



Corporate Overview

Best In Class | Flexible | Customer Focused

Corporate Presentation

2024

Fastest Growing EMS Company: World Class – Flexible – Customer Focused

Our Purpose

We believe we enhance people's lives and our world every day.

Our Mission

We collaborate with our partners to develop high quality, innovative solutions that create value and make our communities a better place.



EXECUTIVE HIGHLIGHTS

Best In Class

- **Winning significant new business** with customers over \$100M+ in new awards and bookings for 2024
- **Forecasted Run Rate of over \$750M of annualized with revenue** with Customer demand over \$150M-\$160M limited component constraints
- **Delivering on best-in-class financial metrics** across our Tier II and half EMS peers to deliver premium value at a 25% growth in revenue Y/Y and 32% growth in EBITDA Y/Y
- **All factories remain open supporting customers** as we continue managed COVID-19; supply chain constraints; and logistics challenges while also **integrating Customer factories and people into SMTC**
- **Transitions from Public (NASDAQ: SMTX) to Private (H.I.G. Capital)** in April 2021 to enable plans for continued acquisition, growth, and flexibility for our customers.
 - H.I.G. is a \$48B+ Global P.E. firm | SMTC = EMS Platform | Growth-Acquisition model
 - Equity infusion of ~\$140m | 5-Year Term Loan + Revolver

<https://www.smtc.com/news-media/press-releases/detail/229/smtc-corporation-announces-completion-of-investment-by>

- ✓ **Focusing on the most attractive megatrend end markets and market leaders** in those markets including electrification, infrastructure, semiconductor, defense & aerospace, medical, instrumentation & measurement; IoT; and 5G
- ✓ **Gaining market share by deepening existing customer relationships** and being selective on customer cultural fit
- ✓ **Experienced & Values-Based Management team** managing through challenging market conditions
- ✓ **Supply chain leadership, continuity, and creating alternatives** through strategic relationships and industry knowledge, that provides SMTC with an unfair share of parts for our customers
- ✓ **Factory Expansion opportunistic M&A** or New Manufacturing locations targeted in Mexico or where Customers have need.
- ✓ **2021-22 Full Year & Guidance**
 - Revenue 2021: \$438M+ 13% Y/Y
 - Revenue 2022: \$536M+ 22% Y/Y
 - Forecasted Revenue 2023: ~\$750M+ 30% Y/Y
 - Adj. EBITDA 2021: \$33M+
 - Adj. EBITDA 2022: \$40M+ 32% Y/Y
 - Forecasted Adj. EBITDA 2023: \$64M+ 37.5% Y/Y

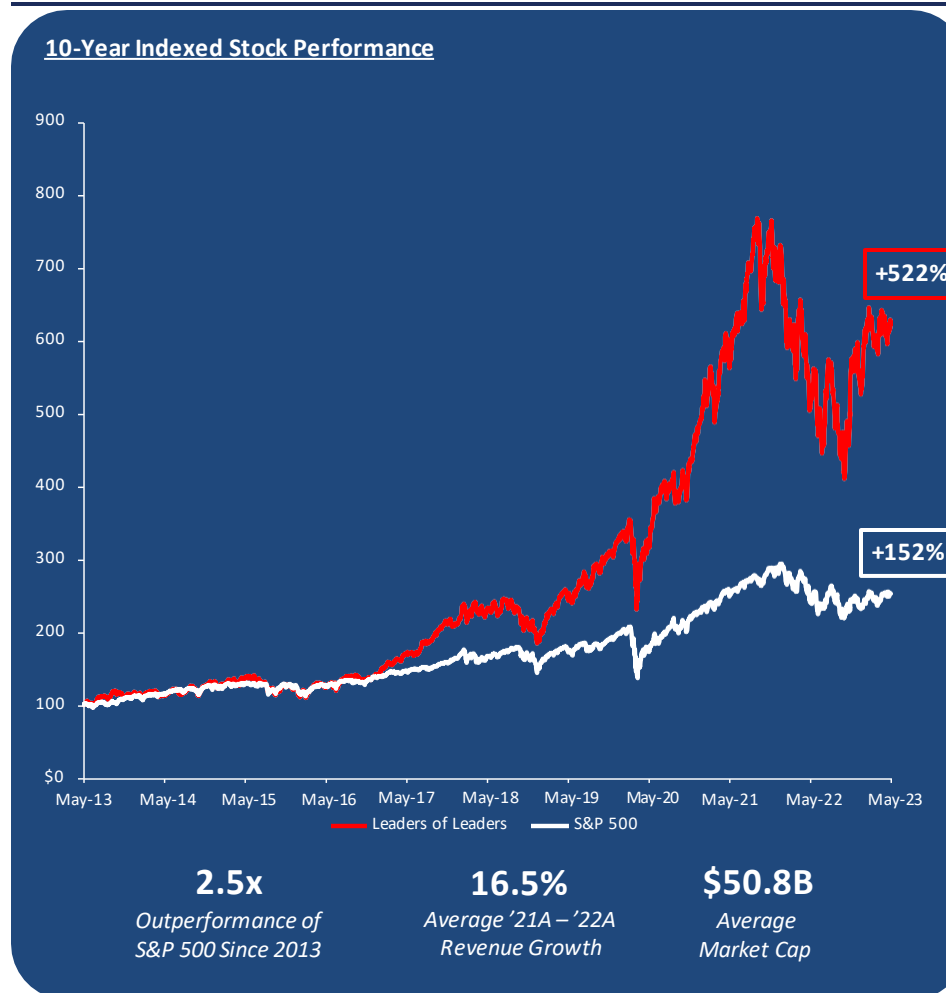
Partnering with Customers That Are Industry “Leaders-of-Leaders” ...



Deep-Rooted Relationships with Blue-Chip Leaders-of- Leaders...

Customer	Industry
World's Largest Network of Electric Vehicle (EV) Charging Stations	Electrification
Leading Maker of Diagnostic Test Equipment for Electric Power Industry	Electrification
Leading Maker of Smart Data Center Power Distribution	Data Center
Leading Maker of Smart Water Meters	IoT
Leading Industrial Conglomerate	5G / Aerospace & Defense
#1 Maker of Lithography Equipment	Semiconductor
Leading Maker of Smart Water Meters	IoT
Leading Maker of Semiconductor Emulation Equipment	Semiconductor
Top 10 Defense Contractor	Aerospace & Defense
Leading Defense Contractor	Aerospace & Defense























...With a Demonstrated, Long History of Outperformance⁽¹⁾



1) Statistics based on publicly traded top customers. Based on FactSet market data as of May 12, 2023.

Business Model Compared



		Large Global Providers (Tier 1)	Small Regional Providers
Engineering and NPI			
Comprehensive Suite of Manufacturing and Supply Chain Solutions			
Proximity to Customer Base			
Ability to Address Tier 1 Customers' Volume and Customization Needs			
Flexibility			
Growth Momentum			
Financial Stability			



Highly technical, high-value solutions for stable markets with long product lifecycles



100% North American footprint with ability to offer scaled production in Mexico



Geography provides resiliency against geopolitical tensions, freight time/costs and tariffs while being more accessible to North American customers



Turnkey solutions for high-mix assembly



Unmatched agility, flexibility and responsive customer service drive speed-to-market



Large, growing customers rely on dependable partner of scale to support continued growth

CREATIVE MANUFACTURING PARTNERS

Flexible - Customer Focus



FOCUSED ON PROACTIVE SERVICES & SOLUTIONS

Founded in 1985

\$750M forecasted run rate with approx.
625,000 sq. ft.

4,000+ employees

**World-class end to end PCBA and box build
manufacturing and test capabilities in
flexible environment.**

DIFFERENTIATION

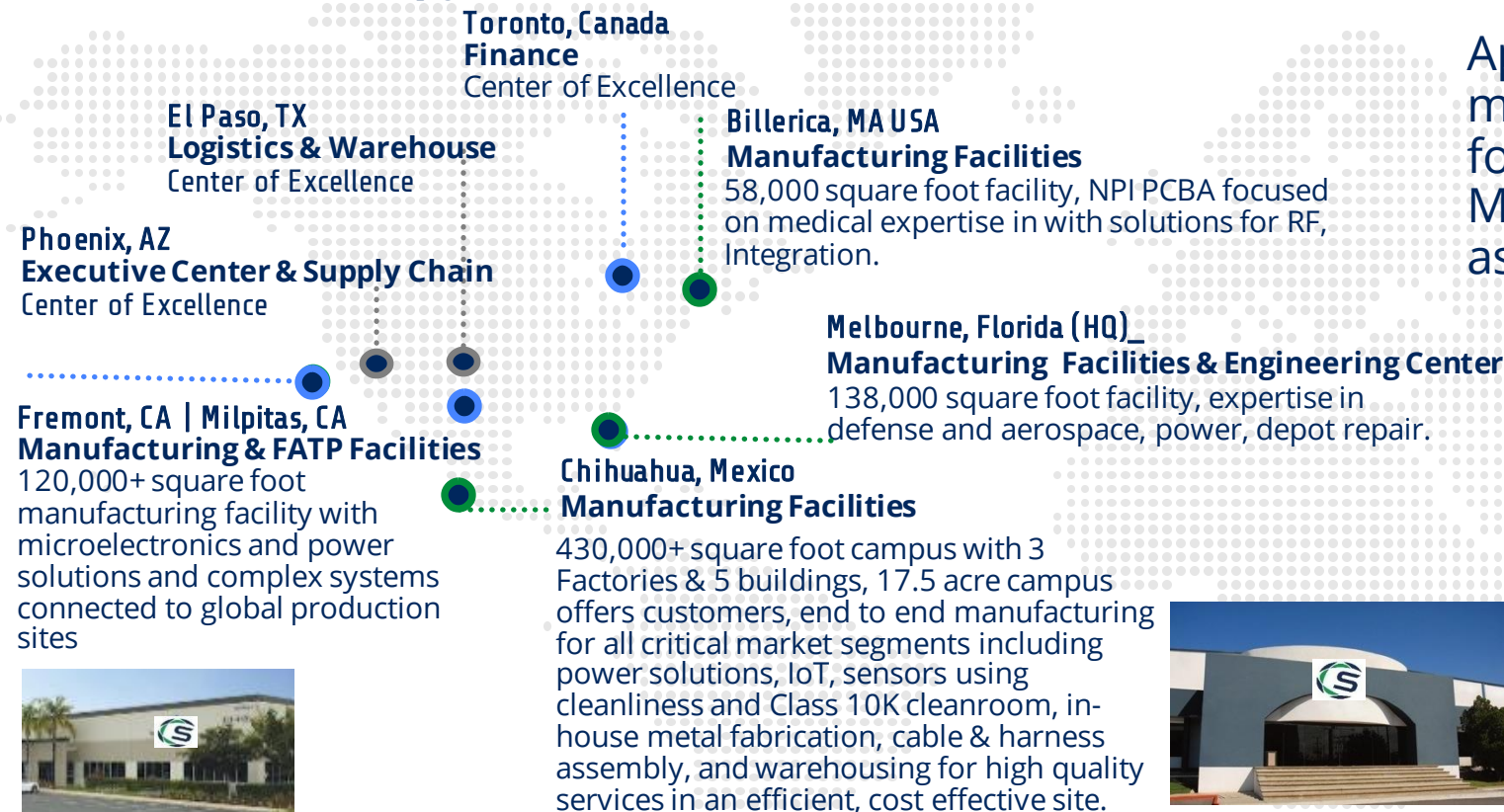
- Customer-Centric Culture for EMS & Factory-in-Factory Solutions
- Global Supply Chain Management, Depth, & Relationships
- Executive Engagement with Transparency and Access

