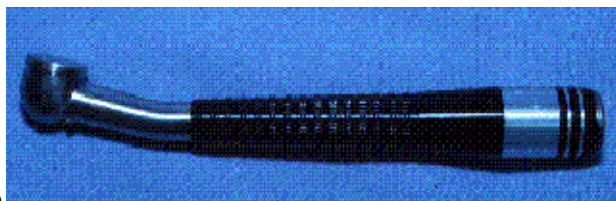


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55-18 Lares 757 Workhorse High-Speed Handpiece (Project 96-53) (10/98)

The Lares 757 Workhorse fiberoptic high-speed handpiece has a larger-sized head and is designed for heavier cutting. The handpiece can be heat sterilized in either an autoclave or chemiclave. The free running speed is reported to be 360,000 RPM @ 32 psi which was confirmed by DIS laboratory testing. Both the push-button chuck and turbine are



field replaceable and easily accomplished. The handpiece is connected to the dental unit handpiece hose by either the Lares Euro-Style (ISO-C) Apollo Coupler or the Lares Integral Swivel Fiberoptic Coupler. Both couplers provide easy handpiece interchangeability and 360-degree swivel. The handpiece (coupler included) measures 14.8 cm in length and weighs 1.6 ounces. The handpiece head diameter and length measure 13 mm and 13.5 mm respectively. The distance from the back of the handpiece to the tip of a standard 19 mm bur (interocclusal clearance) is 22 mm. The handpiece is warranted against defects in materials and workmanship for one year excluding the chuck, which is warranted for 90 days.

Manufacturer:

Lares Research
295 Lockheed Avenue
Chico, CA 95926
(800) 347-3289
(916) 345-1767
(916) 345-1870 FAX

Suggested Retail Prices:

757 Workhorse Fiberoptic Handpiece \$419.00
Integral Fiberoptic Swivel Coupler \$124.00
757 Workhorse w/ Swivel Coupler \$469.00
Replacement Turbine Cartridge \$174.00

Government Prices:

757 Workhorse Fiberoptic Handpiece \$303.20
Integral Fiberoptic Swivel Coupler \$86.40
757 Workhorse w/ Swivel Coupler \$343.20
Replacement Turbine Cartridge \$127.20

ADVANTAGES:

- + Low cost.
- + Excellent power (14.6 watts).
- + Maintained 71% of fiberoptic intensity after 1,000 simulated clinical use/sterilizations.
- + Turbine cartridge is field replaceable.
- + Chuck is field replaceable independent of turbine.
- + 360-degree swivel coupler.
- + Best interocclusal clearance of all models evaluated (same as Lares 557).
- + Push-button bur release.
- + Turbine warranted for one year.

DISADVANTAGES:

- 83% of test handpieces failed by 1000 simulated clinical use/sterilizations.
- Push-button chuck difficult to use.
- Requires lubrication before and after sterilization.
- Large head diameter reduces visibility.
- Chuck warranted for only 90 days.

SUMMARY AND CONCLUSIONS:

The Lares 757 Workhorse fiberoptic high-speed handpiece is the least expensive handpiece of the models evaluated. Its power (14.6 watts) was second only to the KaVo 640B. The Lares 757 maintained 71% of its fiberoptic intensity after 1,000 simulated clinical use/sterilization cycles. Polishing the fiberoptic lenses improved the transmission slightly to 75%. The noise level of the Lares 757 was measured at 72 decibels. The noise level of all handpieces evaluated ranged from 69 decibels to 77 decibels. The Lares 757 has a large diameter head which decreases operator visibility but its interocclusal access was tied with the Lares 557 as the best of all models evaluated. Eighty-three percent of the Lares 757 test handpieces functioned over 500 uses, 50% over 750 uses but only 17% survived 1,000 simulated clinical use/sterilizations. The push-button chuck was judged to be difficult to use and frequently required the use of hemostats to extract the bur from the handpiece. The **Lares 757 Workhorse** is rated **Marginal** for use by the federal dental services.