

BROCHURE

2025

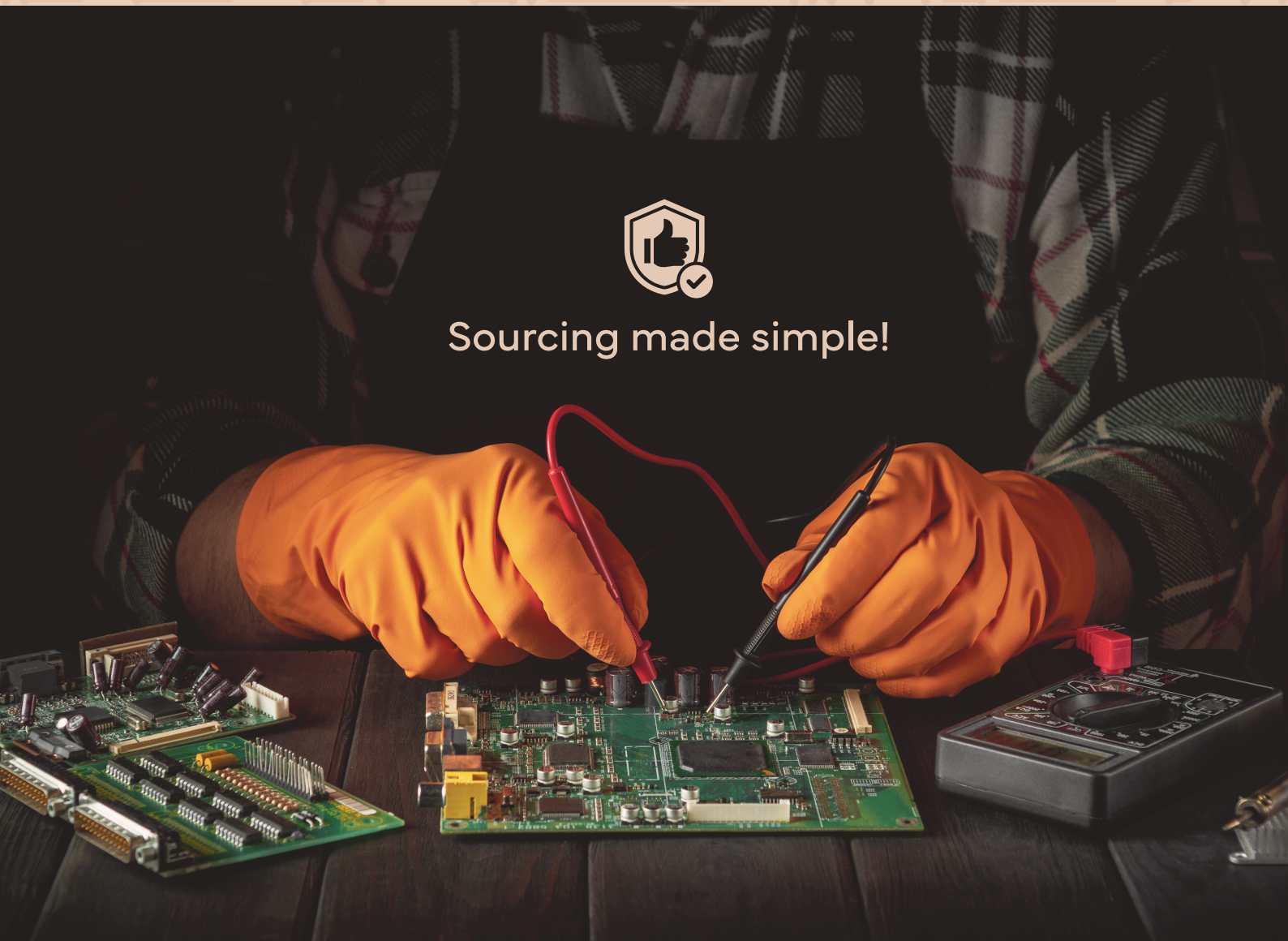


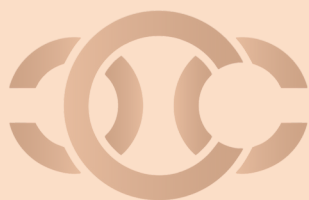
# Copper Core

C I R C U I T S



Sourcing made simple!