BEST IN CLASS

- Solutions for Customized Extension of our Customers
- Accelerating Time to Opportunity for Onboarding and NPI
- Footprint providing Lowest Landed Cost with Flexibility & Responsiveness
- Engineering & Quality Depth and Experience

GLOBAL FOOTPRINT

Common Copy Exact Solutions



Approx. 625,000 square feet of manufacturing capabilities globally for best-in-class cost opportunities. More than 50 manufacturing and assembly lines

Hong Kong & Dongguan, China
Global Procurement & Supply Chain & Engineering Center



GENERAL CERTIFICATIONS/STANDARDS

ISO 9001:2015
ISO 13485:2016
ISO 14001:2015

IPC-A 610 Class I, II, III
FDA Registered
AS9100D & ITAR

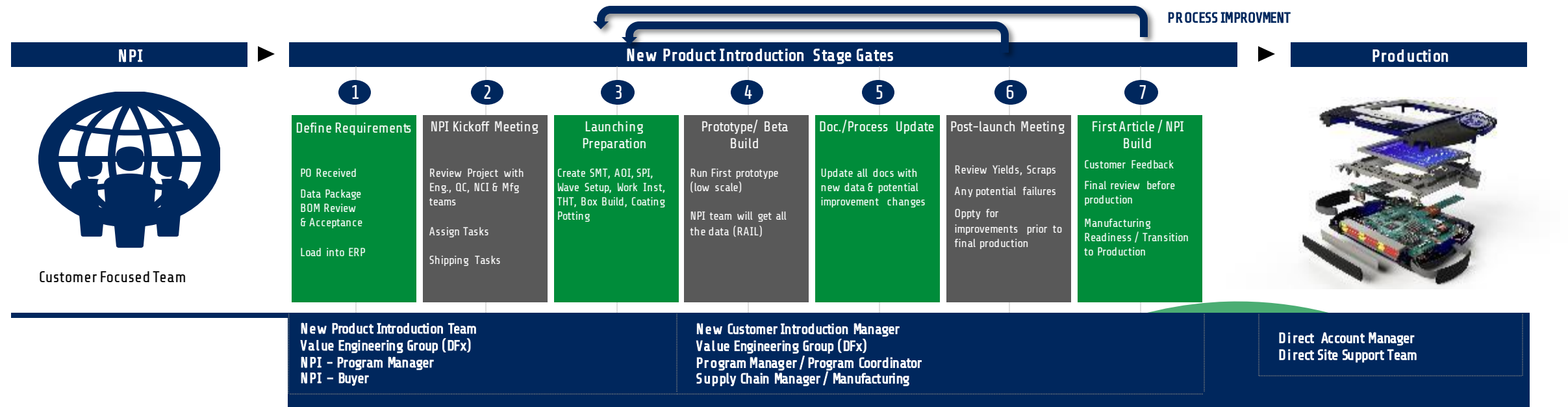
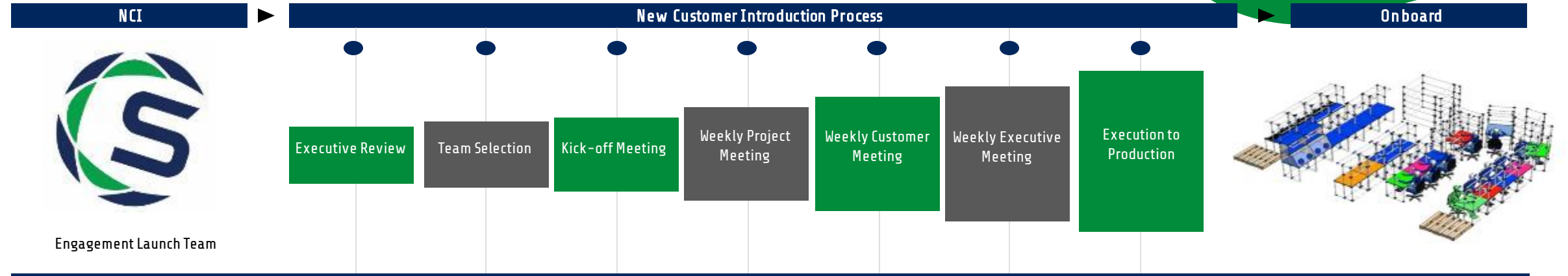
Frost & Sullivan Award Winners

Product Quality, Growth Leadership & Customer Value Leadership Awards

IATF 16949 (MX Facility Q1 2018)
FAA: PMA Certified
cGMP Compliant
IPC 610 Class 2 & 3 soldering

FDA Registration
TRAC: 4144-7785-7736
Cage Code: 4X3Y1
Apple ® Authorized
Mfi Manufacturing License 6.0

DIFFERENTIATED BY HOW WE ENGAGE AND ONBOARD





DIFFERENTIATING LEADERSHIP TEAM

with History of EMS Success & Supply Chain Expertise



Ed Smith
President & CEO

25+ years EMS, electronic components distribution industry experience

SMTEK increased from \$0.35 to \$15.23 at takeout under his stewardship

At AVNET led Americas component operations increased from \$ 1.2 to \$4.0B; Started a global embedded business and grew to \$2.2B in 7 years



Steve Waszak
CFO & SVP M&A

20+ years finance, strategic M&A development experience

Deloitte.



Josh Chien
Chief Commercial Officer

25+ years EMS sales, engineering, and operations experience



Mickey McCallion
EVP, Global Operations & Supply Chain

35+ Defense OEM and EMS experience



Phil Wehrli
SVP Global Planning & Supply Chain

35+ supply chain management experience



Carlos Diaz
SVP Operations West

20+ EMS operations and customer service



Matt Brophy
President, Aerospace & Defense

20+ Defense OEM and EMS experience



VERTICAL INTEGRATION & TECHNICAL EXPERTISE



Technology

DESIGN SERVICES

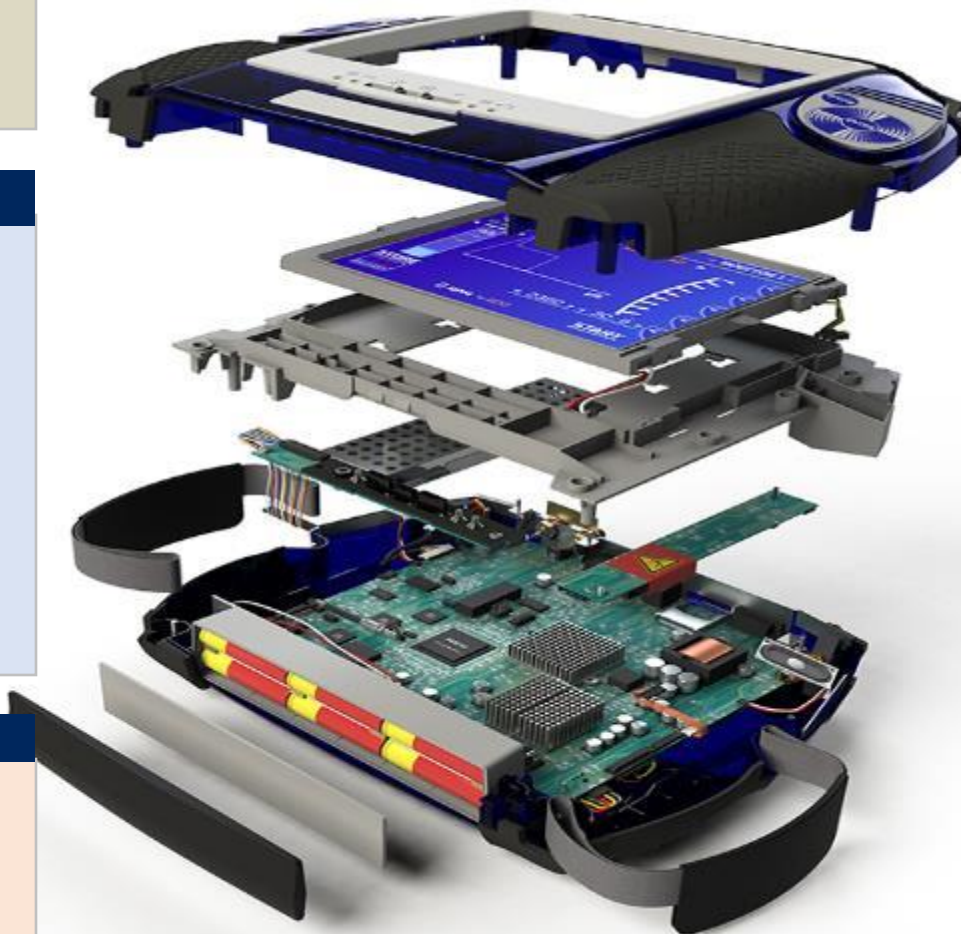
- Industrial Design
- Mechanical Design
- Package Design

VALUE ENGINEERING SERVICES

- Reduced lead time and material costs (DFSC)
- Improved PCB yield and cost (DFF)
- Improved Assembly yield and reduced labor content (DFA)
- Improved Coverage and Final yield, reduced RMA and field failures. (DFT)
- Improved Production Stability and Predictability (DFM)
- Continuous Improvement (Post-DFM, ROI)

TEST DEVELOPMENT SERVICES

- ICT Development
- Finite Element Analysis
- Functional Test Development
- Flying head Probe
- ICT, AOI, AXI FT, ESS, EVT



CUSTOM METAL FABRICATION

- Stamping, Die-Casting & Metal Extrusions
- Precision Metal & Enclosure
- Welding, Sanding & Painting

CABLE & HARNESS ASSEMBLY

- Discrete and complex wire harnesses
- Encapsulation moulded cable assemblies
- System wiring for internal and external interconnects
- Custom/application-specific cable assemblies
- Electro-mechanical subassemblies

PRINTED CIRCUIT BOARD ASSEMBLY

- Rigid & Flex Boards
- SMT, PTH & Mixed Technology
- Ultra Fine Pitch QFP, BGA & CBGA
- Package-On-Package
- Lead-Free Processing
- Ultrasonic Welding
- Conformal Coating / Potting / Under fill

Manufacturing



SUPPLY CHAIN & LOGISTICS

SMTC Corporation

GLOBAL SUPPLY CHAIN SOLUTIONS

Experienced & Focused Supply Chain Management Team

Global Supply Chain Strategy

- In-Plant Stores and VMI programs with key supply partners
- Balanced approach to use of direct & distribution procurement
- Implementation of OEM customer-controlled awards & terms
- Deployment of B2B processes with key suppliers.

