Device Specifications

⚠️ Caution
It is essential to use dry, purified compressed air in order to ensure the long working life of the device. Maintain the quality of the air and water by regular maintenance of the compressor and filtration systems. The use of unfiltered hard water will lead to early blockage of the tubes, connectors and spray ports.

Type:
Dental contra-angle 1:5 speed increasing with light, push-button grip chuck, and internal spray

Intended Use:
Product intended for professional use only. Use for general dentistry restorative and periodontal care. The use of unfiltered hard water will lead to early corrosion.

Classification:
Class I in accordance with FDA, Class IIa in accordance with European Directive 93/42/EEC concerning medical devices.

Type of coupling:
ISO 3964 with internal spray and light in the motor.

Transmission ratio:
Red marker: speed increasing (1:5)

Motor speed:
Maximum 40,000 rpm

Rotation speed:
Red marker: maximum 200,000 rpm

Cooling air:
To ensure that your Contra-angle or straight handpiece/micro motor unit functions with maximum efficiency, it must be cooled by an air supply of 5-10 NL/min at 36.2 to 71 psi (250 – 490 kPa) from the nose of the micro motor.

Light:
The contra-angle handpieces are fitted with a fused glass light guide that has very good resistance to sterilization.

Spray air and water:
Spray water flow minimum 50 ml/min at 29 psi (200kPa). Do not exceed 40 psi. Spray air flow minimum is 1.5 NL/min at 29 psi (200kPa). Do not exceed 40 psi.

Bur:
Only use burs that correspond to ISO 1797 type 3 that meet the following criteria:
- Shaft diameter: 1.59 to 1.60 mm (0.0626 to 0.0630 inches)
- Shaft length: 11 mm
- Do not use burs or diamonds with grooves on the shank.
- Do not use burs with carbide shanks.

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Clean and Disinfect the Handpiece Exterior
1. Disconnect the instrument from the drive motor and remove the bur.
2. Holdling handpiece head upward, carefully scrub the external surface with a soft brush under running warm tap water 40°C ± 3°C (104°F ± 1°F) to remove visible debris and particles. Be careful not to run water into back end tubes. Figure 2
3. Wipe the handpiece with disinfectant wipe.
4. Dry with a towel or dry syringe air.

NOTE: Lares Research recommends the following disinfectant CaviWipes® (manufactured by Metrex). After cleaning, if the moisture is present, wipe off with dry cloth or blow it off with compressed air until there is no moisture in the interior and exterior. When blowing off with compressed air, cover the handpiece with cloth to prevent scattering of water.

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Caution
Do not use water to cool contra-angle after removal from autoclave as rapid contraction could damage product.

Clean Fiber Optics
When handpiece is cool to the touch, gently CLEAN fiber optic light transmitting surfaces on both ends of handpiece with cotton swab dampened with isopropyl alcohol.

Figure 6a and 6b.

Warranty and Service
Toll Free Ordering & Technical Assistance: (888) 333-8440
Non Toll-Free Worldwide: (530) 345-1767
Internet & Online Ordering: www.laresdental.com

There are no user-serviceable parts in the Lares Research Smoothdrive contra angle or straight handpieces.

For authorized repair, send your handpiece directly to Lares Research (in U.S.A. only), shipping pre-paid. For repair outside the U.S.A. send your handpiece to your authorized Lares distributor.

Lares Research recommends you have the device checked every 300 autoclave cycles or once per year.

Warranty
Each Lares Research Smoothdrive 1:5 Contra-Angle is warranted against defects in materials and workmanship for a period of 2 years from the date of purchase.

Additional Conditions of Warranty
1. Warranty registration is automatic as of shipping date (Outside the US warranty registration may be required).
2. The contra-angle must be operated and maintained in accordance with procedures outlined in these instructions.
3. The contra-angle must not be subjected to abuse or neglect.
4. The contra-angle must not be repaired or disassembled by anyone other than Lares Research or your authorized Lares distributor. Lares Research will repair or replace at its discretion without charge, any defective parts covered by this warranty provided the Smoothdrive Contra-Angle is returned to the factory, transportation prepaid. (Outside the US return to your authorized Lares distributor) Lares Research makes no other warranties expressed or implied.

General Precautions
The device must be used by a qualified person in accordance with the current legal provisions concerning industrial safety, health and accident prevention measures, and these working instructions. In accordance with these requirements, the operators:

• must only use operating devices that are in perfect working order. In the event of irregular functioning, excessive vibration, abnormal heating or other signs indicating malfunction of the device, the work must be stopped immediately; in this case, contact repair center.
• must ensure that the device is used only for the purpose for which it is intended, must protect themselves, their patients and third parties from any danger, and must avoid contamination through the use of the product.

Excess material from products used for maintenance (lubricants, cleaning products and disinfectants) originating from the contra-angle may penetrate into the electric motor and interfere with its functioning. It is essential to follow the maintenance instructions accompanying each product.

SERIOUS EVENT (INJURY OR NEAR INJURY) NOTIFICATION
If a serious event occurs during the operation of this device it should be reported to Lares Research. In the European Union it should also be reported to the competent authority of the Member State in which the user and/or patient is established.

Caution
The device must not be used in the presence of open lesions, injury to soft tissue or recent extractions. The exhaust air could propel infected material into the wounds and cause infections and risk embolism.

Adhere to the instructions for use, in accordance with the instructions of the bur manufacturer. Never use a bur with an incorrect diameter, as there is a risk of becoming detached during treatment and causing injury to yourself, to your patient and to third parties.

The device is intended for medical treatment only; any use other than that for which this product is intended is unauthorized and may be dangerous. The medical device meets all the current legal requirements.

Contraindications
None.

Transportation, Storage and Disposal

Transport and storage conditions
Temperature between -40C (-40F) and 70C (158F), relative humidity between 10% and 100%, atmospheric pressure 50 kPa to 106 kPa (7.3 to 15.3 psi).

Disposal
Always reprocess the product after last use and prior to disposal. If you do not know your local disposal laws, send the product with its original packaging material (if available) to Lares service depot for proper disposal and recycling.

Accessories

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10084</td>
<td>Electric Attachment Nozzle</td>
</tr>
<tr>
<td>10371</td>
<td>Push Button Chuck Conditioner Nozzle</td>
</tr>
<tr>
<td>10083</td>
<td>Handpiece Conditioner</td>
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</tbody>
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Questions?
Call 1-888-333-8440, Ext. 1
Lares Research
295 Lockheed Avenue
Chico, CA 95973 USA
www.laresdental.com

Figure 1:
Photo of 1:5 CA push button chuck being activated to remove bur with arrows.

Figure 2:
Photo of cleaning external surface of the handpiece with soft bristled brush.

Figure 3:
Photo of clearing water ports with provided tool.

Figure 4:
Photo of chuck cleaning nozzle spraying into chuck of 1:5 contra-angle.

Figure 5:
Photo of lube can with nozzle inserted into back of 1:5 contra-angle

Figure 6a and 6b:
Photo of fiber optics being cleaned at both ends with cotton swab.