## ROI FOR ORTHOPEDICS

**Artec 3D scanners:** a superlative choice for custom orthotics

An orthotics & prosthetics clinic needed to reduce the time & costs required for creating custom orthoses, while making them more precise and comfortable.

### TRADITIONAL METHOD
**Manual Measurement**

- **Time:** 30 minutes for casting, 1 hour for measurement, 3 hours CAD design, 30 minutes milling and finishing.
- **Cost:** Approximate time: 5 hours.
- **Method:** Plaster casting together with tape measures and calipers, with the final drawings being created in CAD software and sent to the milling machine.
- **Level of accuracy:** Slow and messy, as well as uncomfortable for patients. High risk of inaccuracy.

### NEW METHOD
**High-speed 3D scanning with Artec Eva**

- **Time:** 3 minutes for 3D scanning, 20 minutes post-processing & CAD, 30 minutes milling and finishing.
- **Cost:** Approximate time: 1 hour = 80% time savings compared to traditional method.
- **Method:** 3D scanning patient’s feet from all sides with Artec Eva, post-processing in Artec Studio, converting to CAD, then sending to milling machine.
- **Level of accuracy:** Up to 0.1 mm 3D accuracy.

### ROI per orthosis

<table>
<thead>
<tr>
<th></th>
<th>Traditional + CAD</th>
<th>3D scanning + CAD</th>
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</thead>
<tbody>
<tr>
<td><strong>Time</strong></td>
<td>5h</td>
<td>1h (80% less time)</td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>Full cost</td>
<td>69% cheaper</td>
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</tbody>
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The clinic achieved 80% reduction in time and 69% reduction in costs using 3D scanning.