

The engineers, the ideas, the solutions



MPA ENGINEERING

product information...



DESK	CHKD	APPD	JOB

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MPA
MACHINE & PLANT AUTOMATION

PROJECT TITLE

Snapshot of Products

Siemens Industrial Automation Products

- Siemens PLCs
- Siemens SCADA / HMI
- Siemens AC and DC Drives
- Siemens – Power Supplies
- Siemens – Process Instruments
- Siemens – Safety Products

General Products

- Chloride Power Protection – Uninterruptible Power Supplies (UPS)
- IKUSI – Remote Control Transmitters
- INSTROTECH – Process Control Instrumentation and Industrial Electronics
- Numericon – Limit and Safety Switches
- SICK – Safety Products
- Cables / Support Systems and Accessories

MPA Developed Products

- Switchboards – Manufactured In-house
- EasyMarquee – Moving Electronic Message Displays
- EasyControl – Automatic Cut to Length Systems or Roll Former Systems
- EasyGauge – Automatic Guillotine and Press Brake Systems
- EasyBatch – Batching Software
- Envirolite Solutions – Responsible, Energy Efficient Lighting Solutions

Introduction

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

The central hub of MPA is the Product Sales Division, which distributes a comprehensive range of electrical automation and control equipment, as well as accessories.

This product range is specifically tailored to meet the needs of industrial manufacturers, government utilities and natural resources industries. MPA's products area, in association with its engineering and service groups, provides a complete automation solution for customers.

Pre-sales service includes application engineering, product selection and project pricing, whilst after-sales support includes technical support, warranty claims, product upgrades and system integration.

The range of products available follows:

General Products

Chloride Power Protection – Uninterruptible Power Supplies (UPS)

Chloride Power Protection UPS protect sensitive equipment against supply voltage and frequency fluctuations and failures. UPS provide time to save files, and as an emergency power supply, they are a life support system for computers and networks. An extensive product range is available, with ratings from 300VA to 6.4MVA.

IKUSI – Remote Control Transmitters

IKUSI has a wide range of remote control transmitters, including push-button and console transmitters. Providing a high level of operator safety, the transmitters are designed for lifting machinery, and also for overhead, tower and mobile cranes.

INSTROTECH – Process Control Instrumentation and Industrial Electronics

INSTROTECH produces digital panel meters and displays, loop powered isolators, transmitters and signal conditioners. INSTROTECH also makes transmitters for process, temperature, level and load cell applications.

Numericon – Limit and Safety Switches

Numericon supplies high quality limit switches for accurate positioning and controlling of machines and industrial equipment. They also have a range of safety switch products for monitoring movable safety guards.

SICK – Safety Products

SICK manufactures industrial safety products, including safety light curtains and light grids for protecting hazardous points and areas, as well as laser scanners and safety light barriers. Access, safety switches, sensors and control units, along with safety interfaces and safety software are also part of the range available.

Cables / Support Systems and Accessories

Specialist EMC and communication cables, and support systems including flex chain, control cables, energy chains and brackets.



Chloride Power Protection



Siemens Industrial Automation Products

MPA is an appointed distributor of the Siemens range of industrial automation and drive products.

Siemens PLCs

- LOGO! – Low cost programmable relay for basic automation, up to 32 I/O.
- SIMATIC S7-200 – Micro PLC to 256 I/O with communications capabilities and comprehensive instruction set.
- SIMATIC S7-300 – Mid sized PLC for general automation with high connectivity.
- S7-300 Failsafe – Mid sized PLC incorporating the Failsafe programming and Profisafe distributed I/O features. Facilitates the incorporation of Cat 4 safety systems with standard automation control networks – refer safety products below.
- SIMATIC S7-400 – Large-scale automation projects with optional high level programming languages and capable of DCS functionality.
- SIMATIC S7-400F/FH – High-end PLC with Failsafe and high reliability capabilities for system critical and protection functions.

Siemens SCADA / HMI

- SIMATIC HMI – Complete range of human machine operator interfaces, ranging from basic text based displays up to full graphic touch screens, and PC based HMI simulation packages.
- SIMATIC WinCC – Fully featured SCADA system, with internet and stock control integration, utilising a modular approach, ranging from a single station through to multiple client / server architecture.
- PCS7 – Innovative process control system for continuous and batch applications in all industries. Modern, distributed client/server architecture and scalable from small systems to large plants or complexes with up to 60,000 process objects.

