

# Perfect Finish™

## Lowspeed Restorative System Instructions for Use



### Precision Performance

**REF** 11626, 11627, 11630, 11631, 11632, 11633,  
11637, 11638, 11639, 11640, 11641, 11642



**Manufacturer:** Lares Research

295 Lockheed Ave,  
Chico, CA 95973, USA



MDSS Schiffgraben 41, 30175 Hannover, Germany



Not Sterile

### GENERAL INFORMATION

The **Perfect Finish Lowspeed Restorative System** handpieces are designed to provide maximum power while minimizing arm and hand fatigue. Features include high torque, precise bur rotation, light weight, balanced profile, and smooth swivel action. And it's versatile! Couple the motor with any of the straight attachments or contra angles and the **Perfect Finish** system becomes a valuable instrument for both laboratory and operatory use.

**⚠ 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 the device, carefully read and follow these instructions. Save them for future reference. Observe all cautions and warnings.

### SPECIFICATIONS

Speed: 4:1 Attachments - 4,000 rpm @ 40 psi (2.8 bar)  
1:1 Attachments – 17,000 rpm @ 40 psi (2.8 bar)

Motor Air Consumption: 75±5 NL/min @ 40 psi (2.8 bar)

### ATTACHMENTS / BURS

Straight Attachments Accept: Prophy Angles, Doriot Attachments, and Cutting Burs with shanks that comply with ISO 1797 – Type 2.

Push Button Heads Accept: Burs with shanks that comply with ISO 1797 – Type 1.

Screw-in Prophy Heads Accept: Screw-in type prophy cups.

Snap-on Prophy Heads Accept: Snap-on type prophy cups.

Connection: The motor has a 'MidWest' style 4 Hole back end (ISO 9168 – Type 2) & an E-type front end for connecting the attachments (ISO 3964 – Type 1). The heads attach to the contra angles with a 12-tooth crown and a threaded connection.

### INDICATIONS FOR USE

**Perfect Finish** is intended to be used by dental professionals (e.g. dentist, dental hygienist, dental lab technician) for preparing dental cavities for restorations, caries removal, lab work on dentures, root canal therapy, and prophylaxis procedures.

### 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 **Perfect Finish** motor and attachments. Check the filters often. If dirt or moisture is present, replace the filter and clear the air system and dental unit.

**EMPTY OPERATION:** The **Perfect Finish** straight attachments will not operate unless the chucking system is fully engaged. This minimizes risk of damage to the chuck.

### INSTALLATION INSTRUCTIONS:

△ All components of the **Perfect Finish Lowspeed Restorative System** are packaged not sterile. Clean and autoclave the handpiece before its first use. Follow maintenance / cleaning / sterilization steps 1 – 6.

### MOTOR INSTALLATION

- 1) Align the drive air and exhaust tubes with the outlets in the supply tube and screw the **Perfect Finish** motor to the dental unit hose nut, making sure contact between the handpiece and gasket is flush.
- 2) Detach the motor from the delivery tube at the end of each day and prior to other extended periods of non-use.

### ATTACHMENT INSTALLATION

Attach the straight attachment or contra angle to the motor by pressing them together until they click into place. Gently pull on the attachment to make sure it is secure.

### STRAIGHT ATTACHMENT BUR INSTALLATION

For **Perfect Finish** straight attachments: secure the prophy angle, Doriot attachment, or cutting bur as follows:

- 1) Holding the straight attachment 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 prophy angle or Doriot slot with the pin on nose cone (alignment not necessary when inserting a cutting bur).
- 3) Slide the prophy 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 bur/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 prophy angle, Doriot attachment, or cutting bur, repeat step 1 to unlock the chuck and pull straight out.

### HEAD INSTALLATION

For **Perfect Finish** contra angles, secure the heads onto the contra angles as follows:

- 1) Make sure the drive shaft is installed in the head. The long end of the drive shaft inserts into the head.
- 2) Align the 12-tooth crown of the head with the mating crown of the contra angle.
- 3) Slide the threaded sleeve over the contra angle and rotate the sleeve clockwise until it is securely attached.
- 4) To remove the head, rotate the threaded sleeve counter-clockwise until it releases from the contra angle.

