

Biotronik: Portfolio Report



Founded in 1963, Biotronik is a multinational biomedical technology company that designs, manufactures, and markets medical devices for the treatment of cardiac arrhythmia, vascular diseases, heart failure, and coronary and peripheral artery diseases. It is headquartered in Berlin, Germany and has manufacturing sites in Germany, United States, and Switzerland. [1][2]

In its early years, the company manufactured implantable pacemakers. Later, it ventured in to developing a comprehensive spectrum of vascular intervention and electrophysiology products. Currently, Biotronik's product portfolio caters to three main segments and consists of the following:

- a. Cardio rhythm management: products such as pacemakers, electrodes, implantable defibrillators, and other monitoring and programming devices
- b. Vascular intervention: products such as coronary stent systems, guide wires, and balloon catheters
- c. Electrophysiology: products such as ablation and angioplasty catheters [1]

In addition, the company offers various solutions such as BIOTRONIK Home Monitoring, (an automatic remote monitoring system for implant patients), DX Atrial Sensing (a dual-chamber sensing device), ProMRI (includes a portfolio of cardiac devices and leads for MRI scans), and proBIO (a coating that makes metal stents biologically invisible). [2]

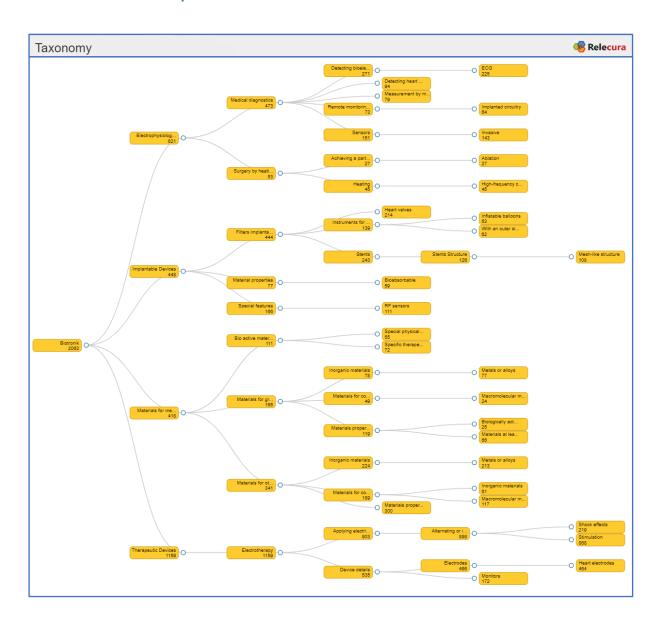
Biotronik has employees in over 50 countries, with research and development centres in North America, Europe, and Singapore. ^[1] This report takes a closer look at the patent assets held by Biotronik that are currently in force. It includes a portfolio taxonomy and provides insights into various aspects of the overall portfolio.

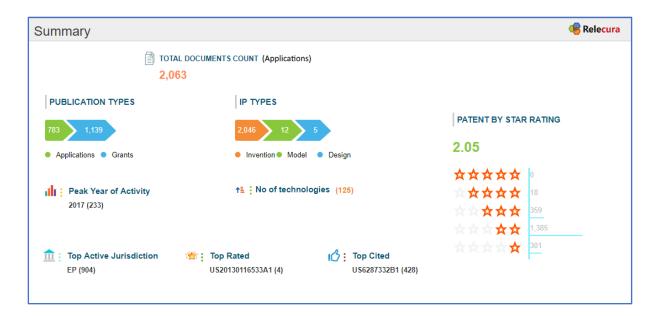
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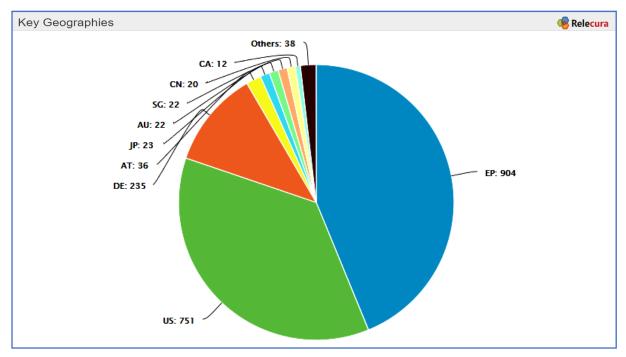
Sources

- 1. Biotronik (Wikipedia)
- 2. Biotronik Company Overview (Bloomberg)





