Innovative by nature

COSTA RICA AEROSPACE CLUSTER

Company Portfolio
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CRADLE OF TALENT
Discover the innovative mindset of Costa Rican Human Talent
PRIDE IN OUR YOUTH

Suitable, talented and resourceful, Costa Rican youth grows with the country.
COSTA RICA

Source of qualified human talent and innovation for those seeking excellence

Costa Rica meets scientific and technical capabilities along with human talent for innovation in the aerospace sector. The country gathers world-class companies offering the best quality in advanced technology in Latin America.

Costa Rica is a country with world recognized political and economic stability. Representing only a 0.03% of the territory in the world, the country stands as a leader in production processes sophistication and availability of engineers in Latin America, according to the World Economic Forum 2015-16.
We speak the language of innovation

Beyond Expectations
Costa Ricans take great pride in making history by innovating.
Warmth and wit, key business

The last decade has brought great dynamism to the aerospace industry. The return on investment generated by Costa Rican partners grew more than 40 times since year 2000. High human talent, result of a strong educational system, has become the engine responsible of more sophisticated processes in the country, increasing from 30 to 52 companies between the years 2000 and 2015.

**JOB CREATION**
2 fold job creation between years 2000 – 2015.

**EXPORT**
Nontraditional exports grew from a 33% in 1986 to 86% in 2015.

**COMPETITIVENESS**
High-tech company presence growth from 30 to 52 between 2000 – 2015.

**HIGHLY PRODUCTIVE**
1st in Availability of Engineers and Scientist in Latin America. WEF 2015-2016
Costa Rica has over 40 years of manufacturing experience, manufacturing products ranging from tires and batteries to precision machinery, molding and plastic injection, to recently, the development of a plasma rocket propulsion technology engineered by former Costa Rican Astronaut Franklin Chang.

Costa Rican companies exports more than 4,000 different products to over 150 destination countries. Activities like aeronautic software testing and development, cable and harness assembly, repair and redesign, electronic components and metallic parts manufacturing, are being executed by multinational and local companies.

Quality and tight certifications are embedded in the manufacturing processes, placing the country in 1st in High-Tech exporter of industrial products in Latin America and 5th worldwide, according to the World Development Indicators 2015, World Bank.

Furthermore, Costa Rica has over 50 years of experience in FAA/EASA approved maintenance operations for jets, helicopters, and several aircrafts. Offering a wide scope of capabilities seeded in a robust cluster. Over 720 weekly international flights, with more than 2.5 million visitors annually, and a dynamic private jet activity provide good opportunities for FBO and MRO services.
HARMONY IN THE DETAILS
Costa Rica is well known in the balance between development and environmental care.
ADDED VALUE
We increase worth to the value chain by providing reliability, diversity, flexibility and promptness.
We go beyond

Our calling to exceed expectations

Costa Rica Aerospace Cluster is a group of 20+ local companies with aerospace technological capabilities, dedicated to increase its joint participation in the industry’s global value chain. A strong alliance between the private sector and the academia is enforced by the country in order to meet the industry’s needs as well as to achieve international certifications.

Dynamism: +280 high-tech multinational companies.
+30 in the aerospace & aeronautics sector

Compliance with international certifications and best practices standards

#1 in University industry collaboration in R&D in Latin America, according the World Economic Forum 2015-16

#1 in production process sophistication and availability of engineers in Latin America, according to the World Economic Forum 2015-16
Our capabilities

- Flashers
- Sensor Interface Unit
- Switch Panels
- Electronic Breakers
- Charger
- Rudder Trimp Actuator
- EMI/RFI module
- Fuel Module
- Climate control panel
- Actuation Systems
- Switches
- Dimmers
- Window parts
- Landing Gear bushings
- Parts and Accessories
- Stringers
- Spoiler Engines
# Service matrix

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- Fulfill requirement / Service available
- O In process of fulfilling requirement
  A: VASIMR® Certification, B: Carbono Neutral Certification, C: (QSR) 21 CFR Part 820, D: 5’S Program
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IDENTITY CONNECTION
We recognize in our past our ability to change the future
PLASMA GENERATOR
Rocket I+D for swift and efficient space missions
Ad Astra Rocket Company

