PAGE STEEL
FABRICATION PTY. LTD.

www.pagesteel.com.au

About us

Page Steel Fabrications was established in 1970 as a fabricator and metalworker.

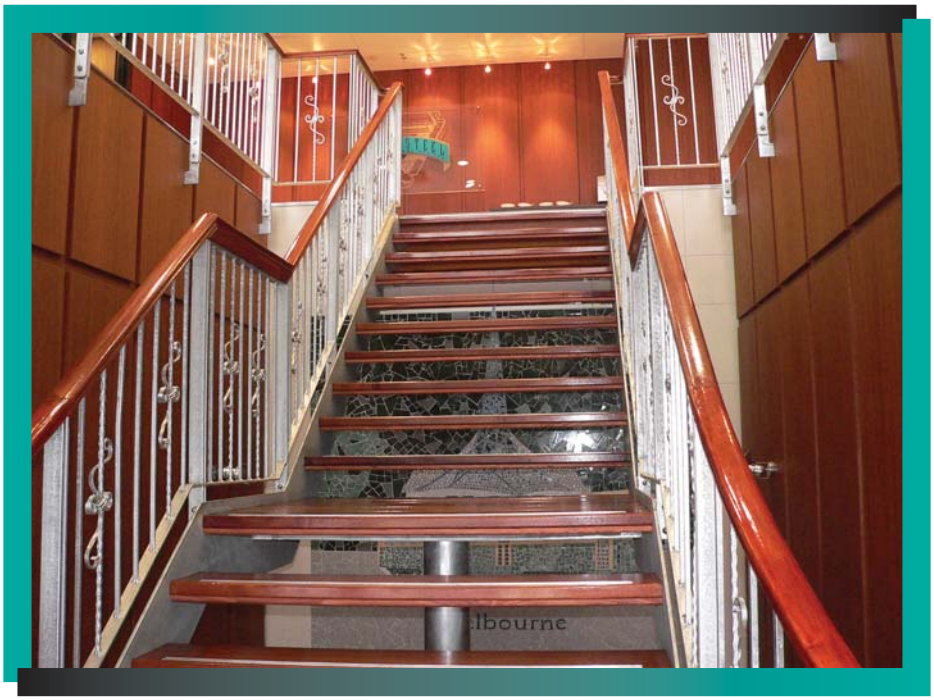
Since this time Page Steel Fabrications has expanded as a business and adapted to the ongoing changes in our industry by implementing plant and equipment to automate our processes. This has allowed us to further improve our product and completion dates for our clients. Our plant and procedures enables Page Steel Fabrications to provide a quality product at competitive prices.

We recently constructed a purpose built workshop and office facility at Derrimut. This was done in consultation with our workshop personnel to ensure the new facility allowed us to manufacture as efficiently as possible. The workshop area is 5600m2 with eight gantry cranes and multiple jib cranes. The design and layout of the workshop negates delays in unloading and loading. Page Steel Fabrications utilises the latest technology in our workshop and office, implementing barcoding and CNC machines.

