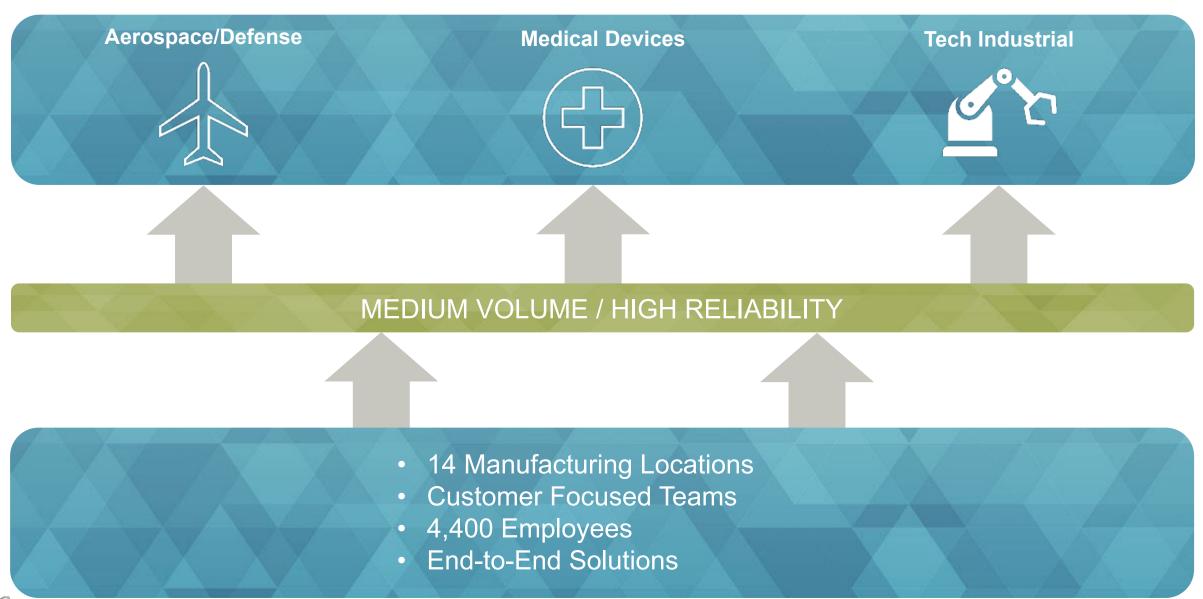


Creation Technologies Overview





Creation Technologies Strategy



Creation Revenue by Industry



Responsive Solutions for your Entire Product Lifecycle

24/7 VISIBILITY WITH CREATION VISION

 Mechanical, Electrical, System, Software, Testing/Fa Analysis S 	Rapid · Mediu · ISO 9	bal Business Units lium Volume 9001, ISO	 Analysis & Testing Laboratory ISO17025 DFT, Test 	 Direct Order Fulfillment Electronic Data 	 Repair, Warranty & Advanced Exchange Reverse Logistics
ServicesServicesProductPrototypinDevelopment• DFX & Va• Mechanical,• Testing/FaElectrical,Analysis SSystem, Software,• Mechanical	Rapid · Mediu · ISO 9	lium Volume 9001, ISO	Laboratory • ISO17025	FulfillmentElectronic Data	Advanced Exchange
 Test Engineering Risk Analysis, Regulatory Guidance & Compliance Sustaining Services Manufactu Transfer & Gateways 	ailure Services Uring & NPI S S S S S S S S S S S S S S S S S S S	a-Fine Pitch, 6A, RF Testing, Shielding e Harness & nnectors cision Metal	 Drive rest Specification & Test Strategy Development Complex RF & Large Electro- Mechanical Automation Build- & Configure-to-Order Serialization & 	 Exchange & Portal Flexible Financial Models Customs & Logistics Management 	 Sustaining Engineering and DFE EOL Support: Take- Back, Tear-Down, Recycling