# COPPER CORE CIRCUITS

## Overview :

CopperCoreCircuits LLP is a specialized sourcing and consulting partner connecting European businesses with India's finest PCB and precision metallic parts manufacturers. We help companies reduce costs, increase supply chain flexibility and maintain uncompromised quality- by leveraging our deep-rooted partnerships with certified Indian manufacturers.

We understand the high standards and compliance expectations of European companies and serve as your local presence in India, ensuring that every order meets your specifications- from initial enquiry to final delivery

- Sourcing and engineering consultancy
- Partner with trusted Indian manufacturers
- PCB fabrication, mechanical parts, electronic components & plastic tooling.
- Assembly support to industries from different sectors



**Focus:** High-quality, cost-effective solution with technical accountability

# ORDER EXECUTION FLOW



# PROJECT EXECUTION WORKFLOW

## Requirement Capture & Feasibility Check

- NDA execution
- Engineering drawing and BOM review
- Clarification on material grade, quality specs and compliance needs
- Risk analysis for manufacturability and sourcing feasibility
- Submission of detailed proposal with cost, timeline and scope

## Prototype Execution

- Sample manufacturing with detailed inspection reports
- On-site quality checks before dispatch

## Volume Production & Monitoring

- Order placement and milestone tracking
- Production updates to customers
- Continuous quality assurance during production

## Export-Ready Packaging & Logistics

- Robust packaging for air/sea transport
- Logistics coordination with preferred forwarders

## Post-Delivery Technical Support

- Engineering change order implementation
- Evaluation for repeat orders or scalability planning

# WHAT WE OFFER

## End-to-End Sourcing Solution

## Manufacturing Management

- Sample manufacturing with detailed inspection reports
- On-site quality checks before dispatch

## Quality Assurance

- Compliance with international standards
- In-process and final quality-control (QC) inspections and reports

## Transparent Communication and Reporting

- Real-time updates on project progress
- Language bridge between clients and Indian suppliers
- Full documentation support including engineering-drawings, BOM, QC, reports and logistics