Siemens AC and DC Drives

- SINAMICS G110 – Cost effective, single-phase AC drive up to 3kW.
- MICROMASTER 420 – General-purpose AC drive up to 11kW.
- MICROMASTER 430 – Purpose-built variable torque AC drive for pump and fan applications up to 250kW.
- MICROMASTER 440 – Advanced vector control AC drive for demanding applications up to 200kW (constant torque).
- SIMOVERT MASTERDRIVE – AC Drive to meet high-end and complex applications with a range of technology options in software and hardware, up to 5,000kW.
- SIMOREG DC MASTER – Proven high performance DC drive for single and four quadrant applications up to 1,900kW, with a range of technology options in software and hardware available.

Siemens Power Supplies

- SITOP Power – Extremely reliable, field proven power supplies delivering high quality, regulated and protected DC power. Available in single-phase up to 20A and three-phase to 40A.

Siemens – Process Instruments

Large range of high quality process sensors and measuring instruments for most standard industrial applications. These instruments utilise technologies such as radar, ultrasonic, capacitance, vibration, pressure and temperature.

Siemens – Safety Products

Siemens manufacture a range of safety products to protect personnel and machinery, in accordance with the Australian Standards and provide safety protection up to Category 4. This range includes control, sensing, monitoring and evaluation equipment such as: emergency stops; safety switches; light curtains and light grids; and control and signal devices.



Siemens PLCs



Siemens SCADA/HMI



Siemens AC and DC Drives



Siemens Power Supplies



Siemens Process Instruments



Siemens Safety Products

MPA Developed Products

Switchboards – Manufactured In-house

MPA's Electrical Workshop designs and manufactures high quality industrial and commercial switchboards to client specification – from the very largest of motor control centres to smaller control panels for OEMs. 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.

EasyMarquee – Moving Electronic Message Displays

EasyMarquee is designed for industrial, commercial or office use – indoor or outdoor. The electronic, high impact, moving message displays are perfect for communicating messages to either the public or staff members. EasyMarquee is an effective communication tool for a wide range of applications including advertising campaigns, shop fronts, signage, sporting venues, trade shows and lots, lots more. MPA has a huge selection of electronic high impact moving message displays from which to choose. Features include: large LED display; choice of sizes; personalised, storable, static, scrolling or flashing messages – they can be wall mounted, free standing or positioned on a trailer. Manufactured in-house by MPA, these signs are available to purchase, for long-term rental or for short-term hire.

EASY MARQUEE



Switchboard & EasyMarquee

EasyControl – Automatic Cut to Length Systems

EasyControl is an Australian made automation solution that is suitable for cut to length or roll former systems. Manual systems can lead to losses in speed, quality and accuracy. Installing EasyControl to an existing system will save both time and money. And, as the name suggests, it is so easy to use. Simply program all job requirements – up to 100 programs with multiple lengths and up to 18 punches then select the program required, select the quantity required, and press start. The EasyControl allows users to select from three operating modes – Manual, Semi-Automatic or Automatic.

EasyGauge – Automatic Guillotine and Press Brake Systems

EasyGauge is a fully integrated power operated backstop suitable for Guillotines and Press Brakes as well as a wide variety of cut to length type applications. The EasyGauge can be fitted to new or existing machines. Whilst extremely affordable, the EasyGauge also offers all the features of more expensive brands. The EasyGauge allows operators to select from three operational modes: Manual – allows flexibility to job manually; Semi-Automatic – suits one-off cuts; and Automatic – allows access for up to 100 different pre-programmed jobs.

EasyBatch – Automatic Batching Software

EasyBatch is an easy-to-use batching application for the complete data collection, management and control of all aspects of the batch manufacturing process. MPA Engineering has proven that many manufacturers can significantly improve performance and productivity, while maintaining stringent quality standards by investing in state-of-the-art automatic batching software. To use, simply store recipe data, queue the required jobs, and EasyBatch efficiently controls the batch. EasyBatch offers threefold benefits – improved productivity, increased accuracy and increased quality control!

Envirolite Solutions – Responsible, Energy Efficient Lighting Solutions

Envirolite offers a win-win solution for both business and the environment. Most existing fluorescent light fittings can be retrofitted with the environmentally friendly, energy saving Envirolite System – guaranteed to reduce energy consumption and decrease operating costs. Retrofitting minimises upfront costs, so that immediate monetary savings from reduced electricity bills are realised. Depending on the size and layout of the premises, typical pay back can be seen within a two-year period.

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