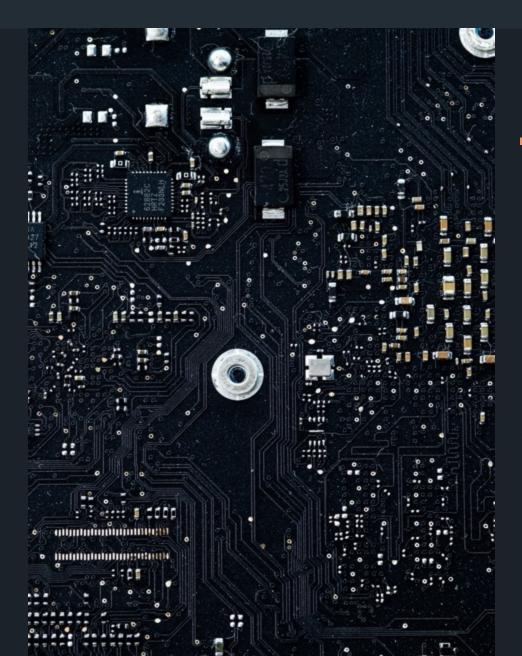


Vishesh Innovative Technologies Pvt Ltd

CORPORATE PRESENTATION

VIT Corporate Presentation 2022 / Version 3.0 / Controlled Document





Great Technologies Start With Great Processes

Welcome to VISHESH INNOVATIVE TECHNOLOGIES Pvt Ltd

VIT is ISO 9001:2015 and IATF 16949:2016 Certified by TÜV Rheinland (I) Pvt. Ltd.



About Us



ISO 9001:2015 & IATF 16949:2016 Certified by TÜV Rheinland (I) Pvt. Ltd.

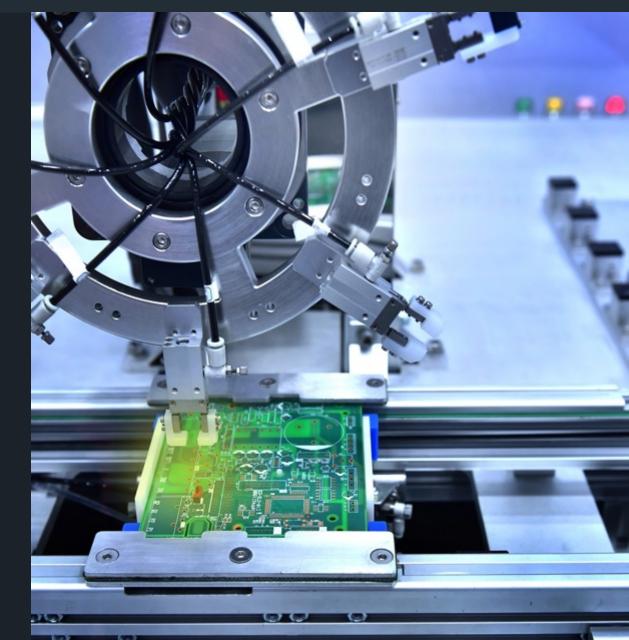
Investment in excess of ₹ 4,00,00,000

Total manufacturing solution to cover the entire bandwidth of Electronic Manufacturing Services and support services