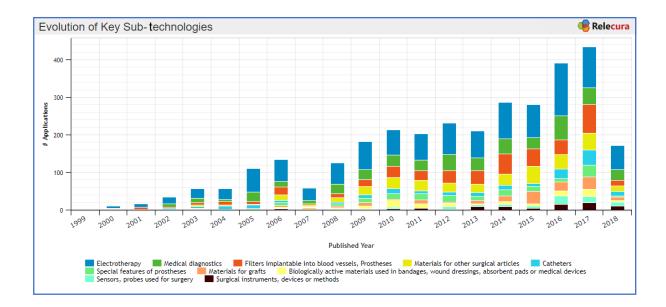


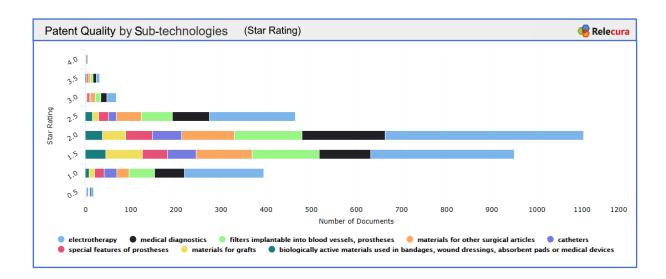


Key Technologie	s		Relecura
	Technologies	# Applications	
	Therapeutic Devices - Energy	1159	
	Diagnosis & Diagno	621	
	Implantable Devices	447	
	Sterilisation, Dressing	418	
	Drug Delivery Devices	212	
	Printed Circuits	93	
	Miscellaneous Technologies	89	
	Digital Data Processing	84	
	Electric Elements - Connectors, Collectors	80	
	Metal Alloys	75	

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Sub-Technologies	# Applications
Electrotherapy	1159
Medical diagnostics	473
Filters implantable into blood vessels, Prostheses	443
Materials for other surgical articles	341
Catheters	180
Special features of prostheses	166
Materials for grafts	165
Biologically active materials used in bandages, wound dressings, absorbent pads or medical devices	111
Sensors, probes used for surgery	87
Surgical instruments, devices or methods	85

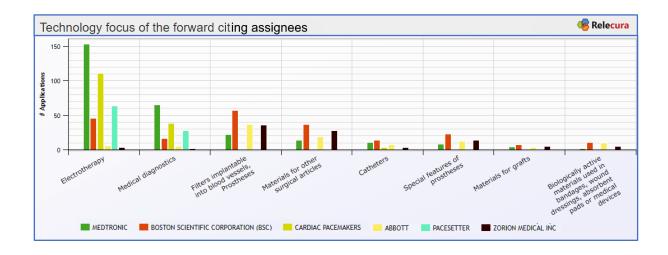
alysis of	alysis of Key Technologies						
Technologies	Applications	Grants	Sub Technologies	Geographies			
therapeutic devices - energy	366	703	electrotherapy (1159) , medical diagnostics (336) , sensors, probes used for surgery (53) , catheters (51) , electrical coupling devices (44)	EP (497) , US (455) , DE (144) , AT (28) , SG (12)			
diagnosis & surgery identification	251	333	medical diagnostics (473) , electrotherapy (394) , sensors, probes used for surgery (87) , surgical instruments, devices or methods (85) , filters implantable into blood vessels, prostheses (74)	EP (254) , US (253) , DE (77) , AT (12) , SG (7)			
implantable devices	219	211	filters implantable into blood vessels, prostheses (444), materials for other surgical articles (190), special features of prostheses (166), materials for grafts (86), catheters (79)	EP (191) , US (161) , DE (46) , JP (10) , AU (8)			
sterilisation, dressing	186	204	materials for other surgical articles (341), filters implantable into blood vessels, prostheses (217), materials for grafts (165), biologically active materials used in bandages, wound dressings, absorbent pads or medical devices (111), special features of prostheses (71)	EP (184) , US (125) , DE (33) , JP (15) , CN (11)			
drug delivery devices	96	107	catheters (181), filters implantable into blood vessels, prostheses (87), electrotherapy (70), medical diagnostics (32), special features of prostheses (26)	EP (94) , US (70) , DE (25) , JP (7) , A7 (4)			

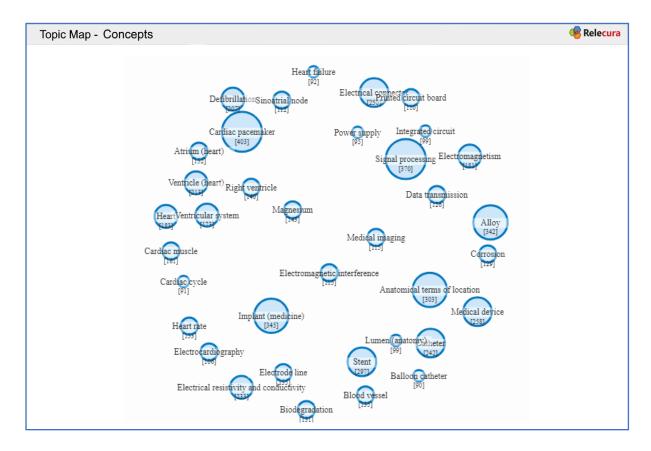






Top Forward Citing Assignees	Relecura
FC Assignees	# Applications
MEDTRONIC	197
CARDIAC PACEMAKERS	122
BOSTON SCIENTIFIC CORPORATION (BSC)	113
PACESETTER	68
ABBOTT	49
ST. JUDE MEDICAL	48
ZORION MEDICAL	44
REMON MEDICAL TECHNOLOGIES LTD	32





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