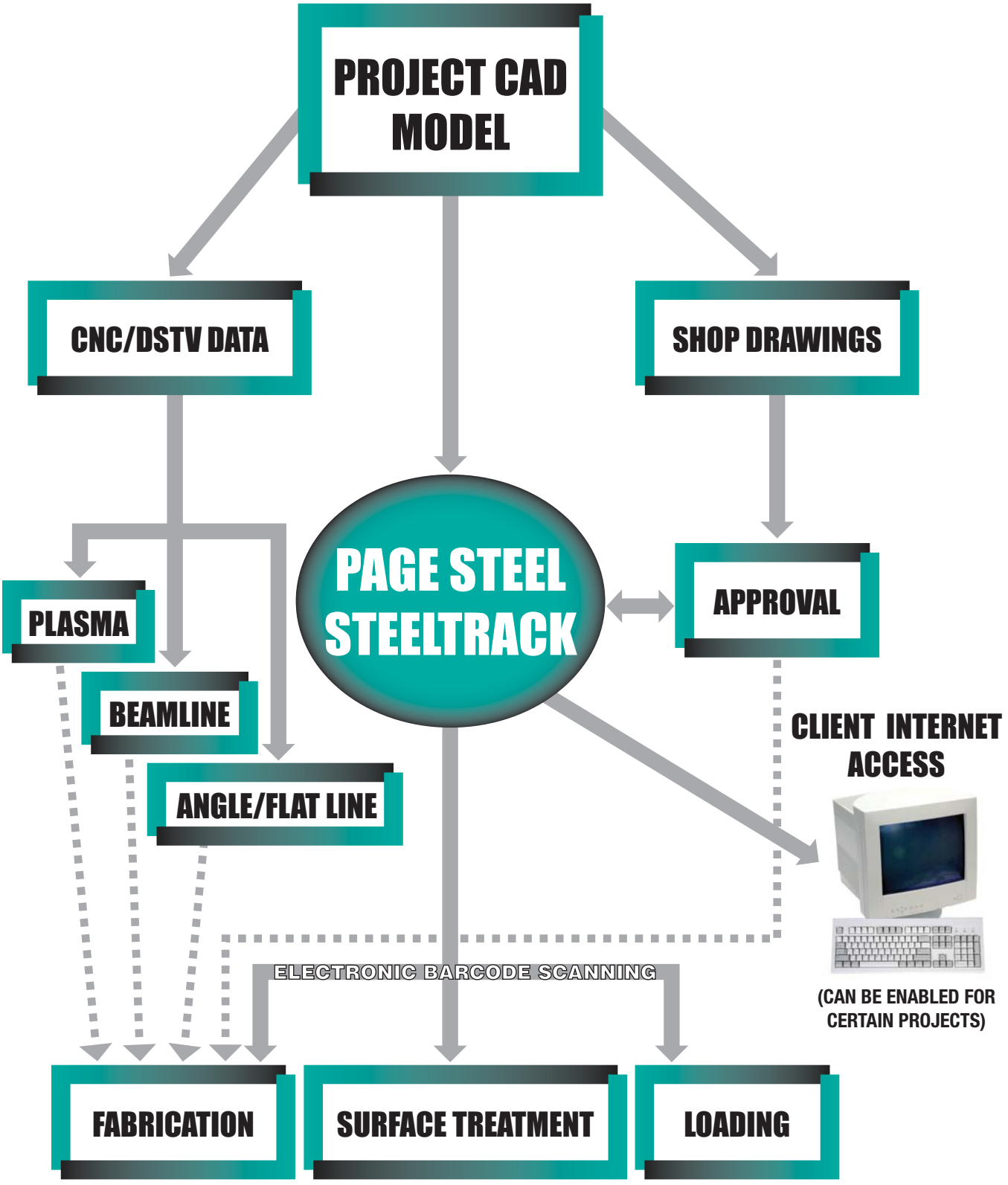
By employing personnel with steel, drafting and construction experience we believe we have the necessary know how to understand our clients' requirements. We endeavour to minimise our clients' workload by having Page Steel Fabrications' methods and procedures assist in the management of your project.

We are aware that our clients' want reliability and service when working with us. This is what Page Steel Fabrications pride ourselves in achieving.

Allow us to show you what we can do.



Full Steel Traceability



Page Steel Fabrications' Steeltrack proprietary software provides a real time status of every steel member for every product.

