



Sienna Group

LOCAL SOLUTIONS . GLOBAL REACH

SIENNA GROUP

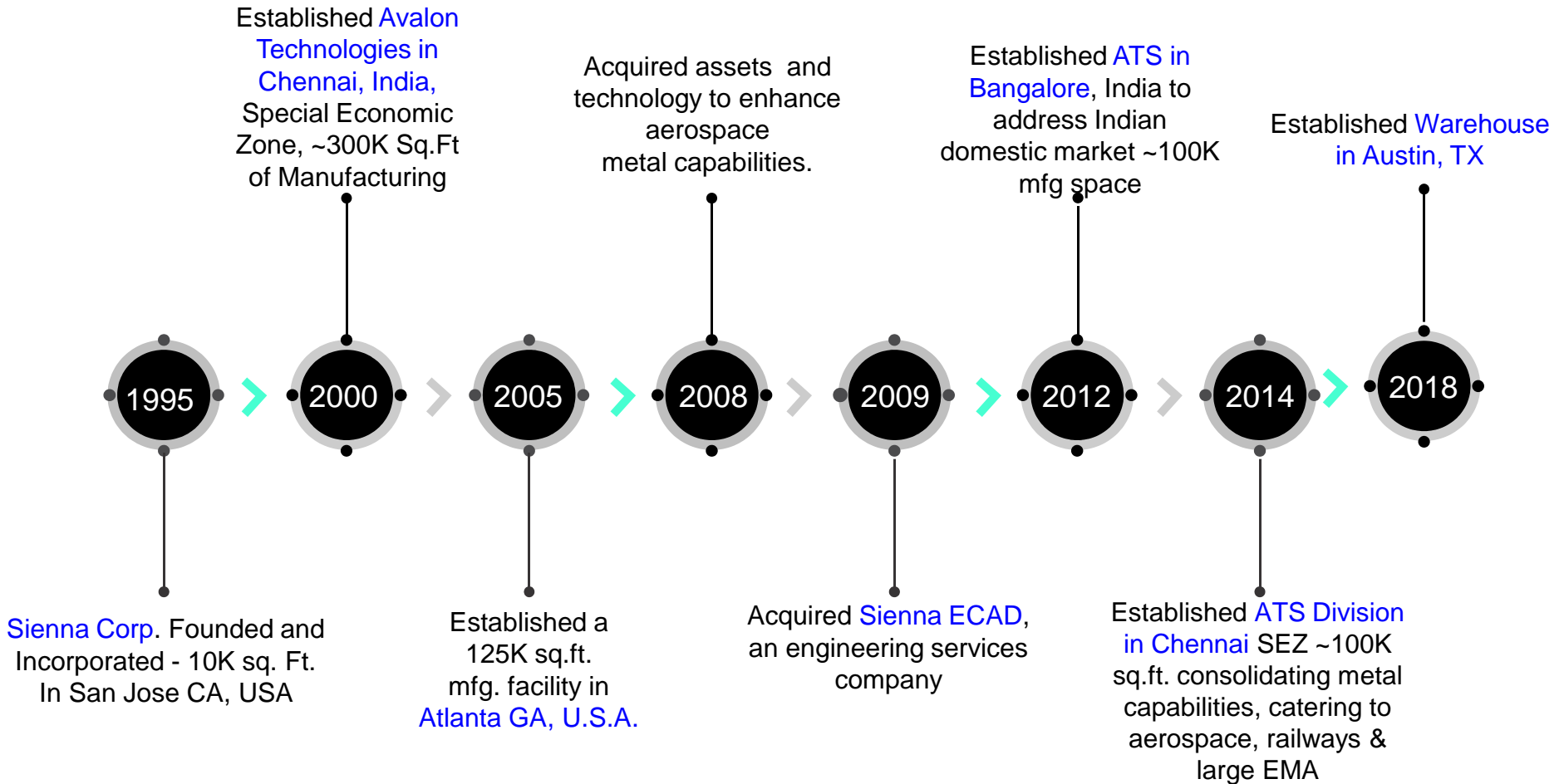


Corporate Overview

- Founded in 1995.
- Controlled and sustained growth through organic sales.
- US Ops in Atlanta, GA and Fremont, CA totaling 150,000 sq. ft. of Mfg space.
- Additional Warehouse and Distribution in Austin, TX.
- 2 sites in India with ~ 500,000 sq. ft of manufacturing space.
- Over 1500 employees worldwide.
- Servicing the industrial, medical, telecommunications, transportation, defense and aerospace markets.
- Highly flexible Mfg model – Made in USA, Made in India and Hybrid.
- Highly focused on a strong base of 30+ core customers.
- Vertically integrated Mfg model with in-house PCBAs, Cables, metal fabrication and machining, plastic injection molding, magnetics, box build, system integration and test capabilities.
- Focus on strategic customer fit in our targeted markets.
- Focus on quality, superior customer service, and flexibility.
- Stocking in USA for Just In Time delivery. End to End product life cycle support.
- World class SAP ERP, integrates Sienna group companies.



World-class EMS – Vertically Integrated manufacturing, test capabilities



History – 20+ Years of Growth & Stability Across the Globe



Atlanta, GA

- 140,000 Sq Ft
- 3 SMT Lines
- Selective soldering
- Thru Hole & Splicing
- Sub-Assemblies
- Box Build
- Fulfillment Services
- ICT, FPT, FCT, AOI, X-Ray
- RoHS – lead free lines
- Leaded Lines
- RF assembly / test