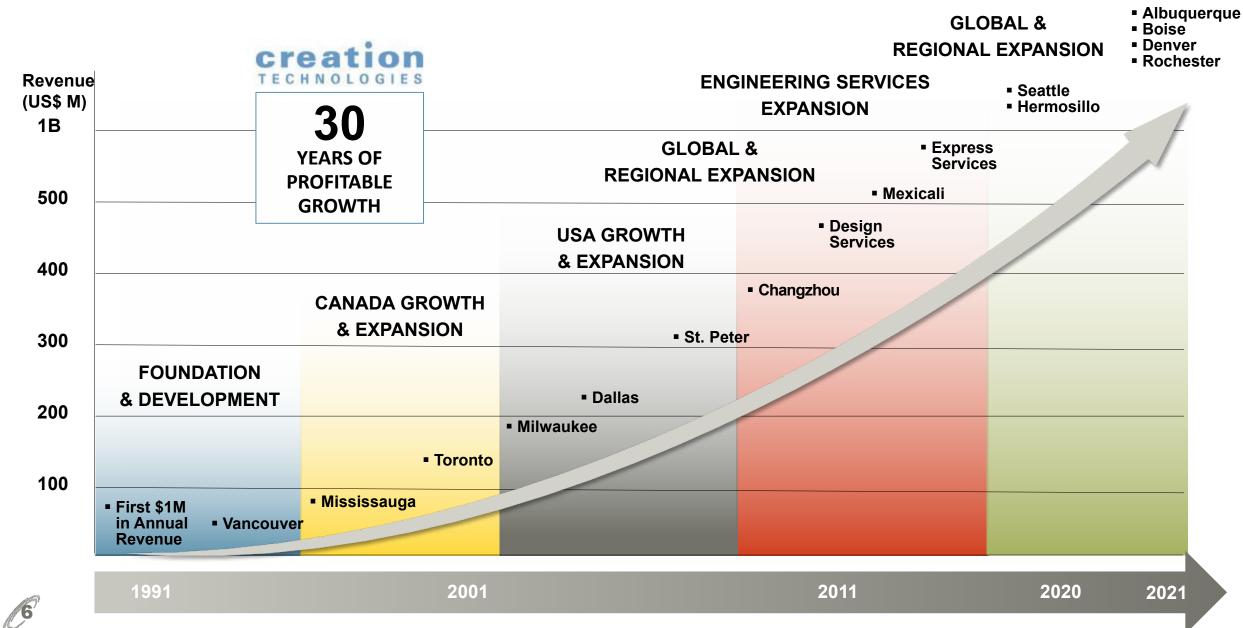
Global Solutions and Teams Committed to your Success

ALBUQUERQUE • BOISE • BOSTON • CHANGZHOU • DALLAS • DENVER • HERMOSILLO • MEXICALI



MILWAUKEE • MISSISSAUGA • ROCHESTER • SEATTLE • ST PETER • TORONTO • VANCOUVER

Ongoing Investment to Support Customer Growth



Our Customer-Focused Teams

PROGRAM MANAGER Planner **Buyer** Activity Direction • Supply and Demand Tactical Procurement Order Management and On • Plan for Every Part Push/Pull/Cancel Time Delivery Inventory Management Setup and Maintenance Achievement of Metrics of Part Attributes The fine Team Leader & Manufacturing Team Assembly Productivity Improvements • Executing to Plan Manufacturing Floor

CFT LEADER

- Team Leader
- Big Picture
- Strategy & Improvement
- Customer Satisfaction

Manufacturing Engineer

- NPI and Pilot Production
- Sustaining Engineering
- ECO Management

Quality Engineering

- Product Quality Partnership
- Quality System Effectiveness
- Supplier Quality Management

OEMS Face Complex Business Drivers

GLOBAL TRENDS

CURRENT ENVIRONMENT

Supply chain scarcity & volatility

Labor shortages

Unreliable global logistics

Inflation pressures

Customer intimacy

CREATION RESPONSE

_.....