# WHAT WE OFFER

## Logistics and Export Supports

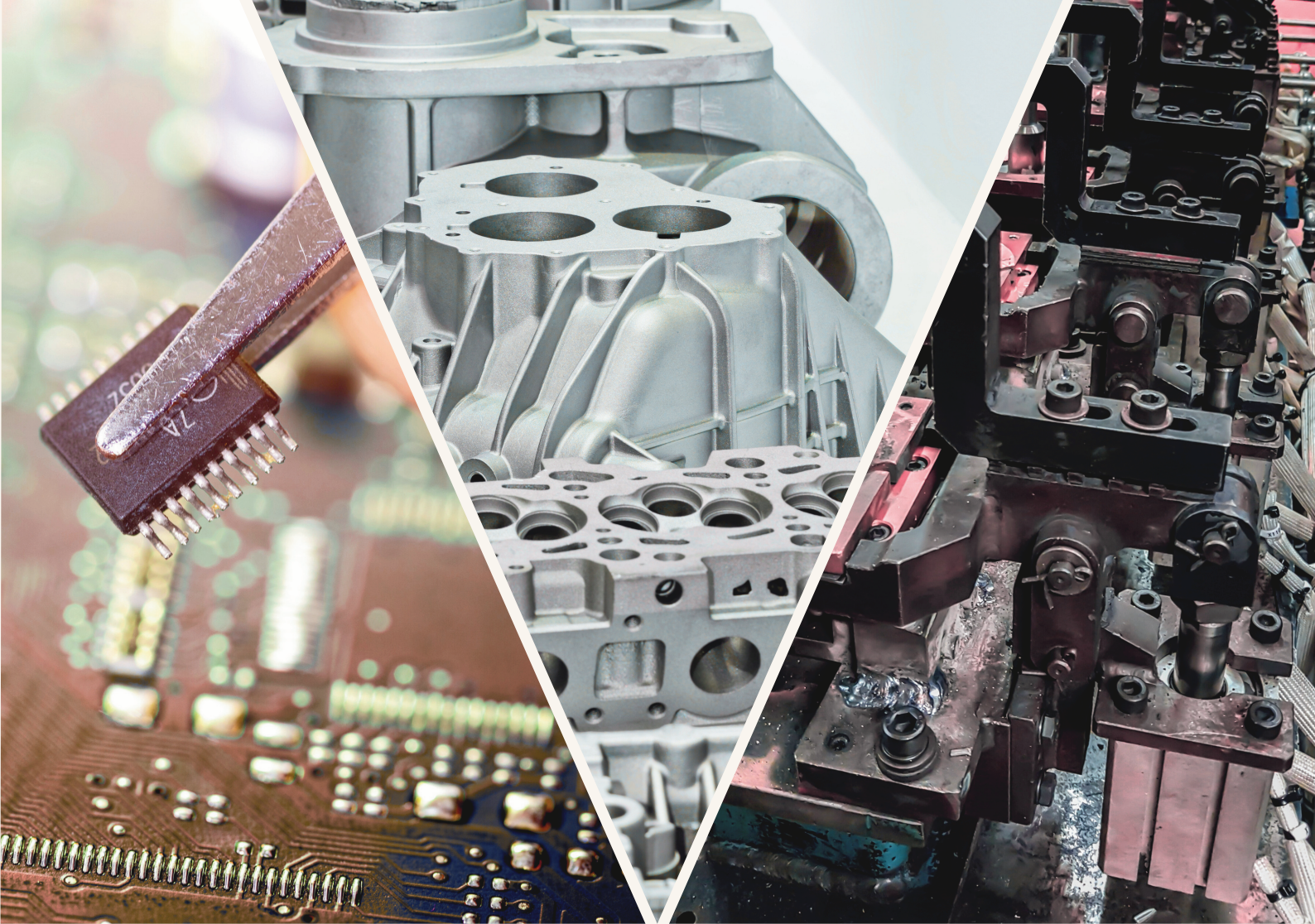
- Secure packaging, export documentation and reliable international shipping
- Ensuring on-time delivery and hassle-free customs clearance

## Long-Term Partnership and Support

- Dedicated account management
- Technical consulting
- Cost optimization strategies
- Support for scaling production over time









# CORE CAPABILITIES

## Printed Circuit Boards (PCBs)

We provide high-quality, multi-layer PCBs (FR4, aluminium, rigid-flex) manufactured by certified partners. Prototypes to mass production, with end-to-end quality control, AOI, and electrical testing.

## Precision Mechanical Parts & Metal Housings

CNC-machined components (milling, turning, laser cutting) and custom metal enclosures with tight tolerances, ideal for industrial, automation, and electronics housing applications.

## Electronic Component Sourcing

We identify and source genuine passive, active, and electromechanical components through authorized distribution channels, ensuring traceability and lifecycle transparency.

## Injection Moulding Parts

Thermoplastic moulded parts for enclosures, connectors, and functional mechanical elements. Our partners support tool design, mould validation, and serial production with ISO-certified processes

# CORE CAPABILITIES

## Wire harness and industrial cable with connector

Custom cable harnesses and industrial interconnects with terminals, connectors, and overmoulding as per customer specifications.



## TÜV compliant quality

From initial samples to batch shipments, we ensure rigorous quality checks (dimensional, electrical, mechanical) and can coordinate third-party certifications and compliance per EU market requirements.

## Project management and complete export support

We act as your single point of contact, managing communications, timelines, documentation, and international shipments—so your supply chain stays reliable, transparent, and responsive.



# CORE CAPABILITIES

## Bilateral Procurement Partner

- We help European companies source high-quality parts from India
- We help Indian companies import specialized equipment and customized products from Europe
- As a central communication interface between both parties, we ensure clear coordination and validate the products according to customer specifications – before they leave the country of origin.

