

The engineers, the ideas, the solutions



MPA ENGINEERING

a company introduction...

Snapshot of Clients

- Amcor Group
- Arnotts Biscuits
- Boral Group
- Bundaberg Sugar Group
- Carlton United Breweries
- Castlemaine Perkins
- Castrol Australia
- City / Shire Councils:
Beaudesert, Brisbane,
Caboolture, Caloundra,
Gold Coast, Maroochy,
Pine Rivers, Redland, Townsville
- CSR Readymix Group
- Defiance Milling
- Fisher & Paykel Manufacturing
- George Weston Milling
- Hills Industries
- Hume Masterpanel
- James Hardie Group
- John Goss Projects
- Namoi Cotton Group
- Network Ten Ltd
- OneSteel
- Paul's Limited
- Pepsi Cola
- Pioneer Roof Tiles
- PPI Neta
- Queensland Nickel
- Queensland Department of
Health (RBH and RWH)
- Shell Australia and Fiji
- Siemens
- Sigma Pharmaceuticals
- Smith's Snackfoods
- South Pacific
Breweries (PNG)
- Stanwell Corporation
- Tip Top Bakeries
- Tubemakers Group
- United KG
- Western Milling

About us...

MPA Engineering is a leading electrical systems integrator, specialising in sophisticated machine and plant automation solutions. Based in Brisbane, Queensland, MPA services customers throughout Australia, as well as internationally.

Established in 1990, MPA is a highly competent, customer focused organisation dedicated to providing the best design, manufacture, installation and commissioning of electrical control systems to some of Australia's prominent manufacturers and processing companies, including CSR Humes, Pioneer Roof Tiles, Castlemaine Perkins and Sigma Pharmaceuticals.

A team of skilled and industrially experienced, professional engineers, execute large and contractually challenging engineering projects. A specialised team of trades-people, technical specialists and office staff, supports this expertise. MPA is therefore well equipped to develop and implement industrial solutions to improve plant productivity. MPA has quality assurance in compliance with the requirements of ISO9001; all project work and software designs are undertaken to comply with the QA system. MPA maintains Workers' Compensation for all its employees and holds Public and Products Liability cover for \$10,000,000 and Professional Indemnity cover for \$1,000,000. These levels are able to be reviewed on a project basis and can be increased to any appropriate level.

MPA consists of seven divisions:

- Engineering Services;
- Electrical Workshop and Installations;
- Technical Services;
- Information Technology Services;
- Electronic and Embedded Control Services;
- Research and Development Projects; and
- Product Sales Division.

Engineering Services

MPA's team of professional engineers provide practical, effective and competitively priced industrial automation and process control solutions. This team designs, installs and commissions systems for a diverse range of manufacturers, no matter how large or small the organisation. MPA's areas of expertise include: electrical consulting and project management; factory automation; water and sewerage control; PLC based control systems and SCADA systems; switchboard design; basic and general software programming using a number of languages, (e.g. Visual Basic, Visual C++, SQL); weigh batching systems; power station and standby power systems; and hazardous area systems. MPA is also a Siemens Systems Integrator, as well as a CITECT Gold Integrator.

Electrical Workshop and Installations

MPA's Electrical Workshop provides clients with a complete industrial and commercial switchboard design, manufacturing, installation and commissioning service. From the very largest of motor control centres to the smaller control panels for OEMs, the Workshop builds high quality switchboards to client specification. All boards are manufactured to AS3439 and MPA has designed a Form 3B switchboard which is type tested for a fault current rating of 63kA at 415V for one second and 50kA for three seconds, with loads up to 3000A. MPA holds an electrical contractors license and undertakes electrical installations and contract work, specialising in the industrial environment.





Technical Services

MPA's Technical Service Division specialises in the repair and maintenance of electrical equipment. MPA supplies, services and commissions AC and DC drives and positioning systems, as well as PLCs. This Division also provides breakdown assistance for electrical controls and general industrial machinery. It is also responsible for general machine retrofits and upgrades including PLC or CNC control systems. The Technical Workshop provides a repair service for electronic equipment and boards for industrial and non-industrial applications, including linear and switched mode power supplies, microprocessor controller boards, process / motion controller boards, electronic displays, monitors and special obsolete PCB's.

Information Technology Services

MPA's IT Division provides a wide range of IT related services to clients, including custom application development, database programming, and control system integration with management information systems.

