<Warnings>
1. Only skilled dentists are allowed to use.
2. Be sure to sterilize this product for each use.
3. Do not use this product except for the dental service and treatment. Use it in accordance with the intended use.

<Contraindications and prohibitions>
1. Do not use this product for a patient who indicates sensitization and allergic reaction.
2. Do not use if damaged or contaminated.

<Structures and principals>
1. MANI NRT FILES are the nickel titanium alloy and stainless steel files with stainless steel shank. It is non-sterile instrument.
2. MANI NRT FILES(Nickel Titanium Alloy) 
   - Shank: Stainless steel (Contains Nickel, Chrome and 24 Gold) : Aluminums
   - Blade: Stainless steel (Contains Nickel and Chrome) : Aluminums
   - Blade: Stainless steel (Contains Nickel and Chrome) : Aluminums

3. Shapes and structures

<table>
<thead>
<tr>
<th>Specifi cation</th>
<th>Taper</th>
<th>Tip #</th>
<th>Length(mm)</th>
<th>Groove (Color)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANI NRTNiTi</td>
<td>.04</td>
<td>20,25,30</td>
<td>21.25</td>
<td>2(Gold)</td>
</tr>
<tr>
<td></td>
<td>.06</td>
<td>35,40</td>
<td>21.25</td>
<td>3(Gold)</td>
</tr>
<tr>
<td></td>
<td>.08</td>
<td></td>
<td>21.25</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>.10</td>
<td>20,25,30</td>
<td>21.25</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>.12</td>
<td>35,40</td>
<td>21.25</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>.14</td>
<td></td>
<td>21.25</td>
<td>0</td>
</tr>
<tr>
<td>MANI NRT-SUS</td>
<td>.04</td>
<td>70(1S)</td>
<td>16</td>
<td>1(Green)</td>
</tr>
<tr>
<td></td>
<td>.10</td>
<td>50(2S)</td>
<td>18</td>
<td>1(Yellow)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40(N)</td>
<td>21</td>
<td>2(Black)</td>
</tr>
<tr>
<td></td>
<td>.14</td>
<td></td>
<td>21</td>
<td>2(Blue)</td>
</tr>
<tr>
<td>MANI NRTGPR**</td>
<td>.04</td>
<td>20,25,30</td>
<td>21.25</td>
<td>2(Gold)</td>
</tr>
<tr>
<td></td>
<td>.06</td>
<td>35,40</td>
<td>21.25</td>
<td>3(Gold)</td>
</tr>
<tr>
<td></td>
<td>.08</td>
<td>25</td>
<td>18,21.25</td>
<td>4(Gold)</td>
</tr>
</tbody>
</table>

4. Use the active device which could control at allowable engine speed.
5. Keep the allowable engine speed precisely. (Diameter of Contra Angle shank = φ 2.55mm)**
6. Use the active device which could control at allowable engine speed.

<Precautions for use>
1. To prevent infection, sterilize the product by autoclave and make sure sterilization is completed before using.
2. Keep the allowable engine speed strictly as over speed could cause fractures and injury. (**3)**
3. Follow the instructions of active device manufacturer strictly and insert the shank all the way to avoid its half-way chucking.
4. The active device should be used in accordance with its instructions.
5. Choose the most appropriate type for each case and follow the general method.
6. Before using, run the instruments outside of oral cavity to make sure that there is no distortion.
7. Make sure the instruments outside of oral cavity that there are no deformations, scratches and cracks before use.
8. If the head of product is thin, long or large, there are possibilities for breaking or twisting. Because of this, be sure to avoid using unreasonable angle and excessive pressure.
9. Confirm the length of working part by X-ray.
10. Follow the general method, form the guide path by hand files to #15.
11. Use the torque controllable active device (excluding GPR: **3)**
12. Wear safety glasses to protect your eyes from damage. Also, wear a dust protective mask to prevent inhaling dust.
13. Wear rubber dam etc. to avoid accidental ingestion and falling.
14. Do not use this instrument for any purposes except for listed applications above.
15. Only for use by dentists.
16. This product should be treated as medical waste when disposed.
17. Dispose the product if damaged or contaminated.
18. After using, wash this product with medical cleaning agent and brush, then wash away foreign substances like adherent body fluids and body tissues completely.
19. Set the product to a stand when cleaned by ultrasonic cleaner to avoid working part deterioration.
20. Use this product with great care to avoid puncturing fingers because of its possession of sharp-edged part.
21. This product has possibility that be corrosive if sunk into NaOCl, EDTA and etc. for a long time. **
22. Avoid excessive pressure toward root canal apex.
23. Remove debris on files constantly.
24. Use the hand files to secure guide path constantly.
25. Heat by rotation on the same region for a long time has possibility to damage tissue or cause files fracture. Use this product with great care to avoid such risk.

