# **O/E/N India Limited**

\*We make electronics work





• 1968-2018 •

# CELEBRATING 'FUTURE'

**O/E/N India Limited** 

RELAYS

EV-EVSE CONTACTORS CUSTOM-BUILT AEROSPACE ASSEMBLIES

BUS BARS

**SWITCHES** 

# Market Leaders in India for Relays & EV-EVSE Contactors





### **O/E/N India Limited**

# **Product Range**

#### Relays

- Automotive Plug In & PCB
- Industrial PCB & DIN RAIL mountable
- Timer Relays
- EV Relays
- Latching RELAYS



Custom Built Aerospace Assemblies

Bus

Bars



# **Approvals & Certifications**



US



# Manufacturing Facility – Inhouse Tool Room



#### In-house Tool Room

- Wire Cut EDM,
- Spark Erosion CNC EDM
- 3 Axis Vertical Milling Centre

- Super drill
- Radial drilling
- Surface grinders

- Planers
- Lathes
- Software for CAD/CAM Design, Modeling, Programming & Manufacturing



# Manufacturing Facility – Fabrication Shop





Press Shop for Stamped Parts

5 T to 110 T Capacity Presses

Max Speed 1400 SPM





# Manufacturing Facility – **Moulding Shop**





# Tool & Mould Design

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# Manufacturing Facility – Semi Automated Plating Lines



#### Semi-Automated Plating lines

- Plating capacity of 1 M parts per day
- Vibratory & Barrel Plating
- Complying to MIL and ASTM standards
- Vibratory Plating for high precision parts

#### Types of plating finishes

- Silver
- Gold plating & flashing
- Tin-bright/matte finish
- Copper\_
- Nickel- bright/ semi-bright/ dull
- Trivalent chromium
- Zinc, Zinc-Nickel



# **Precision Engineering Competence**

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# Manufacturing Facility- Assembly plant

#### Automated Assembly/ Finishing lines

- Automatic Winding
- Auto Soldering
- Automated sealing machines
- Fully & Semi

Automated Relay assembly lines

 Automated End of Line Testing

#### **Production Lines**

Fully Automated & Semi-Automated Assembly Lines.

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Annual Capacity of **75 M Relays** 

- End of Line Testing Stations
- Skilled & Trained
  Operators backed up
  by Engineers



# **Process Automation**

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#### In-house process automation



Fully Equipped Department to meet all the Automation needs of the plant



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Dedicated Team of Engineers for design, fabrication and maintenance of Automated Production Lines

In-house machining equipment to serve tooling needs

#### Key highlights:

machines

Semi automated and fully automated production lines incorporating the latest automation technologies

Automated End Standardized of line testing product testing and evaluation equipments adapted for different product lines





# **Product Design and Development**





Technical Teams for Product Design, Development & Technology Absorption (Design includes microcontroller based products)



Capability to build Quick Prototypes



Competence to design and manufacture Tools & Molds for high precision, complex parts







# **Product Design and Development - APQP Design Methodology**

#### All general product development activities are handled following APQP (Advanced Product Quality Planning) methodology. APQP is a 5 step process







#### Benefits of APQP methodology



To direct resources to satisfy the customer



To understand the needs of customers at conception stage



To promote early identification of required changes



To avoid late changes



To provide a quality product on time at the lowest cost

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# **Quality Assurance Lab**

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The QA Lab is equipped with state-of-the-art testing equipment required for Inspection, Testing & Qualification of products to Automotive, Industrial & MIL Grade Standards & Specifications.



#### **Testing Facilities**

- Thermal Shock Chamber (-70 Deg C to +170 Deg C)
- Salt Spray Chamber
- Hot Air Ovens (Temp 30 200°C)
- Hardness TesterX-Ray Play Plating Thickness Measurement
- ED XRF Epsilon 1 : Plating Tester, RoHS tester

- Inductive & Resistive Load Testing 10-100A at 230VAC
- Load Tester 30VDC, 300A
- 500VDC, 66A Load Tester
- Universal Testing Machine
- Altitude Chamber : 0-760 mm Of Hg, Upto 75000 Feet (22000 meters).
- Vibration Tester 3,500Hz, 120G
- Bump Test 40G



Environmental Chamber

# **Products & Segments**





# **Products & Segments**





### **Customer Support Network**





# **International Sales Regions**





# Why O/E/N

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Over five decades of specialized expertise in development and manufacture of electromechanical components & strategic electronic products – A legacy brand



Innovative product design and development team to convert ideas and concepts to customized switching solutions



Multi-locational state-of-the-art manufacturing facilities with fully automated & semi-automated lines



Relentless focus on product quality and reliability



Customer centric approach that has been rewarded with an ever- expanding base of loyal customers in India and abroad

# **O/E/N India Limited \***We make electronics work

Backed by over five decades of proven manufacturing and technological excellence, we are continuously striving to match and exceed the expectations of our customers and business associates.

# Connect with Us!!



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