Local and Regional Supply Chain Management

- Manage localized suppliers as part of our global ecosystem
- Support for customer supply chain model for localized product requirements
- Critical support role for supplier allocation management
- Supplier escalation to support critical supply issues

Customer Value-Add

- Support for customer supply chain initiatives
- SMTC Quarterly market updates
- SMTC preferred supplier listing
- NPI sourcing & component life cycle management



SUPPLIER MANAGEMENT | ASIA

1

Plastic Injection Modeling

- Mold design and fabrication
- Plastics molding
- Decoration and finishing technologies

2

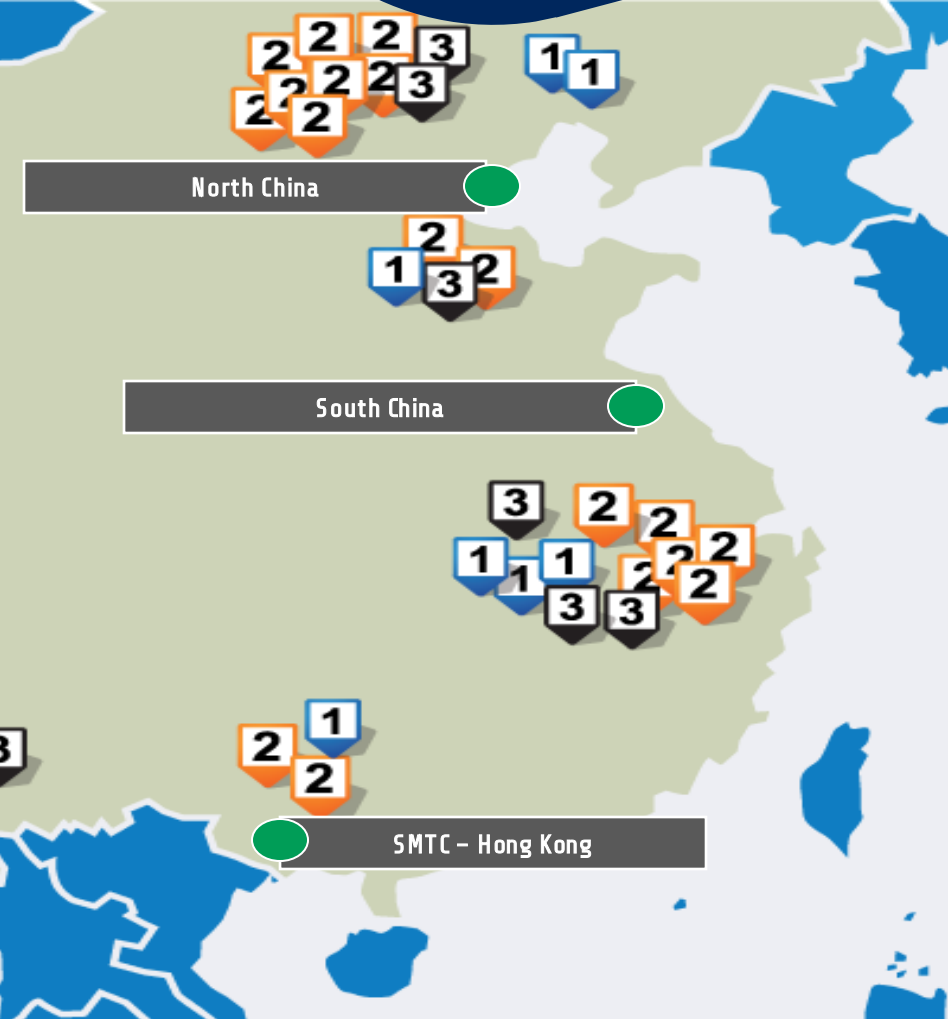
Machining, Die Casting and Metal Plating

- CNC Metal Machine House
- High Pressure Die Casting – Aluminum & Zinc
- Secondary Operation – Plating, Power Coat. & Painting

3

Printing and Packaging

- Customized Labeling
- Manuals and Documentation
- Customized Corrugated Packaging



ORDER FULFILLMENT & REVERSE LOGISTICS

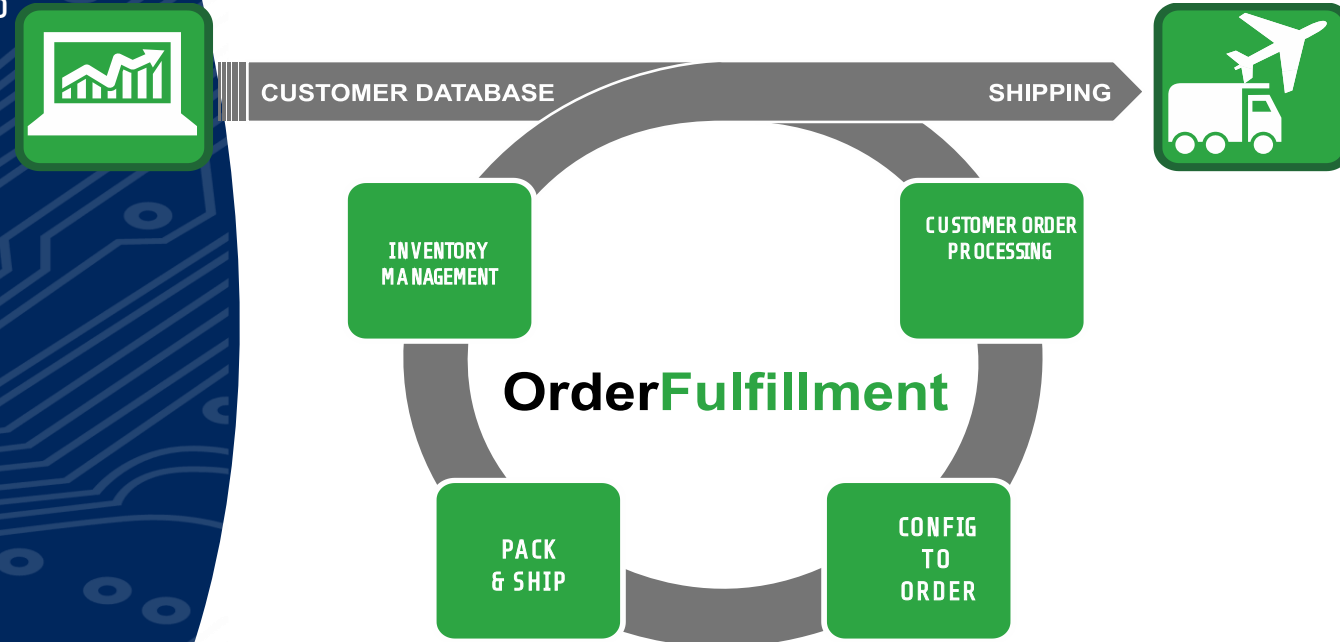
We provide a responsive, efficient, and cost-effective configure-to-order (CTO), reverse logistics Services and order fulfillment solution by aligning our processes with the customer's operations, selling, and distribution objectives to eliminate redundancies and associated costs.

Order Fulfillment Services:

- Fulfillment services and outbound logistics
- Service parts stocking and fulfillment
- Reverse logistics
- Reporting / metrics / visibility solutions

Configuration to Order Services *'tailored made'*

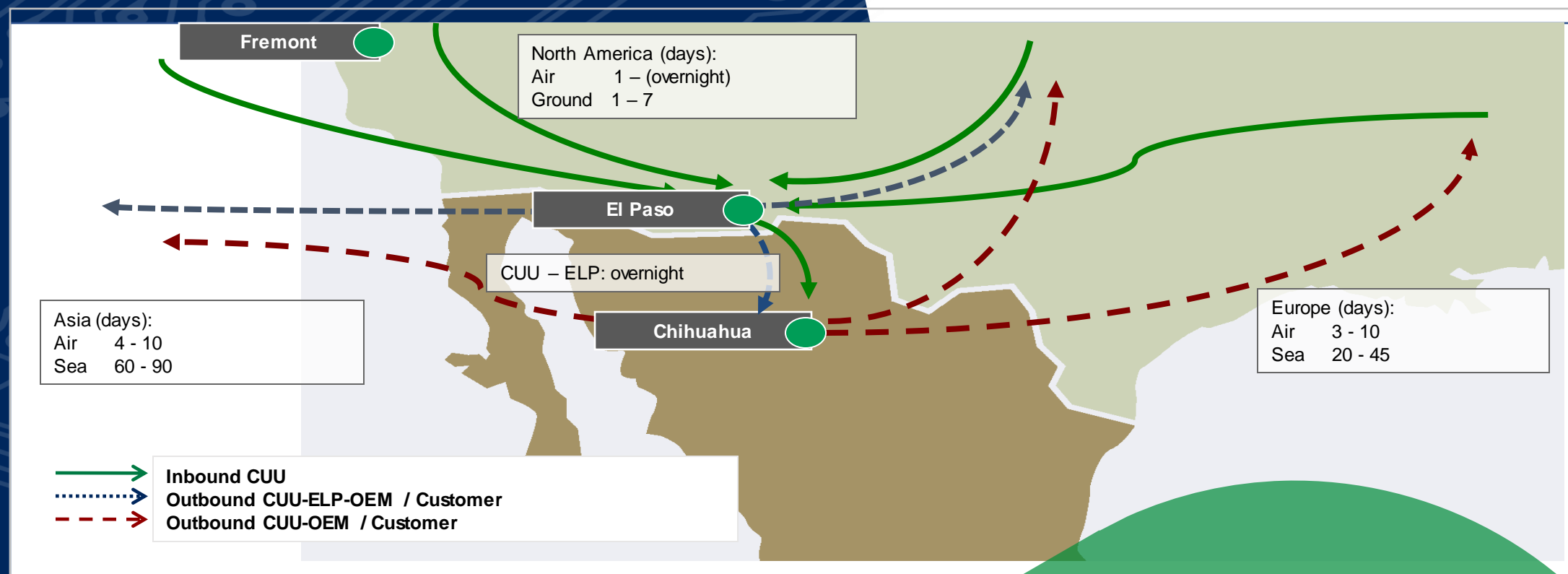
- High-level configuration
- Firmware & software loading
- Testing configurations
- Handling activation keys
- Pack out services: label creation, accessory kits, packaging, and SO/SN data entry (all factory installed options)



LOGISTIC GATEWAY

SMTC utilizes El Paso, TX as the “logistics gateway” and cross-dock for supporting USA, Mexico and Customer sites

C-TPAT Customs Process





FACILITY OVERVIEW

SMTC Corporation

Manufacturing in USA



Site Statistics:

- 138,000 square foot facility
- ISO-9001:2015, ISO-13485:2016, AS 9100D
- IPC-A-610, Class II and Class III Workmanship, FAA-PMA Certified, cGMP / QSR Compliant
- 4 SMT Placement Lines with Automated PTH PCBA Assembly, Complex SMT PCBA Assembly, BGA and Micro BGA Assembly, 0402 and 0201 Placements
- Flying Probe, Functional Test, Environmental Test, In-Line Optical Inspection, ICT Test
- RF Test, Calibration, De-Bug, Warranty, Repair, Upgrades
- Concurrent Test Development & Design for Manufacturability and Test
- RoHS Lead-Free Manufacturing
- Integration and Box Build capabilities

Melbourne, Florida



SMTC Melbourne (Florida) operation is one of the region's most sophisticated manufacturing solutions provider. We utilize world class production, inspection and test equipment, an MRP planning tool (Kinaxis – Rapid Response), and Lean Manufacturing Principles, all functioning under an ISO-9001:2015 quality system and with strong RF, signal and power manufacturing experience. Melbourne's extensive experience with high reliability products and the diverse amount of platforms across multiple customers allows us to leverage our best in class manufacturing practices to drive value for our customers.

