



**DESIGN & MANUFACTURING ELECTRONICS**

# **Entrusted to Assure BUSINESS CONTINUITY.**

Endeavor to be the leading Technologically Advanced electronics manufacturing and solution provider.



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## About the Company

Mefron is a leading Hi-Tech and Quality Product manufacturer company in India.

Since inception, our motto is to deliver unparalleled quality and support to Original Equipment Manufacturers (OEMs) at Competitive price. As a company, we believe in developing a long-term relationship with our customers through quality engineering and quick turnaround.

Timely communication and program management are the backbones of our EMS process. Our core values trust and transparency lay the foundation of our growth.

Mefron has State of the Art Design and Development Centre at Ahmedabad for Embedded Design and Engineering services to support customers from Concept to Manufacturing. For customers looking for Design Development, re-engineering, and obsolescence management Services and Support, Mefron has Design and Engineering team to address any challenges.

Apart from products required for various industry segments, Mefron undertakes conceptual design, manufacture, and testing of high-reliability PCBAs, Products and Systems Integration Services, Wire/Cable Harness for many different Industries.

Mefron is ISO 9001 and 14001 certified company with a highly experienced team to manage production operations. Our strengths in Designing, Manufacturing, and TQM practices enable us to offer Low and Medium Volume Production along with Value Engineering for the entire life cycle of the product.

## Why to select MEFRON Technology



- Leading player in Custom Electro Mechanical & Box Build Assemblies verticals  
Amongst leading player in custom electro mechanical & box build for a variety of industries
- Strong relationships with a diverse top-tier vendor base  
Relationships with well-known vendor across product verticals
- End to end solutions provider with dedicated R&D capabilities  
Dedication to design, manufacturing and service infrastructure ensures customer satisfaction
- Flexible and cost-effective manufacturing capabilities offer cost effective solutions because of extensive experience in manufacturing
- Experienced Workforce and seasoned management team highly experienced and Knowledgeable team

## MEFRON value proposition for the customers...



### Quality & Integrity

- High level quality adherence
- Frequent quality audits
- Never posed an "own brand" risk to customers



### Scale

- Able to pass on the benefit of economics of scale to customers
- Efficient and nimble supply chain to respond to demand fluctuations



### Continuous Innovation

- Strong R&D team with proven expertise in developing own designs
- ODMs has been approved by quality \*certification teams at HQ

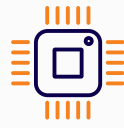


### Cost effectiveness

- Strong sourcing skills and economies of scale
- Effective backward integration
- End-to-End manufacturing under one roof

## Our Services

For your very specific industry, we have highly-tailored solutions.



### Electronics Manufacturing

We have a well equipped with state of art technologically advanced SMT Manufacturing shop floor and proven process to serve committed time delivery and reliable product and service. Our expertise in the manufacturing process covers the wide spectrum of electronics manufacturing and various requirements of OEMs. We offer our service with flexible volume with Complexity board manufacturing. Our Shop floor is equipped with a fully automated SMT Line with High Speed Pick and place machine, High accuracy Paste Printer, RoHS Process Approved Reflow in house IR based BGA rework station.



### Rapid Prototyping

Rapid Prototyping is a relatively new and developing set of technologies for electronics products. A variety of different techniques used in the design of products and prototypes are presented in this article. Here we utilized our technique to enablers and limitations for certain materials, such as plastics, to construct models and components are considered. Although some materials limit the applicability for these techniques as a viable method for constructing prototypes, rapid prototyping with metallic materials provide a profound breakthrough and enabling effect on product design and manufacturing.



### Design & Engineering

We have Integrate System for direction to workstream to productivity and Cost- effective process via review post build and Review received document, procedure, Test software to meet respect to received order and well defined a process flow to meet customer Requirement, Highly skilled engineering review fact and insist on the development of Tool, jig, Test fixture, and Software. His expertise in micromanagement to prepare a special instruction and stage guideline.







