**THINK. INNOVATE. CREATE. PRODUCTIZE.**

# WORLD-CLASS ELECTRONIC TEST AND TESTABILITY SOLUTIONS
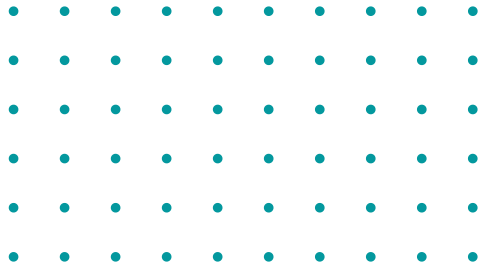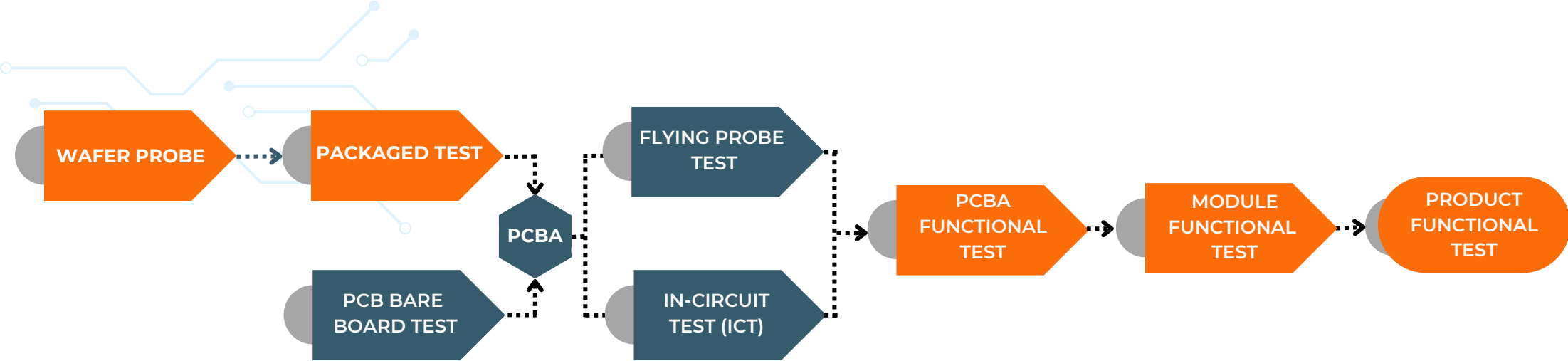
Texas, USA (HQ)
Munich, Germany
Bangalore, India
Chennai, India
Singapore
Penang, Malaysia

# LEADING PROVIDER OF FUNCTIONAL TEST SOLUTIONS FOR SOLAR AND RENEWABLE ENERGY

ANORA

# Electronic products gets tested after each manufacturing step.

- **Wafer probe** – Semiconductor dies are tested on wafer

- **Packaged test** – Dies get packaged and tested in packaged form

- **Bare board test** – Fabricated PCB gets tested against netlist

- **Flying probe test (FPT)** – Assembled PCB gets tested using flying probe tester to ensure component assembly is done correctly

- **In circuit test (ICT)** – Assembled PCB gets tested using In Circuit Tester (ICT) in production to ensure assembly is done correctly

- **Module functional test** – Modules such as cameras and sensors get mounted on to the PCBA and gets tested for functionality

- **PCBA functional test** – Assembled PCB gets tested to ensure PCB is functioning correctly. ICT and FPT checks manufacturing issues, while functional test checks for full functionality

- **Product functional test** – Multiple PCBAs and modules gets assembled into final product casing and the product gets tested for its function

**TURN-KEY SOLUTIONS FOR ALL COMPLEX TETSING STEPS IN THE ELECTRONIC MANUFACTURING**

# FUNCTIONAL TESTERS

# PRODUCT & PCBA HANDLERS

# DUT CONTACT FIXTURES



- Test spec to instrument selection, ATE design
- Custom instruments design
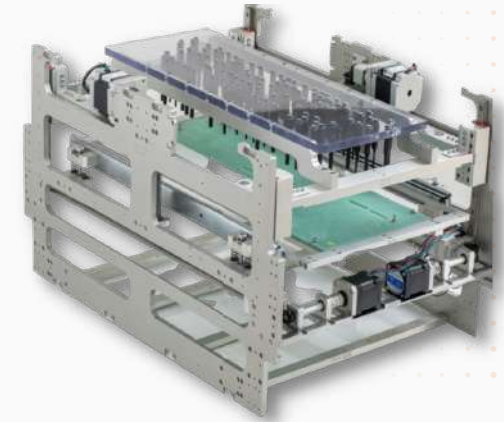- ATE bill of material procurement, build, pack and ship