- PCBA thru Systems Level Test
- Conformal Coating
- Temperature Cycling



Fremont, CA

- 10,000 Sq Ft
- Box Build-BTO/CTO
- Fulfillment Services
- System level testing



India

- 500,000 Sq Ft
- 6 SMT Lines
- Selective soldering
- Thru Hole, POP
- Sub-Assemblies
- Box Build
- Fulfillment Services
- ICT, FPT, FCT, AOI, X-Ray
- RoHS & Leaded lines
- Conformal Coat & Potting
- Magnetics, Metal, Plastics & Cable Assembly
- Chassis Build
- Ruggedization
- Temperature Cycling

ELECTRONIC MANUFACTURING SERVICES



PCB Assembly



System Integration – Box Builds & Electro-mechanical



Cable Assembly & Wire Harness

Vertically Integrated Manufacturing Supporting Box Builds



Plastics



High-Current Magnetics



Metal Machining



Sheet Metal Fabrication

Vertically Integrated Manufacturing Capability

PCB Layout Design and Proto Build

Complex Layout

- Fine pitch BGA upto 0.37mm, 2mil/2mil technology.
- Layers up to 72.
- Components more than 10000, Connections more than 97000.
- Stringent Thermal, Mechanical and Electrical requirements.
- Flexi rigid designs, Embedded passives, Composite stackups.

Simulation & Analysis

- Signal Integrity upto 100 GBPS differential.
- EMI Analysis.
- Power Integrity Analysis.
- Thermal & Reliability Analysis.

Library

- Validated Library of > 30,000 PCB and Valor Parts.
- 4 stage validation process for each part.

DFX-Valor

- Fabrication checks – 275.
- Assembly and other checks – 420.

Prototype Build

- Use dedicated Avalon PCB assembly Line.

