

- PCB
- PCBA & Box Building
- Plastic & Metal Parts and Enclosures
- LED Lighting

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

## *From the Founder...*

**A**s the founder of ACME group of companies, I am deeply proud of the journey we have undertaken together. What began as a vision to build innovative manufacturing solutions has flourished into a dynamic enterprise, driven by excellence, creativity, and teamwork.

Through our dedicated efforts, we have successfully established three thriving sister concerns specializing in PCB manufacturing, Electronic Manufacturing Services (EMS), and Lighting manufacturing. These divisions reflect our unwavering commitment to precision, quality, and technological advancement, enabling us to serve a diverse range of industries and touch countless lives.

Our success stems not only from the expertise and innovation we bring to the table but also from the trust and partnerships we have cultivated over the years. With a steadfast focus on sustainability and a passion for progress, we are poised to create meaningful solutions that illuminate the future.

I am honoured to lead a team that shares a collective vision for growth, integrity, and transformation. Together, we continue to redefine the boundaries of manufacturing excellence and build a legacy for generations to come.



*Soeh Pandya*

Co - Founder

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### Strength of Acme Group

- Acme group has a team of highly experienced passionate technocrats.
- Acme Group has total facilities & capabilities of Designing, Engineering & Electronics Contract Manufacturing Services (ECMS)
- State-of-the-art manufacturing facilities.
- Uses technologically advanced equipment's from world's leading brands.
- Acme group believes in creating values by providing innovative and unparalleled services and solutions in the field of Electronic Manufacturing, Design & Engineering and Box Building
- Rapid Prototyping, New Product Introduction and Supply Chain Management.



### PCB

Since 2005, our company has been a leading manufacturer, supplier and exporter of a specialized, high precision, high reliability, high density PCBs (Printed Circuit Boards). We are an ISO 9001:2015 certified company working with a commitment to adhere to the international standards in the designing and manufacturing of PCBs. we are one stop solution for all your requirements from PCB layout to PCB layout to PCB fabrication.



### PCBA and Box Building

Acme is a team of young passionate technocrats. Design, Engineering & Electronics Contract Manufacturing Services (ECMS) company having state-of-the-art manufacturing facility and technologically advanced equipments from world's leading brands. Vinrox believes in creating values by providing innovative and unparalleled services and solutions in the field of Electronic Manufacturing, Design & Engineering, Rapid Prototyping, New Product Introduction and Supply Chain Management.



### Plastic & Metal Parts and Enclosures

The group provides one stop solution for custom injection molded parts with expertise in mold development, injection molding process and post mold assembly operations. We specialize in providing engineering grade plastic parts to OEMs and end use product companies.