## High-Value Mechanical Assembly

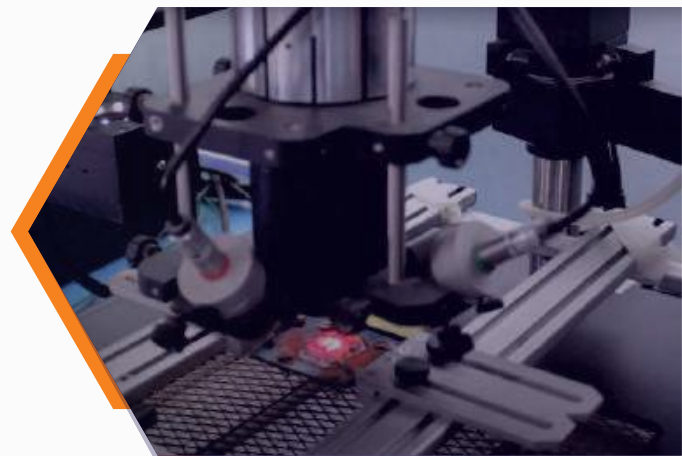
We offer here a complete turnkey solution and box build service, serve a Precision mechanical assembly, reliable, time-bound, and cost-effective product through competitive material sourcing, rapid assembly planning. It is very useful to change during globally product manufacturing location changed. Box-build, which is also referred to as systems integration, is an assembly work other than a printed circuit board (PCB) production. It is an electromechanical assembly process, which includes enclosure fabrication, installation and routing of cabling or wire harnesses, and installation of sub-assemblies and components. The box build can mean a PCB Assembly (PCBA) in a big cabinet full of wires, or a small enclosure, or a complex fully integrated electro-mechanical system with pneumatics and electronics.



## Test Service

Mefron offers robust testing services through platforms to ensure reliable products. We offer a variety of test solutions to provide the most flexible, occupied test coverage possible in order to ensure the highest quality. We carry 100% of the boards that are under process.

PCB manufacturing and testing are like squabbling siblings. PCB testing is an essential expense that, When done correctly prevents much larger and more embarrassing damage control when your product goes to market



## Supply Chain Management

We have particularly practice in material management in the movement and storage of raw materials, of work-in-process inventory, and of finished goods as well as the end-to-end order fulfilment from point of origin to point of consumption. Interconnected, interrelated, or interlinked networks, channels, and node

businesses combine in the provision of products and services required by end customers in a supply chain.