Address: Guanacaste, Costa Rica
Website: www.adastrarocket.com
In business since: 2006

Contact: Juan Ignacio Del Valle
Title: Operations Manager
Email: juan@adastrarocket.com

Type of Business: Specialized Engineering Services

Principle type of service of product:
- Instrumentation, data acquisition and FPGA systems
- Mechanical design, 3D CAD, CAM, FEA
- Specialty machining to aerospace standards
- Vacuum Environment design
- Cryogenics
- Magnetic field environments
- Circuit-board and electrical fabrication
- Radio-frequency electrical engineering
- High power plasma sources
- Hydrogen generation, storage and usage technology
- Renewable energy integration with hydrogen storage
- Ad Astra Rocket Company can perform computer modeling of:
  - Space trajectories (orbital mechanics)
  - Heat and fluid flow
  - RF-powered plasmas
  - Magnetic systems
  - Mechanical systems

Unique Capabilities and/or Equipment:
Ad Astra Rocket Company (AARC) is a spaceflight engineering company dedicated to the development of advanced plasma rocket propulsion technology. The company is developing the Variable Specific Impulse Magneto-plasma Rocket (VASIMR®) engine and its associated technologies. Additionally the company works on renewable energy integration with hydrogen storage.
Anodizados Internacionales S.A.

Address: Plaza Gonzales Viquez, San Jose, Costa Rica
Website: www.anodisa.com
In business since: 2008

Contact: Ronald Montero
Title: General Manager
Email: ronald@anodisa.com

Type of Business: Coatings and Finishing Process

Principle type of service of product: Anodizing

Quality System Certifications: In process ISO 9001:2015

Unique Capabilities and/or Equipment:
• Chromate conversion Type I & II
• Sulfuric Acid Anodizing Type II & III Class 1 & 2
Atemisa Precision S.A.

Address: Santa Rosa de Santo Domingo-Heredia
Website: www.atemisaprecision.com
In business since: 2006

Contact: Kelly Duarte Escalante
Title: General Manager
Email: Kelly.duarte@temisaprecision.com

Type of Business: Metalworking Industry, Precision Mechanics, focused in Medical & Aerospace industry.

Principle type of service of product: Manufacturing fixtures, prototypes, parts, serial production, tooling, grinding flat, cylindrical shapes and high precision (+/- 0.001mm)

Quality System Certifications:
- ISO 9001-2008
- ISO 14001-2004
- Carbono neutral

Unique Capabilities and/or Equipment:
- Installed capacity 200 sqm
- We have: 1 CNC lathe 2 axes, 2 CNC Machine 3 axes, 1 milling CNC, 1 Conventional Lathe, 1 grinding machine with full accessories
- Software: MasterCam lathe and milling, Solid Work.
Avionyx S.A.

Address: Building D-18, Second Floor. America Free Zone, Heredia.
Website: www.avionyx.com
In business since: 2005 (in Costa Rica)

Contact: Rafael Montero
Title: Director of Quality and Administration
Email: rmontero@avionyx.com

Type of Business: Software engineering services focused on the Aerospace industry.

Principle type of service of product: Verification and Development of software and hardware for embedded systems, following RTCA DO-178C and DO-254 standards.

Quality System Certifications: AS9100 (Certification audit April 2016).

Unique Capabilities and/or Equipment: Following a rigorous software engineering process for safety-critical airborne systems and based on strong experience in DO-178B/C certification, Avionyx can provide an array of independent software development and verification services, including:

- Requirements Definition
- Requirements Reverse Engineering
- Software Design
- Programming / coding
- Requirements Validation
- Model-based Verification and Coverage Analysis
- Structural Coverage Analysis
- Timing, Memory, Stack, Performance Analysis
- Requirements-based Software Verification
  - Analysis, Inspection
  - Black Box Testing (manual and automated)
  - White Box Testing (manual and automated)
- Static Analysis such as Code Reviews
- Unit Testing / Stress testing
Calibraciones de América
CAMÉRICA S.A.

