Severe coronary calcium is present in 6 to 20% of patients undergoing PCI. Diamondback 360® Coronary Orbital Atherectomy System (OAS) reduces severe calcium, enabling successful stent delivery to help optimize stent expansion and PCI outcomes.*

**DUAL MECHANISM OF ACTION**

- Bi-directional differential sanding
- Pulsatile forces

**DIFFERENTIAL SANDING**

- Intimal calcium particulate with an average size of approximately 2 µm

**PULSATILE FORCES**

- Pulsatile impact may create microfractures to modify deep calcium.

**ELECTRIC-POWERED HANDLE**

- Allows two-minute set up and provides efficient torque transfer to the shaft and crown.*

**ORBITAL DIAMOND COATED CROWN**

- A single 6F, 1.25mm crown treats vessels 2.5 to 4.0mm.®
- 2.5mm vessel access enables radial approach

**DESIGNED TO REDUCE PROCEDURAL TIME WITH 5 EASY STEPS:**

1. Enable GlideAssist Mode
2. Secure Guide Wire
3. Spin in GlideAssist Mode
4. Stop Spinning in GlideAssist Mode
5. Disable GlideAssist Mode

*Set up times may vary

*CSI data on file

**ONE-TOUCH, START BUTTON**

- Makes device power up effortless.

**CONVENIENT, TWO-SPEED CONTROLS**

- Allow for quick speed adjustments within the sterile field.

**FLEXIBLE TO THE CORE**

- .014 tip diameter • .012 core diameter
- 16.5cm grind length

**SHAPEABLE TIP**

- Shapeable floppy tip and flexible nitinol body for navigation in complex anatomy

**REduced WIRE Bias**

- Flexible nitinol body providing reduced wire bias in complex anatomy and improved kink resistance to allow for advanced vessel prep in severe calcium

**PERFORMANCE**

- Flexible nitinol body providing reduced wire bias in complex anatomy and improved kink resistance to allow for advanced vessel prep in severe calcium

- Healthy tissue safely flexes away from the crown reducing impact to the medial layer.
- Continuous blood and saline flow during orbit minimizes risk of thermal injury and slow flow/no reflow events.

**THE ORBITAL ADVANTAGE**

**NEW NITINOL CORONARY GUIDE WIRE**

**TRACKABILITY**

- Shapeable floppy tip and flexible nitinol body for navigation in complex anatomy

**2 WIRE OPTIONS:**

- VIPERWIRE ADVANCE® WITH FLEX TIP
- VIPERWIRE ADVANCE®

**INTRODUCING GLIDEASSIST®**

- GlideAssist® is the innovative solution that allows for easier tracking and removal and smoother repositioning of the device — especially in challenging anatomies.*

**INTRODUCING: VIPERWIRE Advance®**

- Coronary Guide Wire with Flex Tip

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*CSI data on file
A SPECIALIZED APPROACH FOR PAD.

Our proprietary orbital technology is designed to facilitate crown contact with 360 degrees of the vessel wall. The diamond-coated crown differentially sands away arterial calcium from atherosclerotic tissue, leveraging centrifugal force to facilitate compliance change.² while the orbital action allows continuous blood flow during treatment.²

See it at work at csi360.com.

FEWER COMPlications

Using orbital atherectomy + low pressure PTA resulted in low complications² and less bailout stents², which is especially critical for popliteal lesions.

STUDIES DEMONSTRATE OAS IS THE SMARTER SOLUTION.

Calcium 360° Study: randomized, multi-center study comparing orbital atherectomy + PTA vs. PTA alone in calcified lesions below-the-knee (BTK).²

<table>
<thead>
<tr>
<th>Description</th>
<th>Group Size</th>
<th>Event Rate</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAS + PTA</td>
<td>15</td>
<td>9.3%</td>
<td>0.006</td>
</tr>
<tr>
<td>PTA Alone</td>
<td>19</td>
<td>57.9%</td>
<td></td>
</tr>
</tbody>
</table>

STATISTICALLY SIGNIFICANT DIFFERENCE IN FREEDOM FROM MAJOR ADVERSE EVENTS (MAE) AT 12 MONTHS³

<table>
<thead>
<tr>
<th></th>
<th>OAS + PTA</th>
<th>PTA Alone</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE</td>
<td>93.3%</td>
<td>57.9%</td>
</tr>
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</table>

PERCENT OF LESIONS REQUIRING BAILOUT STENTS²

<table>
<thead>
<tr>
<th></th>
<th>OAS + PTA</th>
<th>PTA Alone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bailout stents</td>
<td>3.3%</td>
<td>27.8%</td>
</tr>
</tbody>
</table>

CHOOSE THE RIGHT DEVICE FOR THE JOB.