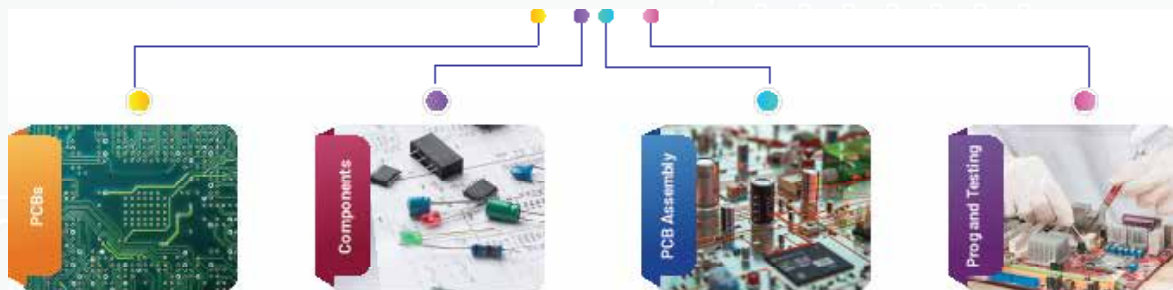


### LED Lighting

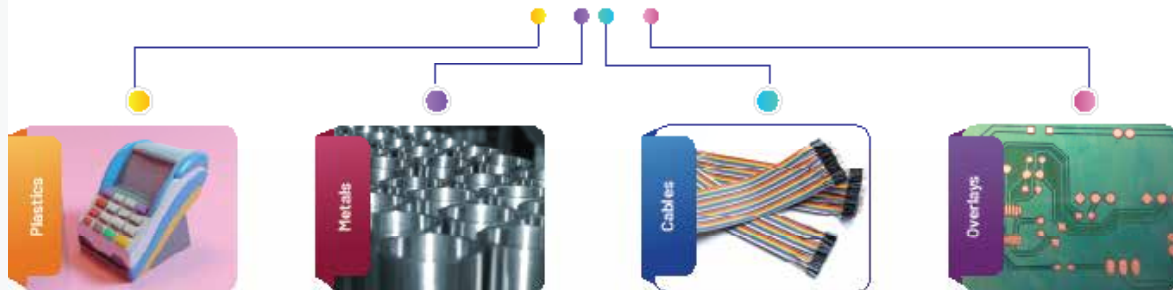
Arka was conceived with a visionary intent to reshape the future of illumination through precision, innovation, and reliability. Arka is an ISO 9001-2015 certified company built upon a robust legacy of excellence. This foundation has evolved into Arka a company dedicated to mastering the art and science of advanced lighting technologies.

# End-To-End Electronic Manufacturing

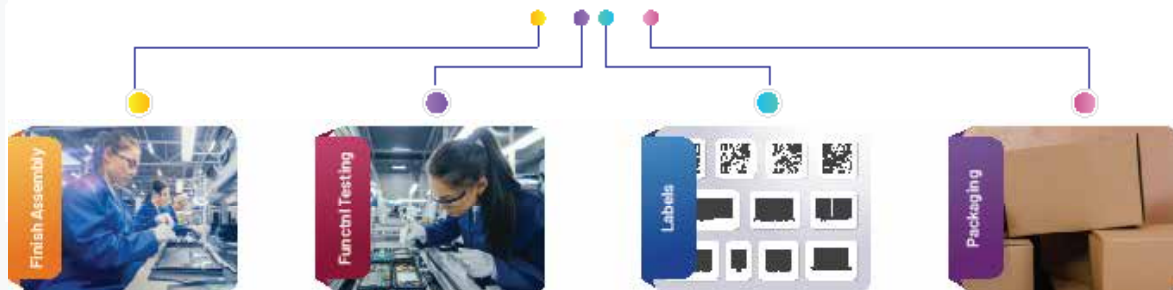
## PCB / PCBA



## Allied Parts



## Turnkey Box Building



## Green Manufacturing & Intellectual Property Protection



## Industries we serve



## Quality Systems & Memberships



# PCB

## Manufacturing Capacity

We offer prototypes and high-volume production in our Ahmedabad, Gujarat and Vadodara Gujarat facilities. Manufacturing includes single-sided, Metal core and multi-layer constructions using an array of base materials. Upon request, our global partners are an option based on lead times and pricing requirements.

Our 60,000 sq. ft., full-service PCB solution-provider at our headquarters in Ahmedabad is capable of manufacturing over 180, 000 sq. mtr. of panels per annum. Within this facility, our manufacturing processes are continuously upgraded with new equipment to allow us to stay current with the newest technologies.