Address: Zapote, San José.
Website: www.camericacr.com
In business since: 2001

Contact: Luis Alfonso Abarca Camacho.
Title: Business Manager
Email: labarca@camericacr.com

Type of Business: calibration of equipment measurement services, metrological asegurament consultants, training services and Metrologic Diagnostic.

Principle type of service of product: calibration of equipment measurement on electrical variables, pressure, temperature dimensional and others.


Unique Capabilities and/or Equipment:
We offer calibration of measurement equipment measurement with standards traceable to the International System of Units (SI). The calibration method used is by direct comparison of the readings set by the standards used against the readings obtained in order to calibrate. The calibrations apply the requirements of international standards like ISO 9001, ISO 14001, HACCP, and others.
Camtronics S.A.

Address: Building #50 AB Free Zone, Industrial Park. Cartago.
Website: www.camtronicscr.com
In business since: 1985

Contact: Enrique Ortiz Carazo
Title: General Manager
Email: eortizc@camtronics.com

Type of Business: Contract Manufacturer for the Aerospace, Medical, Telecom, and Industrial Sectors - (Mechanical and Electronic Applications).

Principle type of service of product:
• Surface Mount PCB Assemblies
• Pin Through-Hole PCB Assemblies
• Wire & Cable Harnesses Assemblies
• Final Assembly of Electronics and Mechanical Products
• Assembly of Electronic Medical Devices
• Assembly of Gas Arrester Mechanical Support Units
• Assembly of +18 GHz RF Cables
• Assembly of +18 GHZ RF Connectors and Attenuators
• Assembly of Sterile/Invasive Medical Devices
• Finishing of Fiber Optic Connector Housings
• Manufacture of High Temperature Thermocouple Probes
• X-Ray Inspection Services

Quality System Certifications:
• ISO 9001:2008
• ISO 13485:2003
• Currently under AS9100C certification process

Unique Capabilities and/or Equipment:
• Certified IPC Trainers per J-STD-001
• Certified IPC Trainers per IPC-A-610
• Two Class 8 Controlled Environment Rooms
• Automatic SMT Line with AOI and real time X-Ray unit.
• Trained operators for fine manual operations via microscope.
Central America Silicone Supplier

Address: Free Zone ZETA, Montecillos, Alajuela.
Website: www.casilicone.com
In business since: 2014

Contact: Jaime Mejía
Title: Administrative Manager
Email: j.mejia@casilicone.com

Type of Business: Design & Development, Tooling, prototyping for medical & other industries.

Principle type of service of product: Silicone molding, transfer molding, liquid injection molding, insert molding & overmolding


Unique Capabilities and/or Equipment:
Central American Silicone Suppliers is a global manufacturer of silicone-based products for medical devices and other applications requiring precise and predictable materials performance. CASS focuses on silicone technology and related process development. From small volume, hand-assembled products to highly automated computer-controlled manufacturing, therefore our clients are assured quality and consistency throughout every step of the process.

We provide advanced manufacturing solutions and help your products succeed by assuring their quality standards at every stage of the product life-cycle. Our capabilities include initial design, prototyping, molding design, manufacturing, assembly, packaging and life-cycle management of medical devices, products and other applications.
Coopesa R.L.

Cooperativa Autogestionaria de Servicios Aeroindustriales, R.L.
Address: 300 meters west of the Juan Santamaría International Airport, Alajuela, Costa Rica.
Website: www.coopesa.com
In business since: 1963

Contact: Rodolfo Solís
Title: Marketing and Sales Manager
Email: rsolis@coopesa.com

Type of Business: Maintenance, repair and overhaul of aircraft.

Principle type of service of product: Heavy maintenance services.

Quality System Certifications: Coopesa is an F.A.A./ EASA (EE4Y151M and EASA.145.0044) approved maintenance and most of Latinoamerica countries approvals.