## Our Mefron Team

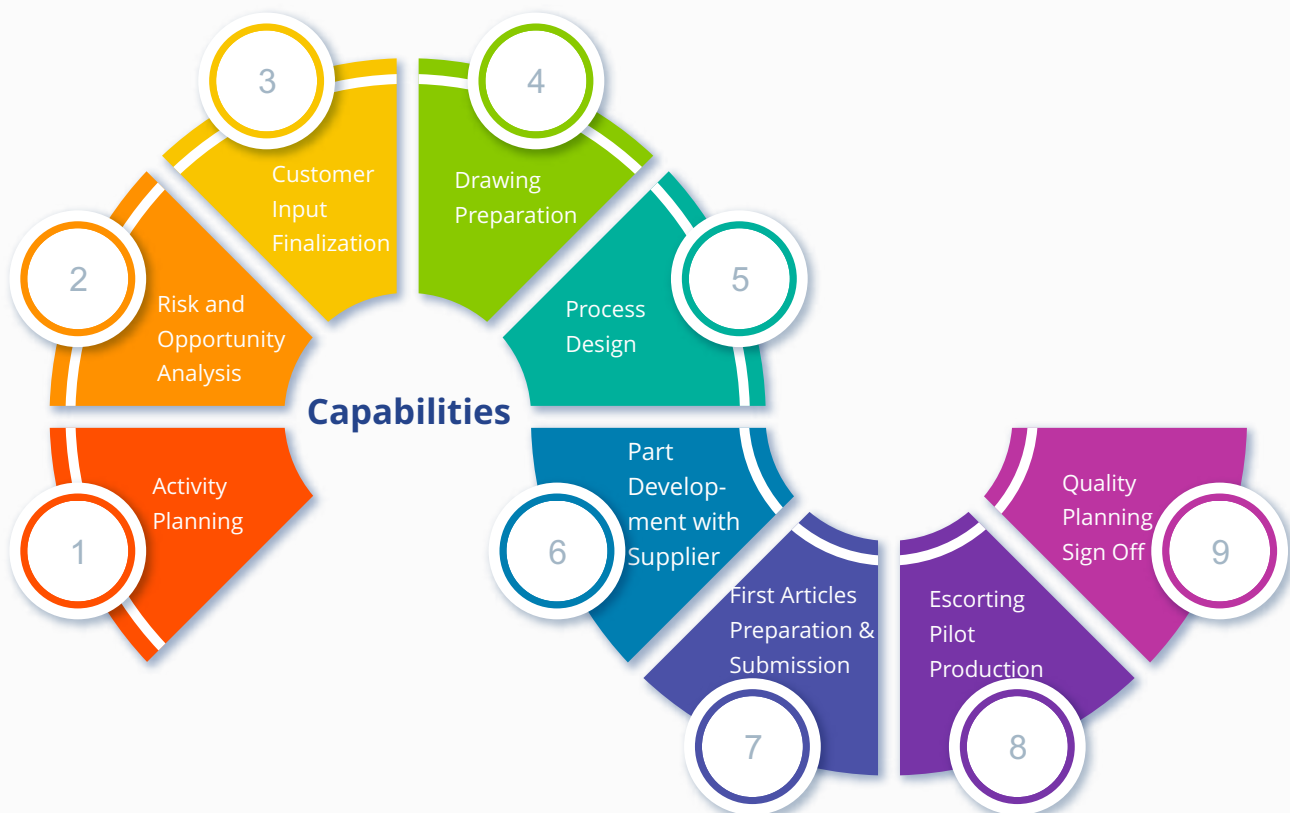


Our Team has a greater capability to draw heavily from the areas of industrial engineering, systems engineering, operations management, logistics, procurement, information technology, and its help to us in procure competitively and best quality material from the global and local market that benefit, we transfer to our customer. We offer KANBAN is a scheduling system that is used in lean processes and Just-In-Time inventory replenishment programs to help companies improve their production and reduce their overall inventory.

## Our Capabilities

New Product Introduction

NPI is the core of any EMS business. Kaynes has a well-matured NPI process and a strong team to deliver a quality product. The steps of the NPI are as under:





## Technical Capability

Mefron EMS is a Contract Manufacturing Services Company and We Provide Cost- effective, integrated & High-quality Product Solutions.

- We have a strong team for process design in all stages of manufacturing
- Structured manufacturing techniques are embraced at different stages for better
- Our technical team has knowledge of various hardware and software platforms available across the industry.
- We have separate technical teams for electronics, mechanical, manufacturing infrastructure.
- We have the technical competence to design and develop and test for manufacturing
- We have the competence for building custom requirements to meet the needs of product qualification and validation

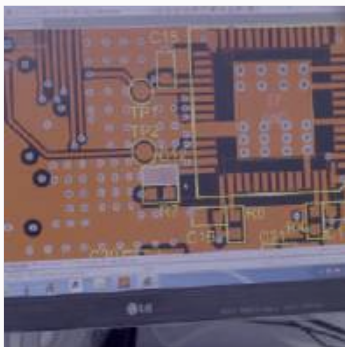


## Manufacturing Capability

With our diverse experience building microelectronics, printed circuit board assembly (PCBA), and simple to complex systems integration, we've distinguished ourselves by adding a wide range of solutions that make us the premier end-to-end, one-stop-shop for delivering innovative products.



## Design Capability



### Design For Assembly

Designing PCBs in a way that is most suitable for assembly while keeping the end product in mind. We consider part and trace spacing, component selection, board size, component placement, and RoHS and non-RoHS-compliant assembly.

