



# Integrated Manufacturing & Resilient Supply Chain Solutions





**Prepared for OEM engineering and supply chain teams  
evaluating manufacturing partners in India.**

# Selective Partnerships. Full Engagement



I intentionally work with just two highly vetted world-class manufacturing partners so I can remain deeply involved throughout the entire ongoing customer relationship.

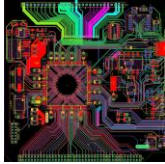
This focused approach allows me to operate with a level of responsiveness, accountability, and engagement that is difficult to achieve in larger representative organizations.

- Direct involvement from quoting through production launch and ongoing support
- Close alignment between OEM expectations and manufacturing execution
- Long-term relationship management focused on communication, quality, delivery, and partnership success

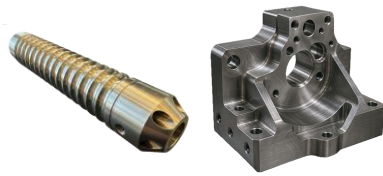
Nearly 30 Years Global Manufacturing & Supply Chain Experience

# Our Partners' Integrated Manufacturing & Supply Chain Solutions

## In-House Capabilities



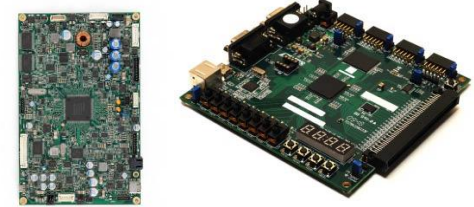
Engineering Services



Precision Machining



Wire & Cable Harnesses



Printed Circuit Board Assemblies



Sheet Metal



Magnetics



Plastics



Sourcing and Supply Chain

## Assembly



# Quality Certifications



Food & Water



Aerospace



Automotive



Quality Management



Automotive



Quality Management System

Medical



Electrical Safety



Canadian Electrical Safety

# Industries Served



**Power**



**Aerospace**



**Medical**



**Clean Energy**



**Industrial**



**Digital  
Infrastructure**

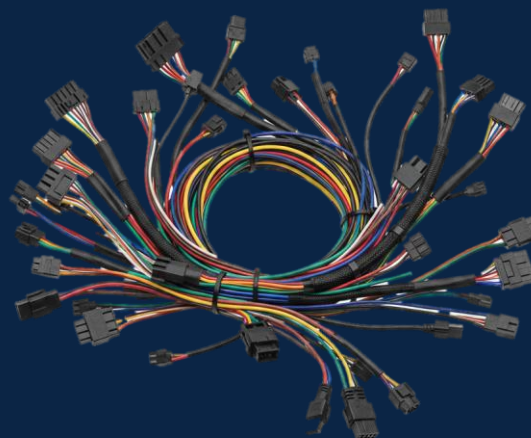
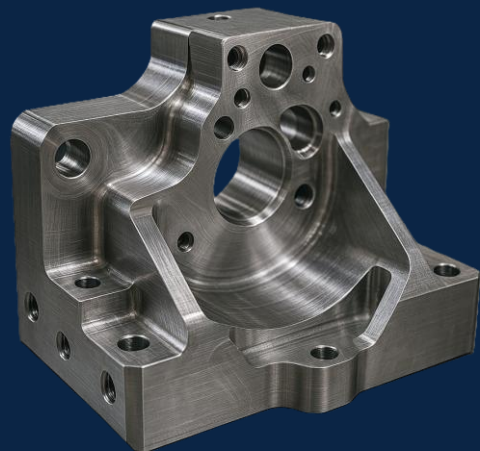


**Communications  
& Satellite**



**Automation**

# CAPABILITIES



# HIGH LEVEL ASSEMBLIES



# In-House High Level Assembly Capabilities



## PCB Assemblies

Our partners' facilities feature state-of-the-art SMT lines complemented by advanced backend assembly operations to support comprehensive post-SMT box build requirements. The SMT lines are configured to meet the diverse needs of customers across multiple industry segments.



## Precision Machined Components

Advanced machining technologies are leveraged to produce complex, tight-tolerance components across various materials and volumes, supported by a broad range of state-of-the-art equipment.



## High Level Assemblies



## Full Fabrication Capability

Both partners have vast and comprehensive fabrication capabilities to support a wide range of component and assembly requirements. From individual parts to complex assemblies, their facilities are equipped to deliver high-quality, custom solutions tailored to your specifications.



## Wire Harness & Cable Assemblies

They both have a broad range of capabilities to support both simple and highly complex wire harness and cable harness requirements. Whether it's simple or a highly custom-engineered solution, they both deliver high-quality assemblies tailored to meet the unique needs of each application.