Tailored supply chain strategies

Utilizing global facility footprint

Longer term planning horizon

RISING CUSTOMER EXPECTATIONS

RAPID SHIFTS IN TECHNOLOGY

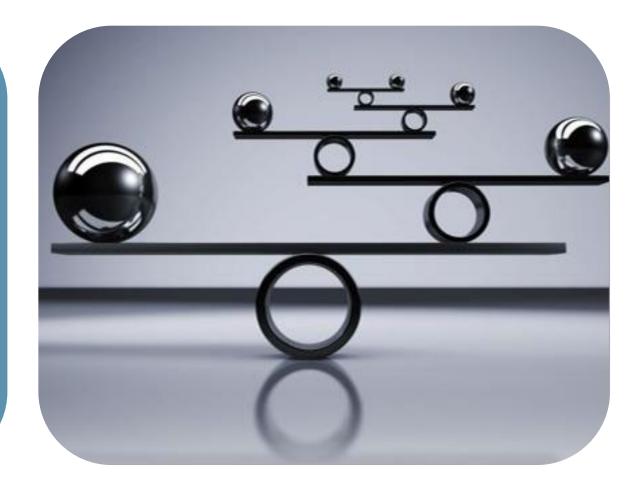
CHANGES IN GLOBALIZATION

M2M & IOT

Navigating the post pandemic Supply Chain

CUSTOMER SPECIFIC PROGRAMS:

- Supply Chain Risk Analysis
- Alternate Sourcing Recommendations (VAVE)
- Extended PO Coverage Beyond Lead Times
- Safety Stock Programs
- Inclusion on Supplier Strategic Programs (e.g. Microchip)
- Executive Level Engagements within the Supply Base
- Allocation Discussions



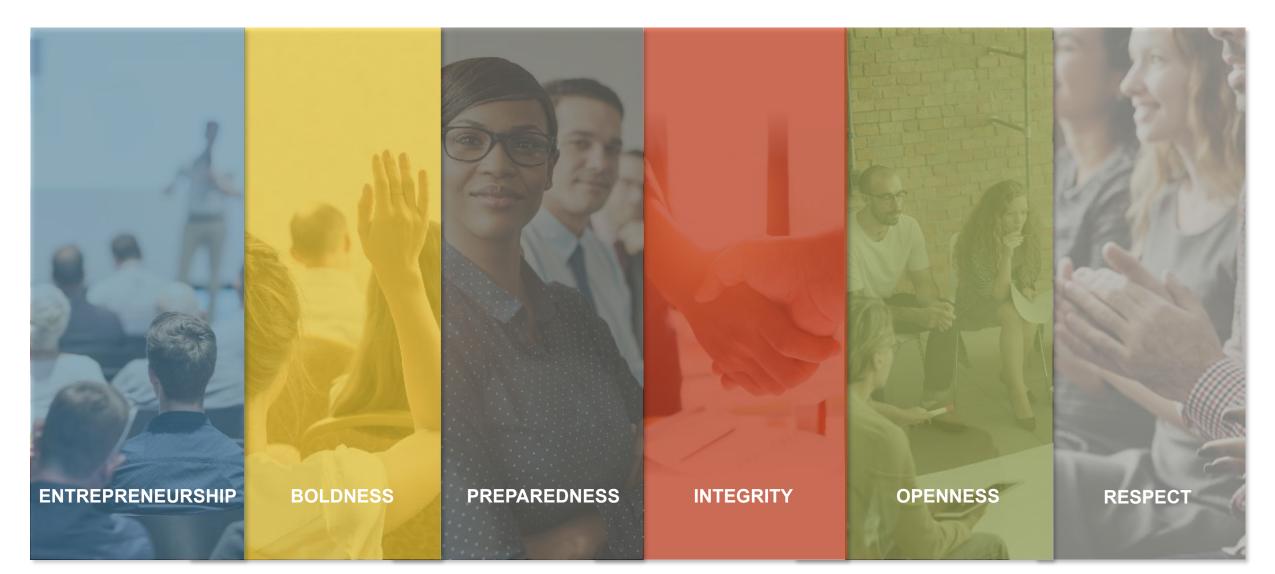
Delivering Results to our Customers



Honored by our customers and **CIRCUITS** for the 7th consecutive year!