Electronic and Embedded Control Services

MPA provides an in-house embedded control design service for specialised applications. Full PC board development using Protel with microprocessor software is also available. This service can take projects from the concept stage right through to the working prototype.

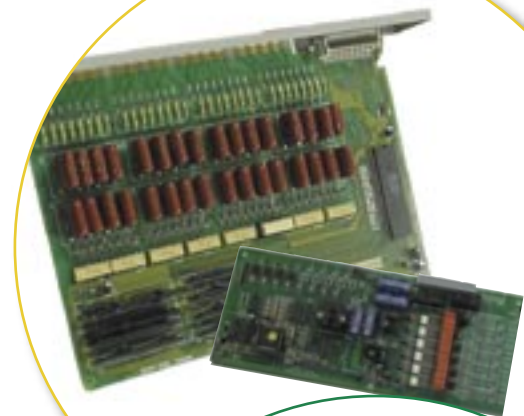
Research and Development Projects

MPA has an ongoing commitment to R&D projects, and is continuing to develop products required by industry. A number of in-house products have been developed for the industrial market, including moving electronic message displays or "marquees", cut to length solutions, automatic controllers and batching software.

Product Sales Division

MPA's Product Sales Division focuses on the sale of automation equipment and industrial computers. MPA distributes Siemens PLCs, automation products, SCADA systems, and a diverse range of drives – which are available either as standard off-the-shelf products, or they can be engineered to meet specific customer needs. Variable Speed Drives (or VF Drives) allow the matching of the speed of the motor-driven equipment to the process requirement, resulting in significant energy savings. With technical support from in-house engineering staff, the Sales Division offers customers an extensive range of automation equipment to suit most industrial applications, including:

- Automatic Guillotine and Press Brake Systems
- Automatic Power Backgauges
- Batching Software
- EasyControl – 1 or 2 Axis Controllers
- Hazardous Area Products
- IKUSI Radio Remote Controllers
- Instrotech Range of Instrumentation and Process Control Products
- Level Measurement Systems
- Moving Electronic Message Displays
- Process Instrumentation and Data Acquisition Products
- SCADA Systems
- Siemens Industrial Automation Products – including PLCs, HMI Systems and Power Supplies
- Uninterruptible Power Supplies (UPS)
- Variable Speed Drives
- Vision and Control Products.



Project Profiles

Since MPA's inception in 1990, the company has developed a reputation as one of Queensland's leading specialists in machine and plant automation. In this time, MPA has engineered a wide range of major projects – *for information on more projects visit www.mpaeng.com.au*. A small selection of these are listed below:



Brewing Projects

- **Castlemaine Perkins, Milton** – Design and commissioning of PLC software for new Yeast Room; Maintenance role in the Packaging and Brewing Departments; PLC programming modifications to new and existing systems.
- **South Pacific Holdings, PNG** – Design, programming and installation of the upgrade to existing mobile pump controllers.

Concrete, Brick and Tile Manufacturing Projects

- **Boral Petrie Quarry** – Design, programming, installation and commissioning the upgrade of the PLC / SCADA system.
- **CSR Humes** – Engineered the electrical upgrade to Batch Plant 3 at Eagle Farm.

Industrial Projects

- **Queensland Towbars** – Electrical design and commissioning of automatic conveyor systems as well as an electric drying oven.
- **Royal Brisbane Hospitals Complex** – Design, programming and commissioning of RBH high voltage network control system, motor control switchboard and PLC control system for the new East and West Block Complexes.

Petrochemical Projects

- **Castrol Australia** – Installation of all electrical controls and instruments for the new additive tank at the Whinstanes site. Heat trace was installed on all pipework to maintain the additive at a useable temperature.
- **Nationwide Oil** – Designed, manufactured, installed and commissioned a floor standing, outdoor switchboard including a PLC, Touch Panel and Remote Operator Interface for the new unloading and treatment process.

Sugar Industry Projects

- **Moreton Sugar Mill** – Engineered the remote control of train crossing lights.
- **Rocky Point Sugar Mill** – Designed closed loop process control system, incorporating SCADA and PLC programming and commissioning.

Water and Sewage Treatment Plant Projects

- **Gold Coast City Council** – Design, programming, installation and commissioning of a water purification process control system.
- **Redland Shire Council** – Switchboard manufacture, PLC and CITECT SCADA supply, as well as programming and commissioning services.

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