## Certified Partners



ISO 9001  
AS9100  
IATF 16949  
RoHS  
REACH  
NADCAP

# DIGITAL CUSTOMER EXPERIENCE

*Precision Sourcing. Transparent Execution. Powered by Odoo.*

At Copper Core Circuits, we believe supply chain transparency is your right, not a luxury. That's why we integrate every sourcing and production workflow with our enterprise-grade ERP system — Odoo- powered client platform — giving you real-time insights, total project control – from prototyping to production.

## Real-time project lifecycle dashboard

Every client receives access to a secure client portal where they can track their project from request to delivery:

Stage	What You See in the Portal
Design & Quotation	Status of RFQs, downloadable quotations, updates from sourcing engineers
Prototyping	Tooling status, sample progress, expected approval timelines
Production	Real-time production updates, batch status, timelines
Quality Control	QC checklists, photos of inspected parts, non-conformance records
Dispatch & Delivery	Live courier tracking, packaging status, delivery ETAs

## Data confidentiality and intellectual property protection

Confidential file management: All design files, drawings, and specifications are stored securely.

# WHY MIGHT THIS BE IMPORTANT FOR YOU?

Without Odoo ERP	With Copper Core's Odoo Platform
Status updates via scattered emails	All updates in one centralized dashboard
Manual follow-ups for dispatch/tracking	Automated alerts and tracking info
The order/procurement history is lost	The entire order history is traceable. Now it is easy to check the version of uploaded files.
Delay in documentation	Instant access to all key files and reports
Disconnected sourcing + production info	Unified view of manufacture files and production status
Everything needs to be achieved through Email contact	Send a message to us in our customer portal and raise any complaint using the ticket system

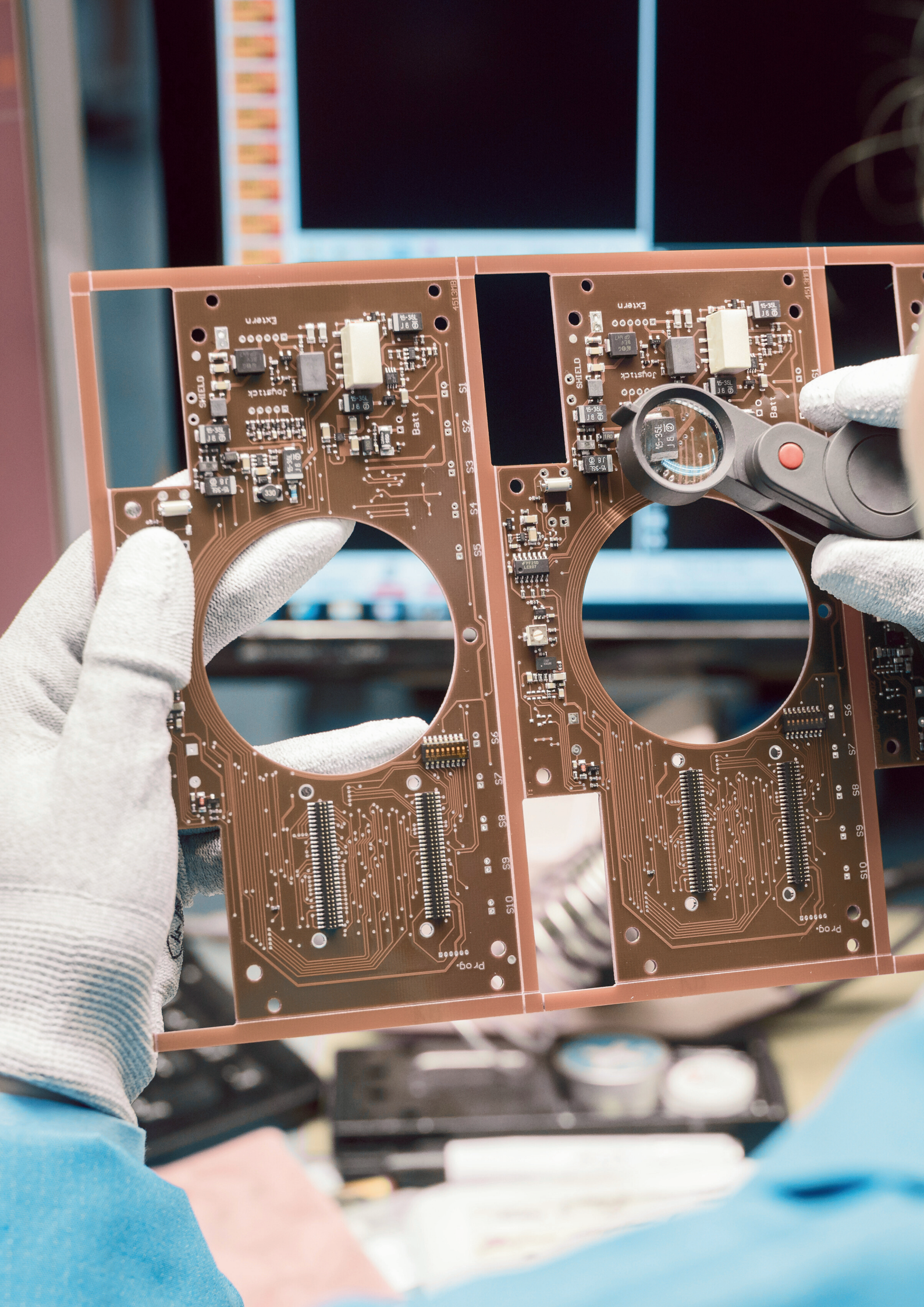
## Ready for a Modern Sourcing Partner?

