MEDTRONIC MEXICO OVERVIEW





MEXICO OVERVIEW



Strategy for Mexico

- Continue to attract investment of global companies:
 - Aerospace
 - Medical devices
 - Bio-technology
 - Logistics
- Member of the USMCA/T-MEC



- Proximity to the US market with significant cost benefits
- Contract manufacturing expertise

Mexico Offers

- Educated workforce and highly trainable
- Excellent environment to protect IP
- All professional's bilingual and bicultural
- Cost efficient
- Stable inflation and wage increases
- 30+ years experience on medical devices
- Medical device cluster with >78 companies and 76k employees in the Baja region

MEDTRONIC IN MEXICO



- Global Shared Manufacturing Center at <u>Tijuana El Lago</u>, Mexico (since 1998)
- Global Shared Manufacturing Center at <u>Tijuana Insurgentes</u>, Mexico (since 1985)
- Global Technology Center at <u>Empalme</u>, Mexico (since 2004)
- Global Technology Center at <u>Juarez</u>, Mexico (since 1996)
- Sales office in Mexico City
- 127 million population (Emerging Market)

MDT MANUFACTURING PLANT PROFILE TIJUANA-EL LAGO



DOB: 1998

Address: Parque Industrial El Lago

Division: IV SH Shared site **Site Leader:** Miguel Rochin



Direct – 5, 577 Indirect – 749



aith Survey.

80%

Product Line / Technology

Product Lines:

- Aortic, Mitral and Pulmonary Tissue Heart Valves
- Aortic Stent Grafts
- Coronary & Peripheral Catheters
- Blood Perfusion Canisters
- Cardiac Surgery Drainage Kits
- Neurovascular Microcatheter
- Neurosurgery Drainage Kits

Technologies:

- Chemical & Steam Sterilization
- Plastic Injection Molding
- Chemical Bonding
- Bioactive coatings
- Manual sewing and assembly
- Automatic Inspection Systems
- Automatic Laser Welding Metal & Polymer
- Automatic Laser Cutting Metal
- Chemical Coating Machines
- Rotary and Static Heat Bar Sealers
- Leak & Flow Test with Air and Nitrogen



Current Fooprint: 448K ft²

- Cleanroom **164.5k ft²**
- Non-Cleanroom 207k ft²
- Warehouse 75k ft²
- CEA Space Utilization **95%**

Future Footprint: 454K ft2

- Cleanroom 171k ft2
- Non-Cleanroom 200.5k ft2
- Warehouse 75k ft2
- CEA Space Utilization **91%**

Production Transfers

- IVSH: Cryobaja, Foundation stage 2
- GSMA: Connector cap, 20MRK, Scoop Size 2.

New Product Launches with R&D:

- IVSH: Evolut FX, Janus, Poseidon, ONYX NG Frontier,
 ONYX Plus, Andreas, POBA 018, INPACT 018
- GSMA: Avalus Ultra, E-Sets



Business Systems:

- ERP (SAP),
- MES (in-house developed),
- Labeling (in-house developed Print
- on Demand system, Zebra printers)
- CM (Agile)

Sterilization:

- Sterigenics Los Angeles, CA EO
- Sterigenics Corona, CA Gamma
- Sterigenics San Diego, CA eBeam
- Midwest Jackson, MO EO
- Steris Tullamore Ireland EO / eBeam
- Avantti Tijuana Mexico eBeam
- Sterigenics Germany EO
- Steris San Diego EO
- Parter Ster Services Carson, CA, EO
- Chemical Liquid Sterilization on Site
- Moist Heat Sterilization on Site







