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INTRODUCTION

ENGMEPHO (Australia) Pty. Ltd. was established in 1985 and is managed by Mr. Vince Baker in Adelaide, South Australia.

ENGMEPHO (Australia) Pty Limited was initiated to provide Electronic Design and Drafting services for Electrical, Mechanical, Agricultural, Building services, component research & development and design.

The division consists of three experienced Engineers, of whom one is chartered with the Professional Engineers of Malaysia and Australia and the rest are members of the Institution of Engineers of Malaysia, Australia and the United Kingdom. The engineers all have considerable experience in the design and preparation of drawings and documentation in the above industries.

The **Electronic Drafting** personnel has excellent manual drafting skills and is also fully qualified with the latest Computer Aided Drafting (CAD) systems and techniques. All drafting work in the drafting division is performed on CAD machines.

The Drawing office is equipped with the latest in microcomputers for rapid CAD work. It is also equipped with latest Inkjet plotter, inkjet printer, laser printer, scanner, photocopier and plan copier.

The office is equipped with Modem links to the Internet for e-mail & data transfer. Drawings can be supplied on any drawing formats and sizes or sent as electronic files as required by the client.

Currently, our company specialises in electrical, mechanical, agricultural, process and manufacturing industries and does not provide architectural design services.

In 1999, in-line with our company policy of providing quality & specialised services to our clients, our company can arrange for & ***manufacture prototypes, components, moulds & dies*** for manufacturing enterprises engaged in the metal & plastic industries. Prototypes, components, moulds & dies can be made once the final drawings are approved by the clients.

At the same time, our company is interested to ***expand our services globally*** via the Internet.

ENGMEPHO ELECTRONIC DRAFTING DIVISION

This division offers a whole range of electronic drafting facilities to the Electrical, Mechanical, Building services, agricultural and manufacturing industries. The services offered replace time and labour consuming manual drafting services with consistency, quality and rapid electronic drafting services.

Range of Services offered (Not Exhaustive)

1. ELECTRICAL ENGINEERING

CAD services to the electrical engineering industry includes:-

1. Conceptual, tender, shop drawings and as built preparation drawings as detailed below,
1. Site plan and electrical reticulation drawings
2. Electrical lighting, power and communication layouts.
3. Electrical schematic layouts.
4. Single line diagrams for main switch boards & distribution boards.
5. Electrical legends and details.
6. Communication, telephone and public address schematics.
7. MATV, nurse call systems schematics.
8. Electrical construction and standards detail.

EMERGENCY POWER SUPPLY SYSTEMS.

1. Site plans & location of equipment-
2. Emergency power generation equipment and plant room layouts.
3. Emergency power supply schematics and single line diagrams.
4. Standard equipment and construction details.

UNINTERRUPTED POWER SUPPLIES

1. Site plans and location of equipment.
2. Uninterrupted power supply equipment and plant room layouts.
3. UPS electrical schematics and single line diagrams.

2. MECHANICAL SERVICES.

CAD services offered to the mechanical services industry include the preparation of drawings for conceptual, tender, shop and as built drawings to all mechanical services inclusive of Air-conditioning, Refrigeration, Ventilation, Sprinklers, Fire fighting and Exhaust systems as detailed below.

1. Site plans
2. Air conditioning ducting layouts.
3. Refrigeration and Chilled Water Piping layouts per floor.
4. Mechanical plant rooms and equipment layouts.
5. Chilled water piping, pump schematics and block diagrams.
6. Condenser piping, pump, cooling tower schematics and block diagrams.
7. Ventilation, exhaust fans and ducting layouts.

8. Smoke exhaust, spill air fan ducting layouts and schematics.
9. Mechanical equipment construction details and sections.
10. Mechanical equipment electrical schematics and single line diagrams.
11. Mechanical equipment electrical controls and block diagrams.
12. Mechanical equipment legends and schedules of equipment
13. Acoustic and noise suppression details for equipment.