Our Core Values



Certifications, Registrations & Regulatory Agencies



Aerospace & Defense





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creation TECHNOLOGIES

Tech Industrials

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creation TECHNOLOGIES

Solutions & Capabilities

creation TECHNOLOGIES

Product Development and Sustaining Engineering



COMPLETE PRODUCT DEVELOPMENT CAPABILITIES

DESIGN WITH A MANUFACTURING MINDSET



CONCEPT / DESIGN VERIFICATION

- Dedicated NPI
 Product Manager
- DFx Analysis
- Best-in-Class DFM Tools (ex. Valor)
- Rapid Prototyping
- Design Services
- Test Development
- HALT Highly Accelerated Life Testing

PRE-PRODUCTION

- Secondary DFx Analysis
- Data Verification
- Documentation Development
- Production Readiness
- Qualification Builds
- Materials Procurement Analysis

PRODUCTION / MAINTENANCE

- Continuous Improvement
- Value Engineering
- ECO Management
- Warranty / Repair Analysis
- Upgrades & Service

WE HAVE SUCCESSFULLY LAUNCHED MORE THAN 5,000 NEW PRODUCTS IN THE PAST 3 YEARS!

Creation Express Services – Rapid Prototyping



- Quick-Turn Consignment, Turnkey or Hybrid Materials
 Management
- Dedicated SMT Lines Optimized for Prototyping, Flying Probe, AOI & X-ray Available
- Seamless Collaboration & Manufacturing Transfer to your Business Unit of Choice
- Ability to Produce Quickly with Minimal Documentation
- Extreme Flexibility with Late Design & Engineering Changes
- Design for Manufacturing (DFM) and other DFX Reviews

EXPRESS SERVICES CAPABILITIES

- SMT Optimized for Prototyping: My-Data MY100, MY300
- Multiple Package Types & Sizes to 0201s
- Processing of Cut Tape with Short Leaders (<5-10 Pockets)
- Screen Printing: Ekra E5 & Elite E-6920
- SRT BGA Rework
- Fixture Design & Development
- Press Tooling, Alignment Jigs, Oven/Wave Pallets
- Documentation Development & System Maintenance
- Design for Manufacturing Review
- SMT & Manual Assembly Teams

Customer-centric Supply Chain

EXECUTION	 CUSTOMER-FOCUSED TEAMS Focused Implementation of Customer Demand Minimized Inventory Exposure & Risk Responsive, Agile, Adaptive Responsive, Agile, Adaptive Customer & Local Supplier Relationships Materials Management to Support Customer Demand
CUSTOMER PROCUREMENT	 Procurement Materials Local Specialists Engineering Responsive, Agile, Adaptive Responsive, Agile, Adaptive Customer & Local Supplier Relationships Materials Management to Support Customer Demand Supply Chain Shipping / Receiving
STRATEGY & SOURCING	COMPANY SUPPLY CHAIN Supply Base Management, Global Sourcing, Pricing Leverage, Supplier Development, Common Purchasing, Common Engineering Best Practices Development & Deployment Management International Purchasing Office Freight & Logistics Central Purchasing Management Management Freight & Logistics Central Purchasing Management Management Purchasing

Manufacturing & Integration

PCBA MANUFACTURING &

Engineering prototyping and specialty low-volume manufacturing

Low-to-High Volume PCB Assembly (PCBA)

Complex double-sided PCBs, flexible circuit technology

Ultra-fine pitch (0201), µBGA, double-sided BGA

Automated conformal coating, potting and encapsulation

Complex RF Electro-Mechanical

Lead-free wave and automated selective wave soldering and complete RoHS-compliant assembly

Clean-room environments

SYSTEMS INTEGRATION

Electro-mechanical systems manufacturing

Rackmount enclosures, PCMCIA cards, servers, backplanes, displays and consoles

Device programming Custom cables and harnessing

Fiber-optic assembly, optical splicing

Commissioning and configure-toorder (CTO) of both systems and software

Serialization and product-tracking, asset management

Direct order fulfillment (DOF), repair & warranty

WIRE HARNESS & CONNECTORS

Team: Staff with > 20 years of Design Manufacturing and Management experience.