MEDTRONIC MEXICO-EL LAGO

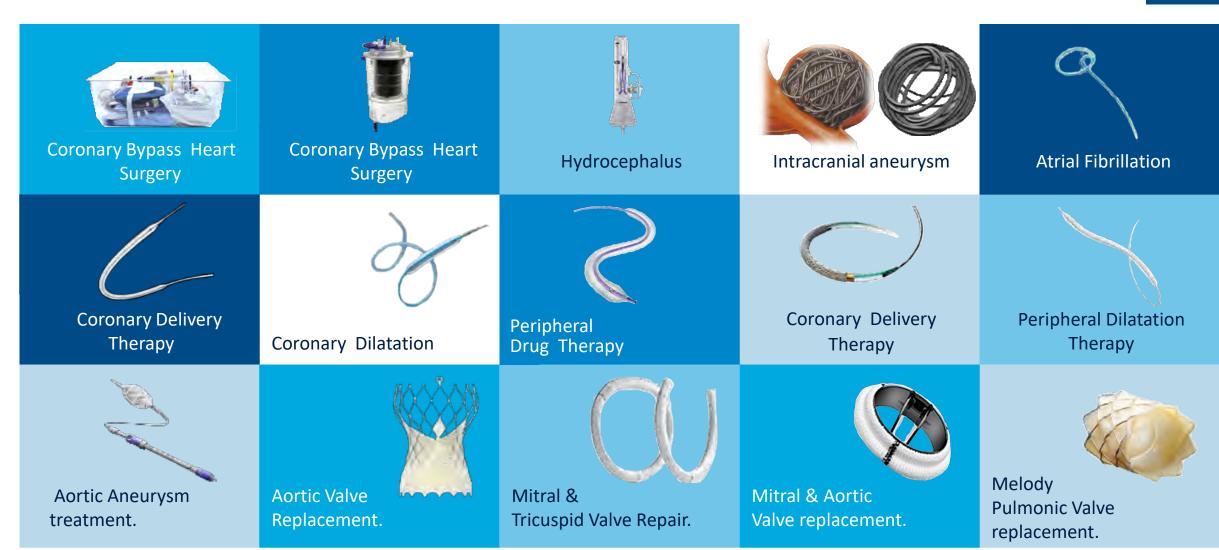
OPERATING UNITS SUPPORTED

Interventional Vascular **Active Implantables** Machined Implantables, Capital, **General Surgery &** & Structural Heart **Market Access** & Pumps and Disposables (AIP) 2% (MICD) 1% (IVSH) 85% (GSMA) 12% **Structural Heart & Aortic** Neuromodulation **Cardiac Surgery Cranial & Spinal Technologies Coronary & Renal Denervation IVSH IVSH GSMA** Coronary & Renal Structural Heart & Aortic Cardiac Surgery Neurovascular Denervation 47% IVSH 12% Neurovascul. 26% **Peripheral Vascular Health** AIP IVSH IVSH Neuromodulation Cardiac Peripheral Ablation Solutions Vascular Health **Cardiac Ablation Solutions** 4% MICD Cranial & Spinal

