Air Torx Low Speed Air Motor & TorqTech Attachments

Thinking ahead. Focused on life.
Features at a Glance

**Air Torx Low Speed Air Motor**
- Powerful torque even at a low speed
- Long working life
- Perfectly balanced, lightweight design
- Forward/reverse drive with continuous speed control
- Safe and easy double-lock connection
- Autoclavable for complete infection control
- Compatible with TorqTech and standard ISO-type attachments

**TorqTech Attachments**
- Compatible with air and electric motors
- Slim and ergonomic design
- Lightweight, reduces fatigue
- Durable chuck
- Smooth surface finish
- Efficient spray filter
- Maximum illumination
Air Torx Low Speed Air Motor
Powerful Torque Even at a Low Speed

Versatile and Powerful
Air Torx is versatile. It can be used for a wide range of tasks such as grinding of dentures, adjusting, finishing, and polishing restorations, and for tooth polishing with a prophy angle.

Air Torx offers efficient, powerful, and constant torque with operational speeds up to 20,000 rpm. It generates about twice as much torque as conventional low speed air motors in the 5,000–10,000 rpm range, as illustrated in the chart below.

Compatible with Standard ISO-Type Attachments
The Air Torx joint is compatible with TorqTech and any ISO 3964 straight attachment or geared angle attachment (without light only). The connection type to the tubing is standard 4-hole ISO 9168 Type 3* with an integrated water line.

Fluid Dynamics
Air Torx offers quiet and smooth operation and generates highly efficient torque through innovative fluid dynamics.

Forward/Reverse Drive
Offers smooth power control and allows for continuous adjustment.

Double-Lock Connection
Double-lock connection mechanism is safer and easier to use than competitors’ models.

Durable
Air Torx offers enhanced durability for a long working life. It is also autoclavable for complete infection control.

* Formerly Type C. ISO 9168 - Hose connectors for air driven dental handpieces was revised July 1, 2009. The type designation of handpiece joints was changed from letters to numbers.
TorqTech Attachments
Refined Technology for All Treatment Areas

TorqTech attachments are compact and perfectly balanced with a smooth surface finish. Ergonomically designed, they offer easy access to the treatment area and are more comfortable for both the dentist and patient. TorqTech attachments are compatible with both air and electric motors.

Handling Comparison of TorqTech and Standard Sized Head

TorqTech
The smaller head is more comfortable for patients and offers better access in the posterior region. It is especially helpful when the patient has limited opening.

Standard Sized Head
A standard sized head is generally taller and strikes opposing teeth in the treatment area. The sensation of this can be stressful and uncomfortable for patients.
Morita’s ideal handpiece is light, compact, and well-balanced. TorqTech is the latest expression of these ideals.

**Durable and Efficient**
TorqTech attachments use a new, high-precision gear system which reduces rotation noise and bur wobble. These new features make preparation of large cavities quicker and easier to accomplish.

**Sturdy Chuck and Smooth Surface Finish**
The chuck has a strong grip on the bur and is long lasting. The surface of the attachment is durable, corrosion-resistant and more resistant to wear and tear. The surface of the attachment stays clean longer and has a smooth, comfortable feel.

**Spray Filter**
The contra angle attachment is suitable for an LED light source and has a water filter to prevent clogging of the spray lines. This filter is easily removed for cleaning.

**Glass Rod Light Guide**
The glass rod light guide minimizes loss of light intensity and is autoclavable.

**LS Spray**
The newly developed LS Spray oil for TorqTech attachments optimizes performance and enables the unit to withstand greater loads.
## Specifications

### Air Torx Low Speed Air Motor

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Air Torx</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
<td>TRA-200</td>
</tr>
<tr>
<td>Rotation Speed</td>
<td>0 – 20,000 rpm</td>
</tr>
<tr>
<td>Length (motor section)</td>
<td>63 mm</td>
</tr>
<tr>
<td>Diameter</td>
<td>21 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 68 g (2.40 oz.)</td>
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</tbody>
</table>

### TorqTech Geared Straight and Contra Angle Attachments

<table>
<thead>
<tr>
<th>Product Name</th>
<th>TorqTech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>CA-5IF-O CA-DC-O CA-DC ST-DH</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>1:5 Speed Up 1:1 1:1 1:1</td>
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<tr>
<td>Maximum Motor Speed</td>
<td>40,000 rpm</td>
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<tr>
<td>Total Length</td>
<td>94 mm 94 mm 94 mm 84 mm</td>
</tr>
<tr>
<td>Head Height</td>
<td>14.0 mm 13.3 mm 13.3 mm -</td>
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<tr>
<td>Head Diameter</td>
<td>9.5 mm 9.5 mm 9.5 mm -</td>
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<tr>
<td>Weight</td>
<td>68 g (2.40 oz.) 67 g (2.36 oz.) 67 g (2.36 oz.) 72 g (2.53 oz.)</td>
</tr>
<tr>
<td>Glass Rod Light Guide</td>
<td>Yes Yes - -</td>
</tr>
<tr>
<td>Ion Plating Treatment</td>
<td>Yes Yes Yes Yes</td>
</tr>
<tr>
<td>Spray Holes</td>
<td>3 1 1 1</td>
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<tr>
<td>Spray Filter</td>
<td>Yes Yes - -</td>
</tr>
<tr>
<td>Chuck</td>
<td>Push Button Push Button Push Button Mechanical Lock</td>
</tr>
<tr>
<td>Acceptable Burs (ISO 1791)</td>
<td>Shaft Type 3 (FG) Shaft Type 1 (CA) Shaft Type 1 (CA) Shaft Type 2 (HP)</td>
</tr>
<tr>
<td>Connections</td>
<td>ISO 11498 and ISO 3964 connections</td>
</tr>
</tbody>
</table>

### Ordering Information

- **Air Torx Low Speed Air Motor (TRA-200)**: 16-5350611
- **TorqTech 1:5 Speed Up Contra Angle (CA-5IF-O)**: 16-5352975
- **TorqTech 1:1 Contra Angle (CA-DC-O) (with light)**: 16-5352959
- **TorqTech 1:1 Contra Angle (CA-DC) (without light)**: 16-5352967
- **TorqTech 1:1 Straight (ST-DH)**: 16-5352940

Air Torx Unit Includes:
- Air Motor and Spray Nozzle

TorqTech Units Include:
- Contra Angle or Straight Attachment, Spray Nozzle and Spray Hole Wire.
- TorqTech 1:5 (CA-5IF-O) also includes Chuck Grip Tester.

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**Note:** Please read the Instructions for Use and all safety precautions included in packaging before using instruments.
Thinking ahead. Focused on life.

In 1916, Junichi Morita started to import products of the leading dental equipment manufacturers into Japan, where demands for modern dentistry were growing. His venturesome attempts of supplying selected products for oral healthcare has grown steadily by receiving valuable support and guidance from the dental profession. His enterprising spirit lives through the decades, and all Morita Group Companies join in continuing to pursue marketing, distribution and services, as well as R&D and manufacturing, in collaboration with world leaders in healthcare products and research organizations.