- Multi-site High volume PCBA handler
- 19" rack compatible PCBA handler
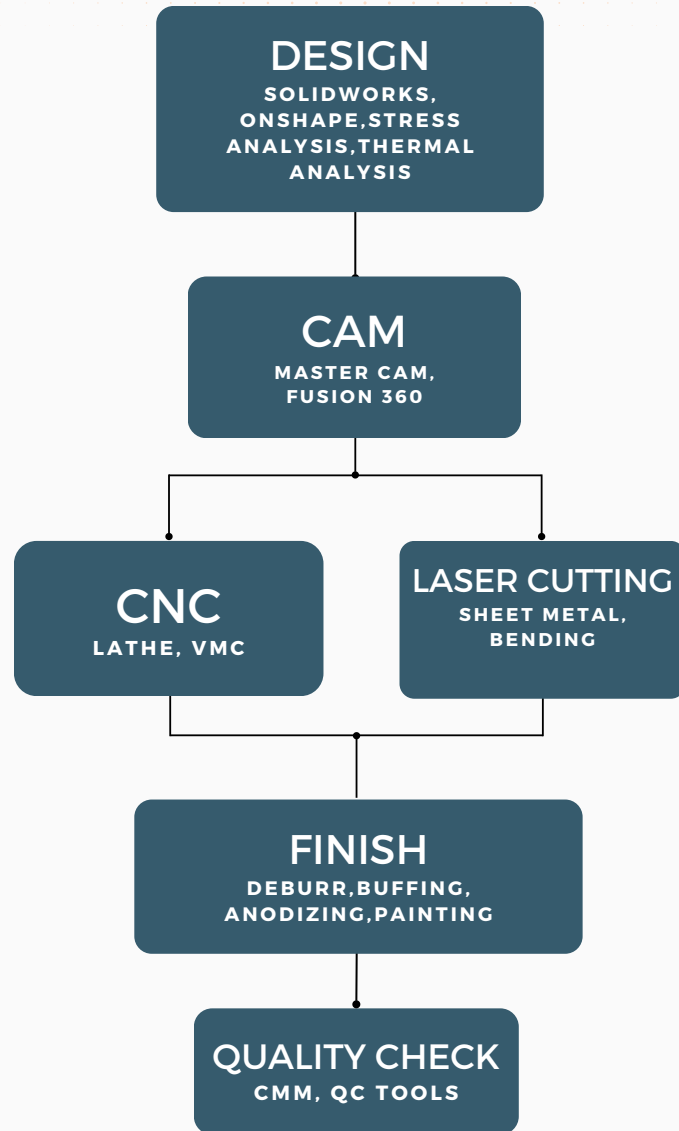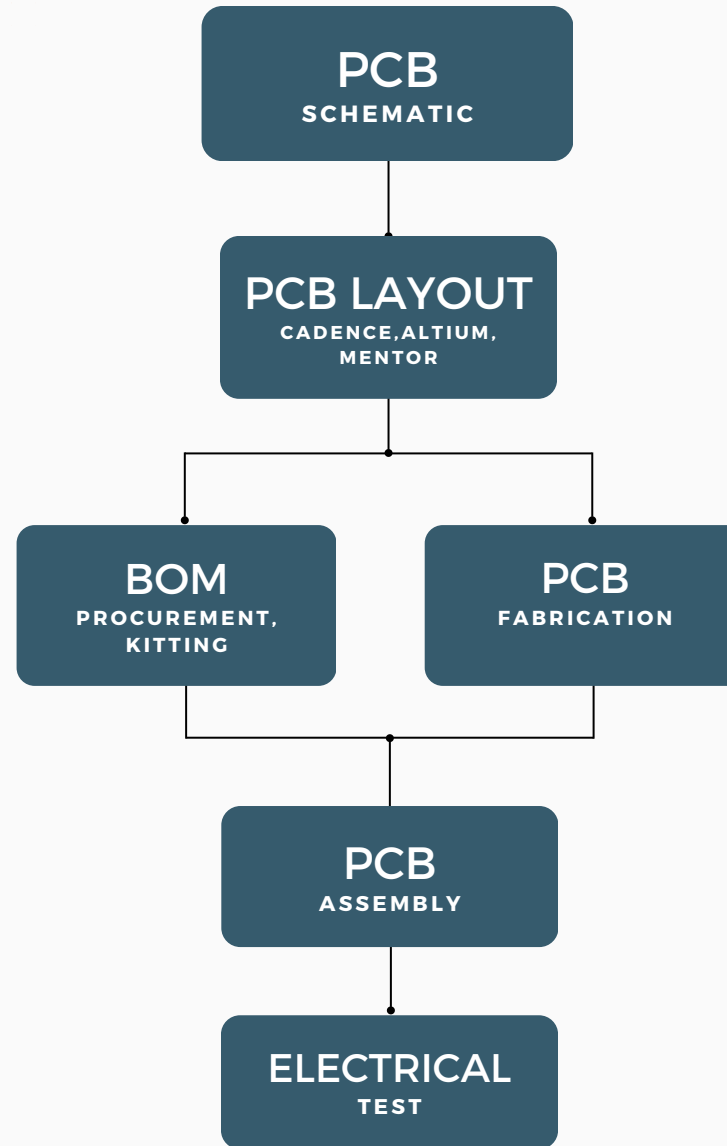- Product handler with automated test access from all sides

