



Aaviza Electronics Private Limited is an Emerging Electronic System Design & Manufacturing (ESDM) player with focus on wiring harness, box build & magnetics.

Viccacia Global Technologies is an electronic product company with vision to design, manufacture and support the best quality product solutions for OEMs/ consumers. 100% Subsidiary of Aaviza Electronics.

Established and Managed by people with rich industry experience.

We provide customized products to Aerospace, Automotive, Consumer Electronics, Defense, Industrial, IT enabled products, Medical, Power & Energy, Railway markets etc.



3 Units – Bangalore,
Coimbatore, Doddaballapur
(Bangalore Rural)



38,000+ sq. ft.
Manufacturing space



350+
Manpower

PRODUCTS & SERVICES

- Product Assembly
- PCB Assembly
- Electro-Mechanical Box Assembly
- Magnetic Coil Assembly
- Wiring Harness
- Product Design & Development
- Engineering Services – NPI
- Over Braiding
- Site Installation



Business Excellence SME
Certificate of Merit (2024)



India SME100 Award
Winner (2023)



Top Wiring Harness
Supplier in India



India SME100 Award
Winner (2019)

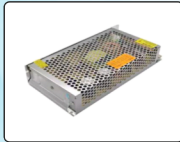
CAPABILITY OVERVIEW

Process	Machine / Manual	Capability	Type
Product Assembly	Both	Product concept to realisation, Hardware & software design, Electronics, Plastics, Mechanical etc.	Full Product
PCBA	SMT	Component Size Handling Min: 0402 chip (metric) Maximum: 120 x 90 mm ² Placement Accuracy: $\pm 40 \mu\text{m}$ (4s) PCB Format Maximum: 510 x 460 mm	Electronics
	Wave soldering	PCB Handling Maximum: 300 x 380 mm Preheat: 1 & 2, Maximum wave height: 0-10mm Solder Pot Capacity: 200 lbs / 90 kgs	Electronics
	Screen printer	PCB handling max size: 510*510 sq mm Stencil Max Size: 737 mm*737 mm Paste Height Accuracy: +2micron / -1micron Printing accuracy: 2 Cpk @ ± 20 microns, 6 Sigma	Electronics
	Reflow Oven	10 Zone Reflow machine	Electronics
	AOI	Exclusive 15MP/25MP CoaXPress Camera System, 3D Digital Tri-Frequency Moiré Technology, Leading-Edge 12 Projection Blue DLP Technology, INTELLI-PRO® Automatic Programming Software, INTELLISYS® Industry 4.0 Intelligent Factory Automation System	Electronics
Injection Moulding	Machine	2 gms to 90 gms	PVC, LLDPE, PP, Nylon, ABS, PC ABS
Potting	Machine		Two-part epoxy potting
Braiding	Machine	36 Spindle braiding for EMI/ EMC	ATC, Nomex, Nylon
Wire Cutting & Stripping	Machine	0.3 sq.mm up to 120 sq.mm OD	PVC/ FEP/ FLRY
	Manual	Any	Any
Sheath Removing	Hand tool	<3mm OD, Pneumatic	Silicon, PVC
	Machine	> 3mm OD	PVC
Stripping	Machine	Pneumatic	PVC
	Manual	Thermal	PTFE
Crimping	Auto Machine	26 AWG to 18 AWG	Stamped Terminal
	Semi Auto Machine	32 AWG to 4/0	
	Semi Auto Machine	20 AWG to 14 AWG	Bridge crimping
	Manual	30 AWG to 4/0	Machined / Tubular Terminal
Soldering	Machine	Single & dual head soldering 760 mm*760 mm movement	Robotic
	Manual	36 AWG to 4/0	D-Sub/ Micro D, Circular miniature /regular, Display Connector
Testing	Machine	AOI (PCBA), 1024-point harness tester, Continuity, Open / Short, IR, HV, Pull Force tester 1000 Kg, VNA Tester, Envir. Test chambers, Crimp cross section analysis lab	Product

Key Process & Controls

- Process wise parameter setting and control mechanism
- Classroom training
- On — Job training
- Skill matrix for Operators

INTRODUCING PRODUCTS



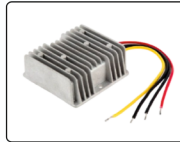
Industrial SMPS
(500 W, 24V)



Mobile Adaptor
20 W



Laptop Charger
65 W



EV DC-DC Converter
(72 V TO 12V & 48V TO 12V)



EV Battery Charger
(0.75 KW - 1.2 KW)



