Evolve Series Handpieces

Product Brochure
LASTING PRECISION™ AG Neovo Dental handpieces are designed to deliver precise performance for longer periods of time. Unlike conventional dental handpieces, AG Neovo Dental handpieces are built to be extremely durable and to perform reliably during every dental procedure. Thanks to proprietary technology and innovative features, AG Neovo Dental is bringing a new level of lasting performance and precision to dental handpieces.

Engineered to Perform and Last
AG Neovo Dental commits to making products that provide reliability and durability, ensuring long-lasting precision over time.

Best-in-Class Innovation
With the Enduro™ Chuck at their core, Evolve Series high speeds deliver industry-leading technology and uncompromising concentricity.
Enduro™ Chuck
Brings cutting efficiency to a new level

Designed specifically to counter the commonly experienced decreases in performance and reliability in dental handpieces, the Enduro™ Chuck is a specially constructed chuck that incorporates advanced materials and a proprietary design to bring lasting durability and uncompromising concentricity to handpieces.

**Matchless Durability**
With a hardness close to a diamond, tungsten carbide is fused in the tip of the Enduro™ Chuck, protecting this vital area from wearing out quickly, thus resulting in consistently perfect turbine-bur alignment.

**Uncompromising Concentricity**
With a proprietary aperture push-button designed to withstand up to 36,000 cycles of bur attach-and-release, the Enduro™ Chuck further ensures persistent concentricity that delivers the long-lasting precision as sharp as its very first use.
Benefits at a Glance

**Push Button Chuck**
One-touch for easy bur insertion and removal

**Ceramic Ball Bearings**
Increased durability and reliability are guaranteed by ceramic ball bearings

**Quattro Water Spray**
4-nozzle water spray ensures efficient cooling and brings comfort to the entire operation

**Optic Fiber**
Preparation areas are optimally illuminated with superior visibility

**Quiet & Comfortable Operation**
Noise is reduced to the minimized level thanks to the special Enduro<sup>TM</sup> Chuck design

**Light-weighted Design**
Ergonomic yet light weight body provides ease and comfort throughout each operation

**Small Head Dimensions**
Small head-size design allows for flexible motion and optimal accessibility

- Hygiene head system with Anti-suction back function
- Highly durable and repeatedly autoclavable at up to 135°C

Remark: Features vary according to models
High Speeds
Precise • Efficient • Long Lasting

Evolve 6510
E-6510K/E-6510N
• Max. speed: 380,000 rpm
• Standard-head Ø13.5 mm
• Quattro spray (4-hold spray)
• Integrated optical fiber
• Enduro™ Chuck

Evolve 6500
E-6500K/E-6500N
• Max. speed: 380,000 rpm
• Standard-head Ø13.5 mm
• Quattro spray (4-hold spray)
• Without optical fiber
• Enduro™ Chuck

Evolve 6110
E-6110K/E-6110N
• Max. speed: 380,000 rpm
• Mini-head Ø13.0 mm
• Single spray (1-hold spray)
• Integrated optical fiber
• Enduro™ Chuck

Evolve 6100
E-6100K/E-6100N
• Max. speed: 400,000 rpm
• Mini-head Ø13.0 mm
• Single spray (1-hold spray)
• Without optical fiber
• Enduro™ Chuck

AG Neovo Dental handpieces deliver industry-leading cutting efficiency and long-lasting precision.
Low Speeds
Durable ● Reliable ● Satisfactory

Straight

Evolve 2000
• Max. Speed: 40,000 rpm (1:1 Direct-drive)
• Single spray
• Durable stainless steel body
• Mechanical locking chuck
• Thermo washer disinfectable and sterilizable

Contra-angle

Evolve 4010
• Max. Speed: 40,000 rpm (1:1 Direct-drive)
• Single spray
• Push button chuck
• Thermo washer disinfectable and sterilizable

Evolve 4000
• Max. Speed: 40,000 rpm (1:1 Direct-drive)
• Single spray
• Push button chuck
• Thermo washer disinfectable and sterilizable

Air Motors

Evolve 1110/1100
• Works with Evolve contra-angle/straight handpieces
• E-1110 integrated fiber optics
• Internal cooling system

