

MEDICAL DEVICES COSTA RICA, EXPERIENCE AND TALENTED WORKFORCE FOR ADVANCED MANUFACTURING

- Costa Rica has more than 30 years of experience supplying the global medical devices industry.
- The country has evolved over the years from producing Class I to Class III medical devices including aesthetics, cardiovascular, dental, endoscopy, medication delivery systems, neuro-endovascular, neuromodulation, optics, orthopedics/sport medicine/ENT & surgical/diagnostics components.
- It's currently serving markets in America, Europe, Asia and Oceania. Costa Rica is now the second largest exporter of medical devices in Latin America and among the top 7 suppliers to the US market.
- Costa Rica has emerged as a leading location globally, outside of Europe, for MedTech investment, attracting more than 50 MedTech projects over the past ten years. The country has ranked among the top 10 best destinations for OEMs for medical devices by renown sources including the Medtech Report by Oxford Intelligence.
- Supplying the most important Medical Devices OEMs on the globe: Medtronic, Phillips, Baxter, ICU Medical, Abbott, Hologic and CooperVision.



Costa Rica, providing solutions for specialized manufacturing

Business model

- Strong cost reductions programs
- MD Contract Manufacturer facilities available (ISO class 8 certified)
- Dedicated teams and medical device shelters
- Capacity for prototyping and R&D
- Diverse and concentrated supply chain
- Nearshore hub for development



Main local capabilities:

- Assembly
- Precision Machining
- Molding
- Packaging
- Electric, Electronic Assemblies, Electronic Manufacturing Services (EMS)
- High level R&D
- Validation process expertise

Certifications

Our companies comply with highly technical and demanding certifications



Read what others are saying about Costa Rica



Costa Rica has proven to be a compelling, performance-driven location for Boston Scientific. Key drivers for our success at two major sites in Costa Rica include highly committed, multi-disciplined local talent; cross-divisional engagement; growth into R&D, process development and lab competencies; and our close working relationship with CINDE, academia, and the government of Costa Rica.

Randy Schiestl,
VP Global Technology.



In 2006, Samtec was looking to open an operation in the Americas that would balance its global supply strategy and provide better redundancy. Costa Rica's highly skilled labor force and political stability played a big part in site selection. Today, Samtec Costa Rica has over 1000 skilled people who support the company's design for new products and represent over 60% of its global software programmer's staff. They include industrial, materials, and metal mechanic engineers.

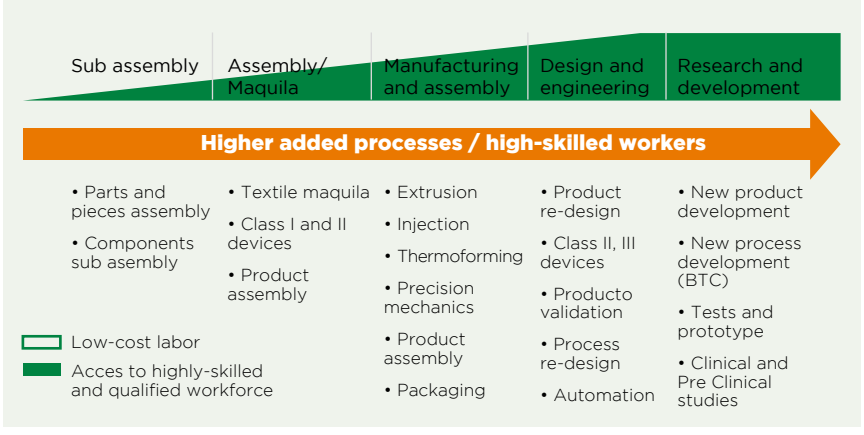


There were competitive options for Zollner to expand in Latin America, however we chose Costa Rica for its stability, educational system, manufacturing resources, and strategic location. We are excited about the potential Costa Rica has to offer.

Markus Aschenbrenner,
CEO Zollner Electronics, Inc.

