PRODUCT PORTFOLIO
Oscor Inc. designs, develops, manufactures and markets a variety of highly specialized diagnostic devices including catheters, introducer kits, fixed-curve guide sheaths and steerable guide sheaths used to facilitate vascular access for your interventional cardiology, electrophysiology, radiology, vascular surgery, oncology and peripheral needs.

Oscor’s wide variety of product lines also include temporary external pacemakers, implantable lead adaptors, pacing accessories, custom products and more.

Oscor sells its products world-wide through a combination of direct sales efforts and authorized distributors. Oscor is also a proud supplier to the leading medical device companies on an Original Equipment Manufacturer (OEM) basis.
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The Adelante® peel away introducer system is one of the most advanced introducers available for placement of permanent pacing leads and catheters. It offers exceptional insertion, smooth lead movement, high kink resistance and exceptional peeling performance even in complex conditions.

Sheath ID Sizes: 6 F to 12.5 F
Sheath Lengths: 16, 23, 30 or 45 cm
Dilator Lengths: 19, 26, 34 or 49 cm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Sheath, dilator and accessories
- Sheath and dilator only
- Bulk non-sterile

Products not available in all regions.
ADELANTE® SAFESHEATH ULTRA LITE
Peel Away Sheath with Valve

The Adelante® SafeSheath® Ultra Lite Peel Away Introducer System, features a specially engineered valve membrane that allows for reduced forces during insertion.

Sheath ID Sizes: 5 F to 16.5 F
Sheath Lengths: 13 cm
Dilator Lengths: 18 cm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Sheath, dilator and accessories
- Sheath and dilator only
- Bulk non-sterile

*SafeSheath is a registered trademark of Pressure Products, Inc.
The Adelante® SafeSheath® II is the next generation hemostatic peel away introducer for vascular access. Featuring the latest lubricated hemostatic valve membrane that provides low insertion forces during procedures. It also includes a sideport with a 3-way stopcock for aspirating and flushing the introducer.

Sheath ID Sizes: 6 F to 12.5 F
Sheath Lengths: 13 or 23 cm
Dilator Lengths: 19.5 or 28.5 cm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Sheath, dilator and accessories

*SafeSheath is a registered trademark of Pressure Products, Inc.*
ADELANTE® SIGMA
Valved Access Sheath

The Adelante® Sigma is the next generation in vascular access sheath introducers, featuring the latest hemostatic valve technology, which allows for the introduction of small to large devices.

Sheath ID Sizes: 5 F to 11 F
Sheath Lengths: 10 or 23 cm
Dilator Lengths: 15 or 28 cm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Sheath, dilator and accessories
- Sheath, dilator and guidewire only
- Bulk non-sterile

Products not available in all regions.
ADELANTE® RADIAL

Radial Access Sheath

The Adelante® Radial introducer sheath features Oscor’s Ensilk™ hydrophilic coating for smooth insertion. Indicated for the introduction of diagnostic and therapeutic catheters, the Adelante® Radial can be used for guidewire placement, diagnostic angiography and percutaneous coronary intervention.

Sheath ID Sizes: 4 F, 5 F or 6 F
Sheath Lengths: 7, 10 or 25 cm
Dilator Lengths: 12, 15 or 30 cm
Accepts Maximum Guidewire: 0.021 in

Packaging available in:
STATER KIT:
• Sheath & Dilator

WIRE KIT:
• Sheath, Dilator and Stainless Steel Guidewire

SS KIT:
• Sheath, Dilator, Stainless Steel Guidewire, Needle and Syringe

Products not available in all regions.
The Adelante® Magnum is a hydrophilic coated hemostatic valve introducer intended to facilitate the introduction of diagnostic and therapeutic devices. Featuring Oscor’s proprietary multilayer sheath design and SureSeal™ valve technology.

Sheath ID Sizes: 16 F, 18 F, 19 F and 21 F
Sheath Lengths: 20, 30 or 35 cm
Dilator Lengths: 25, 35 or 40 cm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Sheath and dilator only
- Bulk non-sterile
GUIDING SHEATHS

ADELANTE® BREEZEWAY®
Fixed Guiding Sheath (EP)

The Adelante® Breezeway® guiding sheath is intended for the percutaneous introduction of various types of cardiovascular catheters to all chambers of the heart, including transseptal puncture. The Adelante® Breezeway® features a proprietary braided Flexsteer™ hydrophobic coated sheath and the latest SureSeal™ technology.