## Sourced Components

Professional sourcing team allows for providing high quality sourced components and services, both as independently offered commodities or as part of an assembly. Full responsibility is taken for the quality, delivery and supplier management.

# Control Panel and Cabinet Assembly

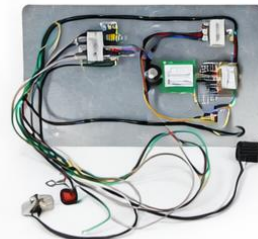
**JWI**  
JOHN WHITE INTERNATIONAL



# Control Panels and Cabinet Assemblies



# Electromechanical and High-Level Assemblies (HLA)



# PCBA Solutions for EMS

Each facility is equipped with a modern SMT line and integrated backend assembly capabilities, enabling seamless post-SMT box build processes. This setup is designed to serve a broad spectrum of industries with varying technical requirements. Each line configuration can be scalable as per the customers volumes and complexity requirements

## One or both of our partners have the following

- SMT line with total placement capacity of over 100,000 CPH
- Multilayer PCB's ranging from 50mm to 500mm
- Highly complex dual side SMT assembly starting from 0.3mm to 3.5mm thick laminates
- Both SMT & PTH Assembly & Backplane Assemblies
- Can handle PCBs Of Rigid, Flexi Rigid & Complete Flexi
- Fine Pitch placements starting 0201mm to a larger component of 55mm X 100mm
- Very Fine Pitch BGA's As Minimum Of 0.25mm
- Complex rework of BGA & Re-Ball with precision
- X-Ray inspection capabilities with 3D representation
- Customer Specific Processes Like Conformal Coating & Potting
- Manufacturing traceability (end to end)
- High mix, low to high volume



# PCBA Solutions for EMS



# Wire and Cable Harness Capabilities

## Core Wiring Harness Expertise

### Power and High Energy Cable Assemblies

- High Voltage Cable Assemblies
- Battery Charging Cables & Harnesses
- Cabinet Power & Internal Routing Harnesses



### Signal, RF & Precision Connectivity

- RF Cable Assemblies
- Flat and Round Ribbon Cable Assemblies
- Braided and Shielded Cable Assemblies



### Complex and Custom Harness Assemblies

- Routed Simple and Complex Cable and Wire Harnesses
- Complex Routed and Over-molded Cable and Wire Harnesses
- Custom Dual-Over-molded Cable Assemblies



### Environmental Protection and Reliability

- Potting and Cable Assemblies
- Strain Relief and Protective Sleeving
- Assembly for Vibration and Moisture-Prone Applications



# Machining Capabilities

Tools and machining capabilities are at the forefront of industrial manufacturing technology. Both companies are constantly updating their equipment and processes to stay ahead of the curve in order to provide clients with the best possible products and services.

## Capabilities:

- CNC Turning
- CNC Milling (3, 4 & 5-Axis)
- EDM Wire-cutting
- Assemblies (with TIG, MIG & Spot Welding)
- Multi-axis Swiss type turning up to 9 axis, etc.
- All our suppliers for special processes are NADCAP approved

