

# MultiFORCE 5k Straight Lowspeed Handpiece Instructions for Use



**Precision Performance**

REF 11624



Manufacturer: Lares Research

295 Lockheed Ave,  
Chico, CA 95973, USA

EC REP MDSS Schiffgraben 41, 30175 Hannover, Germany



Not Sterile

## GENERAL INFORMATION

**MultiFORCE** 5k straight lowspeed handpieces are designed to provide maximum torque while minimizing arm and hand fatigue. Features include high torque, precise bur rotation, light weight, and smooth swivel action.

**⚠ Caution:** This product is intended for use by dental professionals only. United States federal law restricts this device to sale by or on the order of a licensed dentist or healthcare practitioner.

Before operating handpiece, carefully read and follow these instructions. Save them for future reference. Observe all cautions and warnings.

## SPECIFICATIONS

Weight: 2.42 oz (68.5 grams)  
Length: 4.46 in (11.3 cm)  
Max Diameter: 0.66 in (1.7 cm)  
Speed: 4200 rpm @ 40 psi. (2.8 bar)  
Air Consumption: 69±5 NL/min @ 40 psi (2.8 bar)  
Accepts: Prophyl Angles, Doriot Attachments, and Cutting Burs.  
Connection: 'MidWest' style 4 Hole (ISO 9168-Type 2)

## INDICATIONS FOR USE

**MultiFORCE** 5k straight lowspeed handpiece is intended for prophylaxis polishing procedures, intra & extra oral dental material trimming and finishing by a trained professional in general dentistry.

## CONTRAINDICATIONS

It is not recommended to treat intrinsic stains which are typically deeply marbled in the tooth and not to use device on patients with respiratory and infectious diseases as polishing creates aerosols.

## OPERATING RECOMMENDATIONS

**AIR PRESSURE:** The dental unit air pressure should be adjusted between 32 and 40 psi. 40 psi is recommended.

**AIR SUPPLY:** Moist or dirty air from the compressor can damage the **MultiFORCE** 5k straight lowspeed handpiece. Check the filters often. If dirt or moisture is present, replace the filter and clear the air system and dental unit.

**EMPTY OPERATION:** The **MultiFORCE** 5k straight lowspeed handpiece will not operate unless the chucking system is fully engaged. This minimizes risk of damage to the chuck.

## ATTACHMENTS / BURS

The **MultiFORCE** 5k straight lowspeed handpiece accepts ADA & ISO compliant prophyl angles, Doriot attachments, and cutting burs.

## INSTALLATION INSTRUCTIONS:

- 1) **MultiFORCE** 5k straight lowspeed handpiece is packaged not sterile. Clean and autoclave the handpiece before its first use. Follow autoclave and maintenance steps 1 – 4.
- 2) Align the drive air and exhaust tubes with the outlets in the supply tube and screw the **MultiFORCE** 5k straight lowspeed handpiece to the dental unit hose nut, making sure contact between the handpiece and gasket is flush.
- 3) Secure the prophyl angle, Doriot attachment, or cutting bur to the **MultiFORCE** 5k straight lowspeed handpiece as follows:

## SECURING DENTAL ATTACHMENTS AND BURS:

- 1) Holding the handpiece securely, rotate the chuck ring to the left (clockwise while looking down at the nosecone) until it clicks into place. The arrow on the handpiece should now align with the unlock symbol on the chuck ring.
- 2) Align prophyl angle or Doriot slot with the pin on nose cone (alignment not necessary when inserting a cutting bur).
- 3) Slide the prophyl angle or doriot attachment fully onto the nose cone up to the shoulder. A cutting bur should be inserted all the way into the chucking system until it stops.
- 4) Holding the handpiece securely, rotate the chuck ring to the right (counter clockwise while looking down at the nosecone) until the arrow on the handpiece aligns with the lock symbol on the chuck ring.
- 5) Double check to be sure the attachment is secured in place by gently pulling on it.

**⚠ Caution:** Do not grip the chuck ring while operating the handpiece. This can lead to loss of handpiece power and generate heat.

- 6) To remove the prophyl angle, Doriot attachment, or cutting bur, repeat step 1 to unlock the chuck and pull straight out.
- 7) Detach handpiece from the delivery tube at the end of each day and prior to other extended periods of non-use.

## FORWARD/REVERSE DIRECTION:

There is no direction control. The **MultiFORCE** 5k straight lowspeed handpiece rotates clockwise in a forward direction.


## ⚠ CAUTIONS

- Non-sterile products present a risk of infection.
- The handpiece has the potential to accelerate materials at high velocities in unanticipated directions that could affect the eye. Take suitable personal protective measures (i.e. exam gloves, eye protection, 5 µm particulate filter mask). Use proper eye protection for the practitioner, staff, and patient.
- Never force a prophyl angle, Doriot attachment, or cutting bur into the **MultiFORCE** 5k straight lowspeed handpiece. If the shank does not enter the handpiece smoothly, it should not be used.
- Do not extend attachments or cutting burs from handpiece.
- Never operate handpiece without double-checking that it is securely retained.
- Never operate handpieces at air pressure in excess of recommended maximum setting.
- Never submerge handpieces in any cleaning solutions.
- Do not use ultrasonic cleaning systems.
- Do not autoclave for extended periods (such as overnight).
- Do not leave handpieces in autoclave after cycle is complete.
- Do not use this handpiece without autoclaving between patients to prevent cross contamination which could result in serious illness or even death from infectious organisms such as HIV or Hepatitis B.