Design & Engineering Support – build to print, design assist, Fullservice Engineering

Custom Cable Assembly – Multiple wire types, Various shieldings & protective covers, Insulation resistance, HighPot & Automated final Testing

Complete Electro-Mech Assy & Box Build - Full Integration of wires, metals, and PCBA's. Full verification & Test

PRECISION METAL WORK

Team: Staff with > 50 years of Manufacturing and Management experience.

Advanced Engr Support – DFM, 3D modeling, Reverse Engineering, Chassis & Enclosure Design

Precision CNC Machining – Horizontal & Vertical machine centers, Size 20x30x50 Material options (Alum, Brass, Steel, Stainless, Casting, Alum Forge Plastics)

Custom Metal Fabrication – Fiber Optic Laser for material 0.020 – 1.250,CNC Turret Punch Press for Louvers, Hinges, Knockouts, MultiAxis Forming of complex boxes (up to 250T)

Interconnect Solutions

For Life-Saving and Mission Critical Products



CABLE AND WIRE HARNESS MANUFACTURING

- Custom EMI/RFI Shielding
- Over molded cables with custom material compounding
- Harnessing for Complex
 Assemblies



CUSTOM TOOLING

- On Site Machining Centers for Tools
- Custom Applications
- Enclosures
- Mounting Grommets
- Splice Molds
- Y-Junctions



CUSTOM OVER MOLDING

- In-House tooling design and manufacturing
- Quick change tooling and TPU materials
- Reduced assembly cost, lead-time and weight

Precision Metalworking

For Life-Saving and Mission Critical Products



PRECISION CNC MACHINING

- High Speed Machining
- Horizontal and Vertical Machining Centers
- Variety of Material Options:
 - Aluminum
 - Brass
 - Steel
 - Stainless Steel
 - Castings
 - Aluminum Forgings
 - Plastic
- Size Range: up to 20"x30"x50"



CUSTOM SHEET METAL FABRICATION

- Fiber Optic Laser Cutting
 - Produce metal blanks of extreme complexity with no tooling required
- CNC Turret Punch Press
 - Turret presses where products require formed features punched into product
- Multi-Axis Forming
 - Form highly complex boxes in one set-up



COMPLETE ELECTRO-MECHANICAL ASSEMBLY & BOX BUILD

- Reliability testing and custom software/hardware system configuration
- Logistics management and direct order fulfillment to the end customer
- Welding: MIG, TIG, Projection Welding

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Test Development Services

Provides full turn-key test system design and development services for all Creation Sites and customers

Strong focus on DFT and Test Strategy to provide the optimum test approach for each product

Test systems cover both board and final assembly including Functional Test, Boundary Scan, Burn-in, Environmental and Safety Testing

Test system design capabilities:

- Test Specification Design
- Electro-Mechanical Design
- Fixture Integration
- Software Design
- Project Management

Analysis & Testing Laboratory

Team: Staff with 25 years of counterfeit component risk mitigation & methodology experience.

