Contents

Company Profiles 2

300 Series 4
QN Series 6
MN Series 8
External Low Speed Handpiece 10
Internal Low Speed Handpiece 12

Optional Spare Parts 14
Maintenance 15
Codent is a world leader in the design and production of Dental Handpieces. Our mission statement “engineered for perfect smiles” reflects our company’s aim to bridge the dentist/patient divide with the supply of quiet and efficient tools, to help achieve stress free dental practices and a comfortable patient experience.

Codent began the production of parts for High Speed Handpieces in 1985. Codent’s range of products has grown to include High and Low Speed Handpieces, cartridges and quick connectors. Codent are proud of a tradition of constant innovation and of our goal to help improve the standards of oral medicine around the world.

Codent work closely with Dentists, whose feedback and experience informs our designs. Codent team spirit ensures the best customer and after sales service.
Engineered to prevent back suction for clean and comfortable procedures.

Careful attention to Handpiece finish and ergonomics ensure comfortable, fatigue free operation over long periods.

Codent spindles include bearings produced by an industry leader and routinely achieve longer life in the field than competitors products.

<table>
<thead>
<tr>
<th>Type</th>
<th>Bearing</th>
<th>Speed</th>
<th>Burr Install</th>
<th>Cooling System</th>
<th>Weight</th>
<th>Head Size</th>
<th>Bur-holding strength</th>
<th>Connector type</th>
<th>Noise</th>
<th>Type of Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Speed Turbine</td>
<td>Ceramic Ball</td>
<td>380,000 (rpm)</td>
<td>Push Button</td>
<td>Single Spray</td>
<td>46.4 (g)</td>
<td>H:13.69(mm) Ø:12.5(mm)</td>
<td>Above 4.00(kg)</td>
<td>No quick coupling, 4 holes</td>
<td>65 dBA+/-3</td>
<td>Standard head</td>
</tr>
<tr>
<td>HPK1C4</td>
<td>High Speed Turbine</td>
<td>Ceramic Ball</td>
<td>380,000 (rpm)</td>
<td>Push Button</td>
<td>Single Spray</td>
<td>46.4 (g)</td>
<td>H:13.69(mm) Ø:12.5(mm)</td>
<td>Above 4.00(kg)</td>
<td>No quick coupling, 2 holes</td>
<td>65 dBA+/-3</td>
</tr>
<tr>
<td>HPK1C2</td>
<td>High Speed Turbine</td>
<td>Ceramic Ball</td>
<td>380,000 (rpm)</td>
<td>Push Button</td>
<td>Single Spray</td>
<td>46.4 (g)</td>
<td>H:13.69(mm) Ø:12.5(mm)</td>
<td>Above 4.00(kg)</td>
<td>No quick coupling, 2 holes</td>
<td>65 dBA+/-3</td>
</tr>
</tbody>
</table>
## QN SERIES

High Speed Handpiece compatible with NSK QD type

<table>
<thead>
<tr>
<th>Type</th>
<th>Bearing</th>
<th>Speed</th>
<th>Burr Install</th>
<th>Cooling System</th>
<th>Weight</th>
<th>Head Size</th>
<th>Bur-holding strength</th>
<th>Connector type</th>
<th>Noise</th>
<th>Type of Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPM1CQ</td>
<td>High Speed Turbine</td>
<td>Ceramic Ball</td>
<td>380,000 (rpm)</td>
<td>Push Button</td>
<td>Single Spray</td>
<td>52.7 (g)</td>
<td>H:23 (mm) Ø:11 (mm)</td>
<td>Quick connector QC2Q / QC4Q (compatible with NSK CH-QD / Pana Max QD type coupling)</td>
<td>65 dBA+/−3</td>
<td>Mini Head</td>
</tr>
<tr>
<td>HPS1CQ</td>
<td>High Speed Turbine</td>
<td>Ceramic Ball</td>
<td>350,000 (rpm)</td>
<td>Push Button</td>
<td>Single Spray</td>
<td>53.65 (g)</td>
<td>H:13.4 (mm) Ø:12.4 (mm)</td>
<td>Above 4.0 (kg)</td>
<td>65 dBA+/−3</td>
<td>Standard head</td>
</tr>
<tr>
<td>HPS3CQ</td>
<td>High Speed Turbine</td>
<td>Ceramic Ball</td>
<td>350,000 (rpm)</td>
<td>Push Button</td>
<td>Triple Spray</td>
<td>56.7 (g)</td>
<td>H:13.7 (mm) Ø:12.6 (mm)</td>
<td>Above 4.0 (kg)</td>
<td>65 dBA+/−3</td>
<td>Standard head</td>
</tr>
</tbody>
</table>

