



ELECTRONICS AND INDUSTRIAL

With the rich industry experience of over three decades, Makkays Electronics & Industrial group is able to hold the major market share for electronics, electrical and electromechanical components and equipment.

Although a wide spectrum of clientele falls under the E & I group of Makkays, defence sector has always been at the core of the company. Hence we keep a complete range of scalable and reliable products designed in accordance with the military and aerospace requirements.

Meeting quality standards and delivering reliable products have always been at the forefront of our company. Our team is committed to adding value in the clients' businesses by providing cutting edge technologies. Especially during the designing phase of clients' projects, we work closely with them to design solutions catering their unique needs.

Why Us?

- ◆ Customized cables and cable assemblies.
- ◆ Customized connectors.
- ◆ Technical expertise to suggest appropriate solutions in the customers' projects.
- ◆ Equipment training to the customers.
- ◆ Repair expertise of the equipment.
- ◆ MIL Grade products with test data and qualifications.



Bringing Technology to your Doorstep
www.makkays.com

UAN: 111 100 800

PRODUCT PORTFOLIO

MAKKAYS

We work in partnership with the world's leading brands to provide our clients' with the finest quality products and solutions.

1. CABLES

We provide our clients with an extended range of wire and cable solutions fitting for the extreme environments and demanding applications. We offer both standard and customized cable solutions depending upon the clients' needs. Following is the range of our cables and wires:

- ◆ Multi Strands, Highly Flexible Wires & Cables
- ◆ Insulated Cables and Wires (PTFE, FEP, PFE, ETFE)
- ◆ Multi Cores Cables
- ◆ Braided Screened Cables
- ◆ Composite/Hybrid Cables
- ◆ Marine & Underwater Cables
- ◆ Microwave Cable Assemblies
- ◆ Miniature Coaxial Cables
- ◆ Flat Flexible Cables
- ◆ Copper & Optical Fibre Cables
- ◆ Custom Design Harnesses
- ◆ MIL-STD-1553 Bus Harnesses
- ◆ Space Grade Cables and Assemblies
- ◆ Micro-D & Nano-D Cable Assemblies
- ◆ Special Cables and Wires for High Temperature
- ◆ Special Halogen Free Low Smoke & Fire Hazard Cables.



2. CONNECTORS

We offer a complete range of robust, high quality and durable standard and custom designed rectangular and circular Micro-D connectors. Our custom designed connectors are based on twist pin technology, which makes them highly reliable in performance.

Following is the range of connectors we provide:

- ◆ High Density Miniature Micro-D/Nano-D Connectors (Signal, Power, Video)
- ◆ Mil-Std-1553 Bus Connectors
- ◆ High Density Circular Connectors
- ◆ Miniature Circular Connectors
- ◆ Rack & Panel Mount Connectors
- ◆ Quick Release/Lanyard Connectors
- ◆ High Power Circular Connectors
- ◆ Marine Connectors
- ◆ EMI/RFI Filter Connectors
- ◆ Space Grade Connectors (Micro-D, Nano-D, D-Sub, Circular, 1553 Data Bus)
- ◆ Special Connectors
- ◆ Connectors Tooling



3. RF & MICROWAVE

Makkays deals with the RF and microwave signal-processing components which are mainly used in sophisticated defence electronic systems and high-end commercial applications.

We deal with the following important types of RF and microwave components.

- ◆ Amplifiers
- ◆ Attenuators
- ◆ Transistors
- ◆ Voltage Controlled Oscillators
- ◆ Switches
- ◆ Modulators & Mixers
- ◆ Optoelectronics
- ◆ Diodes
- ◆ Microwave Cable Assemblies upto 50 GHz.



4. SOLDERING AND DESOLDERING

With the built-in SmartHeat technology, our soldering systems are able to automatically ensure a constant temperature of soldering iron tip under a broad range of thermal loads, without any external adjustments.

Our soldering and de-soldering system types are as follow:

- ◆ Hand Soldering & Rework Systems
- ◆ Convection Rework Systems
- ◆ Fume Extraction Systems
- ◆ Fluid Dispensing Systems



5. RELAYS AND SWITCHES

We offer our clients with a broad range of Mil and CECC qualified relays ranging from dry circuits to up to 1000 amps; suitable for military, aerospace and various other applications.

We also provide our clients with a range of custom/standard switches with rugged, solid metal designing to meet high-performance connectivity and harsh environmental demands of defence applications.

We cater our clients' needs with the following important types of relays and switches:

- ◆ MIL-STD Hermetically Sealed relays
- ◆ Relay sockets
- ◆ Time-delay relays & RF relays
- ◆ Solid state relays
- ◆ Customised relays
- ◆ Toggle switches
- ◆ Control panel switches
- ◆ Illuminated pushbutton switches
- ◆ Rubber stainless steel key pads



LEACH



6. TOOLS

Anticipating the industry trends through our business partner, we provide our clients with a range of most adapted tools which meet the highest level of professional requirements.

We provide our clients with following important industrial tools:

SPECIALISTS TOOLS

- ◆ Aerospace Tools
- ◆ Automotive Tools
- ◆ Electronics Tools
- ◆ Electricity Tools
- ◆ Heavy Good / Industrial Vehicles Tools

WORKSTATIONS AND TOOL STORAGE

- ◆ Tool Sets
- ◆ Roller Cabinets and Workshop Furniture
- ◆ Toolboxes, Cases and Chests

GENERAL TOOLING

- ◆ Fixed-Size and Adjustable Wrenches
- ◆ Ratchets, Sockets and Accessories
- ◆ Torque Control Tools
- ◆ Screwdrivers, Keys
- ◆ Pliers
- ◆ Hammers / Impact Tools
- ◆ Sawing, Drilling and Cutting Tools
- ◆ Maintenance Equipment
- ◆ Non-Sparking Tools



7. ACTIVE & PASSIVE COMPONENTS

Makkays deals with a wide range of electronic components with the vast applications in military, aerospace and various industries.

Following are the important electronic components we deal with:

- ◆ ICs
- ◆ Transistors
- ◆ Diodes
- ◆ Rectifiers
- ◆ Capacitors
- ◆ Resistors
- ◆ Trimmers
- ◆ Transducers
- ◆ Operational amplifiers
- ◆ Voltage regulators
- ◆ IGBTs
- ◆ EMC filtration
- ◆ Microwave components
- ◆ Thermistor and potentiometer



OUR MAJOR CLIENTELE