Root-Cause Failure Analysis – solutions for Product Design Failure, Low Yields, Poor Performance, Degradation

Inspection & Authenticity Testing – Capabilities inc. Counterfeit Component Detection., Lot Acceptance, Construction Analysis

Reliability Qualification Services – Destructive Physical Analysis (DPA), Environmental & Accelerated Life Test, Up Screening, Burn In

Component Analysis & Test Laboratory

ROOT-CAUSE FAILURE ANALYSIS

Solutions for Product Design Failure, Low Yields, Poor Performance, Degradation

INSPECTION & AUTHENTICITY TESTING

Capabilities include Counterfeit Component Detection, Lot Acceptance, Construction Analysis

RELIABILITY & QUALIFICATION SERVICES

Destructive Physical Analysis (DPA), Environmental & Accelerated Life Test, Up Screening, Burn In

SOLVE CHALLENGES

Electronics Manufacturing Experience Multi-disciplinary Approach

Forensic-style Investigation

MINIMIZE RISK

High-quality Testing Standards

Tailored Testing Plan

Expert Team

DELIVER SOLUTIONS

Quick Turnaround Time Flexible Solutions Seamless Integration with Manufacturing



TESTING CAPABILITIES

ISO/IEC 17025:2017 Accredited AS6081 Suitable

MIL-STD-750 Compliant

ANSI/ESD S20.20:2007 AS5553 Compliant

MIL-STD-202 Suitable

ITAR

AS6171 Accredited

DFARS

Compliant

Compliant

DLA QTSL

Suitability

MIL-STD-1580

MIL-STD-883 Compliant

Registered 3 IDEA-STD-1010

Compliant

IPC Validation Services Certified

GEIA-STD-006 Compliant

Fulfillment and Logistics

WE PROVIDE THE FOLLOWING LOGISTICS SERVICES:

- Expedient & Cost-Effective Shipping
- Compliance with All Customs Import and Export Requirements Worldwide
- Cargo Insurance
- Freight Claims Processing
- Product Take-Back
- Total Control of All Forward & Reverse
 Logistics Issues



After-Market Services Tailored to Customer Needs

24/7 VISIBILITY WITH CREATION VISION

REPAIR & WARRANTY MANAGEMENT



- System & Component Repair and Debugging
- Refurbishment & Cosmetic Repair
- Hardware & Module
 Upgrades
- Software & Firmware
 Upgrades

VALUE ENGINEERING



- Failure Analysis
- Inline Root Cause Corrective Action (RCCA)
- Closed-Loop Feedback to Manufacturing & Design Teams
- DFX

FORWARD & REVERSE LOGISTICS



- Advanced Exchange
 (Replacement)
- "B" Stock Management
- Warehousing & Distribution
- Global Logistics
 Support
- Product End-of-Life
 Support

END-OF-LIFE MANAGEMENT



- Sustaining Eng & Environmental Compliance Services
- Product Take-Back Services (3rd Party)
- Asset Recovery & Part Reutilization (3rd Party)
- Product Recycling & Waste Management (3rd Party)

Business Unit Overviews



Albuquerque, NM

- Focused 100% on A&D
- 72,000 Square Foot Facility
- 2 SMT lines
- On-site Defense Logistics Agency (DLA) approved lab as part of the Qualified Testing Supplier List - the only such qualification in the EMS industry
- Defense program certifications Nadcap, Defense Security Service, AS9100, ITAR, ISO9001, ISO17025, ANSI/ESD S20.20
- IPC Class 3; IPC J-STD-001; IPC-A-610; IPC/WHMA-A-620



Boise, ID

- 70,000 Square Foot Facility
- 240 Team Members
- 5 SMT Lines
- Cable & Wire Harness Assembly
- AS9100D, ISO 13485, ISO 9001 and ITAR certified





Changzhou, China

- 75,000 Square Foot Facility
- 3 SMT lines
- 220 People

3

- ISO 9001, ISO 13485, ISO 14001-Certified
- 1 Black Belt/Lean Coach, 9 Green Belts
- Located in Jiangsu Province
- 90 minutes from Shanghai



Dallas, TX

- 62,000 Square Foot Facility
- 3 SMT Lines
- 150 People
- 2 shifts
- ISO 9001, ISO 13485, AS9100D
- ATEX, FM, CE, ITAR, TUV, and UL