With a portfolio of three unique crown designs in multiple sizes and varying lengths, the Diamondback 360° Peripheral Orbital Atherectomy System is redefining minimally invasive.

PROVEN PERFORMANCE IN CALCIFIED LESIONS.

The CSI® Peripheral Orbital Atherectomy System is a percutaneous orbital atherectomy system indicated for use on therapy in patients with occlusive atherosclerotic disease in peripheral arteries and stenotic material from artificial arteriovenous dialysis fistulae. Contraindications for the system include use in coronary arteries, bypass grafts, stents, or where thrombus or dissections are present. Although the incidence of adverse events is rare, potential events that can occur with atherectomy include: pain, hypotension, CVA/TIA, death, dissection, perforation, distal embolization, thrombus formation, hematuria, abrupt or acute vessel closure, or arterial spasm.

Caution: Federal law (USA) restricts this device to sale by, or on the order of, a physician.

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For more information, please contact your local CSI representative or call 1-877-274-0901.


THE SMART SOLUTION TO TREAT YOUR PATIENTS.

Expand your PAD treatment options with multiple access solutions and low profile advantages of the revolutionary Diamondback 360° Peripheral Orbital Atherectomy device. The low profile design facilitates minimally invasive treatment options for those with peripheral artery disease.

**CROWN SIZING GUIDE**

- **1.25 mm Micro Crown**
  - **GlideAssist** Mode
  - Available on the 1.25 Micro Crown, this advanced feature enables the crown to spin at a slower speed (5k RPM), reducing friction to the system to facilitate tracking of the device, provide easier removal of the device, and allow smoother repositioning of the Viperwire Advance® during the procedure.*

- **1.25 mm Classic Crown**
- **1.75 mm Solid Crown**
- **2.00 mm Classic Crown**
- **2.00 mm Solid Crown**
- **1.75 mm Solid Crown**
- **1.50 mm Solid Crown**

- **1.25 mm Micro Crown with GlideAssist®**
- **1.50 mm Solid Crown**
- **1.25 mm Solid Crown**
- **2.00 mm Classic Crown**
- **2.00 mm Solid Crown**

- **1.25 mm Micro Crown with GlideAssist®**
- **1.50 mm Classic Crown**
- **1.25 mm Solid Crown**
- **2.00 mm Classic Crown**
- **2.00 mm Solid Crown**

- **1.25 mm Solid Crown**

**VESSEL DIAMETER RANGE:**
- **ILIAC AND COMMON FEMORAL ARTERIES**
  - VESSEL DIAMETER RANGE: 5.0–10.0 mm
- **SUPERFICIAL FEMORAL ARTERY**
  - VESSEL DIAMETER RANGE: 4.0–7.0 mm
- **POPILITEAL ARTERY**
  - VESSEL DIAMETER RANGE: 4.0–6.0 mm
- **TIBIAL AND PERONEAL ARTERIES**
  - VESSEL DIAMETER RANGE: 2.0–4.0 mm
- **DISTAL TIBIAL AND PEDAL ARTERIES**
  - VESSEL DIAMETER RANGE**: 2.0–2.5 mm

**Prime button** allows quick flushing

**Convenient controls** allow quick adjustments within the sterile field

**Easy, one-touch start button** makes device power-up effortless

**Sleek, electric-powered handle** allows two minute set-up and provides efficient torque transfer to the shaft and crown**

---

*CSI data on file.
**Set-up times may vary.
***Do not use the device in a vessel that is too small for the crown. The reference vessel diameter at the treatment area must be at least 2.00 mm in diameter for the 1.25 mm Micro Crown.
### Exchangeable Product Configurations