(*2 Allowable engine speed:
- MANI NRT-NiTi, SUS: 300min\(^{-1}\) or less
- GPR Series: 500\(\sim\)1,500min\(^{-1}\) (Recommended: 1,000 min\(^{-1}\))
- NRT-NiTi-TYPE A: 500min\(^{-1}\) or less**

(*3) MANI NRT FILES are used by connecting with rotational contra head.**

NRT-NiTi: 1.0N or less
NRT-SUS: 1.0N or less
NRT-NiTi-TYPE A: 3.0N or less

<Storages and duration of use>
1. Avoid storing at high temperature, humidity and direct sunlight. Keep liquids away. Store it at room temperature.
2. Do not damage or make a pinhole to packaging materials.
3. The product is subject to be improved without previous notice. Enforce the first-in first-out method for stock management.
4. Do not store the product under a germicidal lamp to avoid deterioration.

<Maintenance and inspections>
1. Sterilize this product by autoclave under established method and conditions for each use.
   - Method of sterilization: Put this product in a sterilization bag (or foil) and place it on a sterilization tray or file stand for autoclave sterilization with reference to the following conditions.
   - Conditions for sterilization:
     (1) Temperature: 121 degrees Celsius time: 20 minutes or more
     (2) Temperature: 126 degrees Celsius time: 15 minutes or more

2. Do not use high pressure steam sterilizer which heats more than 200 degrees Celsius including drying process.
3. When reusing the instrument, wash away foreign substances completely and sterilize.
4. Regarding use of medical cleaning agent, follow the instruction manual by its manufacturer strictly.
5. Dispose the product if damaged or decreased in performance.

<Packaging>
MANI NRT-NiTi
1. Minimum packaging unit: 6pcs. per package (#20~#40)
MANI NRT-SUS
1. Minimum packaging unit: 6pcs. per package (#40,#30)
2. Assortment: Taper .14*.02 .02 .04 .06, 1pc each per package
   * The size of .02 is #30. Use this size when needed.
MANI NRT-GPR
1. Minimum packaging unit: 4pcs. per package
2. Assortment: 1S, 2S, 3N, 4N, 1pc each=4pcs. per package
   * 1S, 2S SUS
   * 3N, 4N nickel titanium alloy
MANI NRT-NiTi-TYPE A**
1. Minimum packaging unit: 3pcs. per package
2. Standard: 06#20, 06#25, 08#25 1pc each per package
3. Simple: 06#25, 08#30, 08#25 1pc each per package
4. Complex: 04#20, 04#25, 08#25 1pc each per package

<Legal manufacturer>
MANI, INC.
8-3 KIYOHARA INDUSTRIAL PARK, UTSUNOMIYA, TOCHIGI, 321-3231, JAPAN
inquiry and reference: dental department

<EU representative>
Obelis s.a.
Bd. Général Wahis 53, 1030 Brussels, Belgium
※ The contents of this instruction manual are subject to be revised without previous notices.
※ The specifications, structures and materials are subject to be changed without previous notices for the demands of improvement.
※ Always keep this document near at hand. In case of loss, please contact dental department of the manufacturer for a copy.
※ * and ** mark indicate revised point.