- Bed of nail fixtures for PCBA
- Test fixture cabling and harnessing
- Custom connectors for product docking

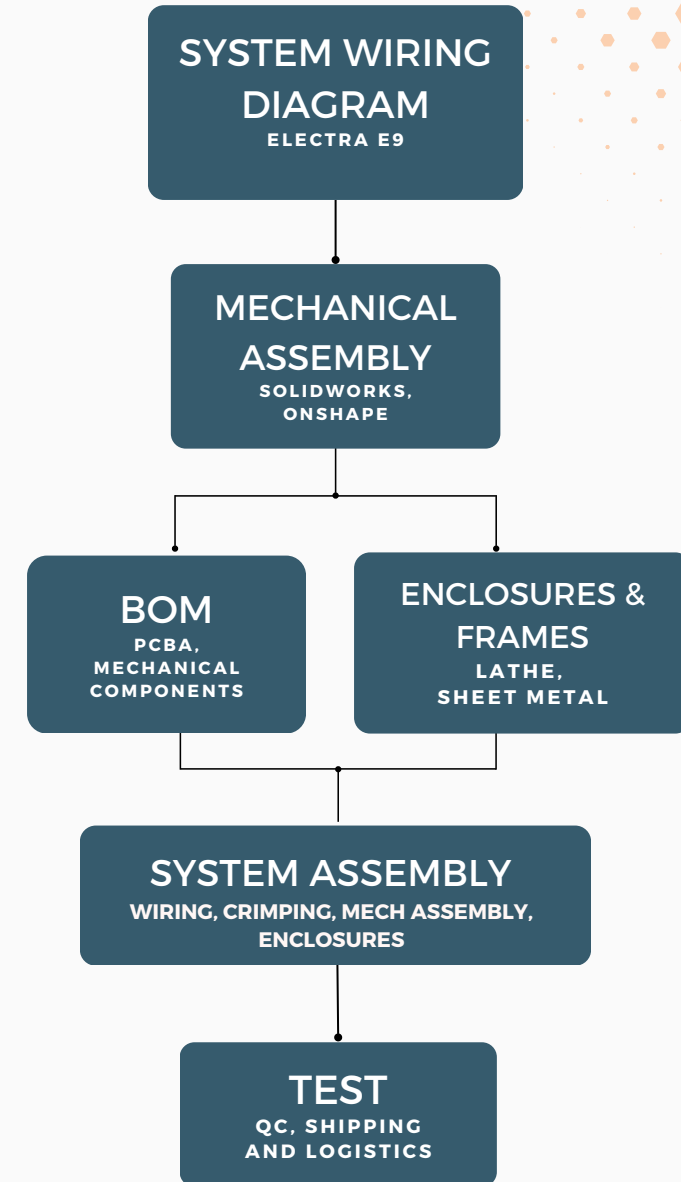# CONCEPT TO PRODUCTION OF COMPLEX FUNCTIONAL TESTERS, HANDLERS AND TEST FIXTURES

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# MECHANICAL CAPABILITIES

**DESIGN**
SOLIDWORKS, ONSHAPE, STRESS ANALYSIS, THERMAL ANALYSIS

**CAM**
MASTER CAM, FUSION 360

**CNC**
LATHE, VMC

**LASER CUTTING**
SHEET METAL, BENDING

**FINISH**
DEBURR, BUFFING, ANODIZING, PAINTING

**QUALITY CHECK**
CMM, QC TOOLS

# ELECTRICAL CAPABILITIES

**PCB**
SCHEMATIC

**PCB LAYOUT**
CADENCE, ALTIUM, MENTOR

**BOM**
PROCUREMENT, KITTING

**PCB**
FABRICATION

**PCB**
ASSEMBLY

**ELECTRICAL**
TEST

# SYSTEM ASSEMBLY

**SYSTEM WIRING DIAGRAM**
ELECTRA E9

**MECHANICAL ASSEMBLY**
SOLIDWORKS, ONSHAPE

**BOM**
PCBA, MECHANICAL COMPONENTS

**ENCLOSURES & FRAMES**
LATHE, SHEET METAL

**SYSTEM ASSEMBLY**
WIRING, CRIMPING, MECH ASSEMBLY, ENCLOSURES

**TEST**
QC, SHIPPING AND LOGISTICS

# IN HOUSE R&D AND MANUFACTURING OF ALL TESTING SOLUTION

ANORA

# WHY WORK WITH US

One stop shop for all test and testability solutions

Test planning, test hardware design, fixture design, embedded software development, manufacturing, delivery, deployment and support all under one umbrella

Strong mechanical, electronics, embedded and software expertise to customize and optimize your solutions

14+ years of experience in test and testability

Unparalleled quality and precision engineering

Worldwide presence

Experts in several electronic domains and verticals

30+ satisfied customers around the globe, 1800+ projects

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