>10,000 layouts Gerbered

ISO Certified

Robust IT Setup for Data Security

Multi Tool Expertise

>99% First time Right Designs

150 Engineers at 3 Indian Locations

Onsite Support 18x6 support

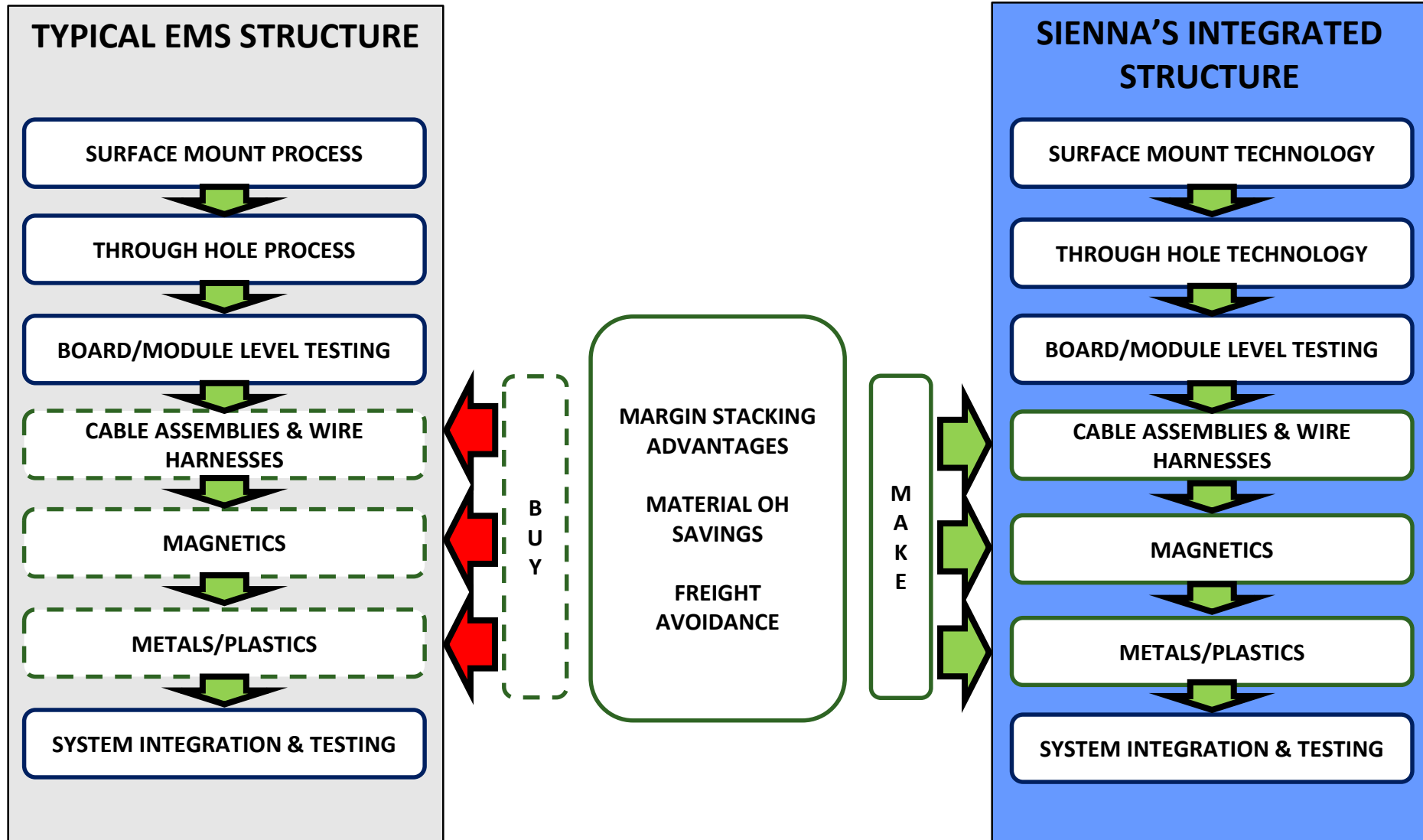
Expedite delivery options



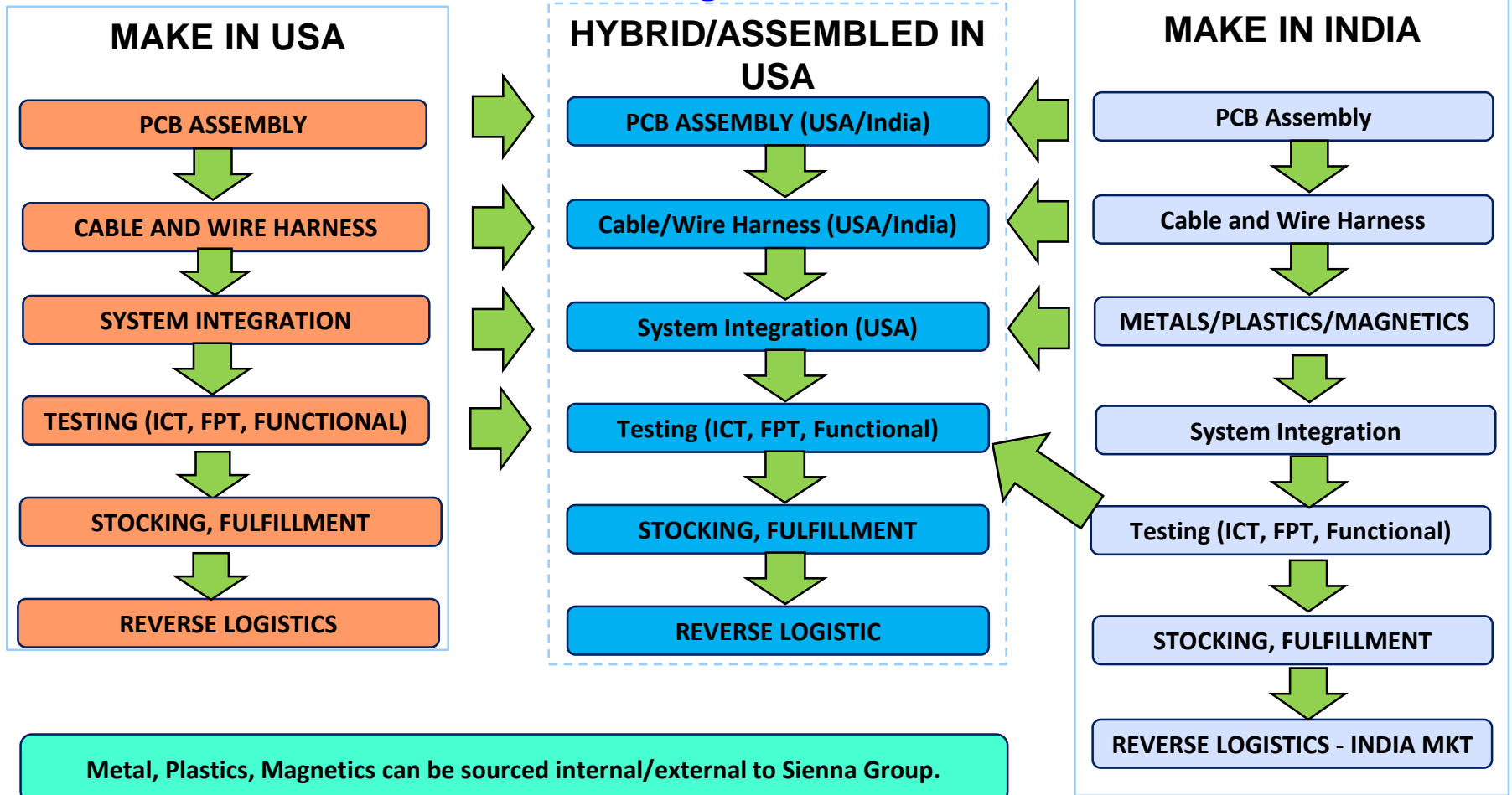
Add-on Services and Offerings

- ❖ Design for Mfg (DFM)
- ❖ Design for Test (DFT)
- ❖ BOM Scrubbing
- ❖ Test development
- ❖ ICT Fixturing
- ❖ Sustaining Engineering
- ❖ Certification Assistance
- ❖ Powder Coating
- ❖ Wet Paint
- ❖ Silk Screen
- ❖ Tools, Jigs and Fixtures
- ❖ Ultrasonic Welding
- ❖ RF Testing
- ❖ Robotic Gluing