Let's work together on your next project with a dedicated project manager to oversee your manufacturing journey with us— with clarity, control, and a customer experience that's built for **speed, scale, & transparency.**



## Turn CRM chaos into **clear insights!**







# OUR PRODUCTS & SERVICES

## CNC Machined Parts

### Capabilities:

- 3-axis, 4-axis, 5-axis CNC Milling & Turning
- Multi-axis Swiss-type Turning
- Precision Hole Drilling, Reaming, Honing, Burnishing
- Centerless, ID & OD Grinding
- Laser Cutting, Welding, Drilling
- EDM (Wire & Sinker)

### Materials:

Metals and their alloys: Aluminium, Stainless Steel (SS), Mild Steel, Carbon Steel, Tool Steel, Steel Alloys, Titanium, Copper, Brass, Inconel, Monel, Nickel, Hastelloy, Phosphor Bronze, Duplex Alloys, PH-grade steels

Plastics: Nylon, Delrin (POM), Polycarbonate, Acrylic, Teflon (PTFE), HDPE, LDPE, ABS, PVC, UHMWPE

### Surface Finishes & Treatments:

- Anodizing, Powder Coating, Electroless Nickel, Zinc Plating
- Laser Engraving, Black Oxide, Passivation
- Polishing (Hand/Machine), Bead Blasting, Painting



## Sheet Metal Fabrication

### Capabilities:

- Laser Cutting, Punching, Bending
- MIG/TIG Welding
- Riveting, Tapping, Clinching
- Powder Coating, Plating, Painting
- Shot Blasting, Deburring

### Products:

Electrical & Electronics Enclosures  
Chassis, Brackets, Panels

### Materials:

Stainless Steel (SS 304, 316)  
Mild Steel (CRCA, HRCA)  
Aluminium (1050, 5052, 6061, 7075)  
Copper, Brass  
Galvanized Iron (GI)  
Titanium  
Spring Steels  
High Strength Low Alloy Steels (HSLA)  
Zinc Coated Sheets



# OUR PRODUCTS & SERVICES

## Die Cast Parts

### Methods:

High Pressure Die Casting (HPDC)  
Low Pressure Die Casting (LPDC)  
Gravity Die Casting (GDC)  
Investment Casting  
Sand Casting  
Centrifugal Casting  
Shell Moulding  
Vacuum Die Casting  
Squeeze Casting  
Metal Injection

### Materials:

- In-house mold & die manufacturing
- CAD/CAM & Mold Flow Analysis
- Precision Tooling with High-Speed Machining

### Surface Treatments:

Trivalent Chromium, Electroless Nickel (+PTFE),  
Bright Nickel  
Hot blackening, Manganese phosphate  
Passivation, Electro-polishing  
Full range of PVD coatings  
Vibratory & High-energy finishing  
Glass bead blasting, Micro-blasting,  
Grit-blasting  
Polishing (Hand/Machine)  
Laser Engraving