Located in Prime Industrial Hub

Integrated ERP package for material and system handling

State of Art 25000 Sq Ft
Work area spread
across 2 floors





Our Capabilities

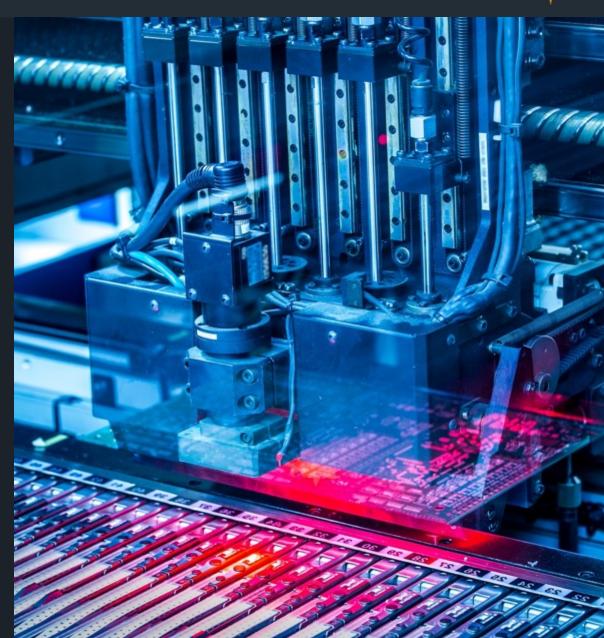
- In-house capability of SMT (Surface Mount Technology) and THT (Through Hole Technology) assembly
- PCBA (Printed Circuit Board Assembly), Full Box Build Manufacturing.
- We have combined skill sets in manufacturing, testing and parts development.
- We adopt good manufacturing practices and tools such as 5S, SPC, KAIZEN, FMEA and Six Sigma practices to deliver the quality products.
- SMD component assembly such as 0201~ 0.3mm fine pitch QFP, BGA's, LGA's, CSP's.





Our Services

- Quality incoming inspection of PCBA and testing
- Complete SMD and PTH PCB assembly
- Full Turnkey projects
- Testing and Programming as per customer requirement
- Box Build Assembly







Process Advantage

Six Sigma Process

VIT adheres to Six-Sigma process standards to manufacture quality products

Good Manufacturing Processes

VIT adopts good manufacturing practices and tools such as 5S, SPC, KAIZEN, FMEA and Six Sigma practices to deliver quality products

Regular Audits

VIT proactively practices periodic quality audits and Small Group Activities (SGA's), effectively supplemented by management review meetings

Proactive DFM Designs

VIT gives DFM guidelines to Customer upfront to improve design constrains and reduce manufacturing lead time



Our Focus Industries



Defence & Aerospace



Power infrastructure (Energy meters, Power drivers)



Wifi Modules and IoT modules



Industrial Automotive (Clusters)



Lighting Industry



• 25000 Sq.Ft. facility in a convenient location for ease of access to the customers

- Production floor with complete ESD flooring
- Highly advanced two automatic Siemens SMT Lines of 170k
 (1.7 Lacs) CPH
- Standalone Third line with 30k CPH
- 125 HP Power
- 30 KVA UPS Power Backup
- 2 Compressors with 70 CFM for 2 SMT Lines

- 125 kVA Diesel Generator Kirloskar make [Automatic]
- High Capability Lead free Electrovert Omniflo 7 Reflow
 Oven
- EMS Wave soldering machine having capability of producing 6000 boards (100mm length) per day
- Highly skilled employees
- Internal training facility by IPC certified trainer for employees on soldering skills and QC standards







DEK 265LT

- Screen Frames: (29" X29")
- Print image justification: Front, centre
- Print area: 510 X 489 mm (20 x 19.25 in.)
- Print stroke: 56 566 mm (2.2 22.3 in)
- Board handling:
 - Minimum size: 70 x 38 +/- 0.5mm (2.8 x 1.5 +/- 0.02 in.)
 - Maximum size: 510 x 508 +/- 0.5mm (20.1 x 20 +/- 0.02 in.)
- Thickness: 0.4 6.4 mm (0.016 -0.25 in) +/- 10%
- Fiducial size: 0.5 3.5mm (0.02 0.14 in)
- Alignment repeatability: 6 Sigma at 25 microns
- Print accuracy: 3 Sigma at 25 microns.
- New product setup: 10 minutes
- Temperature control unit: 10- 35 Degree centigrade





PCB LOADER LSB 03 ASYS

- The stack is processed from above which ensures gentle separation of the PCBs.
- The machine can be equipped with various methods of separation depending on the type of PCB used.
- Colour display with graphical user
- interface Product parameters can be changed during running operation
- Product memory function
- Separation with either a clamp or vacuum mechanism
 Processing of stack from above PCB alignment before separation
- No PCB length or thickness data required
- Electrical width adjust 2 colour signal lamp (LED) and alarm horn
- Small footprint