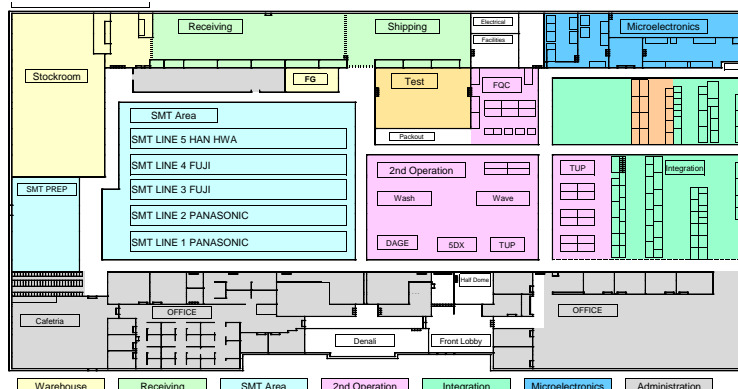


Manufacturing in USA



Site Statistics:

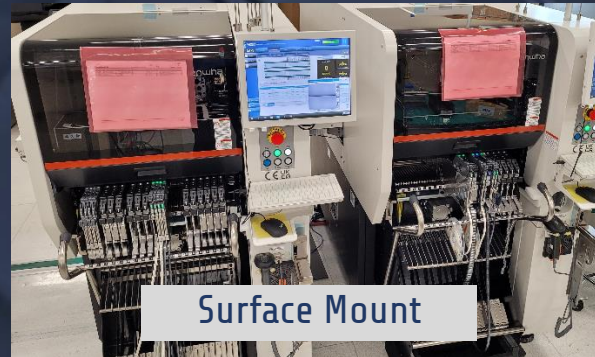
- 65,000 square foot facility
- ISO 9001, AS9100 and 13485 Certification
- RoHS, IPC-A-610 Compliant, Lead free process
- 4 Production and 1 NPI SMT Lines with Box Build Assembly Area
- Microelectronics Assembly (Class 5 and 7)
- Integrated Functional Testing
- NPI integration for quick-turn prototyping
- High mix, low-to-medium volume range



Fremont, California



SMTC Fremont (California) is focused on providing a highly flexible, innovative technology center for new product introduction (NPI) with local high-mix, medium- to low-volume production. We service customers all over North America with assembly services that include: PCBA, System assembly, Functional testing and Development, Box build, Final product integration, Microelectronics assembly and Order fulfillment with Worldwide customer logistics. We assemble our products with a continual improvement mindset. Our Key values are Innovation, Customer Focus, Continuous Improvement, Collective Success and Flexibility



Manufacturing in USA



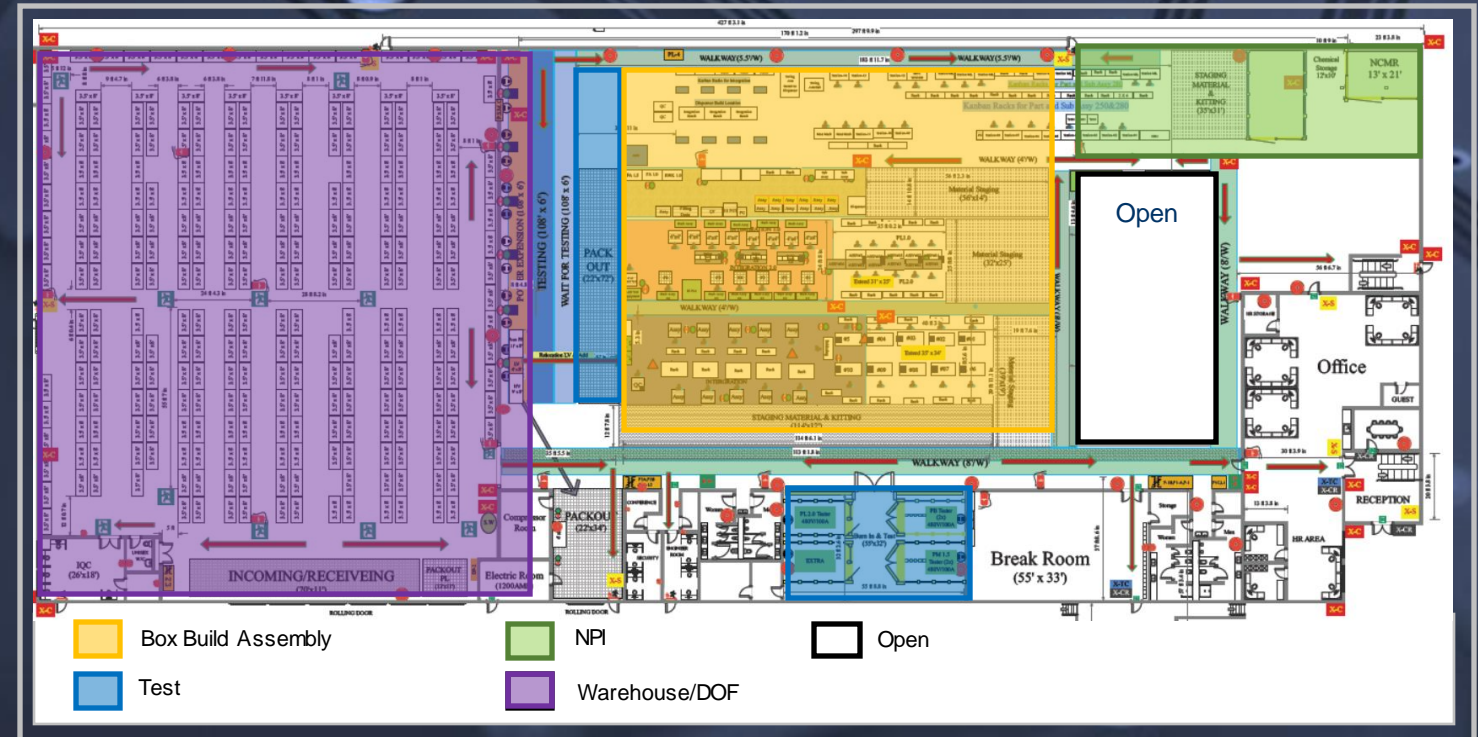
Site Statistics:

- 75,500 square foot facility
- ISO 9001:2015 (Quality Management) AS9100
- RoHS Compliant
- box/system assembly & test
- NPI Tech Center
- Test Development & Design for Manufacturability and Test
- High mix, low- to medium-volume range

Milpitas, California



SMTC Milpitas (California) is focused on providing a highly flexible, innovative technology center for new product introduction (NPI) and local high-mix, medium- to low-volume production. We service customers all over North America with services that include: system assembly, structural and functional testing and development, box build, final product integration, order fulfillment, and BTO/CTO/DOF with worldwide customer logistics.



Manufacturing in USA



Site Statistics:

- 58,000 square foot facility
- AS 9100C, ISO-9001:2008, ISO 13485
- IPC-610, Class II & Class III Workmanship
- PTH PCBA Assembly, Complex SMT PCBA Assembly
- 3 SMT Placement Lines w/ BGA and Micro BGA Assembly, 0402 and 0201 Placements, Integration and Box Build
- Functional Test, ESS Testing, Concurrent Test Development & Design and Manufacturability Test
- Warranty, Repair, Upgrades
- Fulfillment and FRU services, Supply Chain Management
- Leaded Lines & RoHS Lead-Free Manufacturing
- RF Assembly/Test

Billerica, Massachusetts



SMTC Billerica (Massachusetts) facility operates under the Core Values of Innovation, Customer Focus, Continuous Improvement, Collective Success and Flexibility. Maintaining AS 9100C, ISO-9001:2008, and ISO 13485 certifications allows the facility to partner with Hi-Reliable Strategic Customers to provide manufacturing solutions in both new product introduction (NPI) and volume production builds.



Manufacturing in MEXICO



Site Statistics:

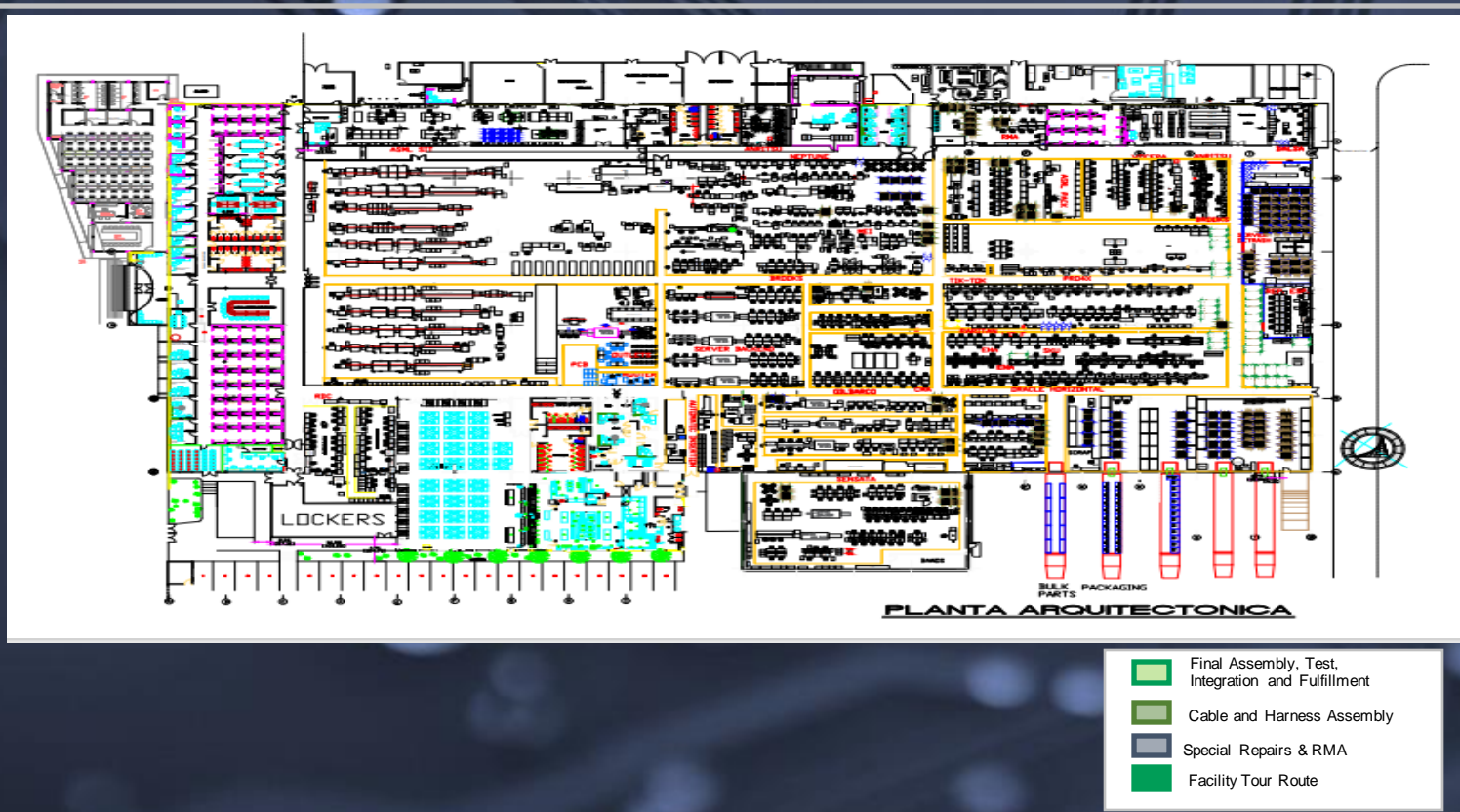
300,000 square foot, 17.5 acre campus, 4 buildings

- ISO 9001:2015 (Quality Management),
- ISO 13485:2016 (Medical),
- ISO 14001:2015 (Environmental)
- RoHS Compliant
- More than 2k employees
- 11 SMT Lines (Panasonic CM / Fuji NXT)
- AOI/5DX and flying probe capabilities
- 15 Wave Solders (Electrovert)
- 2 ERSA Selective Solder
- Ultrasonic weld
- Class 100; 10,000 and 100,000 cleanroom
- IPC Class-3 validated lead-free process
- PPAP Level 3 process
- PCBA, box/system assembly & test
- Precision metal & enclosure fabrication
- Cable & harness assembly
- In-plant store – materials flexibility

Chihuahua Plant 1



SMTC Chihuahua (Mexico) is our largest facility, with high mix, low- to high-volume production. This manufacturing facility is vertically integrated, capable of enclosure and precision sheet metal fabrication with interconnect cable and connector manufacturing. This facility offers complete End-to-End solutions for OEM customers requiring lowest cost North America manufacturing.