Sheath ID Sizes: 8 F and 10 F
Sheath Lengths: 61 or 79 cm
Dilator Lengths: 66 or 84 cm
Accepts Maximum Guidewire: 0.035 in

Packaging available in:
- Sheath and dilator only
- Bulk non-sterile

Available in different curves
(Custom curve configurations available upon request)

Products not available in all regions.
The Destino™ Twist is a steerable guiding sheath that offers a deflectable tip with an ergonomic handle. The Destino™ Twist is the ultimate tool for gaining access to the most difficult to reach sites, while maintaining hemostasis with Oscor SureSeal™ technology. The Destino™ Twist is your one sheath solution intended to facilitate the intracardiac, renal, and peripheral placements of diagnostic and therapeutic devices.

Sheath ID Sizes: 6.5 F, 7 F, 8.5 F, 12 F, 13.8 F
Sheath Lengths: 45, 55, 65, 67, 71, 73, 75 or 90 cm
Dilator Lengths: 63, 73, 83, 85, 89, 91, 93 or 108 cm
Curve Sizes: 9, 17, 22, 30, 35, 39, or 50 mm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Sheath and dilator only

Available in different curves
(Custom curve configurations available upon request)

Clear view of the distal marker band under fluoroscopy
Smooth tip to dilator transition
Advanced Flexsteer™ braided shaft technology
Hydrophobic coated sheath
Tip position indicator
Reliable SureSeal™ hemostatic valve
French size and guidewire indicator

Products not available in all regions.
GUIDING SHEATHS

DESTINO™
Bi-Directional Deflectable Guiding Sheath

The Destino™ is a next generation bi-directional steerable guiding sheath for the introduction and placement of diagnostic and therapeutic devices into the human vasculature, including but not limited to intracardiac, transseptal, and other placements.

Featuring a next generation hemostatic valve and braided FlexSteer® Shaft Technology, the Destino™ is the only available steerable sheath with true bi-directional tip deflections of 180°.

Sheath ID Sizes:  8.5 F,  10 F, and  12 F
Sheath Lengths: 61, 67 or 71 cm
Dilator Lengths: 85, 90 or 94 cm
Curve Sizes: 17, 22, or 50 mm
Accepts Maximum Guidewire: 0.038 in

Packaging available in:
- Kit with accessories
- Sheath, dilator, and guidewire set
- Sheath and dilator only

Bi-directional curve sizes

Dilator also available in 50° curve

Soft atraumatic tip, radiopaque marker band with two side holes

Advanced Flexsteer™ braided shaft technology

Hydrophobic coated sheath

Easy locking ergonomic steering handle with curve, length & french size indicator

Reliable SureSeal™ hemostatic valve

Depth markings

French size and guidewire indicator

Products not available in all regions.
**DESTINO™ REACH**

*Bi-Directional Deflectable Guiding Sheath*

The Destino™ Reach is the next generation bi-directional steerable guiding sheath, featuring improved deflection, greater support and a low profile that provides ease of access. The Destino™ Reach is the ultimate tool for gaining access to the most difficult to reach sites, while maintaining hemostasis with Oscor SureSeal™ technology. The Destino™ Reach is intended for the introduction and placement of diagnostic and therapeutic devices into the human vasculature, including but not limited to intracardiac, transseptal, and other placements.

Sheath ID Sizes: 8.5 F, 10 F, and 12 F
Sheath Lengths: 67, 71, 73, 75, or 77 cm
Dilator Lengths: 85, 89, 90, 93 or 94 cm
Curve Sizes: 17, 22, or 50 mm
Accepts Maximum Guidewire: 0.038 in

**Packaging available in:**
- Sheath and dilator only

*Products not available in all regions.*
Incorporating over 30 years experience in external pulse generator design, state of the art pacing technology, and attention to ergonomic design features. Oscor’s line of external pacemakers include single chamber, dual chamber, and the world’s first and only triple chamber devices. All Oscor external pulse generators are compatible with Oscor’s line of temporary pacing leads and connection cables.

**PACE 101H**
*Single Chamber Temporary Cardiac Pacemaker (SSI)*

**PACE 203H**
*Dual Chamber Temporary Cardiac Pacemaker (DDD)*

**PACE 300**
*Triple Chamber Temporary Cardiac Pacemaker (CRT)*

*Not available for US market*
**CONNECTION CABLES**

**ATAR™ Temporary Extension Cables**

The ATAR™ Temporary Extension Cables connect temporary pacing leads and pacing wires to external pacemakers.