PRODUCTS

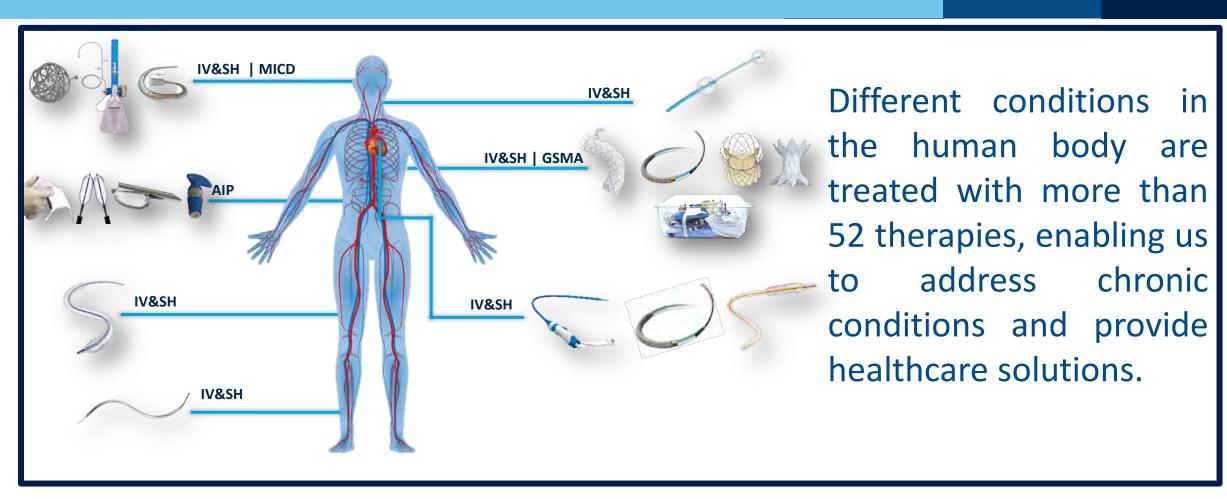
MEDTRONIC TIJUANA EL LAGO



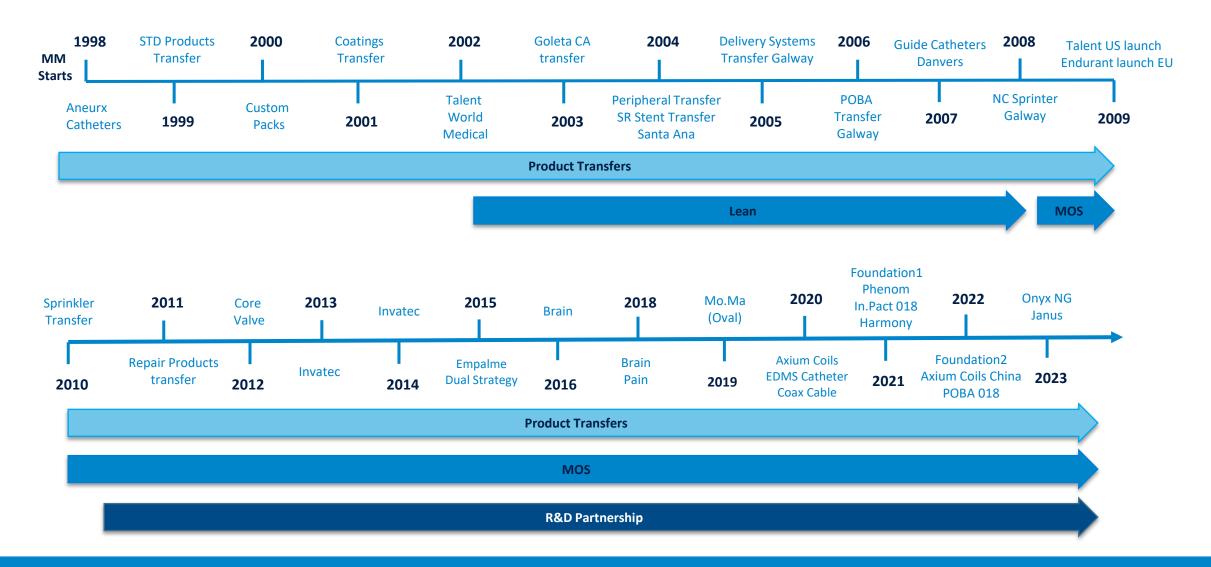


OUR THERAPIES AND SOLUTIONS SAV AND IMPROVE LIVES





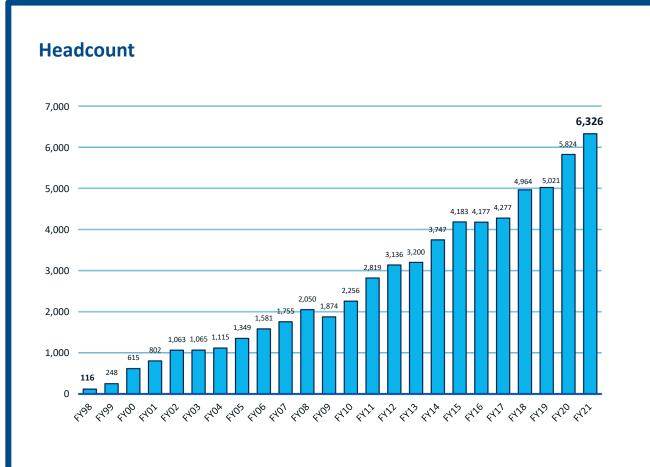
MDT MEXICO EVOLUTION



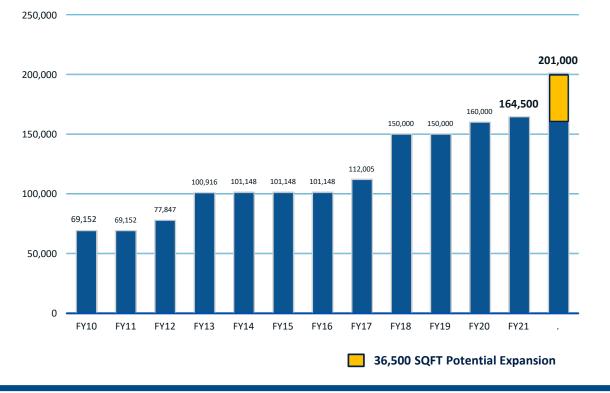
MEDTRONIC MEXICO - EL LAGO

GROWTH





Total CEA Space (ft²)



OUR EDUCATIONAL PARTNERSHIPS

CHELOR DEGREE

ERS DEGREE

■ Industrial Engineering

- Biomedical Engineering
- Nanotechnology Engineering
- Chemical Engineering
- Electromechanical Engineering
- Environmental Engineering
- Biochemical Engineering
- Aerospace Engineering
- Pharmacobiologist Chemist
- Master's Degree in Engineering
- Master's Degree in Engineering and Innovation
- Master's Degree in Design Sciences and Manufacture Processes
- Master's Degree in Biomedical Science
- Masters Degree in Bioengineering Manufacturing
- Masters Degree in Chemistry
- Masters Degree in Industrial Engineering

DOCTORATES DEGREE

- Doctorate in Engineering Sciences
- Doctorate in Chemical Sciences







del Pacífico

















COLLABORATING FOR THE BEST TALENT







Point 5 of our mission seeks to recognize the effort and promote the development of our employees. On this occasion, **Medtronic**, in collaboration with **CETYS University** and **St Cloud State University**, is proud to present the 1st generation of the Master of Engineering and Innovation of Medical Devices Specialty 2017-2019.