<table>
<thead>
<tr>
<th>Exchangeable System</th>
<th>Description</th>
<th>Crown Size</th>
<th>Cartridge Shaft Length</th>
<th>Sheath Size</th>
<th>Exchangeable Cartridge</th>
<th>Exchangeable Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Length</strong></td>
<td>Exchangeable System, 1.25 Micro, 145 cm</td>
<td>4 Fr</td>
<td>DSB-EX-125MIC145</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exchangeable System, 1.25 Solid, 145 cm</td>
<td>4 Fr</td>
<td>DSB-EX-125SOL145</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Exchangeable System, 1.50 Solid, 145 cm</td>
<td>5 Fr</td>
<td>DSB-EX-150SOL145</td>
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<td></td>
</tr>
<tr>
<td>Exchangeable System, 2.00 Solid, 145 cm</td>
<td>6 Fr</td>
<td>DSB-EX-200SOL145</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exchangeable System, 1.25 Classic, 145 cm</td>
<td>5 Fr</td>
<td>DSB-EX-125CLA145</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Short Length</strong></td>
<td>Exchangeable System, 1.25 Micro, 75 cm</td>
<td>4 Fr</td>
<td>DSB-EX-125MIC75</td>
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<td>Exchangeable System, 1.25 Solid, 75 cm</td>
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<td>DSB-EX-125SOL75</td>
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<tr>
<td><strong>Radial-Extended Length</strong></td>
<td>Exchangeable System, 1.25 Solid, 200 cm</td>
<td>5 Fr</td>
<td>DSB-EX-125SOL200</td>
<td></td>
<td></td>
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<tr>
<td>Exchangeable System, 1.50 Solid, 200 cm</td>
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<td>DSB-EX-150SOL200</td>
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<td></td>
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<tr>
<td>Exchangeable System, 1.75 Solid, 180 cm</td>
<td>5 Fr</td>
<td>DSB-EX-175SOL180</td>
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</table>

### Exchangeable Cartridges

<table>
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<tbody>
<tr>
<td>Cartridge, 1.25 Micro, 145 cm</td>
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<td>DSB-CART-125MIC75</td>
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<td>Cartridge, 1.25 Solid, 75 cm</td>
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<td>DSB-CART-125SOL75</td>
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<tr>
<td>Cartridge, 1.25 Solid, 200 cm</td>
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<td>DSB-CART-125SOL200</td>
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</tr>
<tr>
<td>Cartridge, 1.75 Solid, 180 cm</td>
<td>5 Fr</td>
<td>DSB-CART-175SOL180</td>
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**A Specialized Approach for PAD.**

A unique mechanism of action:

The Diamondback 360® Peripheral Atherectomy System, Exchangeable Series is designed with proprietary orbital technology to facilitate contact with 360 degrees of the vessel wall. The diamond-coated crown differentially sandblasts away arterial calcium from atherosclerotic tissue, leveraging centrifugal force to facilitate compliance change, while the orbital action allows continuous blood flow during treatment.

---

**OVER 50% OF PATIENTS UNDERGOING A PVI HAVE MULTI-LEVEL DISEASE.**

When faced with multi-level disease, physicians were asked how often they treat both ATK and BTK in the same procedure.

---

**DON’T COMPROMISE. OPTIMIZE PROCEDURES.**

Treat each lesion as its own using the right size crown for the right size vessel. Cartridges also come in a variety of lengths to support different access points. All possible configurations are at your fingertips.

---

GLIDEASSIST® MODE

This advanced feature enables the crown to spin at a slower speed (5K RPM), reducing friction to facilitate device tracking, provide easier device removal and allow smoother repositioning of the Viperwire Advance during the procedure.

---

VIPERWIRE ADVANCE® & VIPEWIRE ADVANCE® WITH FLEXTIP

Guide wires (0.014") designed for use specifically with CSI’s Peripheral Orbital Atherectomy System.

---

3 2017 Navigant Quantitative Research (n=251; physicians surveyed)
MULTIPLE CROWNS. ONE HANDLE.

Be prepared for whatever the case might bring. The Diamondback 360° Exchangeable Series with GlideAssist® is our most advanced device on the market for complete leg revascularization. The next gen device allows you to use multiple crowns with one handle to optimize your approach in treating multi-level disease cases. Different length options support femoral, radial or pedal access for customized procedures and patient benefits. That’s powerful. That’s progress.

CROWN SIZING GUIDE

ILIAC AND COMMON FEMORAL ARTERIES VESSEL DIAMETER RANGE: 5.0–10.0 mm

SUPERFICIAL FEMORAL ARTERY VESSEL DIAMETER RANGE: 4.0–7.0 mm

POPLITEAL ARTERY VESSEL DIAMETER RANGE: 4.0–6.0 mm

TIBIAL AND PERONEAL ARTERIES VESSEL DIAMETER RANGE: 2.0–4.0 mm

DISTAL TIBIAL AND PEDAL ARTERIES VESSEL DIAMETER RANGE: 2.0–2.5 mm

Do NOT use the device in a vessel that is too small for the crown. The reference vessel diameter at the treatment area must be at least 2.00mm in diameter for the 1.25mm micro crown.

CROWN SIZING GUIDE

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1.25 mm Solid Crown
2.00 mm Classic Crown

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