



MEGAFORCE



TRANSFORMING IDEAS **INTO REALITY**

2020

Megaforce Corporation
2035 O'Toole Ave
San Jose, CA 95131

Who is MEGAFORCE?



- Founded in 1994
- 80+ Employees; 37,000+ sf facility and growing
- Electronic Manufacturing Services:
 - Design & Layout
 - New Product Introduction (NPI)
 - Printed Circuit Board Assembly (PCBA)
 - Systems Integration
 - Test Solutions
 - Fulfillment / Refurbishment
 - Post Manufacturing
 - Supply Chain & Materials Management
 - Our customers: Medical, Aerospace, Military, Avionics, Industrial, Commercial, Communications
 - Cage code: 553H9



Manufacturing



Advanced PCBA Technology

- Surface Mount Technology (0201 & 01005)
- Traceability to component level
- Pin Through Hole (PTH)
- RoHS HF / Lead-Free Processing
- BGA, CSP, and PoP (Pkg-on-Pkg) (0.35mm)
- Fine Pitch Devices
- Nitrogen (N₂) Reflow (plus oversize panels)
- Selective Solder
- Wire Bonding
- Underfill
- Automated Optical Inspection (AOI) 2 ea. inline, 3 ea. offline
- 3DX and 5DX X-Ray
- Functional, Flying Probe, and ICT Testing , and Debug Analysis
- Box, and Chassis Build



Recent Equipment Additions



Nordson-Yes-Tech FX-940 AOI



Heller 2043 MK5
Nitrogen Reflow Oven



VJ Electronix: Summit Lxi
LP BGA Rework Station



SPEA 4060 Flying Probe



ViTrox V810i S2 XXL
5dx X-ray System

Equipment Highlights



- **SMT (5 lines)**
- 1 ea. Fuji NXT and 3 ea. NXT II module lines (all M3 and/or M6 Modules)
- 1 ea. Fuji AIMEX//S SMT Line max. 27" X 29.8" panel size capability
- 4 ea. DEK Horizon 03iX Screen Printers
- 2 ea. ACE Production Technologies K.I.S.S. 1031L Selective Solder Stations
- Speedline MPM Accuflex
- 3 ea. Heller 1810 MKIII 10-Zone Reflow Ovens – 1ea. Heller 2043 MKS w/ Nitrogen (N2),
- **Inspection & Rework**
- 2 ea. Nordson Yestech Inline Inspection Modules 1ea. FX 940 and 1ea. FX AOI
- 3 ea. YesTech AOI BX offline AOI Systems
- Dage 3D Ruby X-Ray, 3-D modeling capability + 1 ea. ViTrox 5 dx system
- 1 ea. AirVac DRS-25 BGA Rework Station, Plus 1 ea. DRS-27 BGA Rework System and
- 1 ea. Summit LXI BGA Rework System for large panels
- 1 ea. KOYOUNG KY 8030-3 SPI (Solder Inspection Unit)
- 1 ea. SPEA Flying 4060 S2 Flying Probe Test System
- **Wave & Wash**
- Electrovert Vectra ES (1 ea. Tin Lead, 1 ea. Lead Free/RoHS)
- AKS Typhoon Inline Wash & Chemical Wash Isolation
- **Software**
- Aegis - Manufacturing Operations
- Fuji Flexa & Fuji Trax, WIP and Parts Traceability



Megaforce Roadmap



	2013	2014	2015	2016	2017	2018	2019	2020
PCB Assembly	Fuji NXT I & II - (201 and 1005 Capabilities)							
Equipment & Capabilities	Package on Package Capabilities (POP)	NXT II M6S (Line #4)						
	10 Zone Reflow Ovens		Koh-Young 3D SPI			Heller 12 Zone N2 Oven (30")		
	Nitrogen (N2) Reflow Oven	Asymtek Underfill		Fuji Amex II's	Custom Screen Printer			Large Screen Printer
	Automated Optical Inspection Yestech B3 and BX	Dage 3D/5DX X-ray		Large Board Size (29 X 27)	Large Board Sizes	ViTrox V810i S2 XXL %Dx X-ray System		In-Line AOI
		ACE Selective Solder #1			BGA Repair-AirVac DRS27	Fuji NXT ii's New Line		
	DEK Horizon Screen Printers W/Hawkeye							
	Chemical Wash System	Yestech In-Line AOI (FX)			ACE Selective Solder #2	Large Panel BGA Rework Station		
	Tin/Lead and RoHS Manual Solder Pot				Automated X-ray Inspection (AXI)			
Test Solutions	Outsource: Detest/Texmac/Zero Defects					In - house Flying Probe SPEA		
	RF Testing & Measurement							
Facilities & Software	Aegis Software- Manufacturing Operations & WIP Tracking	7500 sf Facility Expansion			Aegis Factory Logic Upgrade			
	Fuji Flexa & Trax- SMT Line Monitoring PC/MRP- MRP Software				Fuji Trax Profiler- SMT part traceability		Nitrogen Regeneration System	
					WIP and Part Traceability		LED Lighting MFG Floor	
Certifications							Restructure Mfg Floor	
	ISO-9001:2008							
	IPC 610 class II & III Certified	ISO 13485 Medical Certification			ISI 9001:2015			
	J-Std Space Certified				ISO 13485:2016			
	ITAR Registered					AS9100		

Steps To Getting Started



- **Outline Expectations**
- **Project Costing & Planning Approval (RFQs)**
 - Documents Required
 - BOM (Excel format for easy communications)
 - Fab and Assembly Drawing(s)
 - Schematic drawings
 - Gerbers
 - XY Data / .CAD File
 - Any Special Instructions
- **First Article Build**
- **Begin Prototype / Low Volume Builds**
- **Ramp to Production Builds**
- **Include in your Info Package:**
 - Project is RoHS(No-Lead) or Leaded
 - IPC Class 2, 3 and or Flight
 - ITAR or Non-ITAR
 - Quantities to quote and Due date/ lead-time you require
 - Is testing required, what kind
 - In order to quote fabs we need a fab drawing (if not in gerber package)
 - Assembly drawing (if not in gerber package)
 - Is there any gold removal and/or tinning required on components



See Our Video:



Megaforce Corporation - Transforming Ideas into Reality

<https://www.youtube.com/watch?v=Gjys53a5fFk>



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