## PUSH BUTTON LATCH TYPE BUR INSTALLATION

For **Perfect Finish** push button latch type heads, install the latch type burs as follows:

- 1) Insert the bur into the head until it stops. Depress the push button.
- 2) Gently rotate the bur while applying forward pressure until it aligns and slides forward into place. Release the push button.
- 3) The bur should now be locked in place. Check to be sure the bur is secured by gently pulling on it.
- 4) To remove the bur, push the button at the back of the head and pull the bur out.

## PROPHY CUP INSTALLATION

For **Perfect Finish** screw-in type prophy heads, install screw-in prophy cups as follows:

- 1) Insert the disposable prophy cup shaft into the head and rotate clockwise until it is fully threaded on.
- 2) To remove the disposable prophy cup, rotate it counter-clockwise until it releases from the head.

For **Perfect Finish** snap-on type prophy heads, install snap-on prophy cups as follows:

- 1) Firmly push the non-working end of the cup over the retaining knob until it snaps into place. Check to see that the cup is securely retained.
- 2) To remove, grasp the cup and pull firmly.

## ⚠CAUTIONS

- Non-sterile products present a risk of infection.
- Do not drop, modify, or disassemble these products or they may be rendered unsafe for use.
- Do not connect attachments to motors operating above 20,000 rpm or injury could occur.
- Never apply excessive cutting force during patient treatment or patient injury may occur. New/sharp burs should require minimal force to perform all procedures.
- Never operate burs/diamonds, polishing discs and points, and other instruments that insert into the chuck of an attachment or head in excess of their maximum recommend operating speed or patient or staff injury could occur.
- Never use dull, bent or otherwise damaged cutting burs/diamonds, polishing discs and points and other instruments that insert into the chuck of an attachment or head, or patient or staff injury could occur.
- Instrument ingestion risk: After inserting a bur/diamond, polishing disc or point, and other instruments that insert into the chuck of an attachment, always check that they are securely retained in the chuck (by attempting to pull them out) before use on a patient.
- These instruments have 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.
- Always be sure that instrument has stopped rotating completely before attempting to remove from the oral cavity or cuts or abrasions of gums, lips or cheeks of patient could occur.
- Never force a prophy angle, Doriot attachment, or cutting bur into the **Perfect Finish** straight attachments or heads. If the shank does not enter the device smoothly, it should not be used.
- After attaching a straight or contra angle attachment to the motor, always check that it is securely retained (by gently attempting to pull them off the motor) before use on a patient.
- Do not extend attachments or cutting burs from handpiece.
- Never operate an instrument without double-checking that it is securely retained.
- Never operate handpieces at air pressure in excess of recommended maximum setting.

## ⚠CAUTIONS CONTINUED

- Never submerge instruments in any cleaning solutions.
- Do not use ultrasonic cleaning systems.
- Do not autoclave for extended periods (such as overnight).
- Do not leave instruments in autoclave after cycle is complete.
- Do not use these instruments 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 / CLEANING / STERILIZATION

All **Perfect Finish** instruments should be lubricated prior to each sterilization cycle.

1. Remove all burs, prophy cups, etc. from the heads and straight attachments. Unscrew the knurled head retaining collar and remove all heads from the contra angles. Remove the drive shafts from the heads. Remove the straight attachments and contra angles from the motor.
2. Scrub the motor, attachments, and heads with warm water a soft bristle brush to remove external debris. Do not allow water to enter internally into the devices.
3. Lubricate all instruments:

⚠Do not lubricate or clean handpiece with bur attached- tissue cutting risk.

**MOTOR** – Fully insert the lowspeed motor/chuck cleaning lube nozzle (10361) into the smaller of the two tubes at the back of the motor. Spray Lares One-Step Conditioner for 1-2 seconds.