Unique Capabilities and/or Equipment:
- Heavy Maintenance Services (C, D, MSG 2/3,CPCP)
- Structural Repair and Modifications
- Aging Program
- Major/Minor Repairs
- Interior Refurbishment
- Sheet Metal Repairs
- Repair / Modifications / Overhaul of Composite Flight Controls & Components
- NDT Inspection (Non Destructive Testing)
- Full Painting Capabilities
- Avionics Upgrades and Modifications
- Line Maintenance
- Pax cabin modification/LOPA
- In-Flight Entertainment (IFE) Installations
- Winglet/Scimitar installation
- Sharklets installation
- B737-300/400 cargo modifications
- Training
- Side wall panels laminated replacement

Airframe Maintenance can be performed on all of the following aircraft models:
- Airbus 318, 319, 320, 321
- Boeing 737 NG
- Boeing 737 Classic
- Boeing 757 (all series)
- Embraer 190
- MD-80
SUSTAINABLE DEVELOPMENT
Costa Rica is an ideal place to do business and grow in a sustainable balance platform.
DO Precisión

Address: Flexipark Ofibodega D-9. Lindora, Santa Ana, San José.  
Website: www.do-precision.com  
In business since: 2008

Contact: Leopoldo Diez  
Title: Business Manager  
Email: leopoldo@do-precision.com

Type of Business: Precision CNC Machine Shop

Principle type of service of product: We are an international CNC Precision Machine shop, specialized in the manufacture of precision components from a variety of metals and plastics. We do prototype and production work in the aerospace, medical and consumer products industries.

Quality System Certifications: ISO9001 (in process)

Unique Capabilities and/or Equipment:
- CNC Milling
  - Part and tool probe
  - 4th Axis Rotary
  - Rotary Broach
- CNC Turning
  - Rotary Broach
  - OD Thread Rolling
- 2 Ovens for heat treatment process
- Temperature controlled inspection
- Surface grinder
- Regular calibration of measuring tools
- Vibrating bowl for deburring

Our shop uses:
- An ERP program for material traceability and inventory control.
- A CAPA program, to constantly improve our processes, keep our machines running in optimum condition, and handle customer concerns.
- A controlled system for programs, drawings, and tools used on production parts to maintain a consistent quality.
- A wiki based document management program for part production procedures that eliminates guess work and improves setup time.
Difacom
Address: Free Zone Z, Guadalupe, Cartago, Costa Rica, building 17.
Website: www.difacomcr.com
In business since: 2014

Contact: Greivin Fallas Barrantes
Title: Business Manager
Email: gfallas@difacomcr.com

Type of Business: Design and manufacturing services focused on advanced composites materials.


Unique Capabilities and/or Equipment:
- Infusion
- RTM
- Compression Molding
- Process with Bladder.
Irazú Electronics S.A.
Address: Pozos de Santa Ana, San José, CR.
Website: www.irazue.com
In business since: 2000

Contact: Manuel Saborío T.
Title: CEO and General manager
Email: manuel@irazue.com

Type of Business: Contract Manufacturing Services.

Principle type of service of product:
• Electronic
• Electrical
• Electro-Mechanical products
• PCB Assemblies
• Cable Assemblies
• Conformal Coating
• Potting

Quality System Certifications: ISO 9001

Unique Capabilities and/or Equipment:
• IPC-A-610 Standards
• Prototypes and Small Orders
• Quick Response
• Close Relationship with customer
L-Tres Comunicaciones Costa Rica

(Subsidiary of L3 Narda-Miteq)
Address: La Aurora de Heredia, Costa Rica.
Website: http://www.nardamiteq.com/
In business since: 2001 (in Costa Rica)

Contact: Eugenio Gordienko
Title: General Manager
Email: eugenio.gordienko@l-3com.com

Type of Business: Manufacturing and test of electronic devices for telecommunications

Principle type of service of product: Terminations, coupler, switches, power dividers, amplifiers, up and down converters, safety products.


Unique Capabilities and/or Equipment:
• IPC AND J-STD-001 certified.
• 1 IPC trainer and 2 J-STD-001 trainers.
• Workmanship in accordance to IPC
• ESD controls
• Wire, ribbon and ball bonding, both manual and automatic.
• Micro assembly both manual and automatic
• Thermal shock capability
• Temperature cycle test
• Burn in capability
• Electrical test - DC to 50 GHz
• Paint process
• Gross leak test
Microfinish S.A.