Manufacturing in MEXICO



Site Statistics:

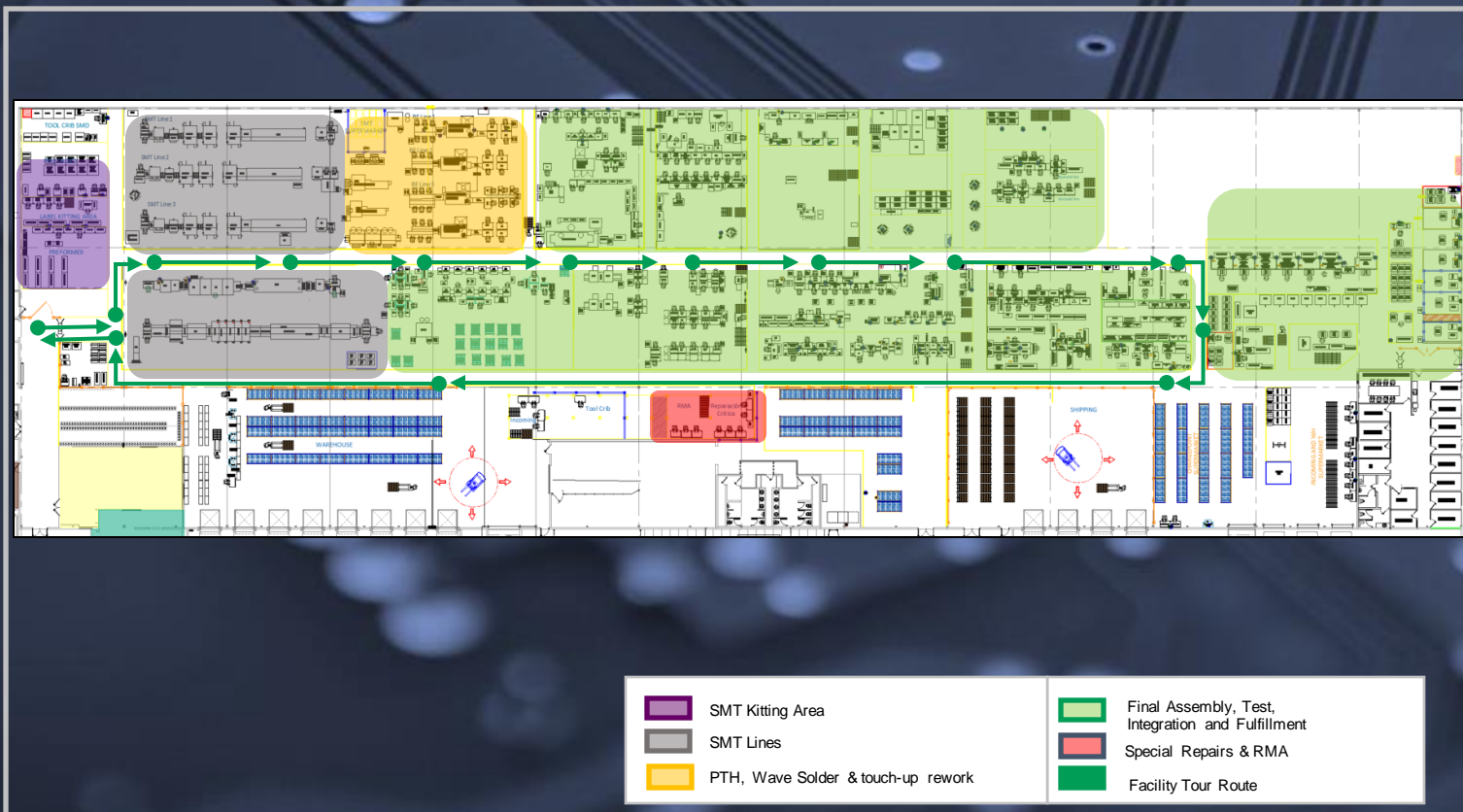
105,000 square foot

- ISO 9001:2015 (Quality Management),
- ISO 13485:2016 (Medical),
- ISO 14001:2015 (Environmental)
- RoHS Compliant
- 5 SMT Lines (Fuji NXT / Hanwha / UIC)
- SPI / AOI / X-Ray / ICT and Flying Probe capabilities
- PTH Automatic inserters
- 4 Wave Solder (Electrovert) & Selective Solder (ERSA)
- PCB router & Automated Conformal Coating machines
- DI Aquastorm washer with cleanliness control
- Functional Test, De-bug, Repair, Warranty & Upgrades
- IPC Class-3 validated lead-free process
- PPAP Level 3 process
- PCBA, Backend, Box-build, system assembly & test
- In-plant store – materials flexibility

Chihuahua Plant 2

SMTC Chihuahua (Mexico) Plant 2 is the second largest campus with high mix, low-to-high volume production. We utilize world class production methodology in parallel with some of the newest equipment technology.

Our assembly, soldering, coating, and inspection are all engineered with Lean Manufacturing Principles and Continuous Improvements. This facility offers complete end-to-end solutions for OEM customers requiring lowest cost North America manufacturing with services that include: PCBA, system assembly, functional testing, and complex box-build product integration.



Global Logistics in EL PASO, TX



Site Statistics:

- 30,000 square foot facility
- Hardware integration
- Direct order fulfillment
- Configuration to order
- Pick, pack, and ship
- Scheduling & export/import
- Freight consolidation & cost optimization
- Carrier assignment and routing
- Routing plans & execution
- Inventory management
- 3PL Warehouse provided by Kuehne + Nagel, Inc.



SMTC El Paso (USA) provides comprehensive logistics and repair services across North America due to its strategic location near the US-Mexico border and El Paso airport. The facility specializes in logistic services, after-market services, and end-of-life solutions, such as cross-border logistics, customer support, international shipping/trade compliance, distributions, reverse logistics, and direct fulfillment.

FACILITY CAPABILITIES: Logistics/Post-Manufacturing Repair/Warranty



Manufacturing in MEXICO



Site Statistics:

400,000 square foot, 17.5 acre campus, 4 buildings

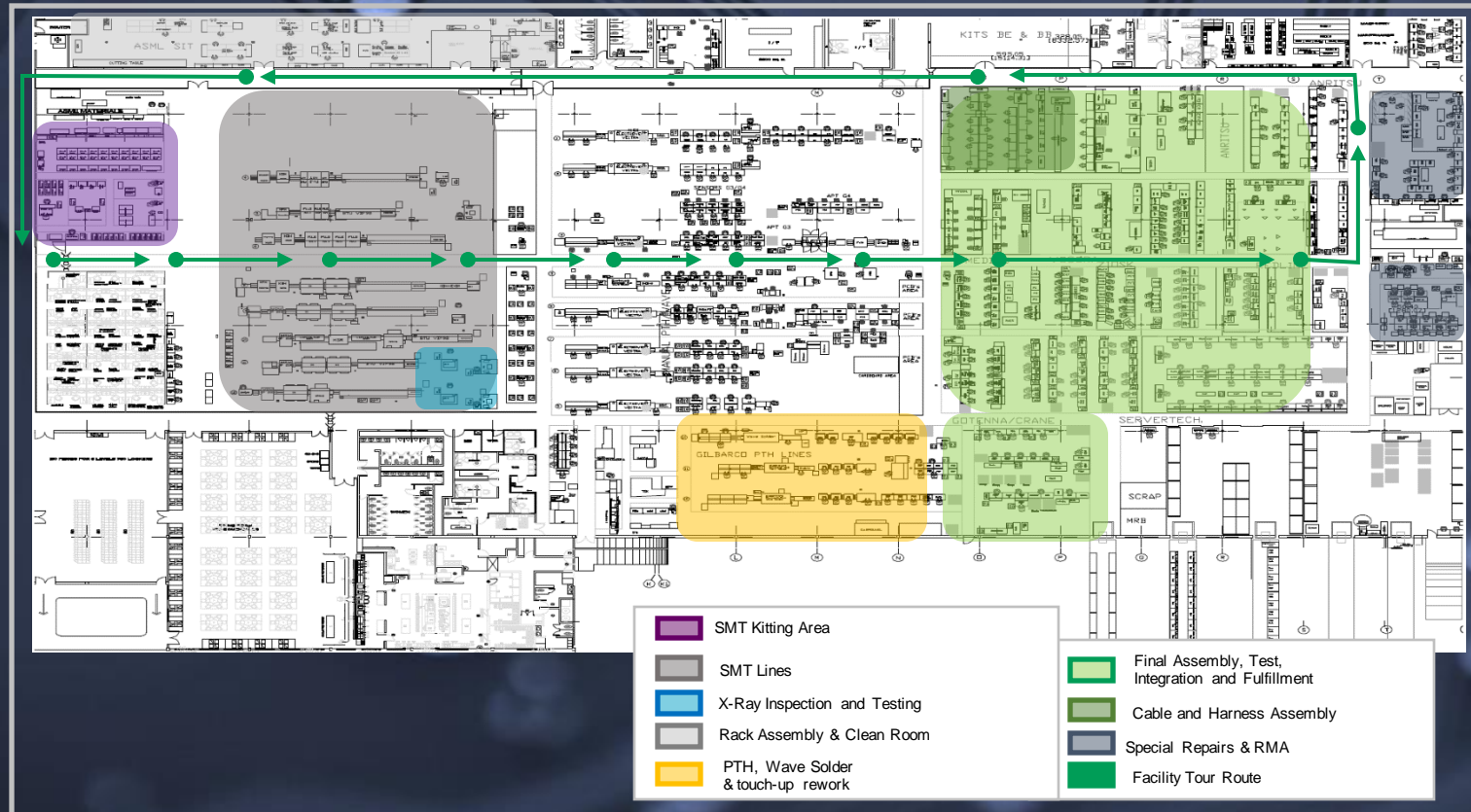
- ISO 9001:2015 (Quality Management),
- ISO 13485:2016 (Medical),
- ISO 14001:2015 (Environmental)
- RoHS Compliant
- 9 SMT Lines (FujiNXT / Panasonic CM)
- AOI/5DX and flying probe capabilities
- 11 Wave Solder (Electrovert) & Selective Solder
- Ultrasonic weld
- Class 100; 10,000 and 100,000 cleanroom
- IPC Class-3 validated lead-free process
- PPAP Level 3 process
- PCBA, box/system assembly & test
- Precision metal & enclosure fabrication
- Cable & harness assembly
- In-plant store – materials flexibility

Interconnect & MexFab



SMTC Chihuahua (Mexico) is our largest facility, with high mix, low- to high-volume production. This manufacturing facility is vertically integrated, capable of enclosure and precision sheet metal fabrication with interconnect cable and connector manufacturing.

This facility offers complete End-to-End solutions for OEM customers requiring lowest cost North America manufacturing.