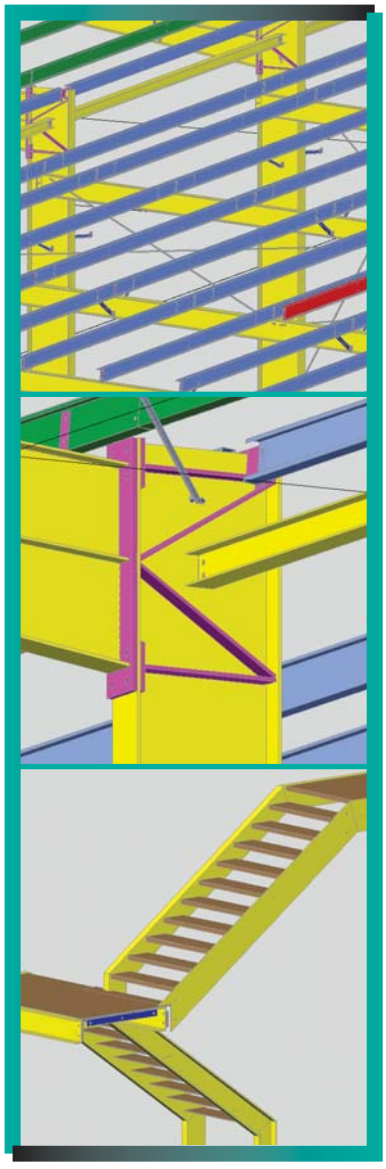
Steeltrack - Barcoding

Page Steel Fabrications have had a local software house design and build a custom barcode tracking software package named 'Steeltrack'. This package connects the workshop processes to the office management staff via their computers. All areas of the fabrication process are fully monitored by Steeltrack. This enables Page Steel Fabrications staff to find out the exact position of each member on any project with the click of a mouse.

Steeltrack produces weighted delivery dockets, and advises the status of surface coatings and fabrication. Steeltrack also indicates the status of each stage of a project and ensures all members are ready for erection before the due date. Site personnel love the way Steeltrack locates hard to find items. They are also impressed by the packages ability to give riggers and foreman exact delivery dates and to identify all members that had been delivered on the same load. This can save valuable time for site staff trying to locate items on large sites.

Steeltrack is also a live system, so as a member has completed a particular process the office staff have real time monitoring of each component on every project. When specifically required and agreed to, Steeltrack can be made available over the internet for clients to track their project.

A special oil resistant tough tag has been developed and is attached to steel members, giving a clear member mark, length and weight making identifying each component easy.



Drafting

Page Steel Fabrications use the 3D modelling system Prosteel for drafting of our projects. Each project is fully modelled on Prosteel before moving into the detailing department where the shop details are finalised. Unlike other modelling systems, Prosteel enables the drafting department to start producing details for projects before the project model is complete. Usually project time constraints prohibit the full model to be completed before the drawings are produced. With the flexibility of the Prosteel modelling system Page Steel Fabrications can start to issue shop drawings within a few weeks instead of months.

Page Steel Fabrications' drafting office is equipped with the latest technology. It has the ability to print all size drawings produced as well as architectural and engineering drawings received via email. Prosteel also produces all NTSC compatible files to be used in the programming of all CNC machines in the Page Steel Fabrications' workshop.

The 3D modelling system provides a "Clash Test" function, which enables the testing of all steel members for clashes during drafting. This "Clash Test" function enables a clash between steel members to be picked up in the drafting office and rectified prior to delivery to site. This can avoid the necessity to rectify clashes that are usually identified on site by the riggers.

With consultation the model can be made available to our clients for other trades to seamlessly integrate their products into or around the steelworks. If requested a full colour laminated print of the model can be presented to our clients at the end of the project.

Machinery

Plasma - Oxy

Over the last two years Page Steel Fabrications has invested heavily in CNC automation. A new HI-DEFINITION plasma machine has been installed, which is able to process plate up to 32mm thick, 3000mm wide and 12000mm long. A CNC Oxy cutter has been installed to process plates over 32mm in thickness. An environmentally friendly fume extraction table has also been added to eliminate the disposal of polluted water, which is usually associated with plasma cutting equipment.