## Materials Handled:

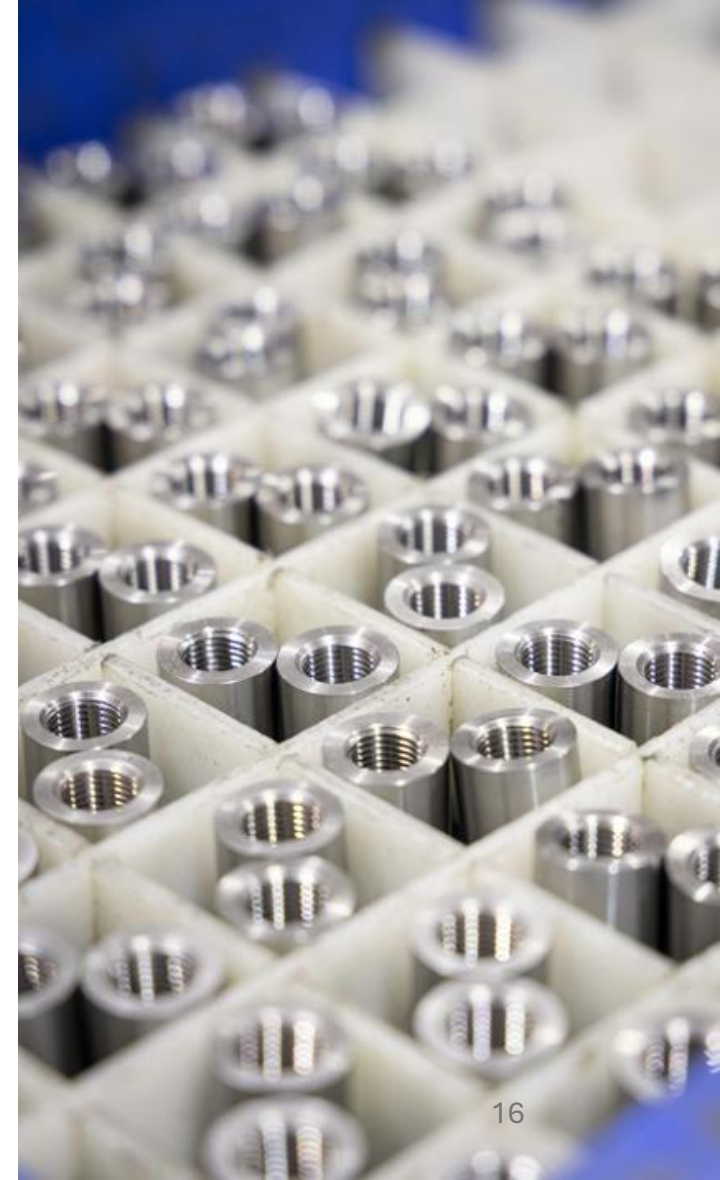
- Nickel Alloys
- Titanium Alloys
- Aluminum Alloys (5000, 6000 & 7000 Series)
- Stainless steel (302, 303, 304, 430, 630 & 17 - 4 PH)
- Carbon Steel (1018, 1141, 1144, 1250)
- Castings (ADC 10, ADC 12, Zamak 3) Special
- Nylon, Ultem, Peek

## Software Used:

- NanoCAD
- Solidworks
- Mastercam

## Processes (Outsourced):

- Anodizing
- Passivation
- Heat Treatment
- Painting / Powder Coating



# Machined Parts - Turning



# Machined Parts – Turning & Milling



# Metal Fabrication

## Sheet Metal Capabilities

- Conventional Stamping
- Progressive & Stage tools
- Laser Cutting
- CNC Bending

## Materials Handled

- Stainless Steel (301, 304, 430)
- Mild Steel
- Galvanized Steel
- Galvannealed Steel
- Aluminized Steel
- Aluminum (6061-T6, 5052-H32)
- Brass (CuZn37)
- Spring Steel

## Custom Manufacturing Solutions

- Prototyping
- Production Runs
- Assembly Services



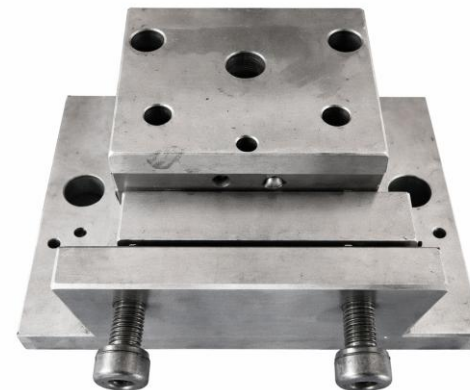
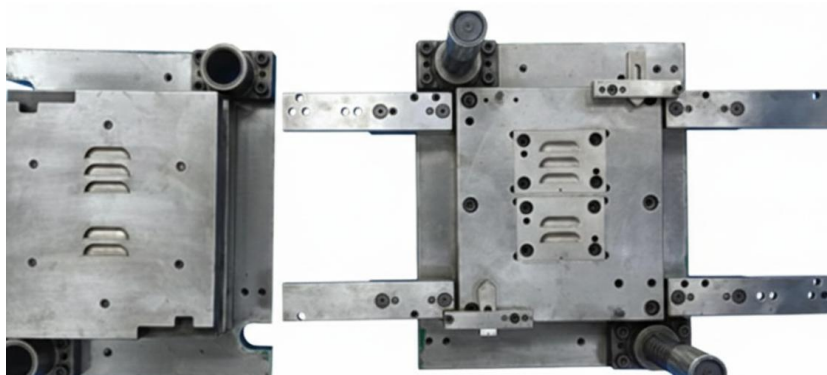
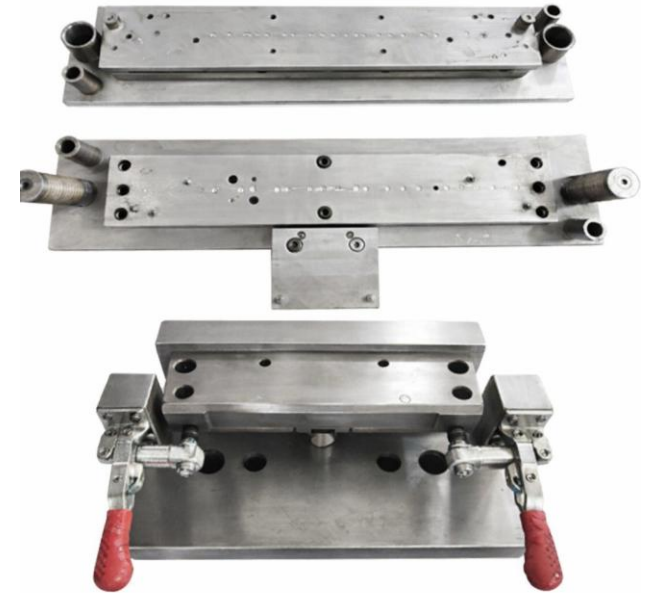
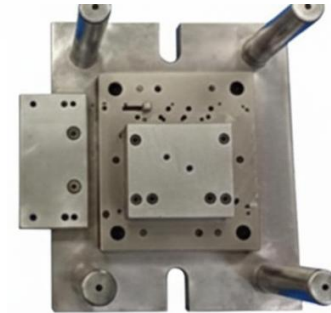
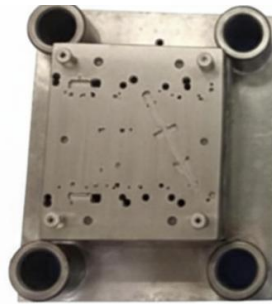
# Sheet Metal and Stamped Parts