* Let's Smile Together

- Compatible with NSK QD connectors.
- Unique non-slip, easy clean design
- Ceramic Bearings, extended spindle life
- Anti back suction feature

**QN SERIES Features:**
- ISO 9001 certified
- TÜV certified
- CE marked
- FDA approved

**Let’s Smile Together**

Compatible with NSK QD connectors.
Unique non-slip, easy clean design
Ceramic Bearings, extended spindle life
Anti back suction feature

**Compatibility:**
- QN SERIES is compatible with NSK QD connectors.

**Design Features:**
- Unique non-slip, easy clean design
- Ceramic Bearings ensure extended spindle life
- Anti back suction feature

**Technical Specifications:**
- High Speed Turbine
- Ceramic Ball Bearing
- Speed: 380,000 rpm
- Push Button
- Single Spray
- Weight: 52.7g
- Head Size: H:23mm Ø:11mm
- Bur-holding strength: Above 4.0kg
- Quick connector QC2Q / QC4Q (compatible with NSK CH-QD / Pana Max QD type coupling)
- Noise: 65 dBA+/−3

**Model Comparison:**
- HPM1CQ: Single Spray, 52.7g, H:23mm Ø:11mm, Mini Head
- HPS1CQ: Single Spray, 53.65g, H:13.4mm Ø:12.4mm, Standard head
- HPS3CQ: Triple Spray, 56.7g, H:13.7mm Ø:12.6mm, Standard head
Meticulously designed durable cartridges, quiet running with strong torque and cutting force.

- Triple spray system for optimum cooling effects ensures ultimate patient comfort.
- Anti back suction feature.
- Mach-Lite type coupling for simple and quick change between handpiece models.

**MN SERIES**
High Speed Handpiece compatible with NSK Mach type

<table>
<thead>
<tr>
<th>Type</th>
<th>High Speed Turbine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing</td>
<td>Ceramic Ball</td>
</tr>
<tr>
<td>Speed</td>
<td>360,000 (rpm)</td>
</tr>
<tr>
<td>Burr Install</td>
<td>Push Button</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Triple Spray</td>
</tr>
<tr>
<td>Weight</td>
<td>57.38 (g)</td>
</tr>
<tr>
<td>Head Size</td>
<td>H:13.65 (mm) Ø:12.49 (mm)</td>
</tr>
<tr>
<td>Bur-holding strength</td>
<td>Above 4.0 (kg)</td>
</tr>
<tr>
<td>Connector type</td>
<td>Quick connector QC4M (compatible with NSK Mach-Light / Ti-Max type coupling)</td>
</tr>
<tr>
<td>Noise</td>
<td>65 dBA+/-3</td>
</tr>
<tr>
<td>Brightness</td>
<td>N/A</td>
</tr>
<tr>
<td>Type of Head</td>
<td>Standard head</td>
</tr>
</tbody>
</table>

**HPS3CM**

<table>
<thead>
<tr>
<th>Type</th>
<th>High Speed Turbine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing</td>
<td>Ceramic Ball</td>
</tr>
<tr>
<td>Speed</td>
<td>360,000 (rpm)</td>
</tr>
<tr>
<td>Burr Install</td>
<td>Push Button</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Triple Spray</td>
</tr>
<tr>
<td>Weight</td>
<td>57.65 (g)</td>
</tr>
<tr>
<td>Head Size</td>
<td>H:13.65 (mm) Ø:12.49 (mm)</td>
</tr>
<tr>
<td>Bur-holding strength</td>
<td>Above 4.0 (kg)</td>
</tr>
<tr>
<td>Connector type</td>
<td>Quick connector QC6M (compatible with NSK Mach-Light / Ti-Max type coupling)</td>
</tr>
<tr>
<td>Noise</td>
<td>65 dBA+/-3</td>
</tr>
<tr>
<td>Brightness</td>
<td>25,000 Lux</td>
</tr>
<tr>
<td>Type of Head</td>
<td>Standard head</td>
</tr>
</tbody>
</table>
• ISO-standard coupling, easy to connect with all kinds of units.
• 135°C autoclavable and thermo-disinfectable.
• Ceramic Bearings, extended spindle life.