Full Beamline Processing

A multi spindle beamline was installed in 2007. This equipment has the ability to cut and drill sections up to 21m in length. This new style CNC beamline integrates seamlessly with our internal 3D modelling drafting system and is programmed from our drafting office. A cross transfer system was also purchased to fastrack the in-feed and out-feed of material into the beamline conveyor. This cross transfer system eliminates handling with over head cranes. The beamline is networked to the company servers, and has a phone line that enables international technician's remote access for diagnosis and future upgrades. This installation gives Page Steel Fabrications a much increased capacity enabling high volumes of steel to be fabricated quickly.

Automated Section Blaster

An automated section blaster with 6 No. blast motors enables quick and efficient blasting of all steel sections. The self contained section blaster has the ability to blast steel at Class 1 to Class 2.5. The section blaster recycles the used shot until it turns to waste, which is then filtered to a fines out bin and removed. The fully enclosed blast chamber removes all mess and dust particles, leaving a clean working environment for workshop staff. A very simple to use machine, "it goes in rusty and comes out clean" is the motto for this workhorse.

Spray Equipment

In addition to the section blaster, 20 metres of spray booth has been installed. This booth is accompanied by a bulk painting system that enables handling of 200 litre drums of paints and solvents. The complete paint system is all linked, with easy switching from paint to solvents with the turn of a valve. The paint system also incorporates a recirculation function to enable zinc rich paints to be mixed to avoid zinc build up at the base of the drums. This custom designed system is driven by a large Graco airless unit running two spray lines.

Automated Angle and Flat Processing

2008 has seen the introduction of a fully automated CNC angle and plate line. The new machine further automates production of all angles from 40mmx40mm upto 200mmx200mm, and all plates and flats from 50x6 to 300x25. Hole positions and lengths are all cnc controlled. The machine is also fitted with automated infeed and outfeed conveyors eliminating manual loading and unloading. Transferring of cnc files is handled by the fully hard wired, networked workshop that integrates into the Page Steel Fabrications servers.

Blast & Paint

Page Steel Fabrications have the ability to shot blast / grit blast all steel sections up to 24m in length. The automated section blaster thoroughly cleans steel up to a class 2.5 blast. This type of automation eliminates the old style of cleaning steel with power wire brush to class 1 or hose and blast nozzle to class 2.5.

As most clients know there is no comparison between a power wire brush finish and a blasted finish. Even at the lowest blast specification of class 1, Page Steel Fabrications well exceed this minimum, and produce closer to class 1.5 to class 2 at no additional cost to the client. The extra blast preparation ensures that even basic primed steel has a far better finish than clients expect.

The automated section blaster is environmentally friendly, as it recycles all of its own shot / grit until small enough to be separated into a fines out bin. The rust particles are separated and disposed of. EPA and Worksafe approved fume extraction units have been fitted to evacuate all fumes from the painting area.

Page Steel Fabrications utilise an airless system that is fitted to a bulk paint storage system. This storage system enables usage of 200lt drums or conventional 20lt drums. Painting is performed on two shifts to achieve 20 tonnes per shift.

Mining

Conveyor S13 Trestles, Drive & Transfer Tower & Gallery

The Conveyor S13 Trestles, Drive & Transfer Tower & Gallery project comprised of 1200 tonne of trestles, towers and gallery steel work for the Darymple Bay Coal Terminal (DBCT), south of Mackay in Queensland

Due to the oversize width and length of the frames for the gallery steelwork, the handling of these components posed some interesting challenges. Any issues were easily overcome by the spacious layout of Page Steel Fabrications' new purpose built workshop facility in Derrimut, which provided ample overhead cranage and in-house transportation expertise to handle these oversized components.

Through the fabrication process we engaged visual inspection, ultrasonic examination and magnetic particle testing services to ensure all works met the required quality levels. Our Client also provided visual examination at certain hold points. This visual examination by both our Client and Page Steel Fabrications continued on through the protective treatment applications

In order to meet the Clients stringent quality requirements, a comprehensive quality control system was implemented from material supply through to protective treatment of the steel, and transport coordination. Full material certification and traceability was maintained for supply of all steelwork in conjunction with our suppliers. A project requirement for testing of all welders to pass a proficiency test was successfully accomplished, with all welding executed to approved welding procedures.

