CONNECTIONS: ISO Type 2, 4 Hole  
WEIGHT: 38 grams  
SPEED: 100-450,000 rpm  
BUR SHANK: ISO 1797-1, Type 3 (Friction Grip)  
BUR LENGTHS: Short (16mm) or Standard (19mm)  
BUR DIAMETER: Do not exceed 5mm (0.125")

ADJUSTING DRIVE AIR PRESSURE TO PROPER SETTING
Proper drive air pressure is essential to full performance and long-lasting service. Excess air pressure can cause premature bearing failure or blade failure. Air pressure should never be over or under the limit. For long, trouble-free operation, operate your handpiece using only 0.10 enquiries.  

INSERTING A BUR/DIAMOND INTO THE HANDPIECE: CHANGING BURS

1. Squish bur onto the bur chuck and turn clockwise to lock in place.  
2. Slip bur onto the bur chuck and turn counterclockwise to remove bur.  
3. Slip bur onto the bur chuck and turn counterclockwise to remove bur.  
4. Turn bur onto the bur chuck and turn counterclockwise to remove bur.  
5. Turn bur onto the bur chuck and turn counterclockwise to remove bur.  
6. Insert bur onto the bur chuck and turn counterclockwise to remove bur.  
7. Insert bur onto the bur chuck and turn counterclockwise to remove bur.  
8. Insert bur onto the bur chuck and turn counterclockwise to remove bur.

ADJUSTING SPRAY PATTERN

On a properly adjusted delivery system, the spray pattern of the HX handpiece covers all bur diameters with a consistent, hemispherical water mist.  

1. If bur spray is over-sprayed, depress the foot control to help the bur pattern. To increase or decrease the amount of water present in the spray, adjust the delivery system water flow control bendix valve as needed.  

INITIAL MAINTENANCE

Cross lubricate and slide a new handpiece before its first use. Follow the maintenance and effective control procedures that follow.

OPERATION
The PMX highspeed handpiece should be operated using the same lubrication and procedures used with other highspeed handpieces.

IMPORTANT SAFETY PRECAUTIONS

1. Never operate highspeed handpieces for a long duration.  
2. Never insert inoperative handpieces into the bur chuck.  
3. Never operate highspeed handpieces for a long duration.  
4. Never operate bur on a bur chuck that has been dropped.  
5. Never use this highspeed handpiece without inspecting and maintaining the bur chuck.  
6. Never use bur that has been dropped.  
7. Never operate bur on a bur chuck that has been dropped.  
8. Never use bur that has been dropped.  

MAINTENANCE AND INJECTION CONTROL

Care of the handpiece is an important factor in maintaining its efficiency and life.  

1. Use the bur chuck as the bur chuck indicates.  
2. Use the bur chuck as the bur chuck indicates.  
3. Use the bur chuck as the bur chuck indicates.  
4. Use the bur chuck as the bur chuck indicates.  
5. Use the bur chuck as the bur chuck indicates.  
6. Use the bur chuck as the bur chuck indicates.  
7. Use the bur chuck as the bur chuck indicates.  
8. Use the bur chuck as the bur chuck indicates.
AUTOCLAVE PROCEDURE

This procedure should be performed after every patient to prevent cross-contamination and to ensure long, trouble-free operation.

1. Drain the handles from hose. Close external surface of handles through to remove soil, blood, and other organic soil. Soak handles with warm soap and detergent under running hot water and dry thoroughly.

CAUTION: NEVER Submerge Components in any Cleaning or Decontamination Solution. DO NOT USE Ultrasonic Cleaners.

2. Apply Larsen handle conditioners:
   a. Insert the plastic spray nozzle (included with handle) into center of nozzle sprayer as far as possible, Figure 5.
   b. Gently twist the plastic spray nozzle into drives aroma of oils and handle air for proper, Figure 6. Follow specific application instructions stated on cap.
   c. Remove from hot water.

3. Lubricate:
   a. Place handles in a container in an open box. The use of substitute bags dramatically reducescosmetic damage.
   b. Lubricate handle container holding handles into containers. Be sure to lubricate handles for maximum protection from chemical or heat damage.
   c. Clean the handles according to the manufacturer’s instructions. Do not exceed 77°F (25°C) for 30 minutes minimum.

Figure 5

CAUTION: Do not AUTOCLAVE OR EXTENDED-TERM Manual Autoclaving for Time (Such as Overnight).
NORTHѳEASTERN COMPONENTS in AUTOMATIC BLOW 65 FOR LUNA CORP. IS TOLL FREE.

1. Individually remove handles from automatic. Allow to cool sufficiently prior to handling.

DRIERS AND FILTERS (AIR SUPPLY)
Be sure to periodically check and maintain your unit’s filter and dryer to ensure a steady supply of compressed air and long heating life.

PROBLEM DIAGNOSIS

The inconvenience of having a dry heat sterilizer can often be alleviated by the following common sense problem diagnosis and corrective action procedures that follow. If the problem cannot be corrected using these procedures, return the handle unit directly to Larsen Research. (Stated U.S.A. return to your authorized Larsen distributor; Do not attempt to perform repairs other than those described.

For additional troubleshooting information go to www.larsenental.com

SYMPTOM

POSSIBLE CAUSE

TEST TO IDENTIFY CAUSE

CORRECTIVE ACTION

EXCESSIVE LUBRICATION ON HANDLES DURING HEATING OR POST-HEAT VACUUM CHECK.

a. Nibbed handle contaminated with oils due to dirty or oily system.

Inspect handle factory for interior cleaning and coating.

c. Oil filter and filter box that cannot be easily removed or filter present, periodically replace filters and rinse or check filter.

LOW AND POOR TEMPERATURES.

a. Insufficient Air pressure of handles.

Check air pressure at or near both sides of handle pressure gauge. 

b. Dry bars due to loss of lubrication.

Adjust pressure to achieve 32 psi (2.22 bar) at end of handle vacuum.

Lubricate handles with Larsen handle conditioners.

INTERMITTENT OR APPARENTLY INSUFFICIENT AIR CONVECTION SYSTEM INTERMITTENT AIR WATER COOLING.

a. Insufficient air flow.

Adjust air flow intake valves to increase air flow. 

b. Water rich or air spout plug or apparatus not.

ADJUSTMENT OF CONDITIONS.

1. Warranty is automatic through our computer system of shipping data and warranty registration cards are not necessary (include U.S.A. warranty registration card for repair).

2. The manufacturer must be located and maintained in accordance with procedures outlined in the instructions.

3. The handle unit must be disposed of in a manner that will not cause any danger or risk.

LIMITED WARRANTY

Your Larsen handle has been precision engineered and carefully built. It is the highest quality product available. Each Larsen 300E highspeed handle is warranted against defects in materials and workmanship for a period of three years from date of purchase.

ADDITIONAL CONDITIONS OF WARRANTY

1. Warranty is automatic through our computer system of shipping data and warranty registration cards are not necessary (include U.S.A. warranty registration card for repair).

2. The manufacturer must be located and maintained in accordance with procedures outlined in the instructions.

3. The handle unit must be disposed of in a manner that will not cause any danger or risk.

TOLL FREE HINTS FOR ORDERING AND TECHNICAL ASSISTANCE:
U.S.A. 1-888-353-6442
TOLL-FREE WORLDWIDE: 1-500-134-1769

www.larsenental.com

#78004

NOTICE: DO NOT USE Ultrasonic Cleaners.

NOTICE: DO NOT AUTOCLAVE OR EXTENDED-TERM Manual Autoclaving for Time (Such as Overnight).

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