**ATAR D-A (Color coded for Atrium)**
- 0.9 - 2 mm Female Pin Receptacle
- 2 mm Male Shrouded Pin

**ATAR D-V (Color coded for Ventricle)**
- 0.9 - 2 mm Female Pin Receptacle
- 2 mm Male Shrouded Pin

**ATAR D-T**
- 2 mm Male Shrouded Pin
- 2 mm Female Shrouded Pin Receptacle

**ATAR D-R**
- Covered Alligator Clip
- 2 mm Male Shrouded Pin

**ATAR D-MDT**
- 2 x 0.5 mm Female Pin Receptacle
- 2 mm Male Shrouded Pin

**ATAR D-MDT 2**
- 2 x 0.5 mm Male Pin Receptacle
- 0.9 - 2 mm Female Pin Receptacle

*Products not available in all regions.*
ADAPTORS

*Implantable Lead Adaptors and Extensions*

To fulfill every possible need between all lead connectors to pulse generator header, Oscor offers the industry’s broadest line of implantable lead adaptors and lead extensions. Oscor lead adaptors carry FDA and CE approval. Oscor also offers custom adaptor and connector configurations.

**Features:**
- Unipolar and Bipolar Adaptors
- Lead Extensions
- Bifurcated Adaptor Configurations featuring connections:
  - IS-1 (3.2 mm) Unipolar/Bipolar
  - 5 mm Unipolar
  - 6 mm Unipolar/Bipolar
  - LV-1 Unipolar/Bipolar
  - IS4 / DF4 Plug
  - Custom connections
ACCESSORIES

GENERAL PACING ACCESSORIES

From cardiovascular pacing cables and adaptors, suture sleeves, lead stylets, introducer and surgical convenience kits to custom medical components, Oscor offers complete solutions for all your pacing, cardiac surgery and interventional accessory needs.

VV-PLUG (3.2 mm)

LV-1 PLUG

IS4 / DS4 PLUG

LIGATURE SLEEVE

PY FIXATION TOOL

Products not available in all regions.
ACCESSORIES

IS4/DF4 PLUG

The IS4/DF4 plug fulfills the need to block the unused receptacle in a pacemaker/defibrillator header. The IS4/DF4 plug can be indicated for a patient with an implantable pacemaker/defibrillator that has an unused IS4/DF4 receptacle. The plug prevents the ingress of bodily fluids/blood inside the IS4/DF4 receptacle.

<table>
<thead>
<tr>
<th>Model #</th>
<th>IS4/DF4 Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>A — Overall Length</td>
<td>40 mm</td>
</tr>
<tr>
<td>B — Connector Length</td>
<td>22 mm</td>
</tr>
<tr>
<td>C — Silicone Extension Diameter</td>
<td>4 mm</td>
</tr>
<tr>
<td>D — Connector Diameter</td>
<td>3.20 mm</td>
</tr>
</tbody>
</table>

Products not available in all regions.
ACCESSORIES

VEIN PICKS

The Vein Pick is a disposable plastic accessory designed to facilitate introduction of lead, catheter or devices alike; in the event of cut-down procedure.

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**ACCESSORIES**

**VEIN PICK - SHORT**

9 mm

45 mm

**VEIN PICK - LONG**

10 mm

110 mm

Products not available in all regions.
FROM CONCEPT TO COMMERCIALIZATION

Whether you are in the early development stage or have an established product design, Oscor is here to help you bring life-enhancing therapies to market. Ranging from minimal invasive to long term implantable Class III devices, Oscor offers complete product development, contract manufacturing solutions, and a wide range of capabilities, from research, regulatory, and global distribution services.
CAPABILITIES

Oscor offers an extensive line of ready to use components and in-house capabilities to speed your product development and product manufacturing process. Our experienced product development, process engineering, quality and regulatory team are readily available to support your project, from prototyping to validated manufacturing transfer. By taking care of all critical process and components in-house, including mold and tool design, we can offer you product solutions with maximum quality, control and cost efficiency.