Building a Stronger Company:

World Class – Flexible – Customer Focused



Achieving Top-Quartile Operating Metrics Among Peer EMS Companies & Continued Acquisition to Create Powerful Low-to-Medium Volume, High Mix EMS Provider

Relentless Pursuit of Profitable Growth through Customer and Employee Excellence

Above Market Returns for our Investors

Achieve Double Digit Growth With Existing Through **New Programs**

Increase Business with Existing Customers Through **World Class Service**

Become Provider of Choice And Win New Customers to **Accelerate Growth**

Drive Value via **M&A, Expand Mix** of Lines of Business and **Increase TAM** with Supply Chain Synergies to **Gain Scale**



THANK YOU

Contact

Josh Chien
Chief Commercial Officer
510-585-6145 | josh.chien@smtc.com

Our Approach – Philosophy of EMS

Executive Management Sponsorship

- Committed to the success and always Available for Your teams

Innovative Win-Win Solutions

- Willing to work with you on “outside the box” approaches to meet mutual goals

Award Winning Execution

- Proud of our ability to execute quickly at a high velocity with high quality

Flexibility of Service

- Easy to do business with because we need to meet all goals together

Improving Customer Experience

- Always looking for ways to do a better job for you

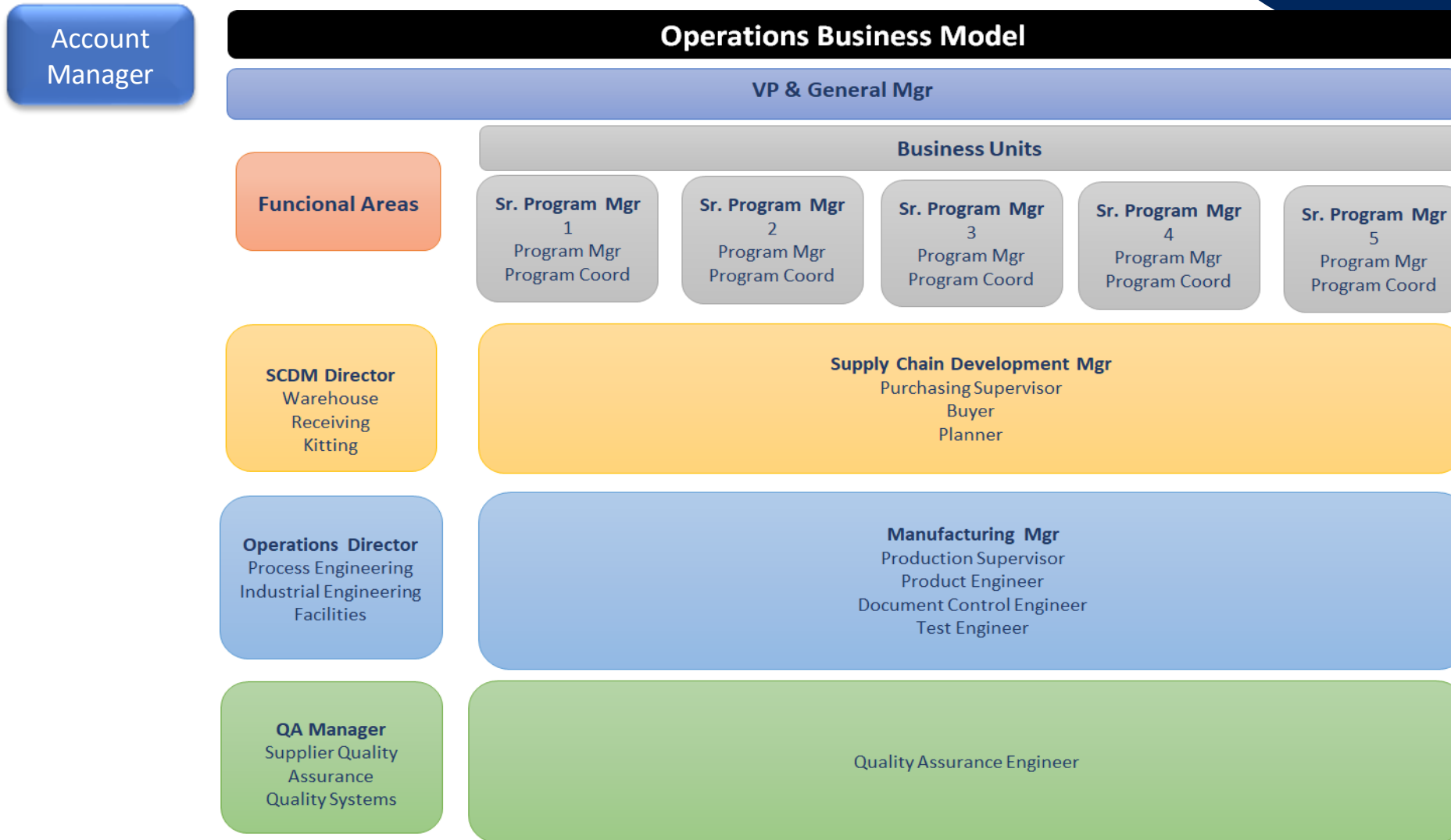
Values Driven Company

- Supporting positive change agent companies

Core Markets Segments

- Focused on markets where we can create the greatest value

Customer Focus Team Structure





CAPABILITY HIGHLIGHTS

SMTC Corporation

END-TO-END MANUFACTURING SOLUTIONS

Providing Technology, Flexibility, Velocity, & Experience

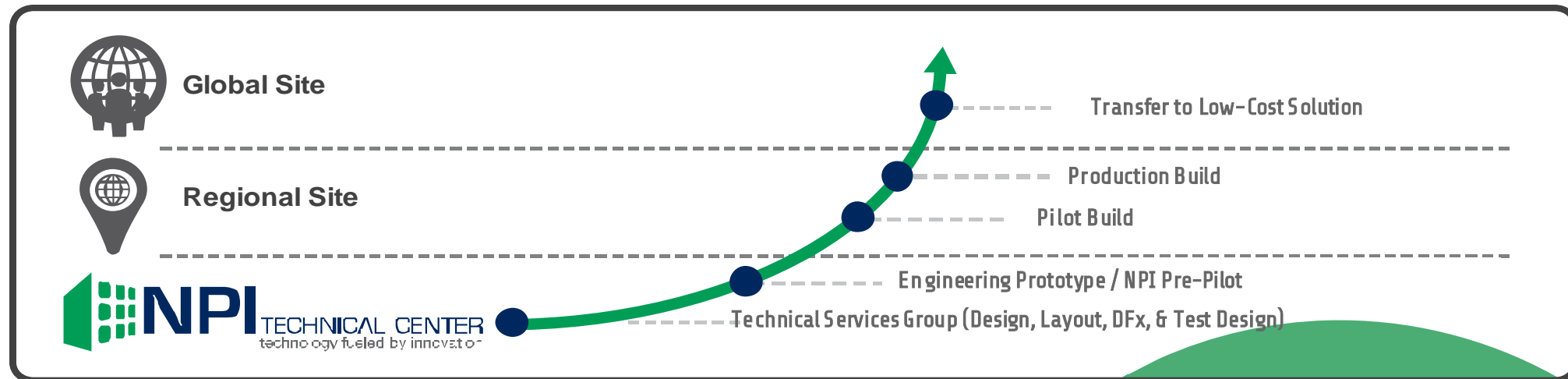


One-Stop Solution For Industrialization of New Products:

- Product Design (Electrical & Mechanical) with an Eco-System of Partners (ID | Reliability | Test)
- Quick-Turn PCBA Prototype
- NPI, Regional Production, & Global Manufacturing

Providing Solutions Beyond a typical NPI Relationship:

- Onsite Engineering & Manufacturing Services
- Fast Materials Acquisition – Local & Global Materials Management Teams
- Integrated & Coordinated Technology & Component Solutions



VALUE ENGINEERING SOLUTIONS



Architecture	High Level Design	Physical Design	Prototype	Validation	NPI	Volume
<ul style="list-style-type: none">• Component selection – Major (e.g. Processor)• Hardware / Software partitioning	<ul style="list-style-type: none">• Schematic Design• ASIC/FPGA Design• Component Selection	<ul style="list-style-type: none">• PCB Layout• DFM• DFT• Component Selection (e.g. passives)	<ul style="list-style-type: none">• Quick Turn Prototype• Early DFM/DFT Feedback	<ul style="list-style-type: none">• Device level testing• System integration testing• EMC testing• Agency submissions	<ul style="list-style-type: none">• Supply chain tweaking	<ul style="list-style-type: none">• Continuous process improvement

DFSC – DESIGN FOR SUPPLY CHAIN

DFT – DESIGN FOR TEST

DFA – DESIGN FOR ASSEMBLY

DFM – DESIGN FOR MANUFACTURE

EXAMPLE

Ref Des U37, U38, distance between pad too close (0.0059"). Prone to solder bridge. Recommend decreasing pad from 13.78 mil to 11 mils.



Quality and Reliability Concern.
2 OFE, 130 Locations – 260 Opportunities
Probability of Occurrence 50%
Expected Yield Detractor 2.5%
Rework Cost \$2.80
Potential Annualized Cost \$4,021.01

PRODUCT OPTIMIZATION

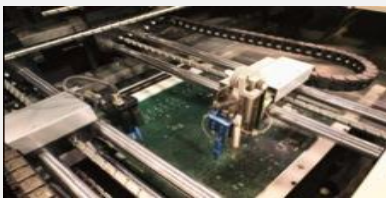
Through Early Stage Customer Engagement



- Design for Fabrication (DFF): Focuses on PCB fabrication design and related cost drivers
- Design for Assembly (DFA): Focuses on PCBA design and physical layout opportunities
- Other engineering services as appropriate: ECO upgrade, reliability testing, FAI, failure analysis, DOE



- Design for Supply Chain (DFSC): Focuses on material sourcing, AML, compliancy, supply and lifecycle
- Component Engineering and AVL optimization. BOM Analysis and component life cycle management
- Design & Simulation Tools: SOLID WORKS; RHINO; MATLAB; LabView; PADS ES | CST Studio Suite- Antenna Modeling, Reliasoft Lambda, Weibull ++; Systems Integration Lab; Hot Mock Up Bench



- Design for Manufacturing (DFM): Focuses on manufacturing process and test and related cost drivers
- Pre- and Post-DFM Reviews, Post-Build Reports



- Design for Test (DFT) and ROI: Focuses on test access, coverage, and related test plan and development.
- ICT Development and Finite Element Analysis (FEA): Services test plan and development for PCBA testing
- Functional Test Development and Design

KPIs | QUALITY MANAGEMENT



PERFORMANCE

KPI's – Weekly, Monthly Monitoring

DATA Analysis

Audits

Customer Feedback

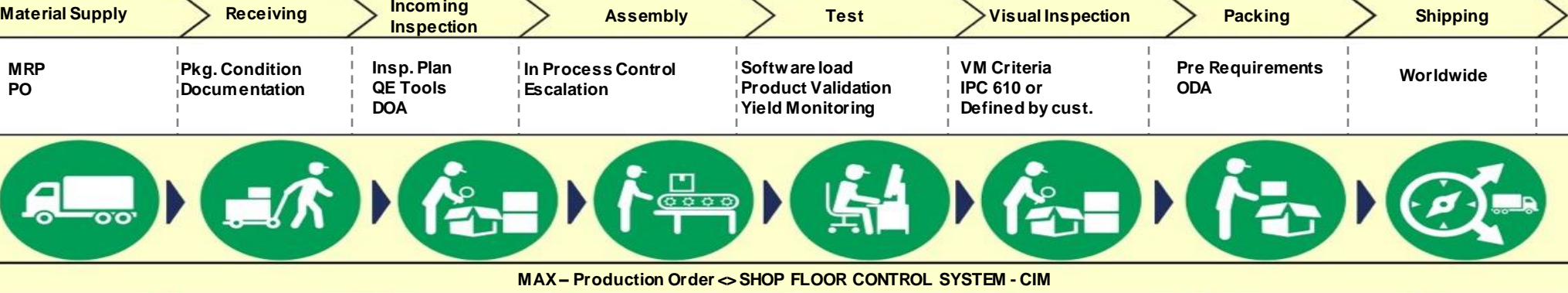


APPROACH

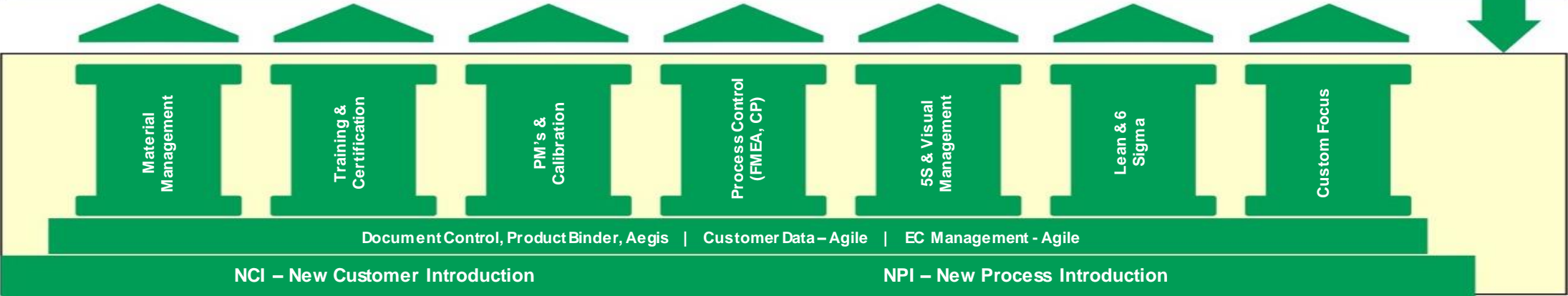


FLOW

END-TO-END PROCESS



BASIC PILLARS



RF/IF PRODUCT MANUFACTURING & TEST EXPERTISE



Manufacturing Experience: SMTC has extensive skills in Design for Manufacturing and placement accuracy for RF shields, and develops specific chemistries for qualification and selection of RF products DC to Light including:

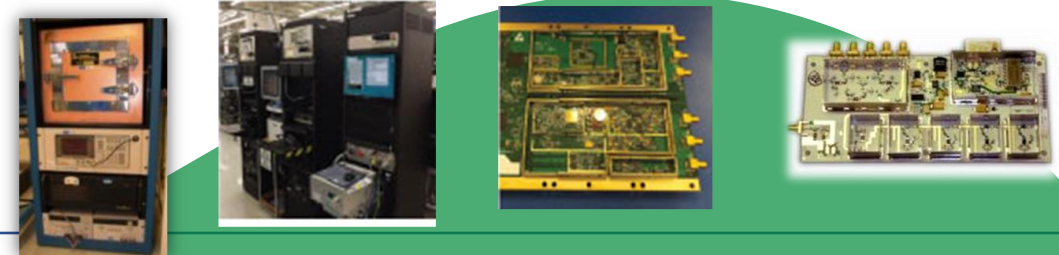
- Wi-Fi, Wireless, Bluetooth, Zigbee
- GPS, WiMax and Ultra Wide Band
- Low range : 150-470 MHz and 900-1800 MHz
- High range: 800-900MHz, 5-20 GHz (specific product @ 9 GHz, 13 GHz, 20 GHz), 40 GHz

Design Experience: Simplifying RF circuitry in applications in the 2.4 Gig range has reduced the overall RF circuitry portion of designs and eliminates the need for tuning/alignment

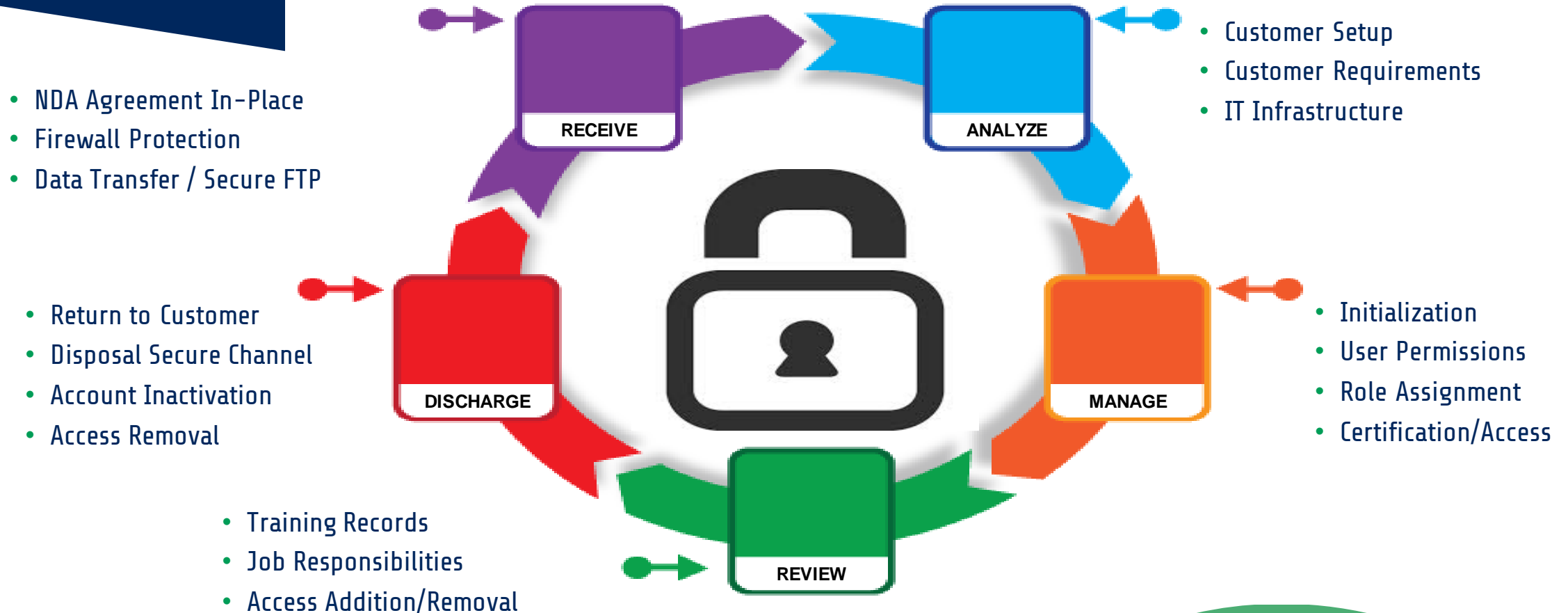
Technology Experience: SMTC experience with RF products ranges from radio transceivers, multiplexers, diplexers to power amplifiers and low noise amplifiers (LNAs). SMTC's experience includes manufacturing products ranging from a few hundred MHz to forty GHz

Test Calibration, Tuning, Troubleshooting up to 100 Ghz Experience: SMTC has developed automated testing of RF products which reduces test times and permits extensive parametric data collection and analysis for feedback to designers. Automated testing provides the opportunity to be proactive and mitigate potential issues.

Multiple DAS Applications: SATCOM; EW; RF Jammers; ELINT/SIGINT



INTELLECTUAL PROPERTY PROTECTION LIFECYCLE – “NEED TO KNOW (NTK)”

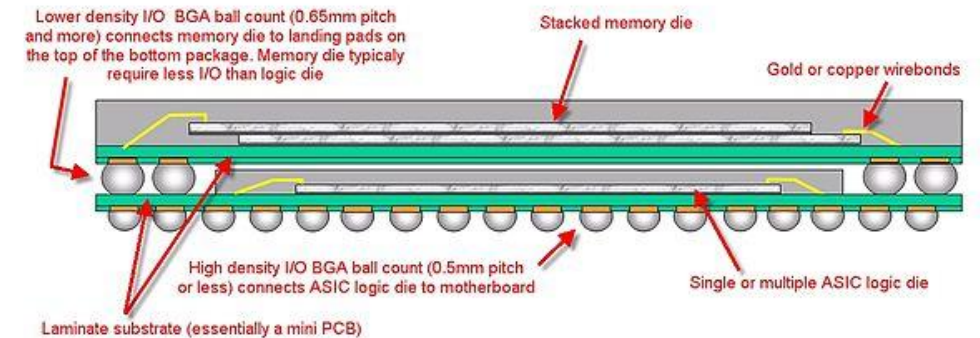
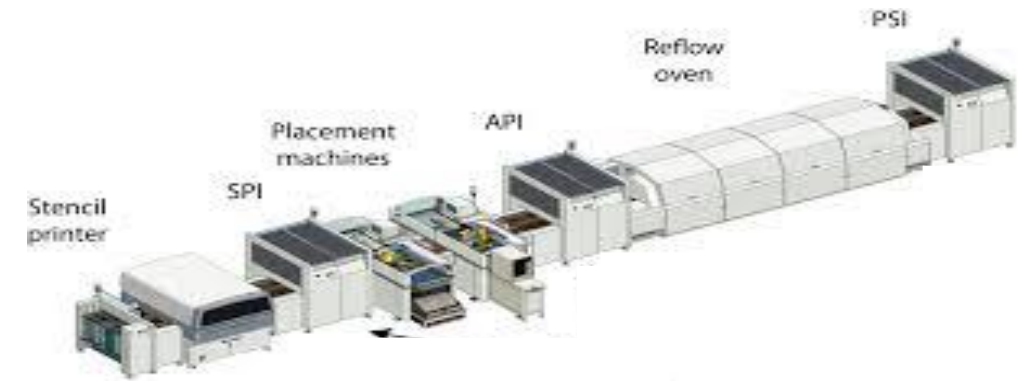


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PCB ASSEMBLY – TECHNOLOGY

Our equipment supports a wide range of technologies from PoP Stacking, underfill, 01005 chips to BGAs, CSPs and large odd-shaped components up to 150mm long. Speeds can range from 115,000 cph on chip-shooters to 8000 cph on odd-parts

- SMT (Sn/Pb & Pb-free) no clean & aqueous wash
- Up to 3K placements and 30K + solder joints
- Nitrogen / Air reflow
- Package On Package
- Paste In Hole reflow
- Hot bar attach
- Ultrasonic Welding
- Press fit attach
- Conformal coating / potting / under fill
- Automated DFA, DFM, & DFT
- Rigid and Flex PWBs up to 58"x24", 58 Layers and .360 thickness



PoP Technology

SYSTEM-LEVEL ASSEMBLY, TESTING & DEVELOPMENT

Test expertise in high-speed digital, RF, precision analog, power, thermal, and optical providing solutions for electrical, structural, mechanical, system level testing and development for cables, harnesses, PCBAs, subassemblies.