### Materials:

Aluminium and its Alloys  
Magnesium and its Alloys  
Zinc and its Alloys  
Copper Alloys (Brass, Bronze)  
Steel Alloys, Stainless Steel  
Titanium, Inconel, Nickel-based alloy

### Heat Treatments:

Vacuum heat-treating and annealing  
Sealed quench heat-treating and atmosphere tempering  
Case hardening  
CAD/CAM & Mold Flow Analysis  
Precision Tooling with High-Speed Machining  
Ion and gas nitriding  
Various organic coatings  
Hot Isostatic Pressing (HIP)

### Precision Machining Post-Casting:

CNC Turning and Milling  
Fine hole drilling, Reaming, Burnishing  
Thread Rolling and Cutting  
Laser welding, Cutting and Drilling



# OUR PRODUCTS & SERVICES

## Injection Molded Parts

### Capabilities:

High Volume Plastic Injection Molding  
Overmolding, Insert Molding, Two-Shot Molding  
Tooling and Mold Design  
Hot Runner and Cold Runner Systems  
Micro-Molding  
Laser Marking and Surface Treatment  
3D Printing

### Materials:

ABS, ABS-PC-Alloy, Delrin (POM), HDPE, LDPE, HIPS, PE, PA4, PA6, PA66, PBT, PC, PS, PEEK, PP, Polyurethane, Acrylic, PET, PMMA

Polypropylene (PP), Polymethyl Methacrylate (PMMA), Polyamide (PA) or Nylon, Acrylonitrile Butadiene Styrene (ABS), Low-Density Polyethylene (LDPE), Polycarbonate (PC)

### Tooling:

In-house & outsourced Class 101–105 tooling  
Rapid prototype molds  
Hardened tool steels (H13, P20, etc.)

### Secondary Operations:

Powder Coating, Anodizing, Silk-Screening, Pad-Printing, Painting  
Shot Blasting, Texturing



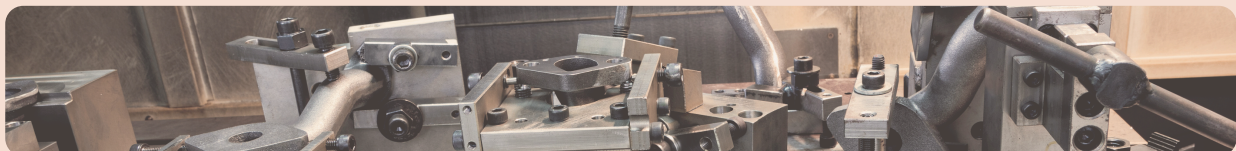
## Jigs, Fixtures & Gauges

### Capabilities:

Assembly Fixtures, Inspection Fixtures Welding & Machining Fixtures  
Go/No-Go Gauges, Attribute Gauges  
EDM, Thread Rolling, Gear Hobbing, Shaping, Broaching, Spline Cutting, Gun Drilling

### Materials:

Tool Steel (D2, D3, H13, P20), Stainless Steel (304, 316), Mild Steel, Aluminium, Brass, Bronze, Delrin, Nylon, Bakelite, Carbide, Hardened Steels, High-Speed Steel (HSS), and Composite Materials