Coupling
Stainless ● Anti-Retraction Valve

Optic
Model: CN-4010
Non-Optic
Model: CK-4000

Optic
Model: CN-4010
Non-Optic
Model: CK-4000
<table>
<thead>
<tr>
<th>Specifications</th>
<th>E-6510K</th>
<th>E-6510N</th>
<th>E-6500K</th>
<th>E-6500N</th>
<th>E-6110K</th>
<th>E-6110N</th>
<th>E-6100K</th>
<th>E-6100N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed RPM (Max.)</td>
<td>380,000</td>
<td>380,000</td>
<td>380,000</td>
<td>380,000</td>
<td>400,000</td>
<td>400,000</td>
<td>400,000</td>
<td>400,000</td>
</tr>
<tr>
<td>Dive Air Pressure</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
<td>2.3kg/cm²~2.8kg/cm²</td>
</tr>
<tr>
<td>Burs Size</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
<td>Ø1.59~1.60mm</td>
</tr>
<tr>
<td>Head Type</td>
<td>Standard head</td>
<td>Standard head</td>
<td>Standard head</td>
<td>Standard head</td>
<td>Mini head</td>
<td>Mini head</td>
<td>Mini head</td>
<td>Mini head</td>
</tr>
<tr>
<td>Diameter</td>
<td>11.2mm</td>
<td>11.2mm</td>
<td>11.2mm</td>
<td>11.2mm</td>
<td>11mm</td>
<td>11mm</td>
<td>11mm</td>
<td>11mm</td>
</tr>
<tr>
<td>Height</td>
<td>13.5mm</td>
<td>13.5mm</td>
<td>13.5mm</td>
<td>13.5mm</td>
<td>13mm</td>
<td>13mm</td>
<td>13mm</td>
<td>13mm</td>
</tr>
<tr>
<td>Cooling System Spray Hole</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Fiber Optics Yes/No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Material Bearing</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Noise Max (dBA/3)</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>50</td>
<td>47</td>
<td>41</td>
<td>49</td>
<td>49</td>
<td>41</td>
<td>41</td>
<td>48</td>
</tr>
<tr>
<td>NSK-PTL</td>
<td>KaVo-MULTIflex Lux 460LED</td>
<td>NSK-PXL</td>
<td>KaVo-MULTIflex 407</td>
<td>NSK-Mach Lite</td>
<td>KaVo-MULTIflex Lux 460LED</td>
<td>NSK-PXL</td>
<td>KaVo-MULTIflex 407</td>
<td>NSK-Mach Lite</td>
</tr>
</tbody>
</table>

All specifications are subject to change without prior notice.
### Evolve Series Handpieces

**Product Brochure**

#### Specifications E-4010 E-4000 E-2000

<table>
<thead>
<tr>
<th>Speed</th>
<th>RPM (Max.)</th>
<th>RPM (Max.)</th>
<th>RPM (Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Ratio</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Burs Size</td>
<td>Ø2.35 Latch Type Burs, Surgical Drill/TAP</td>
<td>Ø2.35 Latch Type Burs, Surgical Drill/TAP</td>
<td>Ø2.35 Latch Type Burs, Surgical Drill/TAP</td>
</tr>
<tr>
<td>Chuck Type</td>
<td>Push type</td>
<td>Push type</td>
<td>Mechanical locking chuck</td>
</tr>
<tr>
<td>Angle</td>
<td>Contra</td>
<td>Contra</td>
<td>Straight</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Spray Hole</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Fiber Optics</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Material</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>68</td>
<td>68</td>
<td>90</td>
</tr>
<tr>
<td>Connection</td>
<td>Compatible With E-1110</td>
<td>Compatible With E-1100</td>
<td>Compatible With E-1100</td>
</tr>
</tbody>
</table>

#### Specifications E-1110 E-1100

<table>
<thead>
<tr>
<th>Type</th>
<th>Air/Electric</th>
<th>Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM (Max.)</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Anti-Retraction Value</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Forward/Reverse</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Speed Adjustment</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Internal/External</td>
<td>Internal</td>
</tr>
<tr>
<td>Fiber Optics</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>45</td>
<td>71</td>
</tr>
</tbody>
</table>

#### Specifications E-1110 E-1100

<table>
<thead>
<tr>
<th>Type</th>
<th>Air/Electric</th>
<th>Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM (Max.)</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Anti-Retraction Value</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Forward/Reverse</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Speed Adjustment</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Internal/External</td>
<td>Internal</td>
</tr>
<tr>
<td>Fiber Optics</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>45</td>
<td>71</td>
</tr>
</tbody>
</table>

### Low Speeds Contra-angel/ Straight

#### Air Motors

- **CK-4010**
  - With 6-hole standard connections
  - Anti-retraction
  - Fiber optic tubing
  - Compatible with KAVO MULTIflex LUX 460LED

- **CK-4000**
  - With 6-hole standard connections
  - Anti-retraction
  - Compatible with KAVO MULTIflex 457

- **CN-4010**
  - With 6-hole standard connections
  - Anti-retraction
  - Fiber optic tubing
  - Compatible with NSK PTL

- **CN-4000**
  - With 4-hole standard connections
  - Anti-retraction
  - Compatible with NSK Mach Lite

---

All specifications are subject to change without prior notice.