SOLDER PASTE PRINTER INF 01 DEK

- Basic Solder Paste Inspection Features: Green Camera,
 Temperature and humidity sensor, 580mm x 508mm
 long board handling, Squeegee pressure feedback
- Board Clamp Regulator, Standard magnetic pin tooling, Tooling Deviation Monitor enabled,
- Small 0.1mm Fiducial, Blue Under Stencil Cleaner
 W/D/V
- Specifications:
 - PCB Size: 50 mm to 508 mm
 - ASM: Adjustable Stencil Mount With Additional Adaptor
 - This is a Single / Dual Track Conveyor





CHIP SHOOTER SIPLACE HS60 - SIEMENS

- Head type: RV12 heads
- Number of gantries: 4Component range: 0.6 x 0.3 mm (0201) to 18.7 x 18.7 mm
- Dimensions machinery handles: 50 x 50mm to 368 x 460 mm
- Feeding capacity: 144 tracks, 8mm tape
- Component table details: Quick changeover table with integrated wheels, reel holders and scrap bin
- Feeder module type: Tapes, Bulk cases, surf tape feeders
- Specifications: Very high speed with both, accuracy and flexibility
- Equipped with 4 X-Y-main gantries; each gantry features a star-shaped 12-Nozzle Collect & Place Head
- Placement rate of 60,000 cph





CHIP SHOOTER SIPLACE HF/3 - SIEMENS

- Higher placement rate and greater flexibility when configuring the placement heads
- Linear drives on every gantry Gantry extensions
 constructed from carbon fiber composite, 5 times
 lighter than steel and twice as rigid → increased speed
 and accuracy
- Short down times for refill-ing or splicing
- Even the smallest components (e.g. 0201) are picked up reliably
- Minimal traversing paths
- PCB thickness: 0.3 4.5 mm Component feeding: 4
 component changeover tables with tape roll holders
 and integral waste containers 15 slots, 30 mm wide per
 changeover table or matrix tray changer, rather than a
 CO changeover





IC PLACER SIPLACE HF/3 WITH MTC 2- SIEMENS

- Linear motor positioning(x, y, z) for high placement
- 180 feeder inputs to shorten changeover time
- Advanced component vision camera
- Proven revolver head places





REFLOW OVEN Speedline Omni excel 7 ELECTROVERT

- 10 heated zones & 3 cooling zones
- Pressurized auto chain oilers
- SMEMA
- Left to Right
- Edge with center rail support
- Air Cooled, no chiller required





ULTRA SONIC WELDING MACHINE HPW2AN - JOHNSON PLASTOSONIC

• Frequency: 20 KHz

• Power Source: Electric

• Phase: Single Phase

• Voltage: 230 V AC

• Speed: 2800 RPM

• Ultrasonic Power: 1500 W

• Automation Grade: Automatic

• Model Number: UPWM-2015

• Timer Least Count: 0.01 Sec





SIPLACE 80S20 MACHINE

- Placement Rate: Max. 20,000 components per hour
- Placement Accuracy: +/- 90 μm, 4 Sigma ,+/- 67.5 μm, 3 Sigma
- Component Vision System: For component recognition
- PCB Vision System: For PCB and bad board marking
- Range of Components: 0.6 x 0.3 mm (0201) to 18 x 18
 mm PLCC 44, incl. DRAM, BGA,CSP
- Component Height: Max. 6 mm
- Component Feeder Capacity: 80 tracks 8 mm tapes
- Feeder Capacity: Tape feeders (8 mm 32 mm)
- Feeder type: Tray, Reel feeders
- PCB Transport: PCB Size from 50 mm x 50 mm to 460 mm x 460 mm
- PCB Changeover Time: 2.5 sec