Address: El Guarco, Cartago, Costa Rica
Website: www.microfinishcr.com
In business since: 1996
Contact: Victor Masis
Title: General Manager
Email: victor.masis@microfinishcr.com

Type of Business: Electroplating and surface finishing process.

Principle type of service of product:
- Chem Film, Chromate Conversion: MIL-C-5541E: Chemical Conversion Coatings on Aluminum and Aluminum Alloys: Chemfilm, Iridite, Alodine1500 Class1A, Class3.
- Anodizing: MIL-A-8625F: Chromic and Sulfuric Acid Anodizing Type I, Type II, Type III, class 1 y class 2.
- Nicotef: Electroless Nickel with Teflon per B733-90
- Electroless Nickel: per B733-90
- Zinc: Zinc Plating per ASTM B633-98
- Black Oxide: per MIL-C-13924-1 (Steel), MIL-C-13924-4 (Stainless Steel)
- DOW7, DOW17: SAE (AMS-M-3171, TypeIII-MIL-M-3171, Type III)
- Pasivate: (ASTM A967 - 05e2 Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts)
- Flash Chrome: AMS-2460 Plating Chromium.
- Chrome Plating On Plastic
- Heat Treatment
- Liquid Paint (Spray)

Quality System Certifications:
- NADCAP (in implementation): AC7004 Quality Management System, AC7108 Special Chemical Processing

Unique Capabilities and/or Equipment:
We have the following plating techniques:
- Rack Plating
- Barrel Plating
- Reel to Reel (Ability to install, process and control lines tin, nickel, gold and silver)
- Liquid Paint by Spray

Technical capabilities:
- SPC (Statistical process control)
- DOE (Design of experiments)
- Salt spray testing (Corrosion resistance)
- R&D continuous process
- Capability of installation of new process, according of the costumers requirements

Plant characteristics:
- 1200 square meters production floor
- WWT (Waste Water Treatment plant)
- 4000 square meters for grow
Oberg Costa Rica Ltda.
Address: Metro Free Zone, Barrel de Heredia, Costa Rica
Website: www.oberg.com
In business since: 2003

Contact: Rob Revaz
Title: Plant Manager
Email: Rob.Revaz@oberg.com

Type of Business: Metal working Industry: Precision Machining

Principle type of service of product: Manufacturer of high precision machined parts serving various industries (Telecom Industry; Medical Devices; Aeronautic Industries; Energy, Oil and Gas; Automotive Industries & Construction). We provide advanced machining solutions to our customer's needs. We are an ISO certified company, with high emphasis on customer service.

Quality System Certifications:
• ISO9001:2008
• ISO 13485

Unique Capabilities and/or Equipment:
• CNC Milling 3 Axis
• CNC Milling 4 Axis (Horizontal)
• CNC Lathe
• CNC Turning/Milling
• Conventional Milling
• Conventional Surface Grinding
• Jig Grinding
• Cylindrical Grinding OD-ID
• Rollomatic CNC OD Grinding
• Wet Grinding
• Optical Grinding
• Center-less Grinding
• Polishing
• Wire EDM
• Sinker EDM
• Laser marking
• CMM Inspection
• Mitutoyo contracer
• Smart Scope FOV
• Full inspection capabilities(gages .000050” and .000020” Resolution )
• (8) Micro-Hite 24”
• Gauge blocks, pins, mics, etc.
• Optical Comparators – J&L, OPG
• Heat Treatment
• Hardness tester
CONSTANT IMPROVEMENT
We rely on a highly collaborative and open academia to improve our human capital skills according to market needs.
OKAY Industries Costa Rica SRL

Address: 32B Building Z Industrial Park, Montecillos, Alajuela.
Website: www.okayind.com
In business since: 2012

Contact: Lester Zeledon Garcia
Title: Sales & Customer Service Representative
Email: lzeledon@okaycr.com

Type of Business: Contract Manufacturing Services (including machining) focused in Medical industry. Creates components and subassemblies with manufacturability in mind – for us and for your final assembly.