MEDTRONIC MEXICO OPERATIONS

STRATEGIC ROADMAP



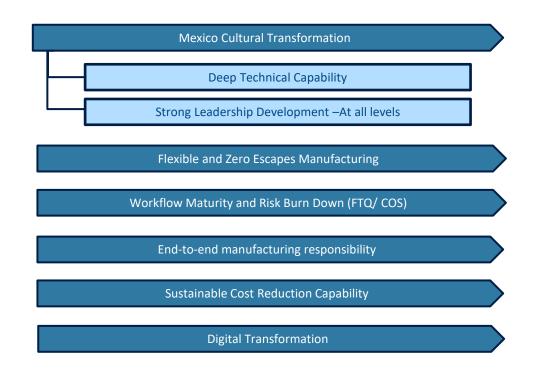


FY20 > FY21 > FY22 > FY23

ENGAGING OUR PEOPLE

SHAPING OUR PLANTS

OPTIMIZING OUR GLOBAL FOOTPRINT



How do we measure success?

- Safety
- DL Monthly Turnover
- Health survey
- Escapes
- COPE
- Product Availability
- FTQ phase I risk reduction
- Lead Time
- Cost down reduction
- Sustained Direct-to-Indirect
 Labor Ratio (DL / IDL)
- Inventory value
- Number of NPI product families moving to commercialization

FY23 Vision

Become the best manufacturing innovation center expanding MDT capabilities to save lives

Act boldly Compete to win

Move with speed and decisiveness

Foster belonging

Deliver results... the right way

MEDTRONIC MEXICO - EL LAGO KEY MESSAGES







Established in 1998

Current Space: Total = 448k ft², CEA = 164.5k ft²



Largest site

(direct headcount) in the MDT plant network



4 Buildings, 6,326 Employees

25 Product Families, **229** Workflows



High Value / Low cost

efficient manufacturing process and optimized organizational structure



Executing on growth, complexity and technical challenges while leveraging low-cost structure



13.8M Units shipped past 12 months



Progressed to Stage 3

(Strategic Partner) on Capability Maturity Model



Strong Commitment to the

Medtronic Mission

QUESTIONS

