Industrial Plastics™ and its valued customers.

To this end Industrial Plastics™ was proud to be an industry leader in achieving and maintaining quality assurance certification to ISO 9001 since 2008.

Staff development was given priority. Establishing close working relationships with industry specific RTO's meant staff are offered the opportunity to achieve nationally recognized vocational qualifications.

A desire to further broaden staff knowledge led Industrial Plastics™ to develop an enterprise specific training package based on the comprehensive requirements of the pre-eminent German technical codes for fabrication; incorporating hot air and extrusion welding¹.

Technology was the second priority. Importing not one, but two state of the art computer controlled sheet welding machines from Germany, meant the increasing technical requirements of high quality durable fabrication could be assured.

Systems refinement was the third priority. Systems that have audited and approved material suppliers also ensure full material traceability. Scheduled calibration of equipment and regular maintenance gives peace of mind on performance.

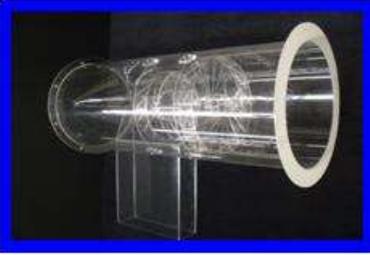
Project options can include provision of full production records such as Manufacturing Data Records (MDR's) and Inspection and Test Plans (ITP's), along with general Installation and Maintenance Instructions.

Our aim is to provide excellent service coupled with access to the highest quality options for when you need it most. Where your requirements are more utilitarian; Industrial Plastics™ offers efficiencies of scale gained through the effective use of technology and our impressive capacity, to rapidly provide for your needs.



We look forward to working with you to...

Communicate, Collaborate & Fabricate Solutions in Plastic



Industrial Plastics™ maintains divisions for both industrial and commercial fabrication using a variety of rigid plastic sheet, rod, tube and pipe, as well as some membrane materials.

Industrial Plastics™ also maintains significant and varied stock and supplies sheet, rod and tube. Options include full lengths or cut to size to meet both simple to complex requirements; promptly and at competitive prices.



Location:

18 Goodman Place Murarrie, Queensland Australia

- Adjacent to Gateway Freeway
- 10 mins from Brisbane Airport
- 15mins from Port of Brisbane.
- 450 Metres to Murarrie Railway Station



Facility:

Offices: 320 square metres

Work shop: 2,400 square metres

Secured Hard stand: 3,500 square metres

On-site water storage: 45,000 litres (available for hydrostatic tests)

Hydraulic loading bays x 2



Plant and equipment: See attachment 1

Design Options:

Being custom fabricators means your individual needs can be incorporated into projects.

Our qualified industrial design staff, experienced technical advisors and various trade qualified personnel utilise 2D and 3D software packages for project drafting and digital file generation for CNC cutting.



For tanks: the latest version of the German tank design software "RITA"² is utilised for static non-pressurised tank design incorporating cylindrical, rectangular and conical bottom tanks. RITA incorporates German technical codes for tank design³ as well as TUV⁴ certified calculations where common variations are required.

Design based on Finite Element Analysis can be arranged where required.





Existing parts can be reverse engineered to economically provide for repair or replacement of components.

Quality Assurance:

Tanks are constructed to comply with the relevant sections of the Australian chemical containment standard⁵ as well as the pre-eminent international design codes for fabricated thermoplastic tanks⁶ or dual laminate tanks⁷



Production weld procedure specifications (WPS) incorporate the relevant codes¹ and are supported by a welding procedure qualification (WPQ) independently assessed using relevant test standard⁸.

Strict, documented in-house quality tests include high voltage spark testing⁹, weld dimension measurements, workshop flexural bend test and destructive tests of trial welds. On premises hydrostatic testing is undertaken where requested. We have on-site a re-usable water supply of 45,000litres



Provision of all quality documentary requirements can be arranged:

- Manufacturer Data Reports (MDR)
- Inspection and Test Plans (ITP)
- Routine transport, storage and installation instructions
- Maintenance manuals



Material is sourced and tracked from our approved suppliers only. Complete traceability is assured.

Skills, Experience and Training:

Industrial Plastics™ encourages a culture of excellence and pride.

We are proud of our staff and the work we do and that philosophy translates to you having reduced worry when it comes to your purchase.



For in-house training Industrial Plastics™ developed an extensive enterprise based welding training package inspired by the European Standard¹⁰ and DVS Technical Code¹¹ for qualification training and testing of thermoplastic welders.

Once this training package is completed, theoretical and practical assessment is done based on the requirements of the codes. Test welds are independently tested – providing welder performance qualification (WPQ) as well as welcome feedback. A salary incentive linked to successful completion of the package motivates staff to undertake it. The comprehensive theoretical component of the package contributes towards ongoing engagement and accountability.



In addition, key production personnel have completed training with visiting German trainers to achieve the DVS recognized welding qualification for hot air, extrusion and heated tool welding.



We have utilised the Plastic and Rubber Industry specific RTO (*PARTEC*) to ensure senior fabrication staff have nationally recognised qualifications to at least Certificate III in Plastic Processing – Fabrication.