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# EMS Solution

For your very specific industry, we have the latest EMS solution based Components.

## Printed Circuit Boards Assembly

Our service offerings enhance customer experience through secure & highly functional end-to-end warranty management.



Testing



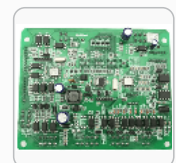
PCBA



SMT Line



Inspection



## Plastic Injection Mold & Molding

Develop and propose product improvements through periodical and accurate testing, repairing & refining every version.



Injection Molding



Mold Section



Injection Molding

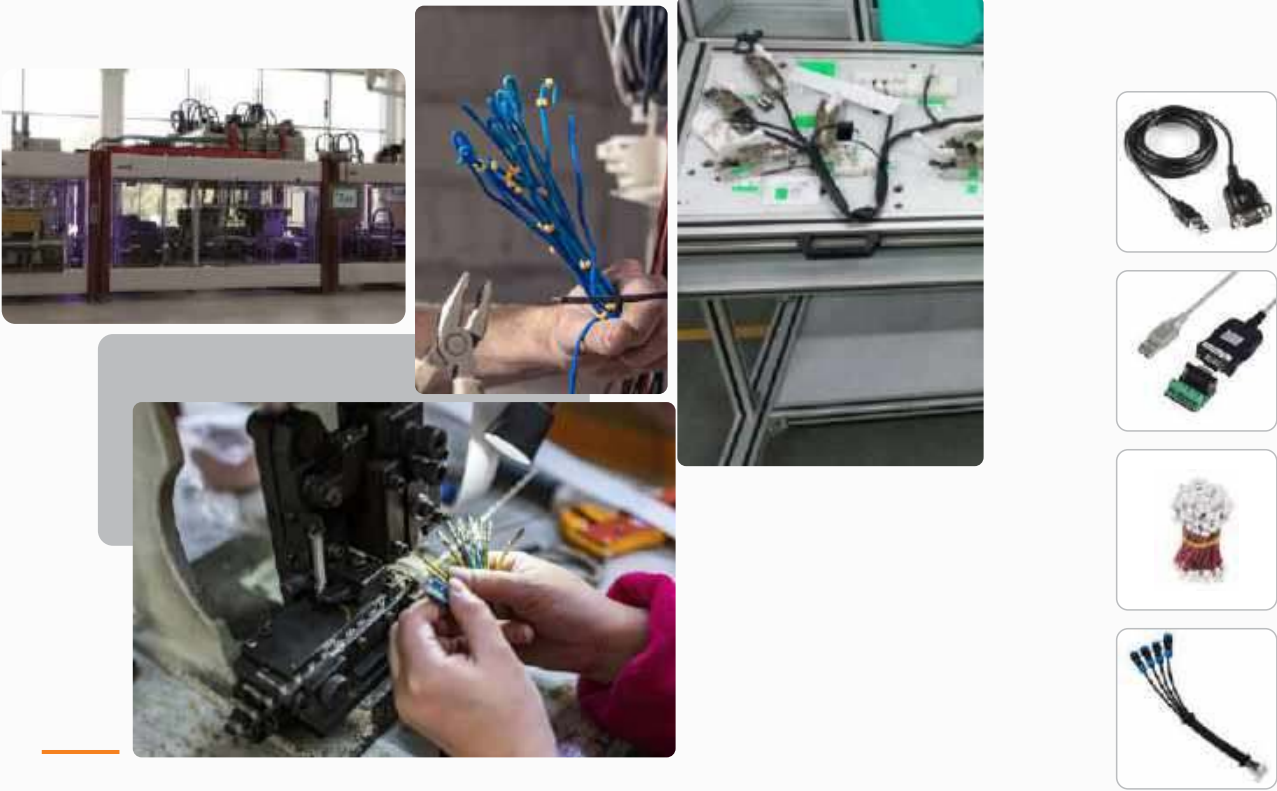


Tool Room



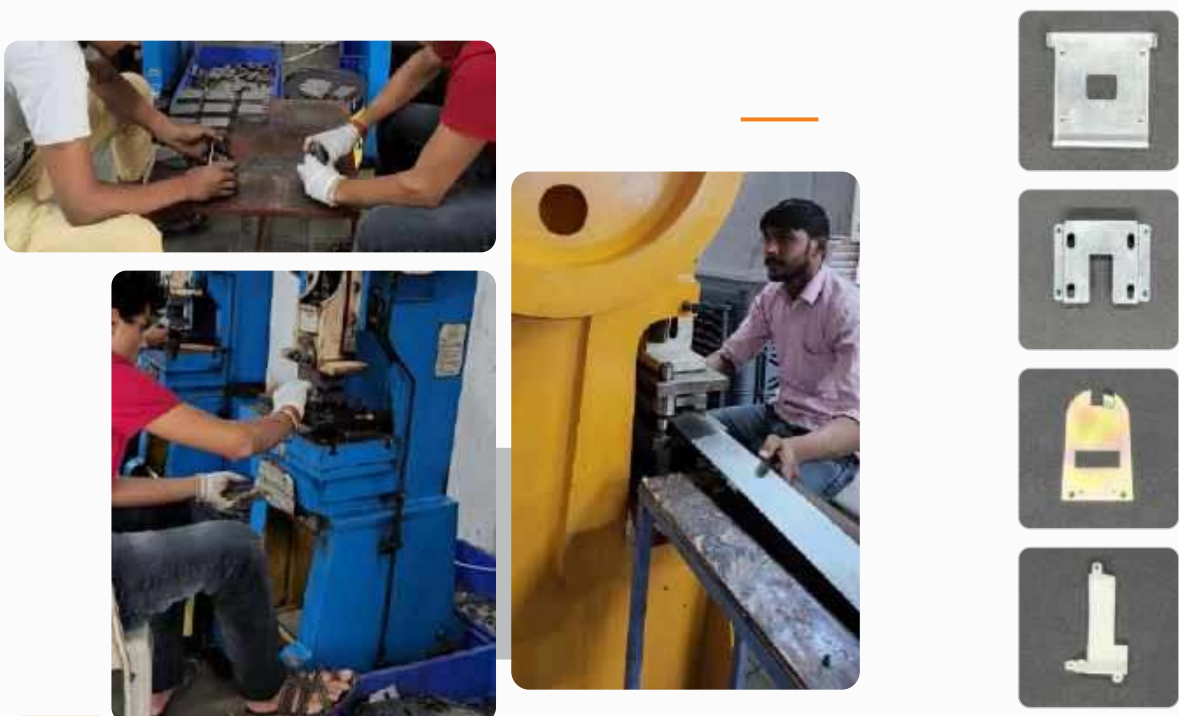
## Wire & Cable Harness

Our wire and cable harness service provides customized design, assembly, and testing solutions for organized and efficient electrical connections in complex systems and devices.



## Sheet Metal Fabrication

At Mefron, we have a holistic and integrated approach towards core modernization to experience technological evolution.





## Paint Booth & Silk Screen

Electronic paintwork service applies conductive materials for circuitry and sensors on various surfaces, enabling smart and responsive functionalities in electronic devices.



## Product Packaging

Our electronic product packaging service utilizes EPE foam and protective armor to safeguard delicate electronic devices during transportation and storage, ensuring their integrity and functionality.