**STRAIGHT ATTACHMENTS** – Fully insert the E-Type attachment lube nozzle (10084) into the back of the straight attachment. Spray conditioner for 1-2 seconds. Grip the straight attachment securely while spraying so air pressure doesn't dislodge the straight attachment from the nozzle.

**CONTRA ANGLES** – Fully insert the E-Type attachment lube nozzle (10084) into the back of the contra angle and spray conditioner for 1-2 seconds. Grip the contra angle securely while spraying so air pressure doesn't dislodge the contra angle from the nozzle. Insert the motor/chuck cleaning lube nozzle (10361) into the front of the contra angle and spray for ½ second.

**HEADS** – Fully insert the lowspeed motor/chuck cleaning lube nozzle (10361) into the chuck (where the bur/prophy cups go) and spray conditioner for 1-2 seconds. Fully insert the same nozzle into the back of the head (with drive shaft removed) and spray conditioner for ½ second. With the same nozzle, spray both gear ends of the drive shaft for ½ second.

4. Attach the motor to the supply hose. Reattach all attachments to the motor and reattach all heads to the attachments. Insert a test bur into the straight attachments. Run each instrument for 15 seconds to distribute and expel excess lubricant.
5. Remove test bur from straight attachments. Detach all attachments from the motor and all heads from the attachments. Use a soft cloth to wipe away excess lubricant from all instruments.
6. Insert all components (heads detached from contra angles) separately into autoclave bags and load into autoclave. Autoclave at a temperature of 270° F (132°C) for at least 15 minutes\*. Note: Temperature should not exceed 275° F (135° C). Remove instruments from autoclave immediately after cycling and allow them to cool.

### **\*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.



Periodically, or if your straight attachment nose cone is not swiveling effectively, use the lubrication nozzle (10361) to spray Lares One-Step Handpiece Conditioner into the tip of the nose

cone for 1-2 seconds to flush it out. Manually rotate the nose cone to free any stuck debris.

Lares Research recommends sending your **Perfect Finish** instruments 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.

**DISPOSAL**

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

**SERIOUS EVENT NOTIFICATION**

If a serious event occurs during the operation of these instruments, 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.

**⚠️ State dental board rules require heat sterilization of all lowspeed motors and attachments (consistent with CDC recommendations) 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.
	Internal debris	Separate all instruments and perform lubrication maintenance.

**LIMITED WARRANTY INFORMATION**

The following warranty conditions apply to the Lares Research **Perfect Finish Restorative System**: Lares provides the end customer with a warranty of proper function and guarantees zero defects in respect of material and processing for the periods specified in the following table. Warranty claims are 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.

Item #	Description	Warranty Period
11626	Perfect Finish 20k Motor	2 years
11627	Perfect Finish 1:1 Straight Attachment	1 year
11630	Perfect Finish 4:1 Straight Attachment	1 year
11631	Perfect Finish 1:1 Contra Angle w/ Push Button Latch Head	1 year
11632	Perfect Finish 4:1 Contra Angle w/ Push Button Latch Head	1 year
11633	Perfect Finish Push Button Latch Head	1 year
11637	Perfect Finish Screw-in Type Prophy Head	1 year
11638	Perfect Finish 4:1 Contra Angle w/ Screw-in Type Prophy Head	1 year
11639	Perfect Finish 1:1 Contra Angle w/o Head	1 year
11640	Perfect Finish 4:1 Contra Angle w/o head	1 year
11641	Perfect Finish Snap-on Type Prophy Head	1 year
11642	Perfect Finish 4:1 Contra Angle w/ Snap-on Type Prophy Head	1 year

**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**

Description	Item No.
4 Hole Gasket	10009
One-Step Handpiece Conditioner	10083
Motor & Chuck Cleaning Nozzle	10361
E-Type Attachment Lube Nozzle	10084
Repair Return Pouch	10420
Perfect Finish Push Button Latch Head	11633
Perfect Finish Screw-in Type Prophy Head	11637
Perfect Finish 1:1 Contra Angle w/o Head	11639
Perfect Finish 4:1 Contra Angle w/o head	11640
Perfect Finish Snap-on Type Prophy Head	11641