<table>
<thead>
<tr>
<th>Type</th>
<th>Bearing</th>
<th>Burr Install</th>
<th>Cooling System</th>
<th>Weight</th>
<th>Head Size</th>
<th>Transmission</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAESA2</td>
<td>External Low Speed</td>
<td>Steel Ball</td>
<td>Switch to disconnect</td>
<td>Single Spray/External Cooling System</td>
<td>59.2g</td>
<td>N/A</td>
<td>1:1</td>
</tr>
<tr>
<td>LDEPA2</td>
<td>External Low Speed</td>
<td>Steel Ball</td>
<td>Push Type</td>
<td>Single Spray/External Cooling System</td>
<td>45.4g</td>
<td>H:14.1 (mm) Ø:9.8 (mm)</td>
<td>1:1</td>
</tr>
<tr>
<td>AE4N</td>
<td>External Low Speed</td>
<td>Air Motor</td>
<td>Two-Way Rotation</td>
<td>External System/Adjustable Water Volum</td>
<td>77.1g</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Let’s Smile Together

- Patented design ensures low vibration and quiet running of the turbine whilst retaining strong torque.
- Single spray system, optimum cooling effects.
- Stainless Steel Ball bearings by an industry leader.
- 135°C autoclavable and thermo-disinfectable.

Internal Low Speed Handpiece

**LAISA1**
- Type: Internal Low Speed Straight Handpiece
- Bearing: Steel Ball
- Burr Install: Switch to disconnect
- Cooling System: Single Spray/Internal Cooling System
- Weight: 90.2g
- Head Size: N/A
- Transmission: 1:1
- Speed: N/A

**LBIPA1**
- Type: Internal Low Speed Contra-angle Handpiece
- Bearing: Steel Ball
- Burr Install: Push Type
- Cooling System: Single Spray/Internal Cooling System
- Weight: 84.2g
- Head Size: H:14.1 (mm) Ø:9.8 (mm)
- Transmission: 1:1
- Speed: N/A

**AI4C**
- Type: Internal Low Speed Air Motor
- Bearing: N/A
- Burr Install: Two-Way Rotation
- Cooling System: Internal System/Adjustable Water Volume
- Weight: 73.3g
- Head Size: N/A
- Transmission: N/A
- Speed: 20,000rpm
Optional Spare Parts

CPSMCF
Compatible with NSK Mach-Lite XT/Mach-QD - Standard

CMMCC
Compatible with NSK Mach-Lite XT/Mach-QD - Mini

CPMQCF
Compatible with NSK ChQD - Mini

CPTQCF
Compatible with NSK Pana Air - Torque

CPTMCF
Compatible with NSK Mach-Lite XT/Mach-QD - Torque

Mach-Lite XT/CPMCC
Compatible with NSK Pana Air - Standard

Mach-QD - Mini/CPSPCF
Compatible with NSK

For Codent QN series,
Spray Nozzle(spindle)
Back cup
Bearing BR3S/BR1S
key-mini
key-standard

Bearing Remover
Compressor not included

Maintenance
High/Low Speed handpiece

Caution (The patients safety is our first priority)
1. The handpiece should only be used by certified dentists.
2. Do not use twisted, worn, damaged, or non-ISO standard burrs.
3. Do not disassemble or alter handpiece by yourself.
4. Do not drop or subject to excessive shock.
5. Make sure handpiece is operating normally before each treatment.
6. If any abnormalities, such as vibration, noise, or overheating are found, please stop using the equipment immediately and send it for repair.
7. Contact your original supplier for professional repairs

Changing the Burr
1. Inserting the burr
Press the push-button with thumb and insert the burr, then release the push-button.
Note: The burr must be inserted as far as it will go.

2. Removing the Burr
Make sure the burr stops completely first. And then press the push-button firmly with thumb, and remove the burr.

Maintenance
1. Take off the burr first, then brush off any tooth debris from the handpiece.

2. Using cleaning wire to clean the water spray hole and the air hole.

3. Spray lubricant for 1-2 seconds into the spindle hole (burr’s gateway)

4. Spray lubricant for 2-3 seconds into the lubrication port at the rear of the handpiece.

5. Connect the handpiece with the quick coupling. Be sure that the water is turned off.

6. Surround the burr housing with white gauze. Keep the gauze clear of any actual contact with the rotating burr to avoid entanglement.

7. Press the foot pedal for 20 seconds and check if there is any dirt on the gauze.

8. Repeat this step until all dirt has exited the handpiece.

9. After treatment, please sterilize handpiece at 135°C for 15 minutes.
Note: Do not immerse handpiece in disinfectant solution or water.

Air pressure
Adjust the air pressure to 2.8-3.0kg/cm2

Cleaning of fiber optic (For HPS3CML)
1. Clean the glass rod with cleaning fluid and a soft brush.
2. Dry the glass rod carefully with a cotton swab.
3. Avoid scratching the glass rod.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.

Connecting/Disconnecting the handpiece (For QN and MN Series)
1. Connecting quick coupling to the handpiece.
2. Insert the handpiece into the coupling with the connector ring pushed backward.
Note: Make sure the handpiece is tightly connected with the quick coupling
3. Disconnecting handpiece from coupling.
   Slide back the connector ring of the coupling and remove the handpiece.