Nitanium® Palatal Expander™
Multi-Purpose Finishing Appliance
The easy-to-use Nitianium Palatal Expander² Appliance takes expansion a step beyond.

This extraordinary expansion appliance has the capacity to Rotate, Upright, Distalize, and Expand in the anterior and posterior arch with gentle, biocompatible force. A continuous pre-programmed light-force appliance that corrects the molar rotations while expanding the arch at the same time, it provides a simultaneous skeletal and dento-alveolar expansion.

The Nitianium Palatal Expander² Appliance’s action is the result of transition temperature and shape memory. Warmth within the patient’s mouth activates movement in the thermal nickel titanium energy wire toward the appliance’s pre-programmed shape. This produces the desired expansion in unison with tooth movement. Once the exact correction is achieved, the appliance stops expanding and lies passive. A light, slow, continuous force system has been shown to be associated with a more physiological adjustment, neuromuscular stability, and less relapse potential. In addition, repair keeps up with expansion. Expansion is usually completed in 2 to 4 months and retention is usually 2 to 3 months.
Key Features

- **Slower expansion**, which allows the suture to reposition and regenerate, has been shown to lower incidents of relapse*
- **Addresses** the sagittal, lateral, and vertical relationships
- **Thermally-activated Nitanium** for total control eliminating patient compliance, and creating better patient acceptance
- **May be used** with mixed and early dentition
- **Ease of placement** and removal by the doctor
- **Ortholoy arms and loops** provide adjustability for fine-tuning and finishing
- **No laboratory work is required** – available in 10 sizes

Indication

- Molar, premolar, and cuspid expander
- Molar rotator
- Molar distalization
- Constrictor
- Anti-thumb
- Molar intruder
- Retainer
- Anchorage
- Control the vertical growth of the molars
- Control the vertical dimension
- Molar constriction
- Bite-opening
Auxiliary Products

The Nitanium Palatal Expander²Appliance easily slips into any of the following weldable lingual sheaths. Individual band kits are available with a welded lingual sheath and buccal tube.

**971-032**
.036 slotted, horizontal, latching indent. Fits left or right. (10 per pack)

**UR/LL • 971-036**
**UL/LR • 971-037**
.036 horizontal hook, slotted, latching indent. (10 per pack)

**UR/LL • 971-034**
**UL/LR • 971-035**
.036 slotted, horizontal, latching indent hook. (10 per pack)

**UR/LL • 971-038**
**UL/LR • 971-039**
.036 vertical hooks. (10 per pack)

**INDIVIDUAL EXPANDERS ***, ***(1 PER PACK)**

<table>
<thead>
<tr>
<th>SIZING</th>
<th>PART NUMBER</th>
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<tbody>
<tr>
<td>26 mm Expander</td>
<td>101-761</td>
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<tr>
<td>28 mm Expander</td>
<td>101-762</td>
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<tr>
<td>30 mm Expander</td>
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<td>32 mm Expander</td>
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<tr>
<td>44 mm Expander</td>
<td>101-770</td>
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</tbody>
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* Ground shipment recommended - This product is classified as hazardous material as per the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration. Extra shipping charges may apply.

** For easy identification, each expander has size numbers permanently stamped on the assembly.

*** Expanders are for single-use only.

Full Range Kit • 101-760
• 1 expander of each of the following 10 sizes: 26 mm, 28 mm, 30 mm, 32 mm, 34 mm, 36 mm, 38 mm, 40 mm, 42 mm, and 44 mm
• 1 can of Ortho Freez (10 oz)’
• 1 acrylic storage holder
• Instruction manual

Mid-Range Kit • 101-760M
• 1 expander of each of the following 5 sizes: 32 mm, 34 mm, 36 mm, 38 mm, and 40 mm
• 1 can of Ortho Freez (10 oz)’
• 1 acrylic storage holder
• Instruction manual

Individual Components
• Ortho Freez (10 oz can)’ • 100-788
• Expander Adjustment Plier • 200-450

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