Sienna Advantage : Vertically Integrated Manufacturing



Sienna Advantage: 3 Business Models



FOR:

- ▶ Make in the USA
- ▶ Americas and Europe

FOR:

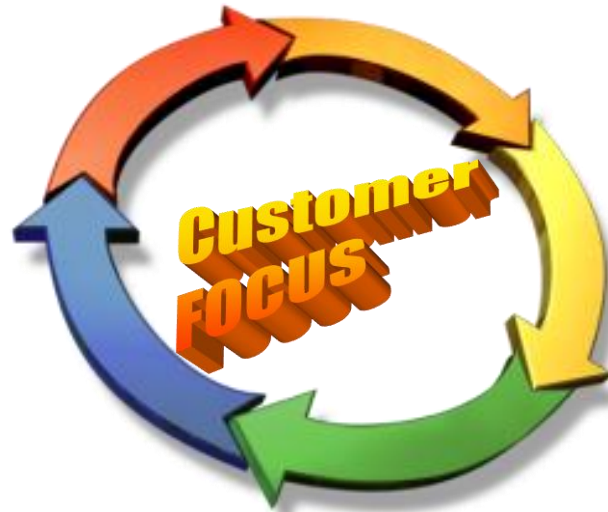
- ▶ Make/Assembled in USA
- ▶ Americas and Europe

FOR:

- ▶ Make in India
- ▶ Americas, Europe and ROW

Program Management

- ❖ Single point contact
- ❖ Customer Focus Team Leader
- ❖ Communications flow
- ❖ Customer Advocate
- ❖ Build Schedules
- ❖ Weekly meetings



Customer Focus Team

- ❖ Senior Program Manager
- ❖ Material Planner / Buyer
- ❖ Document Control
- ❖ Manufacturing/Test Engineer
- ❖ Production Manager
- ❖ Quality Team member

Business Reviews

- ❖ Quarterly meetings
- ❖ Formal agenda
- ❖ Metrics review
- ❖ Materials review
- ❖ Joint cost reductions
- ❖ Value Engineering
- ❖ Growth opportunities
- ❖ Business status
- ❖ Open action review
- ❖ Joint goal setting

SIENNA'S TARGET SEGMENTS & GLOBAL CUSTOMERS

COMMUNICATION	POWER	INDUSTRIAL		AEROSPACE	RAILWAYS	DEFENSE
						
						
						
						
						

Conducting Business With Leaders in Target Segment

Warehousing, Distribution, JIT & Reverse Logistics



Sienna ships globally from multiple warehouses in United States and India

CERTIFIED QUALITY SYSTEMS

U.S.A.



ISO 9001:2015



ISO 13485:2016

INDIA



IATF 16949



ISO 9001:2015



AS9100
Metal and Cable

Robust Quality Certifications Ensuring Controlled Processes
and High-Quality results