EPE Foam Cut Pieces/Pouches

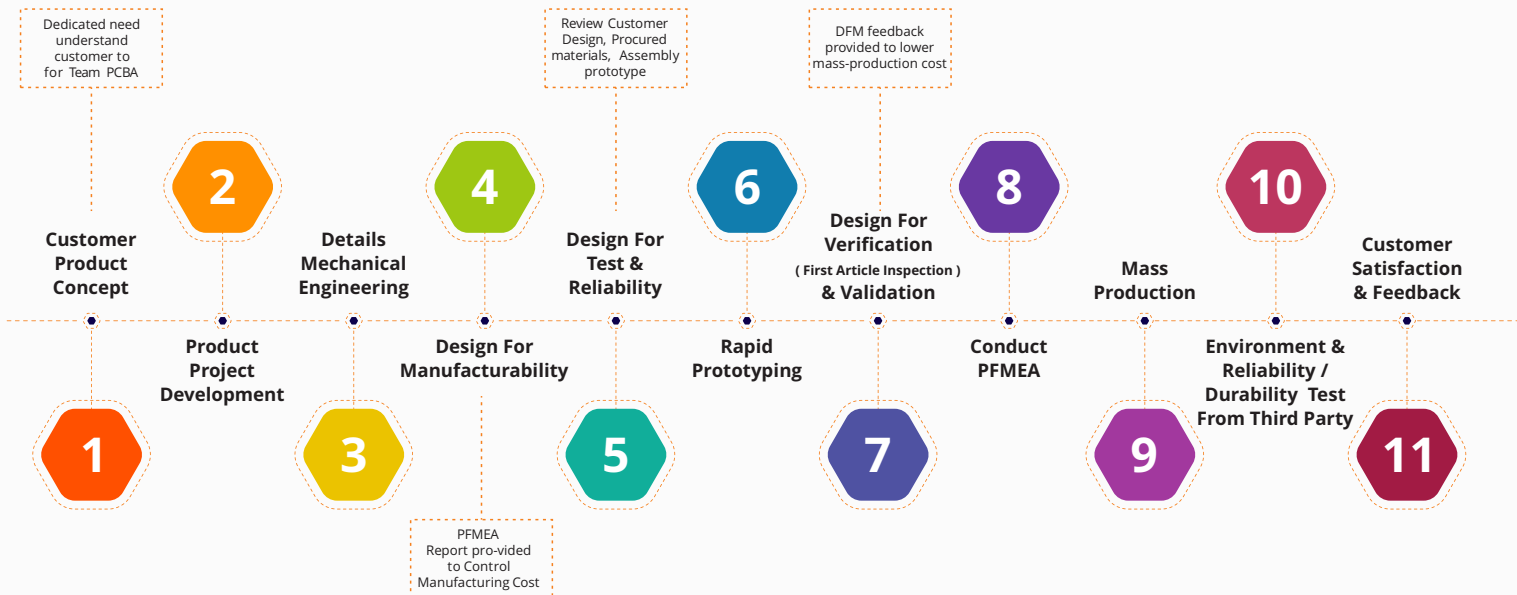


## Box Build Assembly

Box build assembly service integrates various components, electronics, and subsystems into a complete product, streamlining manufacturing and ensuring functionality.



## Box Build Process



# Infrastructure



- **Area :** 48000 Sqft.
- **Manufacturing :**
- Installed 2 SMT line with provision of more.
- 6 vertical and 6 horizontal injection moulding machine with capacity of 80 Ton to 500 Ton.
- Cables manufacturing facility which includes wrapping, printing, sintering, twisting, shielding and jacketing capability to manufacture about 80,000 meter of different sizes and types of wire/ cable per month.
- We fabricate over 1,000 parts within days, serving 100,000 product production capacity and producing 37,000+ parts each month.
- Plant is fully RoHS Compliant.
- Automatic Axial machines.
- 10 zone RoHS compliant reflow, wave soldering machine.
- Inline SPI & AOI with reject PCBA conveyor movement.
- Offline X-ray inspection.
- Clean environment standard
- **Temp. range:** 25+/- 3°C
- **Humidity range:** 50% +/- 20%
- **Positive air circulation :** 20%.

\* 1 SMT line under development



# “Many Years’ Experience In Ems Learn More About Our Success Stories”



## Sector Served



## Certifications





\* Applied for ISO 13485, IATF 16949:2016 & AS9100 Certificate


## Partners





 B703, Shapath Hexa, Opp. Gujarat High Court,  
S.G. Highway, Sola, Ahmedabad - 380060, Gujarat.

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