## PCB Capabilities

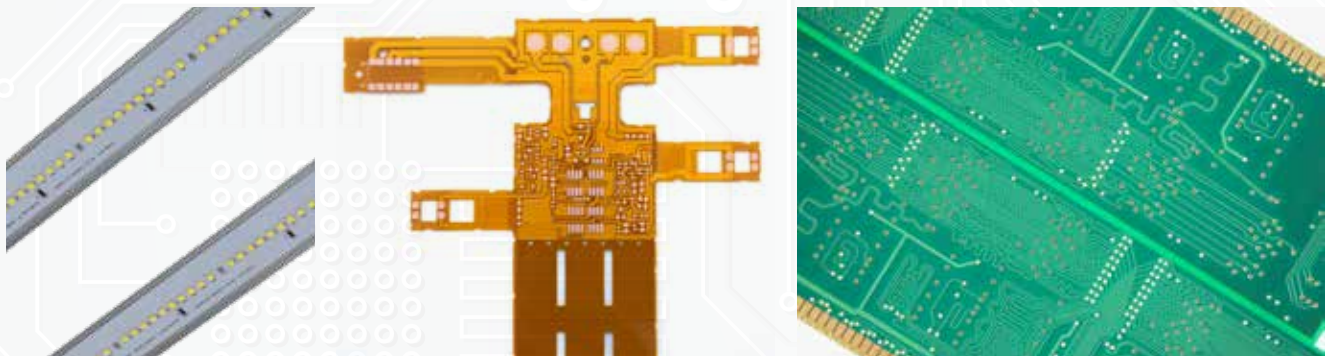
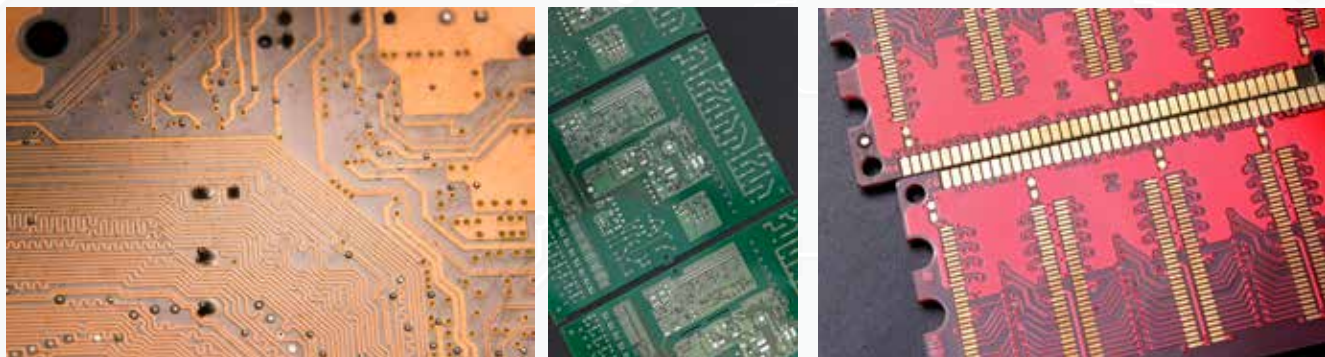
- Layers: 1-40
- Smallest Trace/Space:  
3/3 mils Smallest PadSize: 3 mils
- Min. Aspect Ratio: 12:1
- Board Thickness: 20-250 mils
- Minimum 0.4 mm BGA Pitch
- LOI Solder Mask Registration
- Plated Edges/Castellation's
- Multiple Plating
- Minimum Solder Mask Between Pads: 2.5 mils
- Min. Core Thickness: 2mils (without copper), 5 mils (with copper)
- Smallest DrillSize: 3 mils (Mechanical), 3 mils (Laser)
- Smallest Finished Hole Size: 2 mils (Mechanical), 2 mils (Laser)
- Vias: Blind, Buried, In Pad, Via fill
- Largest Panel Size:  
22" x 48" {Single-sided & MetalCore PCBs}  
22" x 48" {Double-sided PCBs}  
22" x 26" (Multi-Layer PCBs)
- Materials:  
FR-4 (Low Tg, or High Tg, UL Approved)  
Megtron 6  
Potyimide  
Rogers Ceramic & Duroid  
Halogen-free  
Taconic Nelco

## Production Capabilities (Rigid, Flex and Rigid-Flex)

- Arion / Arion Flex
- High Frequency
- Panasonic
- Impedance Tolerance : 5%
- Impedance Control
- LOI Inner/Outer Layer Imaging
- High Copper Weight
- Via Fillconductive/non-conductive
- Control Depth Routing
- Metal Core:  
Aluminium Core 6061  
Aluminium Core 5052  
Copper Core  
Copper-Invar-Copper
- Hybrids:  
Metal-Backed Rogers Duroid  
Metal-Backed Robers Ceramics  
Metal-Backed FR-4
- Surface Treatments:  
HASL (lead or lead-free)  
ENIG  
Gold Plating  
Immersion Thin  
Immersion Silver  
OSP

## PCB Capabilities

- **Solder Mask**  
Green, White, Orange, Blue Red, Black, Yellow, Customer Colors
- **Technical Assistance**
- **Rigid-Flex & Flex:**
  - Sculpted Fingers
  - Impedance Control
  - Dynamic Flexing
  - Fine Lines
  - Cavity Boards
- Wire Bondable
- Strip lines
- Micro Strip Lines
- Cryo-Stable (as low as -200C Liquid Nitrogen/Rigid-Flex)
- Cryo-Stable(as low as -273CLiquid Nitrogen/Flex)



## Machinery for PCB Manufacturing



Roller Cutting Machine



Etching and Stripping Machine



Photoresist Coating Machine



CNC V Grooving Machine



UV LED Dry Film Exposure



Solder Mask Screen Printing



# PCB Assembly

We provide contract manufacturing with high-speed SMT and through-hole lines for both prototypes and large production orders across military, medical, automotive, industrial, and consumer sectors. Our in-house design and fabrication allow for prototype creation in as fast as 24 hours. We also offer functional testing, programming, inspection, and rework.