Capabilities:

- Connectivity, dielectric, ground bond
- Optical power, lead loss, reflectivity
- Full chassis electrical functional and switching tests
- Automated 2000 test point continuity tests
- Protocol and traffic testing
- Environmental stress screening
- Tuning, calibration
- Burn-in, system run-in testing

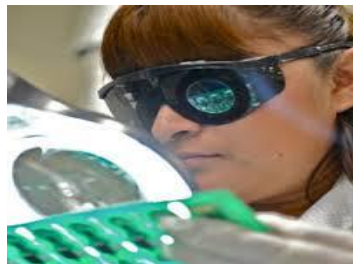


DEPOT: UPGRADES, FAILURE ANALYSIS, RMA, AND REPAIR CAPABILITIES

- Failure Analysis expertise in house supporting complete life cycle
- Field and/or Fleet Life Cycle Support
- Managing component supplier warranty returns, replacements, and credits
- Return-to points globally using SMTC and 3PL locations
- Quality feedback loop to the SMTC volume manufacturing team



FAA CERTIFIED
REPAIR STATION



Repair Capabilities

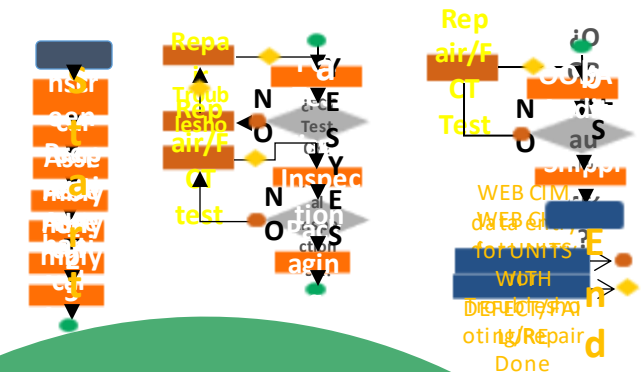
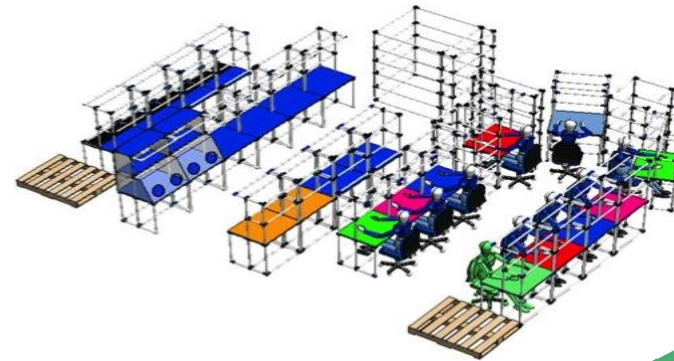
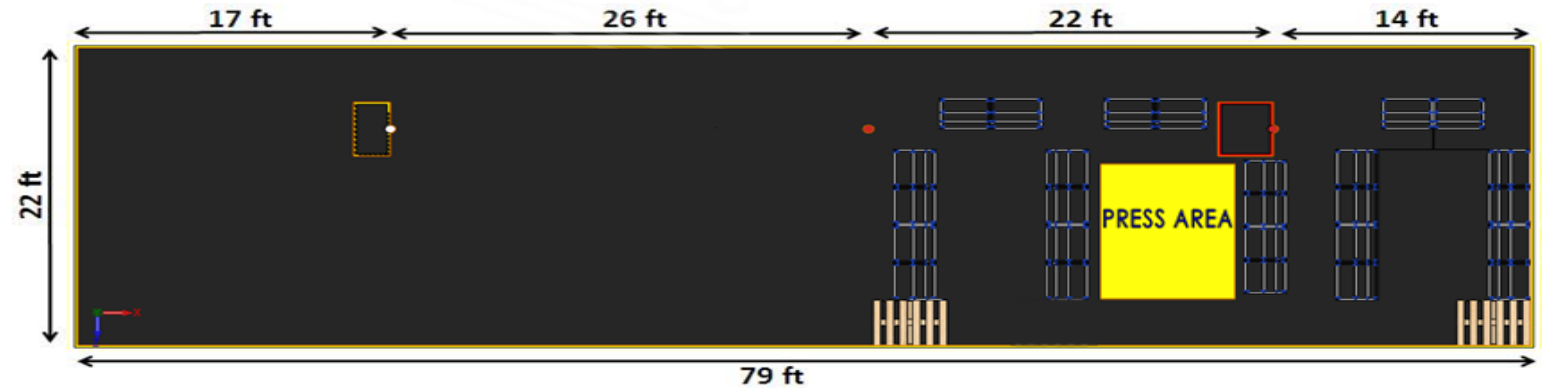
- PCB Component Level Repair
- Whole-Unit Refurbishment
- BGA Rework including re-balling and Inspection
- X-ray Inspection
- SMT/BGA Pad Repair
- In-circuit Testing & Flying Probe
- Functional Testing
- Functional Debug and Repair
- Packaging Design
- Cosmetic Repair
- Configuration Upgrades

Industries currently served

- Aerospace
- Defense
- Telecommunications
- Medical
- Industrial

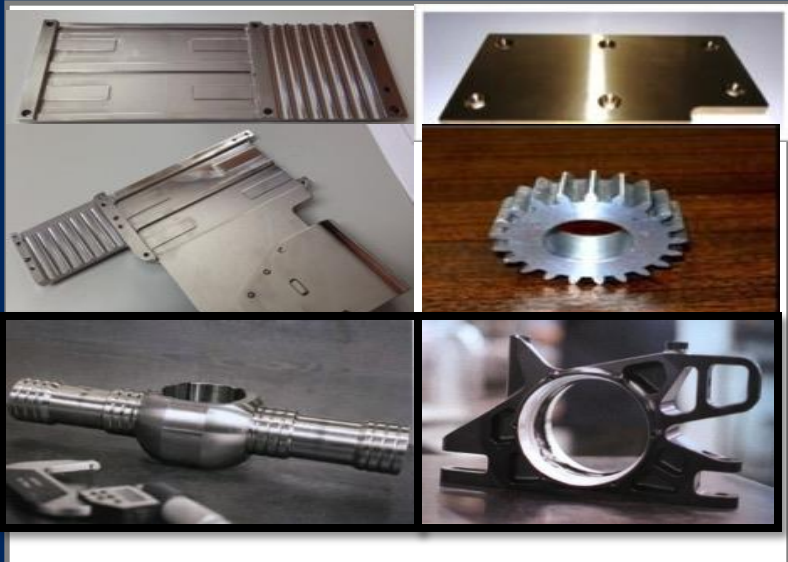
CULTURE OF LEAN – KAIZEN – SIX SIGMA

CELL DESIGN, DOCUMENTATION, LAYOUT

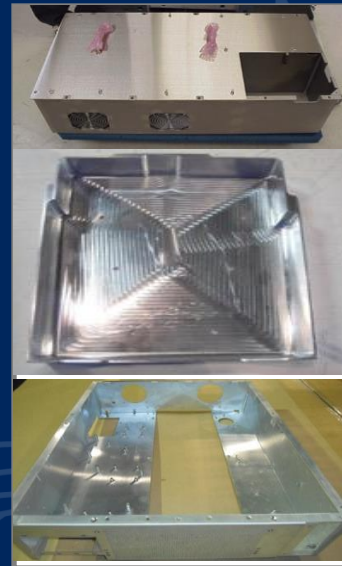


MEXFAB PRODUCT EXAMPLES

PRECISION MACHINING



ENCLOSURES



METAL FABRICATION



MEXFAB EQUIPMENT (1 OF 2)

Precision Sheet Metal Enclosures (Soft Tool Production)

CO2 Laser Cutting Machine

- Amada LC-1212 1500 watts 50"x100" Table, 120" per minute

Turret Punching Press

- (2x) Amada Pega 3585 50"x 80" brush table, 58 stations 4 AutoIndex stations, 315 s.p.m.

CNC Press Brake

- (2x) Amada HFE100-35 10'x110 Ton. 8 axis Hydraulic
- (1x) Amada HFB8025 8'x 80 Ton. 8 axis Hydraulic

Sanding (Aluminum & Stainless Steel)

- (2x) JBI 15' sanding booths
- TimeSaver 36" wet sander & a Bader space saver sander
- Sandblasting Machine

Inserting Process

- (2x) PemSerter Series 2000 Auto feed Insert press
- PemSerter series 4, manual feed
- (2x) Haeger manual insert presses



LC-1212 alpha2

AMADA HFE 1003-S



AMADA PRESS BRAKE 80 TON. (HFB 8025)



TOGU TOOL GRINDER



WET SANDER TIMESAVER
SERIES 3100



AMADA PEGA 358



PEMSERTER SERIES
2000

MEXFAB EQUIPMENT (2 OF 2)

Precision Welding and Machining Enclosures

Welding Tig, Mig & spot welding arc welder

- (3x) Miller Syncrowave 250DX
- (1x) MillerMatic 140 Mig Welder 24 gauge - 3/16 in. (0.8-4.8mm)
- Amada id40st press type resistance welder

Machining Fabrication

CNC Haas VF-3 Vertical Machining Center

- 40"x20"x25" 30hp
- 4 axis

Lathing, Grinding , Metal Cutting Band Saw Horizontal 10" x 18" 1.5Hp

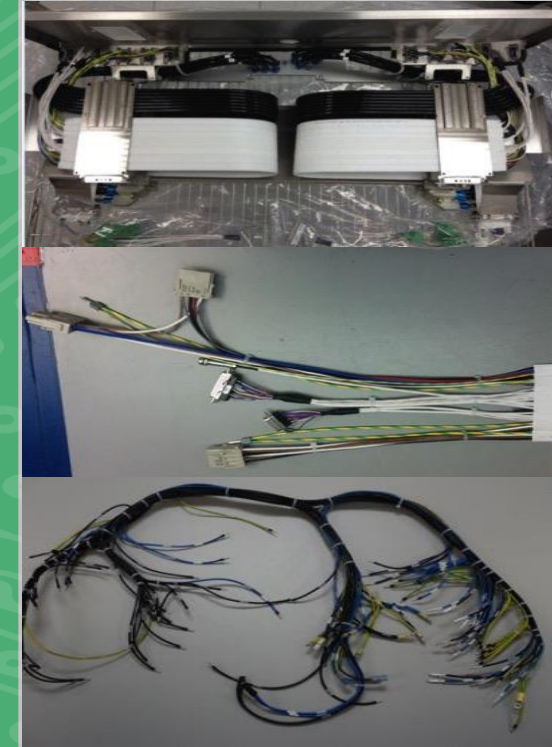
Vertical Inspection Equipment

- Virtek Laser Q.C. and Micro Hite



INTERCONNECT, CABLE, CABLE HARNESS, CONNECTOR CAPABILITIES

Focused on providing vertically integrated Interconnect Cable Solutions on the Mexico manufacturing campus.



CLEAN ROOM CAPABILITIES

Ensure compliance in tightly controlled particle management in a Class 100,000 and 10,000 PPM clean room under black light environment in Mexico and Laminar Flow Workstation in Fremont and China

CONFORMAL COATING, POTTING, & ULTRASONIC WELDING

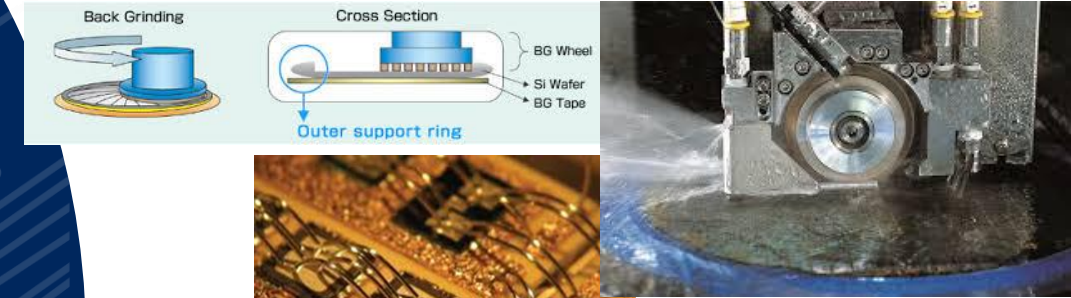
Capable to provide a variety of approaches for environmental protection of PCBA, Sub-Assemblies, and Finished Devices within SMTC Factories and/or with our strategic partners

Laminar Flow Workstation



MICROELECTRONICS & WIRE BONDING CAPABILITIES

Wafer, Die Attached, Plasma Cleaning, Gold Wire Bonding, Pull and Shear Tests, and Class 100 Clean Room



CLEANLINESS CAPABILITIES

Water Wash Systems With Resistivity monitor for real time measurement including Pre-Wash & Wash module (R.O. water w/Saponifier chemistry Zestron AC205 8% concentration) Rinse module with R.O. water. Final Rinse module with heated D.I. water above 8 Mohms of Resistivity. Dryer section to remove humidity. Monthly Ion Chromatography (IC) Testing.