**MAINTENANCE**

The **MultiFORCE** 5k straight lowspeed handpiece should be lubricated prior to each sterilization cycle.

1. Screw the lubrication nozzle onto the Lares One-Step Handpiece Conditioner tip.
2. Lock a prophyl angle\*\* into the chuck.
3. Insert the lubrication nozzle into the drive air tube of the handpiece (the small tube).
4. With the back end tubes pointed away from you, spray lubrication into the handpiece for 1-2 seconds.
5. Run the handpiece for approximately 15 seconds to flush out excess lubricant.
6. Wipe down the exterior of the handpiece with a clean cloth to remove any excess lubricant.

\*\* Locking a prophyl angle into the chuck will allow the motor to rotate and clean more effectively during lubrication. Do not use a cutting bur for this as it can rotate and cut you.

If your nose cone is not swiveling effectively, use the lubrication nozzle to spray Lares One-Step Handpiece Conditioner into the tip of the nose cone for 1-2 seconds. Manually rotate the nose cone to free any stuck debris. Lares Research recommends sending your **MultiFORCE** 5k straight lowspeed handpiece back to the factory for service every 300 autoclave cycles or one year, whichever occurs first. This service recommendation will keep your Lares Research product operating at its top condition through the life of the device.

**AUTOClave & MAINTENANCE INSTRUCTIONS**

- 1) Prepare **MultiFORCE** 5k straight lowspeed handpieces for autoclave by carefully scrubbing the external surface with a soft brush and warm tap water 40°C ± 5°C (104°F ± 10°F) to remove visible debris and particles. Be careful not to run water into backend tubes. Dry with a towel or dry compressed air.
- 2) Seal handpieces in separate autoclave bags. Make sure to remove dental attachments from handpiece prior to sealing.
- 3) Process in gravity steam autoclave as follows:
  - Place handpiece(s) in autoclave tray(s).
  - Autoclave at a temperature of 270° F (132°C) for at least 15 minutes.
  - **Alternate validated sterilization cycle:**  
Forced (dynamic) air removal sterilization (pre-vacuum or steam pressure pulse) Cycle exposure time 4 minutes at 132°C (270°F) Drying time 30 minutes minimum.
  - NOTE: Temperature should not exceed 275° F (135° C).
- 4) After autoclave cycle is completed, allow to cool down 30 minutes prior to handling.




**DISPOSAL**

Prior to disposal, the product must be reprocessed per this instruction.

**SERIOUS EVENT 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.

 **The FDA & CDC strongly recommend that handpieces be heat sterilized after each patient use.**

Troubleshooting		
Problem	Cause	Solution
Handpiece Stalls	No/Low Air Pressure	Check that the supply tubing is engaged & the tubes are not blocked.
	Supply improperly seated	Reconnect handpiece to supply tubing making sure the gasket is fully contacted.
	Dry Motor	See maintenance section for lubrication instructions.
	Worn backend gasket	Replace gasket if visibly damaged.
	Pinched supply tubing	Service or replace supply tubing.

**LIMITED WARRANTY INFORMATION**

The following warranty conditions apply to this Lares Research **MultiFORCE** 5k straight lowspeed handpiece: Lares provides the end customer with a warranty of proper function and guarantees zero defects in respect of material and processing for a period of 2 years from date of purchase, subject to the following conditions: In case of justified complaints, Lares will honor its warranty with a free replacement or repair performed by trained Lares technicians. Other claims of any nature whatsoever, in particular with respect to compensation, are excluded. In the event of default, gross negligence or intent, this shall only apply in the absence of mandatory legal regulations to the contrary. Lares will not warranty and cannot be held liable for defects and their consequences that have arisen or may arise from natural wear, improper handling, cleaning or maintenance, non-compliance with operating, maintenance or connection instructions, mineral deposits or corrosion, contaminated air or water supplies or chemical or electrical factors deemed abnormal or impermissible in accordance with Lares instructions for use or other manufacturer's instructions.

**ADDITIONAL CONDITIONS OF WARRANTY:**

Use of replacement or repair parts not manufactured by Lares Research may void this warranty. No liability is assumed when defects or their consequences are derived from manipulations or changes to the product by the customer or a third party. Service warranty claims will only be accepted when product is submitted directly to Lares Research, attention: Technical Service Department. The serial number must be clearly visible on the product. For warranty repairs outside the USA, contact your local authorized Lares distributor.

**REPAIR SERVICE**

Toll Free Ordering & Technical Assistance: (888) 333-8440  
 Non Toll-Free Worldwide: (530) 345-1767  
 Internet & Online Ordering: [www.laresdental.com](http://www.laresdental.com)

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.

**Replacement Parts and Accessories**

<u>Description</u>	<u>Item No.</u>
4 Hole Gasket	10009
One-Step Handpiece Conditioner	10083
Lubrication Nozzle	10361
Repair Return Pouch	10420

Symbol Description	
 REF	Catalog Part Number
 SN	Product Serial Number
 EC	European Community Representative
 ID	Consent Accompanying Documents
 CE	Conformity Marking
 M	Manufacturer
 YMD	YYYY-MM Manufacture Date
 P	Parts Applied to Patient
 S	Steam Autoclave