Denver, CO

- 31,000 Square Foot Facility
- 150 People
- 3 SMT Lines

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- AS9100D, ISO 13485, ISO 9001
 and ITAR certified
- Future home of Product
 Development, Test Development,
 Express Prototype and NPI
 Gateway facility LEAP Product
 Realization Center



Hermosillo, Mexico

- 205,000 Square Foot Facility
- 4 SMT Lines With Capacity For 13 SMT Lines
- 200+ Employees
- Fully Integrated EMS Solutions, System Integration & Test, Forward And Reverse Logistics
- ISO 9001:2015 , ISO 13485:20162 , UI



Mexicali, Mexico

- 125,000 Square Foot Facility
- Calexico, California: Warehouse and distribution
- 520 People
- 6 SMT Lines
- ISO 9001, ISO 13485, C-TPAT, FM, UL, CSA, VDE, TUV, Ex, and IATF-16949 (TS compliant), preparedness for ISO-14000.





Milwaukee, WI

- 93,000 Square Foot Facility
- 4 SMT lines
- 300 People
- ISO 9001, ISO 13485
- FDA, CSA, CE, ITAR, TUV, UL, FM
- Our Lean Journey: 3 Black Belts,
 26 Blue Belts, 4 Green Belt,
 134 Kaizen Events, 1 Lean Sensei





Mississauga, ON, Canada

- 68,000 Square Foot Facility
- 3 SMT lines
- 280 People
- ISO 9001, ISO 13485, AS9100D
- NIST SP 800-171, FDA, CSA,
 CE, CGD, TUV, UL, FM, InMetro
- Our Lean Journey: 2 Black Belts, 1 Green Belt, 11 Blue Belts, 75 Kaizen Events, 12 Cells with Daily Kaizen



Rochester, NY

- 154,000 Square Foot Facility (Silver Hills)
- Custom Built, State-of-the-Art Facility
- 5 SMT lines
- 650 People
- IPC Class 3; IPC J-STD-001; IPC-A-610; IPC/WHMA-A-620; ISO9001; FDA Registered; ISO13485; AS9100; ITAR; NADCAP
- Combines current precision metals operation along with expanded Electronic Assembly





Rochester, NY

- 86,000k Square Foot Facility (Jet View)
- Capacity for 2 SMT Lines
- 50 People
- Combines current precision metals operation along with expanded Electronic Assembly
- ISO9001; ISO13485; FDA Registered; ITAR; AS9100



Seattle, WA

- 64,000 Square Foot Facility
- 3 SMT Lines
- 250+ Person Staff
- ISO 9001:2015:1997, ISO 13485:2016:2007, AS 9100:2012 FDA, ITAR, UI, CE





St. Peter, MN

- 50,000 Square Foot Facility, 11 Acre Lot
- 3 SMT Lines
- 230 People
- ISO 9001, ISO 13485, AS9100D
- FM, CE, ITAR, UL, CSA and ETL
- 2 Black Belts, 3 Blue Belts, Ongoing Kaizen Events and 3 Cells with Daily Kaizen



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Toronto, ON, Canada

- 77,000 Square Foot Facility
- 3 SMT lines
- 280 People
- ISO 9001, ISO 13485, ISO 14001
- CSA, CE, ITAR, TUV, UL, ETL, CGD
- Our Lean Journey: 22 Blue Belts, 3 Green Belts, 2 Black Belts, 78 Kaizen Events, 16 Cells Doing Daily Kaizen



Vancouver, BC, Canada

- 130,000 Square Foot Facility
- 6 SMT Lines
- 380 People
- ISO 9001, ISO 13485
- ATEX, CSA, CE, ITAR, TUV, UL, ETL, CGD, IECTX and FDA
- 1 Black Belt, 14 Green Belts and 1 Blue Belt, 5 Cells with Daily Kaizen, A3 methods, Cellular Manufacturing, 100+ Kaizen Events





Thank You