SIPLACE F4 MACHINE

- Placement Rate: Max. 8000 components per hour
- Placement Accuracy: +/- 52.5 μ m, 4 Sigma ,+/- 70 μ m, 3 Sigma
- Component Vision System: For component recognition
- PCB Vision System: For PCB and bad board marking.
- Range of Components: 0.6 x 0.3 mm to 32 x 32 mm2
- Component Height: Max. 12 mm
- Component Feeder Capacity: 80 tracks, 8 mm tapes
- Feeder Capacity: Tape feeders (8 mm 44 mm)
- Feeder type: Reel, Tray, Vibratory feeders
- PCB Transport: PCB Size from 50 mm x 50 mm to 460 mm x 460 mm
- PCB Changeover Time: 2.5 sec





OMNIFLOW 7 REFLOW MACHINE

- PCB Size: 60mm 510 mm
- Inlet height: 905mm +/- 10
- Number of zones: 7 heating zones + 2 Cooling zone (Lead free compatible.)
- Nitrogen option: N2 option available
- Cooling system: Chiller unit
- Component Height: Max. 12 mm
- Support: Mesh and Chain
- Pass through height (Top/bottom): 30/30mm
- Maximum load: 3 Kg

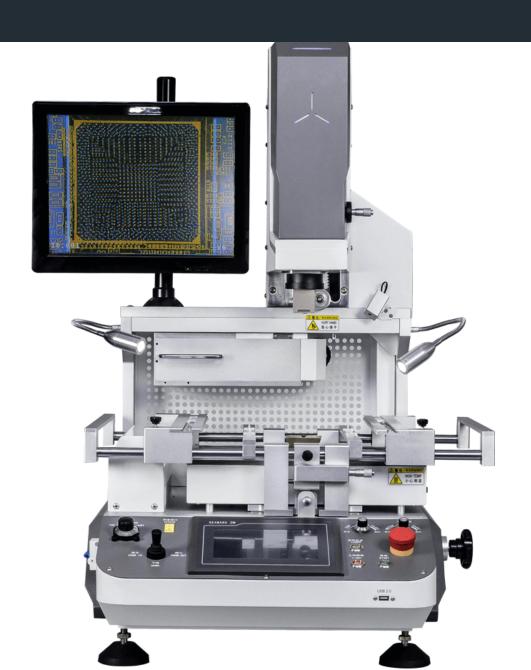




HANEOL HV-5000 TC

- Inspection Range: Chip, flexible components placement and post re-flow soldering inspector (Table type; Desktop type)
- Programming
 - Auto teaching with CAD, Pick and Place Machine Data
 - Inspect COF (Chip on Film), 0603 chip, 0.3 mm fine pitch IC soldering state
 - SPC (Statistical Process Control) data support can ensure efficient process management.





BGA REWORK MACHINE

• Make: Seamark ZM

• Model: ZM-R7220A

• PCB size: Min 6×6 mm , Max 415×370 mm

Heaters: Top hot-air heater, Bottom hot-air heater,
 Bottom IR heater

• Temperature: Top heater and Bottom heater max 350 degree

• Component size: Max 60×60mm Min 2×2 mm

• Cooling system: Fan unit

• Others: Both side camera (Bottom & Top)





EMS WAVE SOLDERING

- PCB Size: Min 50 X 50mm & Max 300 X 410 mm
- Number of zones: 2 heating zones (1 IR Heater & 1
 Hot Air Both PID Controlled (Leaded compatible.)
- Flux unit: Foam fluxer, bath capacity 5 Liters(1.1gal) Required external compressed air.
- Soldering Pot: Soldering Pot capacity 170kg(370lb)
 Roll out solder pot, O-wave option for SMT soldering
- .Conveyor: Pallet(carrier) type conveyor





AIR COMPRESSOR

- Make: Chicago Pneumatic CPA 20D
- Compressor Type: Rotary Screw
- Maximum working pressure in Bar: 7 bar
- Functionality: Direct Drive Screw Air Compressor
- CFM: 71Noise Level: 68 dB
- Other Features: The motor that is used in this model has a power of 20 H.P. and this show how effective and powerful is the equipment, it provides a stable and compressed source of air, An automatic drain, An Inline filter





