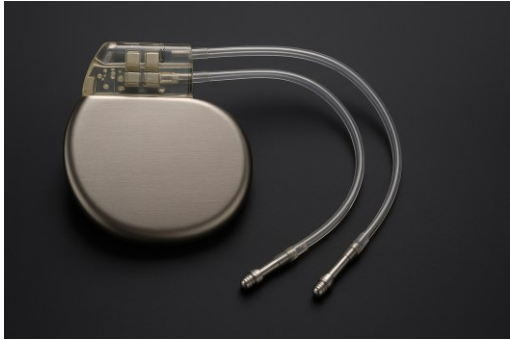




Division: Medical & Surgical Instruments

Sub Division: Implants

Type	Applications	Specification
Pacemaker 	Regulates abnormal heart rhythms (bradycardia)	Material: Titanium casing, electronic circuit, battery Placement: Subcutaneous chest area Features: Dual or single chamber, long battery life, remote monitoring
Implantable Cardioverter Defibrillator (ICD) 	Detects and corrects life-threatening arrhythmias by delivering electric shock	Material: Titanium case, insulated leads Placement: Chest wall Features: Advanced arrhythmia detection, defibrillation, pacing capability
Cardiovascular Stents 	Keeps blood vessels open in cardiovascular procedures	Material: Stainless steel or cobalt-chromium alloy Types: Bare-metal, drug-eluting Features: Flexible design, multiple sizes, minimally invasive





Heart Valves (Mechanical/Biological)



Replaces damaged heart valves

Material: Mechanical (metal), Biological (animal tissue)

Types: Aortic, mitral, tricuspid valves

Features: Durable (mechanical), biocompatible (tissue), tailored for patients

Joint Replacements (Hip, Knee, Shoulder)



Replaces worn-out or damaged joints

Material: Titanium, ceramic, polyethylene

Application: Orthopedic surgery

Features: Anatomical fit, wear-resistant, customizable sizes

Spinal Implants (Cages, Rods, Screws)



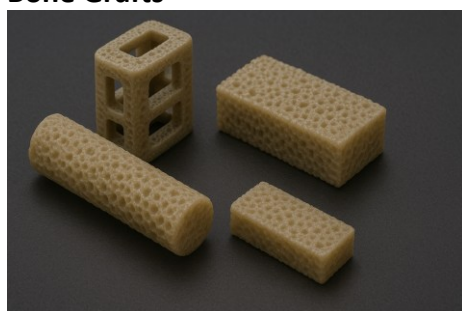
Stabilizes and aligns the spine

Material: Titanium, stainless steel, PEEK

Application: Spine fusion, scoliosis, fracture correction

Features: High strength, MRI-compatible, long-term stability

Bone Grafts



Facilitates bone healing and regeneration

Material: Allograft, autograft, synthetic

Application: Orthopedic, dental, trauma cases

Features: Osteoconductive, bioactive, ready-to-use forms



Deep Brain Stimulators (DBS)

Treats Parkinson's disease, tremors, epilepsy

Material: Neurostimulator with electrodes

Placement: Brain with implant in chest

Features: Adjustable settings, long-term effect, battery-powered

Vagus Nerve Stimulators (VNS)

Treats epilepsy, depression

Material: Pulse generator, electrode leads

Placement: Chest with wire to vagus nerve

Features: Non-destructive, programmable, outpatient procedure

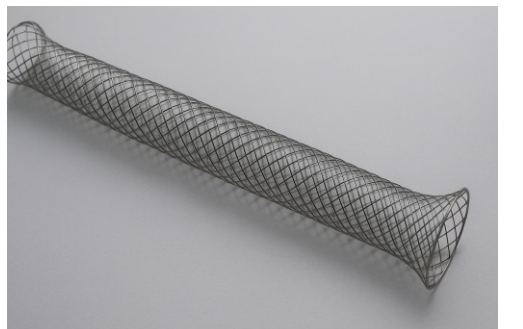
Intrathecal Drug Delivery (Pain Pumps)

Delivers medication directly to the spinal cord

Material: Titanium reservoir with catheter

Application: Chronic pain, spasticity

Features: Targeted drug delivery, low dosage, refillable

Esophageal Stents

Keeps esophagus open (tumor or stricture)

Material: Nitinol or stainless-steel mesh

Features: Self-expanding, radiopaque, various lengths



8, Khodiyar Chamber, Maheta Market, Surendranagar, Gujarat, India, 363001.

+91 90165 86186, +91 94296 44822, +91 79902 26183

marketing@asbharatglobal.com

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Endosteal Implants 	Dental prosthetic support	Material: Titanium or zirconia Application: Placed in jawbone Features: Screw- or blade-type, biocompatible, permanent
Subperiosteal Implants 	Dental support for patients with minimal bone	Material: Metal framework Application: On top of jawbone Features: Custom fit, used when bone height is insufficient
Penile Implants 	Treats erectile dysfunction	Material: Silicone, inflatable cylinders Types: Malleable, inflatable Features: Concealable, natural function feel, durable
Esophageal Bands 	Prevents bleeding from varices (esophageal veins)	Material: Elastic silicone band Application: Gastroenterology Features: Minimally invasive, endoscopically placed



Gastric Bands



Weight loss via adjustable stomach restriction

Material: Medical-grade silicone

Application: Bariatric surgery

Features: Adjustable, reversible, laparoscopic placement

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