DEVELOPMENT
- Product Design
- Rapid Prototype
- Design Verification Testing

MOLDING
- Mold Making and Validation
- Injection Molding
- PEEK Molding
- Micromolding (<0.001g)

MACHINING
- CNC / Swiss Machining
- Centerless Grinding
- Laser Welding
- Laser Engraving
- Laser Cutting
- X Ray Testing

EXTRUSION
- Nitinol Processing and Forming
- Extrusion
- Braiding
- Tipping
- Coating

MANUFACTURING
- Cleanroom Manufacturing

PACKAGING
- Turnkey Packaging

STERILIZATION
- EtO Sterilization

REGULATORY
- Global Regulatory Consulting

GLOBAL DISTRIBUTION
- Warehousing
- Global Supply Chain Management
- Global Distribution Network
- Post Market Surveillance
PACKAGING

For over 35 years we have provided functional, sustainable and innovative packaging systems for critical applications, under controlled environments that maintain the highest regulation standards. From single batch to automated high volume, we offer protective trays, pouches, blister packs, custom kit configurations and label design services that meet your brand requirements.

Packaging Capabilities Include:

- Packaging Design
- Packaging Validation
- Packaging Shelf Life Testing
- Cleanroom Packaging
- Packaging in certified ISO 14644-1, Class 7 and Class 8 cleanrooms
- US and offshore locations
- Low and high volume

STERILIZATION

With a total of four EO sterilizers, Oscor’s state-of-the-art facilities are dedicated to sterilize even the most complex medical devices. Our team of experts will work with you to ensure maximum protection of your device, sterilization compatibility, cost-effectiveness and fast turnaround, to get your product to market.

Sterilization Capabilities Include:

- State of the art EO sterilizers utilizing 8% or 100% EO
- Low volume and high volume chamber sizes available
- Sterilization facilities located in US and Dominican Republic
- Experienced sterilization and validation team
- 24/7 customer service
- Quick turnaround
- ISO 11135 certified
GLOBAL DISTRIBUTION

Oscor has extensive knowledge and expertise in long term implantable device development, test and validation applicable to Class II and III devices. Oscor offers significant IP portfolio, stringently controlled system combined with scalable manufacturing capabilities to satisfy national to global regulatory and distribution requirements.

We provide our customers with facilities in the US and Germany dedicated to product development, prototyping and engineering, and low cost manufacturing and sterilization facilities in the US and Dominican Republic.

Our manufacturing facilities are equipped with first class equipment and dedicated clean rooms that operate according to Oscor’s quality system and incorporates customer specific guidelines.
IMPLANTABLE DEVICES

Oscor’s team has effectively support industry leading medical device companies with the commercialization of implantable devices such as:

- Cardiac pacing and defibrillation leads
- Pain management device lead and lead extension systems
- Vagal nerve stimulation leads
- Custom cuff stimulation leads
- Incontinence stimulation system
- Deep brain stimulation leads
- Implantable urology leads
- Implantable lead extensions and adaptors
- Various introducer and tunneling tools and kits
- Other Class III implantable systems and pumps

Oscor provides comprehensive product development, regulatory support and commercialization services adhering to FDA & ISO 13485 requirements. Offering a wide area of already validated components and processes, Oscor offers turnkey solutions for cost and time sensitive projects by leveraging existing validated technology including:

- Lead body configurations (Silicone, Polyurethane, Tecothane)
- Lead conductor configurations (stranded wire, coils, coated wire)
- Lead connectors (IS1, DF1, DF4, IS4, 2/4/8 polar inline, bifurcations)
- Fixation anchors, tines and screws
- Other lead components and accessories such as lead and connector bifurcations, tines, anchors, suture sleeves, O-rings, stylets, stylet grips, tunneling tools, introducers, dilators, set screws, set screw blocks, torque wrench)
CATHETER & DELIVERY SYSTEMS

Our dedicated innovation center offers technologies and equipment to form, shape, attach, reflow, package and test catheters with extensive geometric features and requirements. We offer turnkey solutions for vascular access, guiding and steering sheaths, stent delivery, drug delivery, and hemostatic valve system in sizes from 2 FR to 30 FR.

Our core capabilities in catheter development and component design include:

- Custom delivery systems
- Introducers for vascular access
- Guiding sheaths and diagnostic catheters
- Multi-lumen and multi-layer shafts
- Braid and coil reinforced shafts
- Encapsulated electronic sensors and antennas
- Steerable design and handles
- Hydrophilic and hydrophobic coatings
- Soft, atraumatic tips
- Pad Printing
- Laser welding, cutting, marking and ablating
- Insert molded components
- Luer connectors and ports