DIESEL GENERATOR

• Machine: Kirloskar KG1-125W

• Fuel Type: Diesel

• Phase: Three Phase(415V)

• Power Rating Range: 125KVA

• Fuel Tank Capacity Range: 200 Litres

• Noise Level: < 75 dBA

• Cooling System: Air Cooled and Water Cooled

• Battery Capacity: 115 Ah

 Other Features: Load dependent start stop, auto synchronization, remote monitoring and control are some of the other features of this set. The engine has 4 cylinders and offers 152 BHP, High Reliability, High Durability





UPS

- Make: Hykon GETT 30000
- Capacity: Power 30 KVA
- Output Voltage: 380 / 400 / 415 VAC; 3 Phase, N
- Battery Test: Automatic and manual battery test system
- Battery Charge Time: 8 hours to 90% capacity after deep discharge
- LED Display: Load on Bypass, Load on UPS, Alarms and operation by battery leds.
- Alarms: Battery Low, Over Load Noise Level< 60 to 62 dB (1 Meter)
- Cooling: Fan
- Other Features: Battery low alarm occurs on the LCD.
 Sound alarm is given after 15 second



Why Choose Us?

Cost effective solutions

DFM guidelines for effective manufacturing

Absolute adherence to delivery timelines

Qualified and experienced engineering staff monitoring product quality

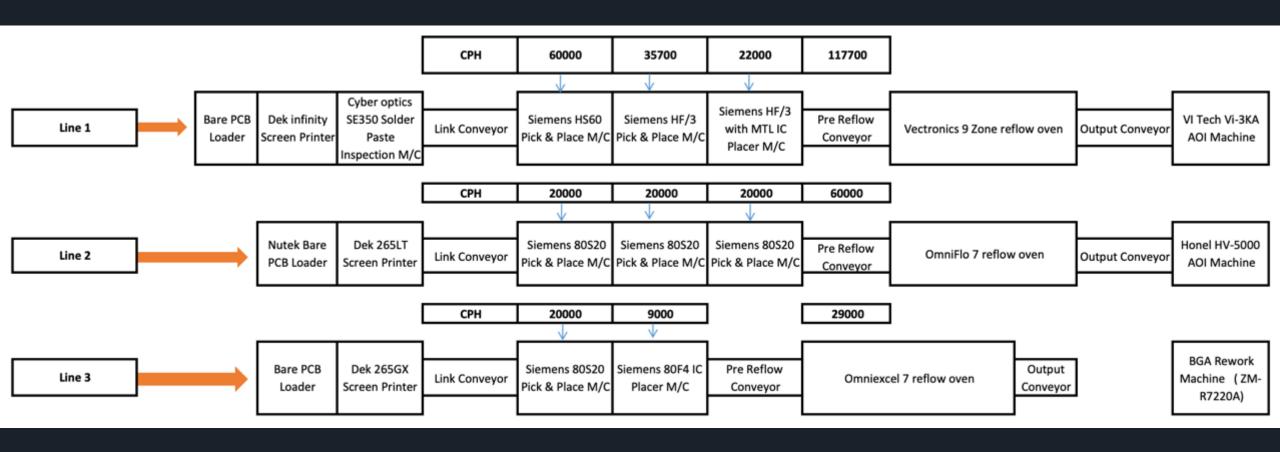
Quick manufacturing turn around time

High first pass yield



SMT Line Configuration & CPH Details

Total Line Capacity in CPH 206700





Our Certifications

Certificate

Standard

ISO 9001:2015

Certificate Registr. No. 01 100 2036301

Certificate Holder:

Vishesh Innovative Technologies

555, 3rd Cross, Govinda Reddy Layout, Near Arekere Mico Layout Bannergatta Road Bangalore 560076

India

Scope:

Assembly of Printed Circuit Boards

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity:

The certificate is valid from 2020-10-22 until 2023-10-21. First certification 2020

2020-10-22

Dunya

TÜV Rheinland Cert GmbH Am Grauen Stein - 51105 Köln

www.tuv.com





Certificate

Standard

IATF 16949:2016

Certificate Registr. No. IATF Certificate No.