# OUR PRODUCTS & SERVICES

## Printed Circuit Board (PCB)

### Types:

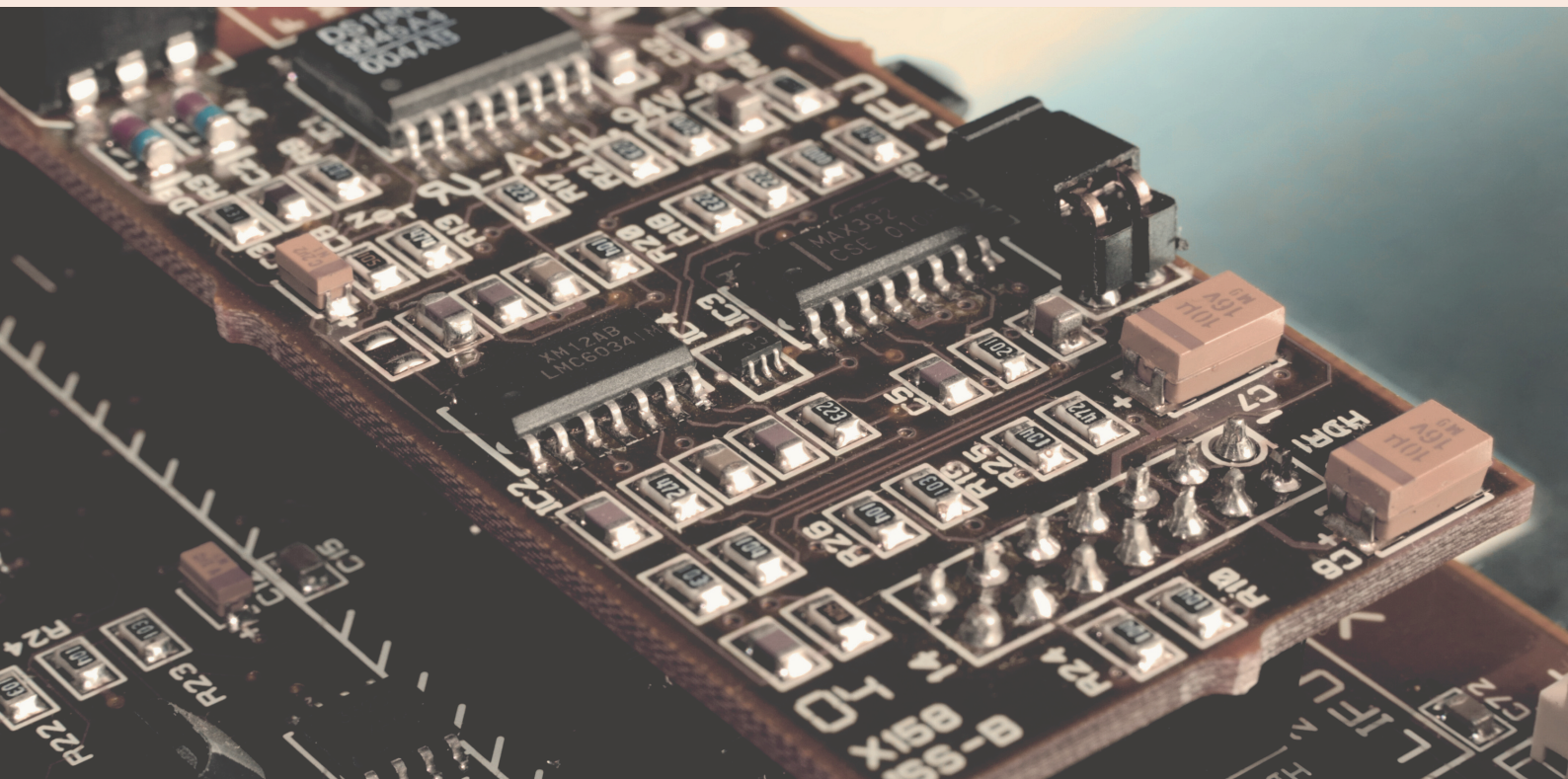
Single Layer, Double Layer, Multi-layer (up to 24+)  
Rigid, Flexible, Rigid-Flex  
High-Frequency RF Boards  
HDI, Blind/Buried Vias

### Services:

PCB Design and Layout  
PCB Assembly (SMT & Through-hole)  
Stencil Fabrication, Functional Testing  
BOM Sourcing

### Materials:

FR4, High-Tg FR4, Halogen-Free FR4  
Polyimide  
CEM-1, CEM-3  
PTFE (Teflon)  
Rogers, Isola, Taconic  
Ceramic Substrates (AlN, Al<sub>2</sub>O<sub>3</sub>)  
Aluminium Core, Copper Core  
Flexible Substrates (PET, PEN)











**Copper Core**  
CIRCUITS

[www.coppercorecircuits.com](http://www.coppercorecircuits.com)