UPS
Industrial



IR Thermometer



AC Adaptor - 10 W

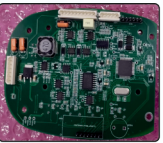
PRODUCT ASSEMBLY | PCBA



Medical Product Assembly



DC-DC Converter



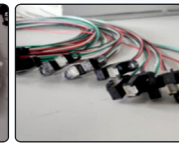
PCB Assembly



PCB Assembly



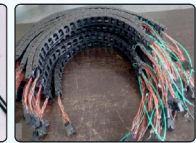
Equipment
Master Harness



Proximity Sensor
Harness



Photo Diode
Harness



Drag Chain Harness

MEDICAL ASSEMBLIES

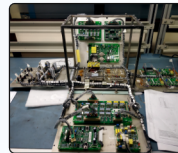
AEROSPACE & DEFENSE ASSEMBLIES



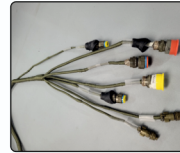
Missile Launcher
Wiring Harness



BOX
ASSEMBLIES



Missile Launcher
Control Box Assemblies



Nomex Braided Harness



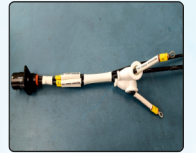
Circular Connector
Cable Assemblies



Aircraft LRU
Testing Cable Assembly

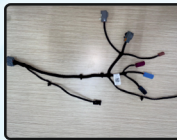


Defence Vehicle
Harness



Aeroplane Window
Heating Harness

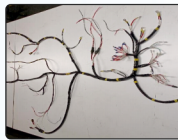
AUTOMOTIVE ASSEMBLIES



Car Seating
Harness



Ev Scooter
Main Harness



Chassis
Main Harness



Temperature Sensing
Harness



Audio
Video Cable



Y - Splitter
Cable



Panic
Switch Cable



Earth Mover
Harness

SPECIAL ASSEMBLIES



Solenoid Cable



Magnetic Coils



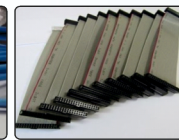
NTC Sensor Cable



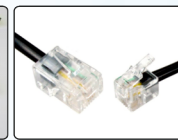
Power Cord



RF Cable



FRC Cable



RJ45, RJ11
Cable



USB Cable

INDUSTRIAL ASSEMBLIES

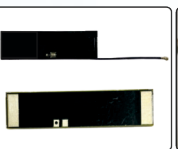
RAILWAYS | CONSUMER | POWER & ENERGY



EVM/ VVPAT
communication cable



Box Assemblies



Multiband Antenna
Assembly



LVDS Cables



Signaling Cable



Panel Assembly



Ear Phones



Temp. Sensor Harness

KEY DIFFERENTIATORS AND CAPABILITIES

- Unique selling of design enabled manufacturing of electronic/ electrical products
- One stop solution for developing full product
- NPI to Mass Production Support
- Seasoned & Experienced Management
- Project execution by risk mitigation approach
- Robust supply chain management
- Dedicated ESD lines for Box Builds
- In House IPC 620 Certified Trainer & Trained Operator
- Dedicated Facility For Exports Sales
- Engineered Cables & Connectors Development
- Competitive Cost Manufacturing Locations
- Eligible To Partner With Global Vendors Meeting Offset Obligations as Per MoD

MANUFACTURING EQUIPMENT



SMT Line



2 Auto Cut, Strip and Crimp M/c



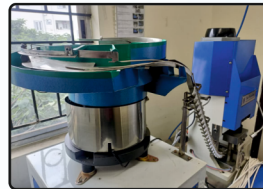
7 Vertical Inj. Moulding M/c



Epoxy Potting Machine



Conveyor belt for Assembly



Semi-auto bridge crimping m/c



Wave soldering m/c



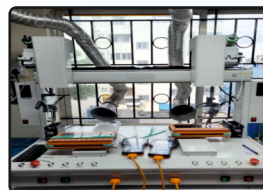
Auto Cable cut strip mc - upto 120 sq mm



30T Servo Terminal Crimping Machine - upto 120 sq mm



Braiding M/c (36- Spindle, 3-16mm)



Robotic Soldering M/c



Tape & Reel m/c, Vacuum Sealing m/c

TEST & MEASURE EQUIPMENT

Automated Optical Inspection M/c



Exclusive 15MP/25MP CoaXPress Camera System, 3D Digital Tri Frequency Moire Technology

Harness Test Systems



Up to 1024 points Continuity test, Short test, High voltage test, Insulation resistance

Environmental Test Chambers



Dry Hot Chamber : 0 to 200° C
Cyclic Chamber : -60° C to 200° C
Humidity Chamber : 95% Rh, 60° C

Crimp Cross Section Analysis Lab



Push Pull Gauge



Magnifiers



Crimp Height Micrometer



Height Master

AAVIZA ELECTRONICS PRIVATE LIMITED

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UNIT - 3

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