Our quality system ensures that employees are IPC-A-610 and IPC-J-STD Class III qualified, and all SMT areas are ITAR-restricted to meet military standards. Additionally, we are ESO compliant with ANSI/ESD S20.20.



## State-Of-The-Art Facility

- Located in the heart of Industrial Corridor Area
- ESD Floors & Human ESD Control
- Centrally Air Conditioned Dust Free Environment
- Easy access to Airport, Seaport and Road Transportation across INDIA
- 200+ Skilled Engineers and Technicians

## 3 Advanced SMT Lines

- FUJI GPX CII: Paste Printer
- GKG G-TITAN: Paste Printer
- KOH YOUNG KY8080: 3D SPI
- FUJI AIMEX 3C: P & P
- JT RS800: Reflow Oven
- KIC PROFILER
- NORDSON: 3D AOI
- TRI: 2D AOI
- GLENBROOKE: X-Ray

## Capabilities & Capacity

- SMT > 01005 to 102mm SMT Components Size
- SMT > Micro BGA/Large BGA, CSP, Flip-Chip, Fine Pitch, QFN & Modules/SOM
- PCB Size: 510mm x 400mm
- Flex & Rigid-Flex PCB Assembly
- Thru Hole Assmby
- No MOQ, Proto, High-Mix Low
- Volume or High Volume
- IC Programming, Board Programming & Board Level/System Level Testing
- Conformal Coating
- Epoxy Potting
- Cable/Wire/Flex Cable Soldering on the Board
- 5000-10000 PCBA per Day
- 500-3000 Products/Box-Build per Day



Our Infrastructure



ESD SAFE FLOOR  
CENTRAL AIR-CONDITIONED ENVIRONMENT



FULLY AUTOMATIC PCB LOADER  
PASTE PRINTER | GKG TITAN FULLY AUTOMATIC



8+2 ZONES REFLOW OVEN FROM JT  
FULLY AUTOMATIC PCB UNLOADER



BAKING OVEN  
X-RAY FROM GLENBROOKE, USA



100% FIRST ARTICLE INSPECTION  
JOB TRAVELLER FOR STRICT PROCESS CONTROL



100% AUTOMATIC OPTICAL INSPECTION  
REPAIR CENTER TO RECTIFY DEFECTS BEFORE TH

Our Infrastructure



V-GROOVE SEPARATOR  
STRESS FREE DEPANELISATION



FEW SAMPLES FOR REFERENCE  
ESD SAFE STORAGE & HANDLING



CONVEYOR BASED AQUA WASHING LINE  
BAKING BUILT-IN



100% FINAL VISUAL INSPECTION  
100% QUALITY CHECK



**Our Infrastructure**



**Our Infrastructure**



**Supporting Equipments and Jigs & Fixtures**



AOI Machine



Aqua Washline Machine



Wave Soldering Machine



Epoxy Potting Machine

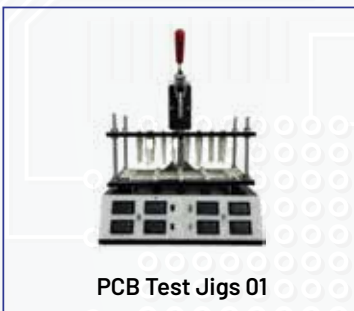


Laser Marking Machine

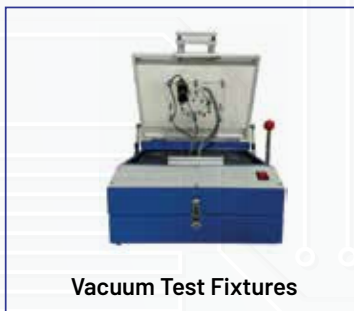


PCB Separation Machine

**Customise Testing Jigs & Fixtures**



PCB Test Jigs 01



Vacuum Test Fixtures



PCB Test Jigs 02

**Cable Assembly & Wire Harness**



Precision Crimping Machines



Sleeve Cutting Machines



Automatic Wire Stripping & Cutting Machines



Refers to IPC/WHMA-A-620

**Overlays and Packaging**

Partners with keypad overlay manufacturers and packaging designers & manufacturers



Overlay PC Labels



Overlay PC Labels



Membrane Keypads



Membrane Keypads



Product Packaging

# Turnkey Box Build / TLA

- 5 Advanced Box-Build / Top Level Assembly Lines
- Experienced and Skilled Assemblers Force
- Assembly lines equipped with PCs, Scanners, Printers & Marking Machines
- Equipped with IP Cameras to monitor production process remotely by customer.