# Castings and Forgings (Sourced, then Machined In-House)



# In-House Tooling Capabilities



# HOW WE SUPPORT



# Supporting Your Business Needs

**Customer Focused Team – Sourcing, manufacturing, engineering, quality, production and logistics**

**Dedicated Account & Program Manager assigned for each customer**

**Weekly Operations Meetings – schedules, stocking levels, ECO, etc.**

**PPAP / FAIR with every new part number / new revision**

**VAVE and joint cost reduction opportunities**

**Product life cycle management**

**In person QBRs**

# Sourcing & Vendor Consolidation

Sourcing and Vendor consolidation services are designed to streamline procurement processes and reduce costs by minimizing the number of vendors. Here are some key features of these services



## **Strategic Relationships**

With vendor sourcing and consolidation, our partners help companies build stronger, more strategic relationships with key suppliers, which lead to better terms and innovation opportunities



## **Operational Efficiency**

Fewer vendors mean fewer contracts to manage, leading to increased operational efficiency. This also simplifies communication and can improve accountability and service levels



## **Standardization**

Vendor consolidation often leads to greater standardization of processes, tools, and best practices, which can improve efficiency and transparency across the organization

# Engineering Services

A comprehensive suite of engineering services designed to meet the diverse needs of their clients. Here's an overview of the services provided

## **Design and Development:**

- CAD/CAM Services
- Reverse Engineering
- Prototyping

## **Manufacturing Engineering:**

- Process Engineering
- Tooling Design

## **Supply Chain Management:**

- Vendor Management
- Logistics Optimization

## **Quality Engineering:**

- Quality Control Systems
- Testing and Certification



# Medical Device Manufacturing

Both partners support the healthcare industry with cost-effective, manufacturable designs for medical products. With ISO 13485:2016 certification both are a qualified manufacturer for medical equipment and components.

## Class 10,000 Clean Room

One of our partners has an ISO 7 Class 10,000 cleanroom with a hard walled facility that utilizes HEPA filtration systems to maintain air cleanliness levels of a maximum of 10,000 particles ( $\geq 0.5\mu\text{m}$ ) per cubic foot.

## Assembly Solutions

Medical device manufacturing includes all aspects of the fabrication of a medical device, from manufacturing processes, to scale-up, to ongoing process improvements. It also includes the customized packaging of a device for shipment.



# Aerospace Manufacturing

Both partners develop and manufacture aerospace products, systems, and components using advanced, evolving technologies to meet the industry's dynamic requirements.

## AS9100 D Certification

AS9100D certification, our commitment to the highest quality and safety standards in the aerospace industry.

## Assembly Solutions

They have both delivered qualified, high-reliability products for commercial aviation, ground tactical systems and for industrial use programs.



# Food Equipment Manufacturing



One of our partners specifically supports the food service industry by manufacturing precision-engineered components, assemblies and food equipment that enables the efficient, safe, and consistent preparation of high-quality food products. Our work integrates engineering and operational excellence with the needs of modern food technology.

## **NSF, UL, CSA Certifications**

Their factory is UL approved and produces equipment that is certified to NSF standards.

# Thank You!

I would love to hear from you

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