Principle type of service of product: Metal and plastic parts, hose bard, blade retentions, couplings, adapters, hypotubes, cannulas, etc.

Quality System Certifications: ISO 9001

Unique Capabilities and/or Equipment:
• CNC Turning and Milling
• Swiss Lathes
• Conventional Grinding
• SEDM & WEDM
• Laser Cutting, Laser Welding & Laser Marking.
• Stamping
• Heat Treatment
• Passivate
Olympic Precision Machining

Address: La Rivera de Belén, Heredia, Costa Rica
Website: www.opmachining.com
In business since: 2001

Contact: Fabio Barquero
Title: Quality Manager
Email: fbarquero@opmachining.com

Type of Business: Contract Manufacturing Services focused in Aerospace and Medical Industry.

Principal type of service of product: Metalworking Industry, Precision Machining; Coatings and Finishing Process; Sub Assemblies

Quality System Certifications:
• Nadcap AC7104
• AC7108 (in progress)

Unique Capabilities and/or Equipment:
OPM is a leading contract provider of precision CNC machining and plating services to major manufacturers for diverse industries. OPM has developed extensive expertise in machining a wide variety of metals and plastics. Our machining capabilities range from forgings and aluminum castings to titanium, inconel and stainless steel alloys. Our plating capabilities include: silver; electroless nickel; copper; anodizing; chromate; and passivation
Optyma
Operadores de Tecnología y Mantenimiento S.A
Address: Paraíso, Cartago
Website: www.optymacr.com
In business since: 2008

Contact: Carlos Quirós Valverde
Title: General Manager
Email: info@optymacr.com

Type of Business: Contract Manufacturing: machining services for different types of industries.

Principle type of service of product: manufacturing of prototypes, parts, assemblies and fixtures in different types of metal and some plastics.

Unique Capabilities and/or Equipment:
• CNC Milling
• Conventional Milling
• Conventional lathe machines
• Grinding machine
• TIG and MIG Welding
Precision Azvi S.A.

Address: San Francisco, Heredia.
Website: www.precisionazvi.com
In business since: 1999

Contact: Francisco Azofeifa Víquez
Title:
Email: info@precisionazvi.com

Type of Business: Metalworking Industry, Precision Machining.

Quality System Certifications:
• ISO 9001:2015 (in process)

Unique Capabilities and/or Equipment:
Since 1999, Precision Azvi S.A. We dedicated to the manufacture of precision components for various industries as food, automotive, energy, medical and aerospace.
Our commitment is to meet the needs of our customers by meeting their requirements, teamwork and continuous improvement in our production processes.
Tradition and experience in precision mechanics, meeting the needs of industrial sectors through technology.
ADVANCED EQUIPMENT
We build and repair mechanical components, meeting the needs of industrial sectors through technology.
PREINSA

Address: Cartago Industrial and Free Zone Park, Building B30
Website: www.preinsa.com
In business since: 2001

Contact: Rafael Ramírez
Title: General Manager
Email: info@preinsa.com

Type of Business: Machine Shop

Principle type of service of product: Fabrication and fabrication services for the manufacturing of precision parts made out of solid metals, polymers and castings including heat treatments and finishes such as paint and other electrolytic processes.


Unique Capabilities and/or Equipment:
• ISO certified Quality Management System.
• CNC 5 axis simultaneous and 3+2 milling operations.
• High speed Citizen Swiss Lathe L32 model with live tools capacity for bars up to 32 mm.
• CNC and conventional 3 axis milling operation.
• CNC and conventional turning.
• Sweeco wet grinding and sandblasting finish.
• Outsourcing of heat treatment, painting and electrolytic surface finish.
• CMM dimensional inspection, hardness test equipment and contact roughness meter.
• Preinsa operates under a special free tax and exporting zone which allows the company to offer competitive price points.
• Experienced in sectors such as automotive hose components, aeronautical parts for tools and ground support equipment, small parts for mining tools and professional broadcast, video and photographic equipment.
• Free Trade Agreements and preferential duty free market access to US, EU and Canada.
Unique Capabilities and/or Equipment:

With over 45 years of experience in coating engineering and applications, Specialty Coating Systems (SCS) is the world leader in Parylene conformal coatings and technologies. The direct descendant of the companies that originally developed Parylene, SCS leverages its expertise on every project – from initial planning to process application. SCS employs some of the world’s foremost Parylene specialists, highly experienced sales engineers and expert manufacturing personnel, working in 21 state-of-the-art coating facilities in 12 countries around the world. SCS Parylene coatings offer unmatched protection to a wide array of components and devices throughout the aerospace, automotive, electronics and medical device industries.

In addition to Parylene coatings, SCS designs and manufactures industry-leading liquid spray, dip and spin coating systems; ionic contamination test systems; and UV and thermal cure units. SCS equipment is used in environments that range from university and research labs to high-volume production facilities. For more information the world-class products and services offered by SCS, visit scscoatings.com.
Sensors Group Costa Rica

Address: Bes Free Zone, El Coyol, Alajuela
Website: www.sgcr.com
In business since: 2006

Contact: Naresh Puri
Title: General Manager
Email: npuri@sgcr.com

Type of Business: Assembly of precision electrical, electro-mechanical and electronic devices for aerospace industry

Principle type of service of product: Electric and Electronics: Electric cables and/or electric components; Specialized electric and electronic equipment

Quality System Certifications: Quality manual audited by customers

Unique Capabilities and/or Equipment:
Company offers assembly of precision electrical, electro-mechanical and electronic devices for aerospace, aircraft, energy production and extraction, process control and medical equipment.

- Industrial Temperature Probes
- RTD Insertion Capsules
- RTD Surface Capsules
- Surfaces RTDs
- Surface Thermocouples
SERPIMETAL

Address: Santo Domingo de Heredia, Costa Rica
Website: www.serpimetal.com
In business since: 2001

Contact: Carlos Retana
Title: Sales
Email: c.retana@serpimetal.com

Type of Business: Contract manufacturing

Principle type of service of product:
• Sheet Metal forming and powder coating service. All type of metal cabinets, housings and plates for electronic devices.
• Powder coating service for casting or machined parts

Quality System Certifications: ISO 9001-2008

Unique Capabilities and/or Equipment:
• CNC Punching machine
• Sheet folding machines
• Powder coating stations
Sertex, Manufactura de Precisión

Address: Free Zone BES, El Coyol Alajuela, Costa Rica (Building #1)
Website: www.sertex.co.cr
In business since: 2000

Contact: Toscano Luconi
Title: General Manager
Email: toscano@sertex.co.cr

Type of Business: Precision manufacturing services, focused in Medical, Electronic, Industrial and Aerospace Industry.

Quality System Certifications:
• ISO9001:2008
• ISO14001 (in process may-2016)
• AS9100 (in process dec-2016)
• Carbono Neutral
• Essential Costa Rica (in process jun-16)

Unique Capabilities and/or Equipment:
• CNC
• Conventional Lathes
• Conventional Milling
• Design
• Grinding
• Mill Power
• Penetration Eroding
SUCCESS DRIVEN
Engineers, metal craftsmen and project managers share a relentless drive to manufacture your success.
Taller González S.A.

Address: La Garita Alajuela, Costa Rica
Website: www.tagosa.com
In business since: 1991

Contact: Ing. Royner Gonzalez M
Title: Business Manager
Email: r.gonzalez@tagosa.com

Type of Business: Metalworking Industry (Precision Machining)

Principle type of service of product: Medical Devices; Aeronautic Industries; Energy, Oil and Gas; Automotive Industries; Construction.