## Assembly Line Equipments

Printers and Scanners



Laser Marking Systems



Ultrasonic Plastic Welding Machine

## Box Built Products



## Plastic Molds & Components

- Plastic Injection Molds/ Tools
- BOX-BUILD/ TLA
- 25 Injections Molding Machines from 25 Tones to 650 Tones from leading brands like Feromatik Milacron, Engel, L&T and Arbourg with Automatic Robot pick up
- Can Process all kind of Engineering Plastics
- Pad Printing on Plastic Parts
- Plastic Parts sub-assemblies
- Over-Molding & Insert Molding



## Metal Parts & Enclosures

Partners with fabricators and extruders locally

- Enclosure & Plates> Sheet Metal Fabrication
- Blanked and Turned Parts
- Aluminium Extrusion
- Pressure Die-Casting and Gravity Casting
- Hi-Tech Laser cutting and Bending machines
- Tools & Dies for Metal Cutting
- Powder Coating
- Anodizing Process



## Manufacturing Facilities



60-1050 Clamp Tonnage

31 Injection Molding Machines

ISO 8 Class 100,000 Clean Room

## Mould Development

- Acme has partnered with mould manufacturers in India, China & Taiwan.
- Acme Engineering team reviews and controls aspects of mould DFM, mould Flow Analysis & mould Design.
- Experts in critical moulds such as hot runners, split moulds with hydraulic and pneumatic core pulls.
- Mould Trial and Qualification process
- In-house tool room for mould repair/modification and preventive maintenance.



**Plastic Moulding Machinery**

Machine make	Machine Tonnage	No. of Machine
YIZUMI	1050 Ton	1
Milacron	660 Ton	1
Milacron	450 Ton	1
Milacron	350 Ton	1
Milacron	250 Ton	2
YIZUMI	260 Ton	1
ARBURG	200 Ton	1
Milacron	200 Ton	1
YIZUMI	200 Ton	2
YIZUMI	160 Ton	5
Milacron	150 Ton	5
Milacron	125 Ton	3
YIZUMI	90 Ton	1
Milacron	80 Ton	1
L&T	60 Ton	2
TKC	55 Ton	3
	<b>Total</b>	<b>31</b>

**Lab Equipments**

Description of Equipment	Nos.
VMM	1
HV Tester - 15 KVA	1
Height Gauge 300 mm	1
Varnier Calipers - 600 mm	1
Vernier Callipers - 200 mm	2
Thread Gauge 8 mm	1
Thread Gauge 14 mm	1
Weigh Balance - 3 Kgs	1
Weigh Balance - 10 Kgs	1
Weigh Balance - 20 Kgs	3
Weigh Balance - 100 Kgs	1
Weigh Balance - 200 Kgs	2
Vernier Callipers Inside - 150 mm	1



**The Art of Lighting**

Arka was conceived with a visionary intent to reshape the future of illumination through precision, innovation, and reliability. As a member of the Acme Group of Companies, founded in 2005, Arka, ISO 9001-2015 certified company, is built upon a robust legacy of excellence. Over the years, Acme has earned a distinguished reputation as a pioneer in the remanufacturing of Printed Circuit Boards (PCBs) and specialized electronic manufacturing services. This foundation has evolved into Arka—a company dedicated to mastering the art and science of advanced lighting technologies.

**Legacy of Excellence**

The group's esteemed clients include industry leaders like Philips, Syska, Crompton, Bajaj, and Panasonic. It has significantly advanced electronic infrastructure in the automotive, lighting, and EMS sectors.

**Vision & Mission**

To be a global leader in intelligent, innovative lighting solutions that improve quality of life. To deliver reliable, sustainable lighting technologies through innovation and craftsmanship, meeting the diverse needs of our customers in domestic, automotive, and industrial sectors.



## Components/BOM Sourcing

Vinrox partners with all major global authorised distributors



## Certification / Membership



## Esteemed Customers





# Thank You



## Contact us



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Digital Catalogue