The added value of our offer

- #1 country in innovation in the Latin American region. (source: WEF)
- 2nd most important medical devices exporter in Latin America.
- 6 of the 10 most important medical devices companies are established in Costa Rica.
- Supply chain from Costa Rica reaches five continents.
- Sophistication of manufacturing process in Costa Rica.



Medical devices OEMs established in Costa Rica

- DENTAL**
 - Align Technology (ALGN) - 2001
 - Smith Sterling (a Glidewell Labs Co.) - 1994
 - Viax Dental Lab. - 2004
 - SmileDirect Club - 2016
 - Implant Concierge - 2018
- CARDIOVASCULAR / VASCULAR**
 - Abbott Vascular (ABT) - 2010
 - Abbott St Jude Medical - 2010
 - Boston Scientific (BSX) - 2009
 - Cardinal Health (CAH) - 2011
 - Edwards Lifesciences (EW) - 2015
 - Medtronic - 2011
 - Theragenics (TGX) - 2014
 - Philips Healthcare - 2010
- OSTOMY**
 - Coloplast (COLOB) - 2018
- MEDICATION DELIVERY SYSTEM**
 - Baxter (BAX) - 1987
 - ICU Medical (ICU) - 1999
 - Moog Medical (MOGA) - 2009
- RADIOLOGY**
 - Bayer (BAYN) - 2012
- SURGICAL DEVICES**
 - De Royal - 1996
- NEUROMODULATION / NEUROENDOVASCULAR**
 - MicroVention-Terumo (TYO:4543) - 2011
 - Boston Scientific R&D - 2014
- OPTICS**
 - CooperVision (COO) - 2012
 - Essilor (ESLOY) - 2015
- RESPIRATORY**
 - Philips Healthcare - 2010
- AESTHETICS**
 - Allergan (AGN) - 1999
 - Establishment Labs (ESTA) - 2009
- ENDOSCOPY**
 - Apollo Endosurgery - 2014
 - Boston Scientific (BSX) - 2004
 - Horizons Intl. - 2005
- WOMEN HEALTHCARE**
 - Bayer (BAYN) - 2012
 - Hologic (HOLX) - 2004
 - CooperMedical - 2016
- ORTHOPEDICS/SPORTS MEDICINE**
 - Smith & Nephew (SNN) - 2002
 - MicroPort - 2013
 - Wright Medical (WMGI) - 2010
 - Medtronic - 2011

Source: CINDE

A wide range of capabilities available in the market

- MACHINING**
 - 2-6 axis swiss lathes
 - 3-5 axis CNC milling and turning
 - Conventional and CNC EDM and WEDM machining
 - Micro and nano machining
 - Laser machining and cutting
 - Grinding
 - Stamping
- FINISHING**
 - Mold texturing
 - Electropolishing
 - Passivation (citric/nitric)
 - Cleaning
 - Anodizing
 - Coatings
 - Plating
 - In-house heat treatment
 - Sandblasting
- MOLDS AND DIES**
 - Multi-cavity molds and dies
 - Replacement components for progressive stamping dies
 - Mold maintenance repair
 - Fixtures
- MATERIALS**
 - Aluminium
 - Stainless steel alloys
 - Titanium
 - Inconel
 - Nitinol
 - Copper
 - Cobalt chrome
 - Tungsten carbide
 - Ceramic
 - Thermoplastics
 - Engineered polymers (including Acetal, PEEK, Celcon)
- INSTRUMENTS, DEVICES AND COMPONENTS**
 - Cutting instruments
 - DNA Spotting Pins
 - Dental implants
 - Needles
 - Tubes
 - Screws
 - Spinal hooks
 - Cutting blocks and guides
 - Handled instruments
 - Cervical spine plates
 - Cannulas
 - Biopsy punches
- OTHER SERVICES**
 - Design and prototyping
 - Process validation
 - Laser and ultrasonic welding
 - Laser marking
 - Light and full assembly
 - Pad printing
 - Automation machinery
 - Testing
 - Sewing (manual and machine)
 - Packaging
 - Plastic forming
 - Sterilization
 - Wire and tube forming
 - Thermoplastic injection/insert molding

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COSTA RICA, YOUR BUSINESS ALLY!