SPRINKLER SYSTEMS

1. Site plans and hydrants and piping layouts.
2. Sprinkler piping layouts.
3. Sprinkler piping schematics and pump layouts.
4. Sprinkler pumps and auxiliary equipment plant room layouts.
5. Sprinkler systems electrical schematics and control systems.
6. Standard equipment and construction details.
7. Legend and schedules of equipment.

FIRE DETECTION SYSTEMS

1. Site plans and location of various fire detection equipment
2. Thermal and smoke detector layouts.
3. Thermal and smoke detector schematics.
4. Legend and schedules of equipment.
5. Standard equipment and construction details.
6. Fire detection systems logic and block diagrams.

SMOKE EXHAUST AND SPILL AIR AND PRESSURISATION SYSTEMS

1. Site plans and location of various equipment.
2. Ducting and fire damper layouts.
3. Smoke exhaust fans plant room layouts.
4. Pressurisation fans equipment plant room equipment layout.
5. Fans electrical schematics and single line diagrams.
6. Controls and interfacing systems to other services.
7. Legend and schedules of equipment
8. Standard equipment and construction details.

HYDRAULIC ENGINEERING

1. Site plans and water supply reticulation.
2. Cold water piping layouts.
3. Domestic hot water piping layouts.
4. Tankrooms and plant room equipment layouts.
5. Piping and pump schematics.
6. Legend and schedules of equipment

VERTICAL TRANSPORTATION SYSTEMS

1. Site plans and location of equipment.
2. Lift shaft equipment layouts.
3. Lift equipment and plant room layouts.
4. Lift car equipment and details.
5. Lift controls and electrical schematics.

3. AGRICULTURAL EQUIPMENT AND PROCESS ENGINEERING

1. Site plans and location of equipment and services.
2. Equipment layout and services reticulation.
3. Process schematics
4. Equipment construction details.
5. Equipment electrical schematics and single line and control equipment layouts.
6. Legend and schedule of equipment.

4. PROCESS AND MANUFACTURING INDUSTRIES

This division provides research and development and design drafting for low and high volume production of plastic and metal components and assemblies. All design work is carried out on CAD systems with final drawings plotted in multi-colour to highlight the various features. Drawings can be supplied in floppy disk format/CD-ROM format according to customer's requirement. Designs conform with the National Standards requirements of relevant country.

Services provided are detailed below.

1. Research and development into upgrading of existing products and drafting of changes required.
2. Research & development and design drafting of new designs for low and mass production.
3. Fully dimensioned detail drawings of individual components.
4. Sub-assembly and full assembly drawings with parts list. (Dimensioned where required)
5. Assembly block diagrams.
6. Design of assembly jigs and fixtures.
7. Design of experimental machine assemblies.

5. ENGMEPHO MOULDS & DIES MANUFACTURING FACILITY

From 1999 onwards, our company can provide value-added services for companies & enterprises by arranging for or manufacturing high quality prototypes, components, moulds & dies. This new facility is equipped with all the necessary equipment needed to manufacture high quality components, moulds & dies for mass production.

1. Design of mould & dies for the manufacturing industries such as metal & plastic industries.
2. In-house manufacturing facility to make the final component, mould & dies after final approval by the client.

6. DRAWING UPDATING & ARCHIVING SERVICE

1. Conversion of old hand drawings onto CAD files ready for CAD use.
2. Updating CAD files to bring them inline with actual production samples.
3. Updating of amendments to CAD files.
4. Upgrading of existing CAD files to latest standards
5. Converting CAD files into PDF files for Archiving/Storage with Index in CD-ROMS.

Engmepho Australia Pty. Ltd.

Customer Reference List

Some companies which our company has worked for (Not Exhaustive) include:-

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| 1. Clipsal Electrical Accessories | South Australia |
| 2. Century Products | South Australia |
| 3. Bonaire Pyrox | South Australia |
| 4. Lasorex Technology | South Australia |
| 5. Hardie Irrigation | South Australia |
| 6. Research Laboratories of South Australia | South Australia |
| 7. South Australian Centre for Manufacturing | South Australia |
| 8. Hills Industries | South Australia |
| 9. Kimberly Clark Australia. | South Australia |
| 10.Engmepho Professional Enterprise Sdn. Bhd. | Malaysia |