Test and Inspection Capabilities



Flying Probe



**Automated Optical
Inspection**



X – Ray



In – Circuit Test

Cable Assembly Facility





Metal Facility



Plastics Facility



Rack / System Integration, Test - Power, Railways



Box Build - Industrial, Communication, Medical



Kiosk, ATM



Chassis



Pumps, Bedding



Cabin Box



Renewable Energy



Instrumentation



Outdoor Units



Signaling



Display Units



Medical-Fluidics



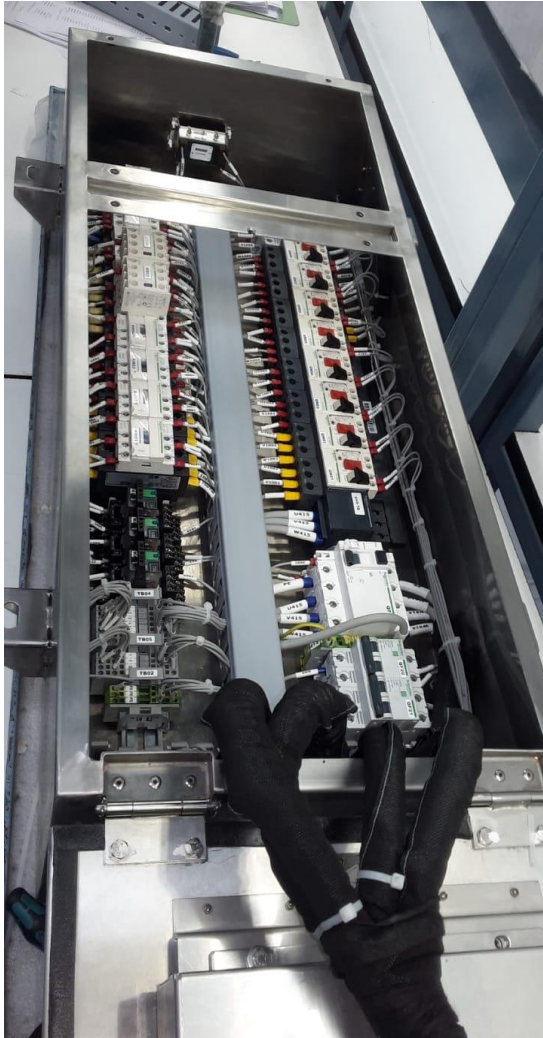
Communication



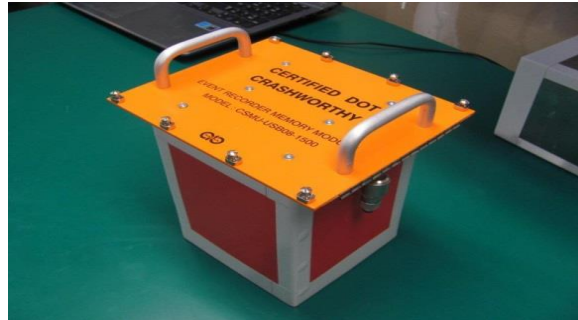