Quality System Certifications:
• In process, ISO9001:2015
• Program 5 s

Unique Capabilities and/or Equipment:
Taller Gonzalez (Tagosa) manufacturing parts Precision for industry medical (Assembly Fixtures), automotive (parts molds and repair) energy production (machining parts gates, diaphragms energy geothermal), food (molds, repair and new parts of machines), electronic (assembly fixtures), and general industry. One of the parts we make are for molds, figure manufacture, inserts, injection holes blow molds, injection molds, pet.
• Machining
  • Turning CNC (miltronics ML18, Romi M420, Romi M510)
  • Milling CNC (Deckell Maho, Miltronics VM20IL, VK 20, Romi D760, Doosan MV 6030)
  • Horizontal boring mill Miltronics
• Conventional milling and turning capacity machining 80” diameter, 120” large
• Quality control Room with temperature controlled (linear height, comparator optical, other)
Techshop International S.A.

Address: San José, Costa Rica
In business since: 2000

Contact: Eric Guzowski
Title: Sales Manager
Email: eguzo@tsicr.com

Type of Business: Metalworking Industry: Precision Machining, Fabrication, Assembly


Quality System Certifications:
• ISO 9001:2008
• Short term goals of achieving both ISO 14000 and AS9100 D

Unique Capabilities and/or Equipment:
• Multi-spindle Multi-turret Mori Seiki CNC lathes
• Gundrilling up to 2” diameter x 60” length
• 4 and 5 axis milling as well as high speed and palletized milling centers.
• Wire (as fine as .005” wire) and sinking EDM (with tool changer for up to 5 tools
• Waterjet cutting capable of cutting up to 10” thick plate 4’ x 8’
• Surface grinding 48” x 36” work envelope and 8” x 16” work envelope
• Plasma cutting and material preparation equipment
• Saws up to 24” diameter
• DCC CMM Inspection with non-contact measurement capability, Nikon software.
• Gagettrak Calibration software
• Ambient controls for calibration and final inspection areas with Dickson data recorder.
**Tico Electronics**

**Address:** Free Zone BES, El Coyol Alajuela, Costa Rica  
**Website:** www.ticoelectronics.com  
**In business since:** 1995  
**Contact:** Marko Mileta  
**Title:** Business Manager  
**Email:** marko.mileta@ticoelectronics.com

**Type of Business:** Contract Manufacturing Services (including machining) focused in Aerospace and Medical industry.

**Principal type of service of product:** Motors, stators, rotors, cables & harness assemblies, mini-joysticks, PCBs, and others.

**Quality System Certifications:**
- ISO9001:2008  
- NADCAP (AQS –AC7004-)  
- AS9100 (in process –December 2015)

**Unique Capabilities and/or Equipment:**
- NADCAP Certified on TIG Welding  
- 2 Certified IPC Trainers per J-STD-001 (space addendum included)  
- Workmanship in accordance with IPC-610 and IPC/WHMA-A-620 (Class 3)  
- Crimping in accordance with NASA-STD-8739.4 and MSC-Spec-Q-1A  
- ESD Controls in accordance with ANSI/ESD-S-20.20  
- Machining  
  - CNC Turning and Milling  
  - Conventional Grinding, Honing, & Facing  
  - CMM Inspection
OUR CAPABILITIES

Our assemblies are complex and used for applications such as aircraft actuation systems and flight control.
UTITEC Medical S.A
Address: El Coyol Free Zone, Coyol, Alajuela
Website: www.utitec.com
In business since: 2005

Contact: Adolfo Ramírez Mora
Title: Sales Representative
Email: adolfo.ramirez@utitec.com

Type of Business: Critical precision components for Medical, Aerospace and Electronics Industry.

Principle type of service of product: Deep draw, Stamping and Machining

Quality System Certifications:
• ISO 9001
• ISO 13485

Unique Capabilities and/or Equipment:
• CNC Milling
• CNC Lathe
• Swiss Screw Machining
• Electrolytic Burn Free Cutting
• Laser Cutting
• WEDM Cutting
• EDM Drilling
• Passivation (Nitric & Citric)
• Electro Polishing
• Electro Chemical Etching
Companies that offer value added, quality, specialization due to their human talent.

Companies that create value for the end user through ingenuity.

Companies linked to Costa Rica through their products, services, intellectual property and human resources, among others.

Companies that achieve success in harmony with the environment and the social conditions.

Companies that strive for the wellbeing of their associates by providing opportunities to achieve professional and personal goals.

Costa Rican origin