01 111 2036301 0366777

Certificate Holder:

Vishesh Innovative Technologies # 555, 3rd Cross, Govinda Reddy Layout, Near Arekere Mico Layout, Bannerghatta Road,

Bangalore - 560076, India

Scope:

Assembly of Printed Circuit Boards

Excluding Product Design

Proof has been furnished by means of an audit that the requirements of IATF 16949:2016 are met.

Validity:

The certificate is valid from 2020-03-27 until 2023-03-26.

Release date:

2020-03-27

TÜV Rheinland Cert GmbH Am Grauen Stein - 51105 Koln Germany - NRW



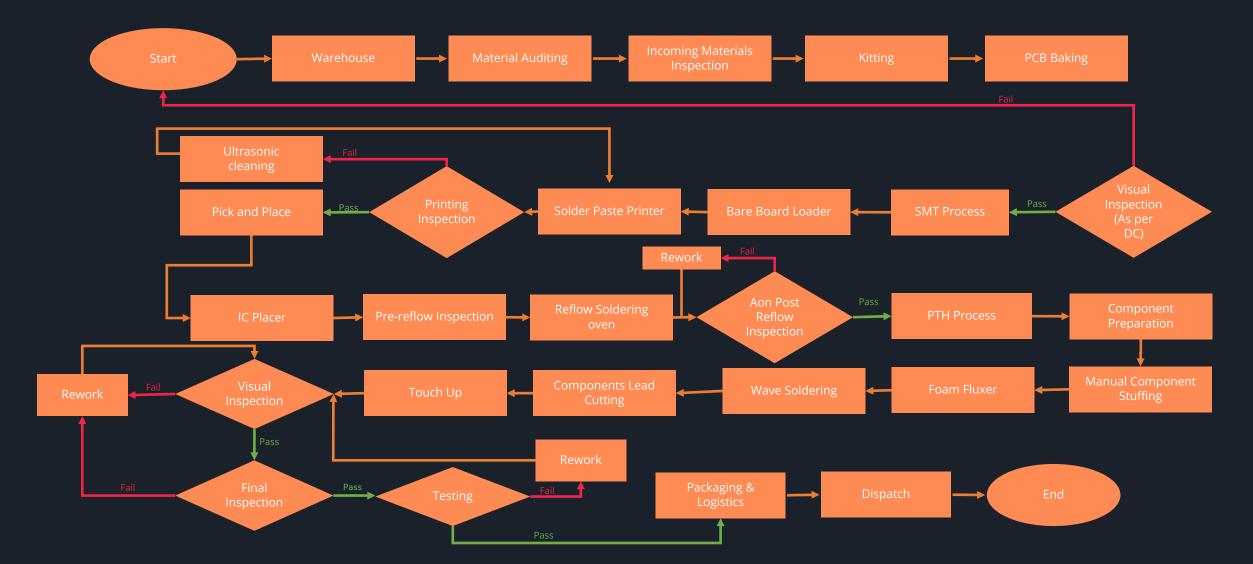
2-IAO-QMC 01003

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Our Process





Our Clients

Customer Name	Application
Melange Systems Pvt. Ltd.	
(Napino Auto & Electronics Ltd) (L&T Technology Services)	IT, Energy Meter, Telecom and IOT
eNarka India Pvt. Ltd.	Power Energy & Industrial Automation
ZIV Automation India Pvt. Ltd.	Power Energy & Industrial Automation
Invendis Technologies India Pvt. Ltd.	IOT, Energy Meters, Sensors & Solar
ConnectM Technology Solutions Pvt. Ltd.	Industrial Automation and IOT and EV
RaceDynamics Pvt. Ltd.	Automotive
EmbTech Innova Pvt. Ltd.	IOT, EV
Emsys Technology Pvt. Ltd.	Defence & Aerospace
IndArka Energy Pvt. Ltd.	Power Energy & Industrial Automation
Hemaadri Elex Systems Pvt. Ltd.	Railways
Vishista Technologies Pvt. Ltd.	Automotive