Given the complex nature of this project, we engaged both internal and external drafting services. Following extensive and rigorous drafting design coordination, the trestles and galleries were modelled, with shop drawings produced to a high level of detail.

Page Steel Fabrications' scope of work included the detailing, supply, fabrication and protective treatment of the steel components and frames. We were also responsible for the coordination of the final transport of the completed components to Queensland.

Engineering

Citylink Exhaust Stack

As can be seen from the pictures to your left, the exhaust stack was a large pipe fabrication especially designed to extract fumes from the Citylink tunnel.

A high percentage of welds in the stack had to be inspected to meet the high standards required for this design. Page Steel Fabrications had to work with tolerances normally associated with engineering workshops. This did not pose a problem as certain systems had been put in place to accommodate this requirement, prior to shop drawings being produced.

Normally the length of pipe frames would have been difficult to maneuver, but were handled with ease in Page Steel Fabrications' new workshop, which was purpose built for long and wide manufactured sections. To allow for the over length load to be steered around corners during transportation, a prime mover and a steerable bogey was used.

The finished paint system used on the stack was that of an automotive finish. This meant that any blemishes on the steel would show up. A great deal of time was spent visually inspecting all surfaces and making sure of a first class paint finish.

Page Steel Fabrications also erected this project to the tight tolerances required to ensure the client's mechanical equipment fit into the correct position.

Multi Level

Deakin University Carpark

The Deakin University Carpark structural steel package was a 500 tonne project awarded to Page Steel Fabrications. Page Steel Fabrications called on expertise gained on our previous multi-storey carpark projects to develop and adopt fabrication methods to aid in meeting the proposed tight project schedule.

The steel package for the project consisted of shop detailing, supply, fabrication, erection, laying the steel profiled sheeting, shear stud welding and the facade supply and installation. The tenderers were assessed on price and quality of their work. During the tendering process, a visit was made to each of the tenderers to determine their compliance with the requirements of the welding code, AS/NZS 1554.1. In particular, evidence was sought on the use of qualified welding procedures and the qualification of the welding supervisors.

Page Steel Fabrications processed the plate and flats for the connections, which were in turn assembled and welded to the sections. In addition, most of the beams were cambered for dead load.

The client was pleased that the project was finished on program. This allowed revenue to start streaming and an earlier return on the investment, over a concrete design.

Warehousing

Fosters Group

The Fosters Distribution Warehouse, located in the DB RReef Industrial Estate off Boundary Road in Laverton North, is an impressive 52,808m2 facility inclusive of an Administration Office, Dispatch Office and Gatehouse. Page Steel Fabrications provided a total of 1110 tonne of steel for this project, all of which was fabricated in house just up the road from site in our new purpose built facility in Derrimut.

All processes required to produce the steel for the project, from cutting of plate and shot blasting of steel to the welding and prime painting of the final steel, were undertaken within our premises utilising our modern equipment.

Page Steel Fabrications commenced the project on time and was able to maintain a constant flow of steel to site utilising our own transport. The early planning and staging of the project in consultation with our Client, the Engineer and the Erectors assisted us in completing the project ahead of schedule to the great benefit of our client.

The imposing 1200WB columns, which protrude through the warehouse roof and were required to support the loading dock canopy for the 15 bays of the warehouse, were the only component of painted steel to be outsourced by Page Steel Fabrications for protective treatment.

Our barcoding and scanning technology allowed us to easily keep track of these columns and all steel components during all steps in the fabrication, painting and delivery process.

The 1100 tonne of steel produced for this project was handled with ease within our workshop, which provides ample overhead cranage and smart lifting systems.

The Fosters Group Warehouse was a stimulating and rewarding project for us to be involved in. It proved that Page Steel Fabrications new purpose built facility was easily able to cater for high tonnage projects.

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