The Natural Choice
For Cervical Disc Replacement
The Natural Choice

The M6-C™ artificial cervical disc technology provides an alternative to spinal fusion and is designed to restore natural and physiologic motion. Preserving motion with the M6-C disc provides an opportunity to restore biomechanical function at the treated level after native disc removal, as well as the possibility to reduce subsequent degeneration of adjacent segments. With its innovative single piece design for ease of implantation and ability to replicate a natural disc’s motion, the M6-C artificial cervical disc is the natural choice.

**Sheath**
- Viscoelastic polymer (PCU) designed to minimize tissue in-growth and debris migration

**Artificial Nucleus**
- Viscoelastic polymer (PCU) designed to simulate native nucleus structure
- In combination with the artificial annulus, allows physiologic axial compression
- Retained between endplates by fiber annulus matrix

**Artificial Annulus**
- Ultra High Molecular Weight Polyethylene (UHMWPE) fiber matrix designed to simulate native annular structure
- In combination with the artificial nucleus, allows controlled motion in all planes and axes of rotation
- Robust fiber matrix with multiple fiber layers similar to native annulus

**Fixation**
- Titanium alloy endplates with low profile tri-fin design provides acute fixation to the superior and inferior vertebral bodies
- Titanium Plasma Spray (TPS) coating intended to promote bone growth, providing long-term stability
Quality of Motion

Quality of Motion assesses how well the motion of an implanted functional spine unit approximates the motion of a healthy one over the entire range of motion, not just its endpoints. Through biomechanical testing, a load vs. angular displacement curve ("kinematic signature") is generated that allows assessment of the Quality of Motion parameters.

Biomechanical testing with the M6-C™ artificial cervical disc has demonstrated similar Quality of Motion compared to the native disc. The innovative artificial fiber annulus and nucleus construct of the M6-C disc is the critical component in replicating this physiologic motion, as it is designed to provide the necessary restraint and control needed throughout the spine's natural range of motion.

Biomechanical results showing the M6-C cervical disc (orange) maintained total ROM (14.6) vs. the intact disc (14.4) with excellent Quality of Motion. The "kinematic signatures" of the intact disc (red) and the M6-C cervical disc are nearly identical.

*Testing on file at Orthofix-Spinal Kinetics (Sunnyvale, CA)*

Single-Level M6-C Artificial Disc Case
Surgical Instrumentation

The M6-C™ artificial cervical disc surgical instrumentation was designed with surgeon feedback for simple, safe, and reproducible implantation of the disc. Instrumentation includes trials to assess optimal disc size and placement, fin cutters to cut fin tracks for disc insertion, and inserters to easily implant the single piece M6-C disc into the intervertebral space. The M6-C trials and fin cutters feature the CAP system (Center Alignment Port) that facilitates overall alignment under fluoroscopy in both lateral and AP views to better assess M6-C disc placement.

1. Footprint template used to determine endplate coverage
2. Trials to determine the appropriate size and position
3. Fin cutters to create tracks in the superior and inferior vertebral endplates
4. Implant inserter to place the single piece M6-C disc into the desired position
5. Implanted M6-C disc Lateral View
6. Implanted M6-C disc A/P View
The M6-C artificial cervical disc allows for axial compression at the implanted level

The M6-C artificial cervical disc is the only artificial disc that mimics the anatomic structure of a natural disc by incorporating an artificial visco-elastic nucleus and fiber annulus in its design. Like a natural disc, this unique construct allows for shock absorption at the implanted level, along with a controlled range of motion in all six degrees of freedom.

The M6-C artificial cervical disc enables motion in all six degrees of freedom
To accommodate the various anatomical ranges, the M6-C artificial cervical disc is available in a variety of heights and endplate footprints.

6mm Disc Height

<table>
<thead>
<tr>
<th>Catalogue #</th>
<th>Descriptor</th>
<th>Footprint [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDM-625</td>
<td>6M - Medium</td>
<td>15 width x 12.5 depth</td>
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<tr>
<td>CDM-635L</td>
<td>6ML - Medium Long</td>
<td>15 width x 15 depth</td>
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<tr>
<td>CDL-627</td>
<td>6L - Large</td>
<td>17 width x 14 depth</td>
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<tr>
<td>CDL-637L</td>
<td>6LL - Large Long</td>
<td>17 width x 16 depth</td>
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7mm Disc Height

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<th>Descriptor</th>
<th>Footprint [mm]</th>
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<tbody>
<tr>
<td>CDM-725</td>
<td>7M - Medium</td>
<td>15 width x 12.5 depth</td>
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<tr>
<td>CDM-735L</td>
<td>7ML - Medium Long</td>
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<td>CDL-727</td>
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<tr>
<td>CDL-737L</td>
<td>7LL - Large Long</td>
<td>17 width x 16 depth</td>
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</tbody>
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Please visit [Orthofix.com/IFU](http://Orthofix.com/IFU) for full information on indications for use, contraindications, warnings, precautions, adverse reactions information and sterilization.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician. Proper surgical procedure is the responsibility of the medical professional. Operative techniques are furnished as an informative guideline. Each surgeon must evaluate the appropriateness of a technique based on his or her personal medical credentials and experience.