Networking

TRANSPORTATION - RAILWAYS

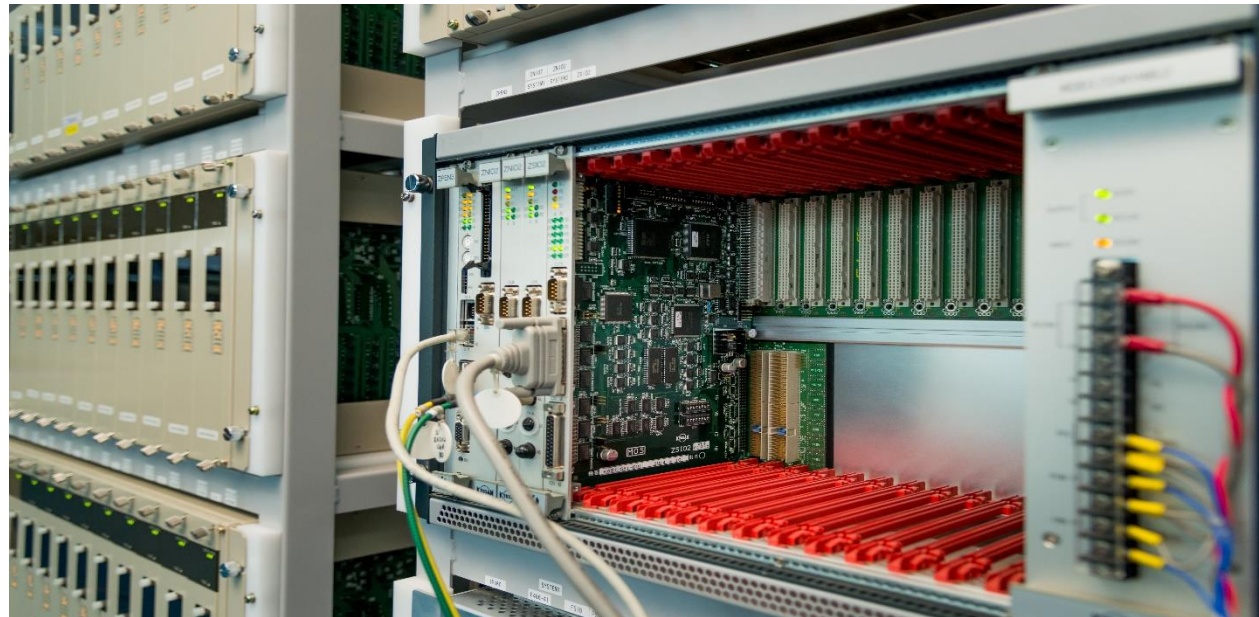
HVAC System



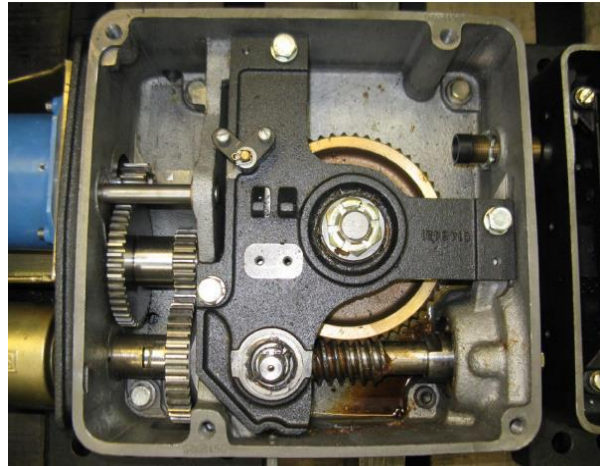
Black Box Recording System



Signaling System



TRANSPORTATION - RAILWAYS



PCB Assemblies (SMT,THT,BGA,POP)



CABLE AND WIRE ASSEMBLIES



Potting



RF Cables



Over-Molded Cables



Automotive Cable Assembly

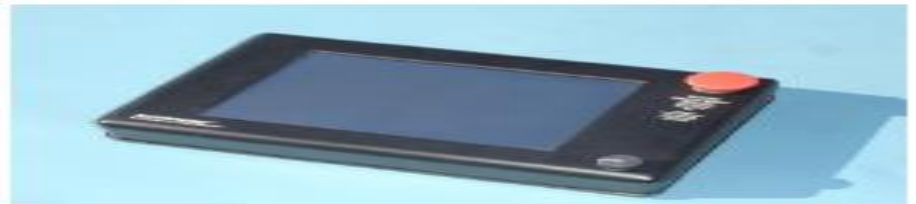
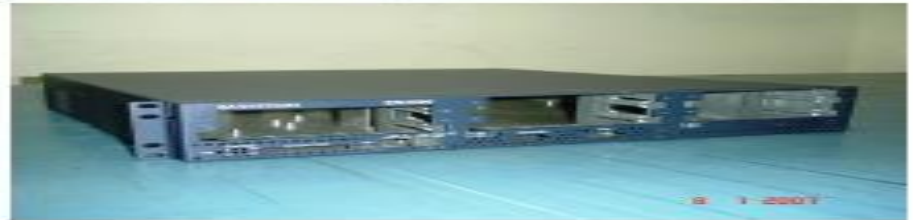
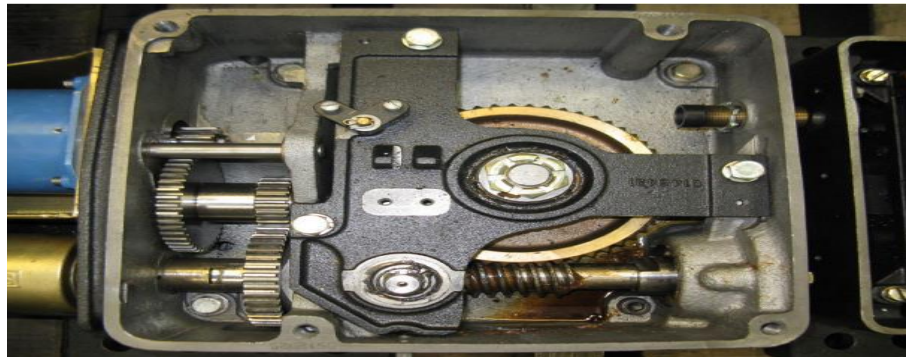
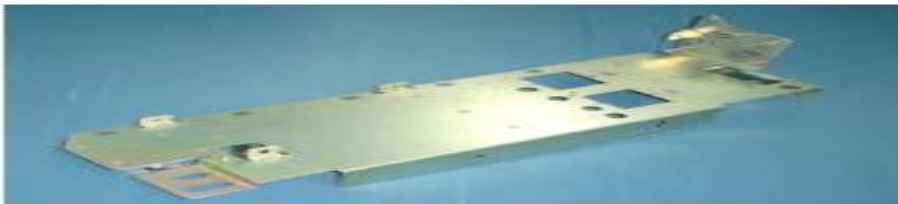