Plastic fabrication was recognised as a trade in Queensland since 2004 and Industrial Plastics™ has had apprentices since that time.



Our skills are complimented by the fact that most of our plastic fabricators also hold a previous trade qualification in other fabrication trades such as boiler-making, carpentry or fitting and turning.

Industrial Plastics™ is motivated to ensure our level of professionalism is reflected in the industry. Staff are active members of international professional associations to ensure latest developments are identified and adopted in our field.



Industry Associations Maintained:

- Society of Plastic Engineers
- The UK Welding Institute
- The UK Welding and Joining Society



Insurance Maintained:

\$10million public liability
Workcover QLD Insurance.
Certificates of currency are available on request.

Previous Projects: See attachment 2



References:

1. DVS* 2207 Welding of thermoplastics.
* Der Verbindungs Spezialisten (German Welding Society)
2. Roechling Integrated Tank Analysis (tank design software).
3. DVS 2205 Design calculations for tanks and apparatus made from thermoplastics.
4. Technischer Überwachungs-Verein (German Certification Body)
5. AS 3780 The storage and handling of corrosive substances.
6. DVS 2205 Calculation of tanks and apparatus made of thermoplastics.
BS EN 12573 Welded static non-pressurised thermoplastic tanks.
7. EN 13121 GRP tanks and vessels for use above ground.
8. DVS 2203-1 Testing of welded joints between panels and pipes made of thermoplastics - technological bending test.
9. DVS 2206-4 Non-destructive tests on tanks, apparatus and piping made of thermoplastics – testing with electrical high voltage.
10. EN 13067 Plastics welding personnel – Qualification testing of welders – thermoplastic welding assemblies.
11. DVS 2212 Qualification testing of plastic welders.



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Attachment 1 - Plant and Machinery

- 4000mm Wegener Sheet Butt Welder (up to 60mm thick) incorporating automatic roller
- 3000mm Wegener Sheet Butt Welder (up to 60mm thick)
- Beam Saw 4500 x 3800mm
- CNC Multicam router 3000 x 2000mm
- CNC Multicam router 2600 x 1400mm
- CNC Laser Cutter 1200 x 1200mm capable of 2400 x 1200mm
- Panel Saws x 3
- Extrusion Welders x 8 (including PVC capable)
- Hot air hand welders – numerous
- Pipe Butt Welders x 2 (up 255mm diameter)
- Socket Fusion Welder
- Electro Fusion Welder
- Multiples of various power tools, bandsaws, pedestal drills etc
- Hydraulic Brake Press
- Forklifts x 4
- Rolling Gantry – 1.5 tonne
- Scissor Lift 8 Mts
- Diamond Polisher
- Sheet forming oven (2440 x 1220mm capacity)
- Double sided automatic line bender
- Work Vehicles x 3



Attachment 2 – Previous Projects



| Client | Description |
|--|---|
| South Burnett Reg. Council | 110,000L Cylindrical water storage tank 15000mm high: HDPE |
| Aquatec Maxcon | 4010 x 4010 x 3900mm Steel reinforced sloped base tank: HDPE |
| Xstrata Copper | Mining launders(13) 18.6M long: steel encased HDPE |
| Rio Tinto | 70,650L Bolt together HDPE tank with polycarbonate viewing ports |
| Burnie Council | 10,000L Cylindrical sodium hypochlorite tanks: PVC-u |
| Tyco Engineered Tanks | Chilled water tank diffuser: complex piping project |
| Leighton Contractors | 53,800L Cylindrical caustic tanks: HDPE (two) |
| Jellimbah Resources | 4000L Conical slurry tank with internal ladder: HDPE |
| ARA Nyrstar | 95,000L Sloped floor tank with anti-vortex plates: HDPE |
| Applied Australia | Multiple self bunded processing tanks: HDPE |
| Origin Energy CSG Ltd | 26,300L False floor surge tanks: HDPE |
| Goodman Fielder Tanks Solutions | 9,000L Conical top/bottom sauce storage tanks: Polypropylene 10,000L Dual laminate PVC-u/FRP tanks with incorporated HDPE bund |
| Warrnambool Cheese & Butter | Large segmented mobile food process bins: steel supported HDPE |
| Orica Water Care | Self-bunded hypochlorite tanks: PVC-u/FRP (multiple) |
| Feedworks | 40,000L Self-bunded tank 5434mm high: HDPE |
| Xstrata Zinc | Mining launders(8) varying lengths: steel supported HDPE |
| Custom Chemicals | 10,000L Cylindrical chemical mixing tank: Polypropylene |
| Aqueous Solutions | Clarifier and filter feed tanks: HDPE |
| Triple Nine Stainless | 15,000L Cylindrical sloped floor, false base tank: Polypropylene |
| Australian Refined Alloys | 30,000L Cylindrical process tank: HDPE |
| Wiley and Co (Schweppes) | 60,000L Cylindrical tanks - 8300mm high x 3200mm diameter: HDPE |
| Veolia Water | 45,000L Rectangular tank 7000 x 3500 x1900mm: HDPE |
| Leighton Contractors | 47,000L Cylindrical ammonia tanks: HDPE |
| Ecolab | 15,000L Cylindrical nitric acid tank: PVC-u encased with HDPE |