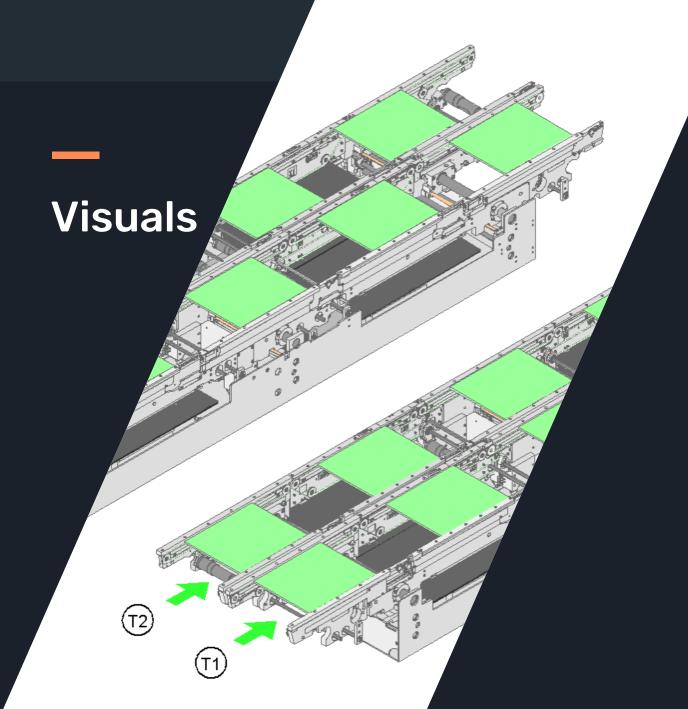








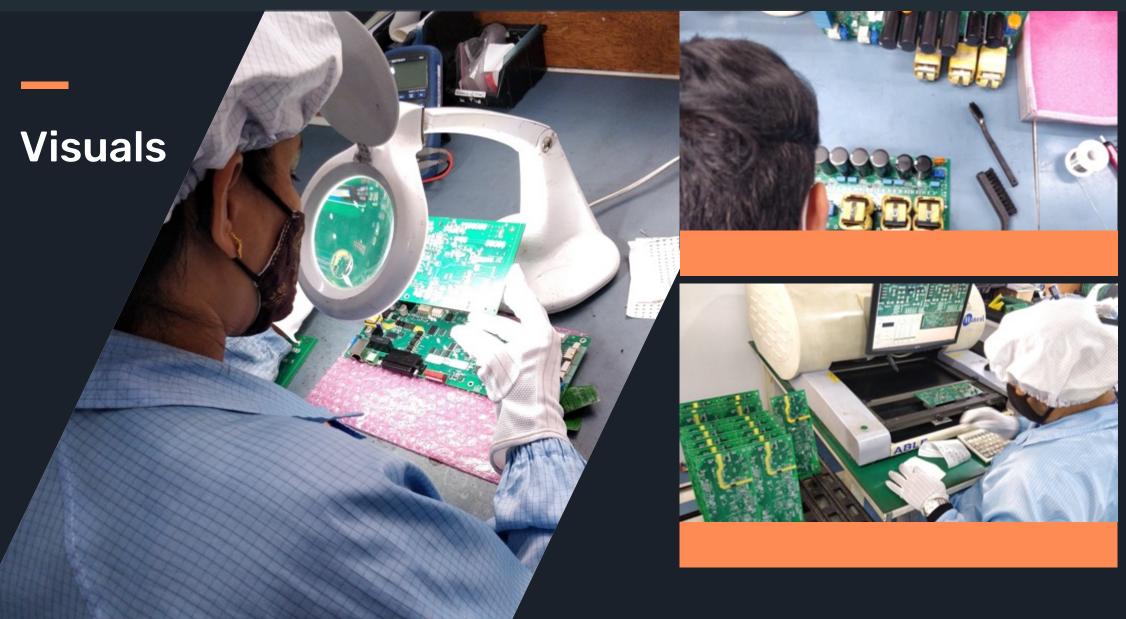














Contact us

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