Dinrail Cable Assembly



Wire Harness with PCBA

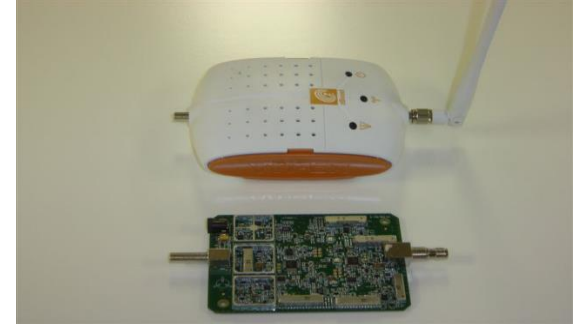
METALS (SHEET METAL, MACHINED PARTS)



METALS - AEROSPACE VERTICAL



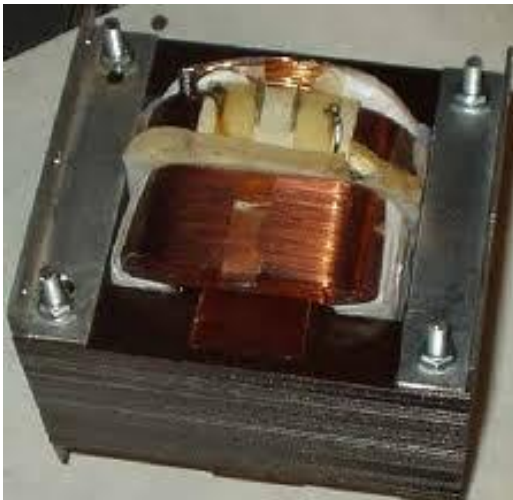
INJECTION MOLDED PLASTICS – SUPPORTING BOX BUILDS



AEROSPACE PLASTICS



HIGH CURRENT MAGNETICS



Sienna Corporation – Summary

Make in USA, Make in India, Hybrid/Assembled in USA

- PCBA, Box Builds and Cable Assembly offerings
- Vertical model for box builds supporting cables, plastic injection molding, metal fabrication, metal machining and magnetics.
- Inhouse PCB Layout design and NPI Launch
- Program Management in USA and India
- Global Supply Chain Management
- Stocking, Distribution and JIT Delivery
- Proto, Pilot, Production in USA and India – One Stop Solution



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THANK YOU...