

*Increase treatment acceptance.
Attract new patients.*

*Easy Day-to-Day
Cavity Preps*

*Multi Quadrant
Same-Day Convenience +
Greater Patient Comfort*

*High-speed Turbo
Cutting of Hard Tissue*

*Deep Pocket Therapy with
New Attachment™*



waterlase^{MD} TURBO™

*Soft- and Hard-Tissue
Dental Laser*

BIOLASE

Simple to add to your practice.

A continuum of training that can take you from basic “bread & butter” procedures to advanced specialty applications, practice integration support, and an intuitive user interface are just a few of the ways we make adding Waterlase technology to your practice simple.



Take your practice to a new level with best-of-class laser technology.

A Waterlase MD™ Turbo pays off in greater patient comfort, improved clinical results and practice growth.



The treatment option patients are looking for.

Fear and anxiety, whether mild or severe, is real and for many people can be a barrier to seeking dental treatment. Studies show that as many as 75% of adults in the U.S. experience some degree of dental fear.^{1,2,3} Drills, needles and numb lips can prevent people from taking a positive, proactive approach to oral health.

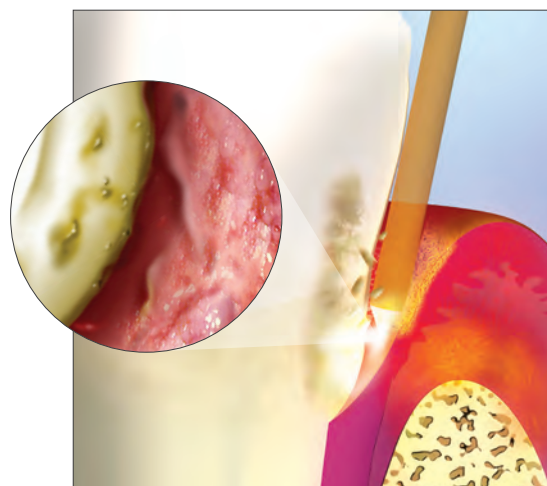
A study published by the Roger Levin Group indicates that the Waterlase MD Turbo helps attract new patients and increase treatment acceptance of day-to-day restorative cases that can cover the cost of a laser by providing an alternative to drills with injections, for patients who are anxious or fearful.⁴

By reducing the need for anesthetic, multi-quadrant restorations that once entailed multiple appointments can now be completed in a single visit. And, because a Waterlase MD Turbo allows you to handle a wider variety of procedures, there is less need to refer patients out for treatment, eliminating another source of anxiety for patients.

"This is long overdue. People hate the drills and to hear that there is another option is great!"
— Actual patient comment⁵

A periodontal revolution.

Deep Pocket Therapy™ (DPT) with Waterlase MD Turbo Assisted New Attachment™ using the patented Radial Firing Perio Tip™ (RFPT) is a minimally invasive, FDA-cleared, therapy for moderate to advanced gum disease that promotes cementum-mediated periodontal ligament new-attachment to the root surface in the absence of long junctional epithelium. The YSGG laser energy of the Waterlase MD Turbo is especially effective for minimally invasive removal of both subgingival inflamed tissue and calculus deposits, to prepare the pocket and surface of the tooth for healing and new attachment.



Built for speed.

The Waterlase MD Turbo's unique, patented combination of a YSGG laser and water spray delivers breakthrough cutting speeds. How fast? Clinicians experience no noticeable difference in speed compared to conventional high-speed drills. The MD Turbo can perform minimally invasive Class II MO/DO cavity preps in just 30 to 60 seconds. It even excels at cutting osseous tissue and it cuts soft tissue faster and with less trauma than soft tissue lasers.



Intuitive operator.

Every aspect of the MD Turbo has been thoughtfully designed for simple operation. The telescopic fiber management system improves the laser fiber's reach and intuitively follows your movements. The water level sensor alerts you when the level lowers, and an on-the-fly replenishment system efficiently refills the reservoir. The MD Turbo system features storage racks for power cables, air lines, and the foot pedal to help organize your operatory, while convenient storage wells keep tips, extra handpieces, and other accessories within easy reach. Finally, heavy-duty casters ensure smooth movement from room to room.



Two handpieces, for greater versatility.

The MD Turbo is equipped with two handpieces to perform a greater variety of procedures.

MD TURBO HANDPIECE combines breakthrough cutting speed comparable to a high-speed drill, with all the benefits of Waterlase Dentistry. It delivers the fastest hard-tissue removal for Class I-V cavity preparations, caries removal, and enameloplasty.

MD GOLD HANDPIECE is ideal for root canal therapy, periodontal therapy, sub-gingival procedures, soft-tissue cutting, and excavation of pits and fissures for placement of sealants. It also provides efficient hard-tissue removal for smaller class I-V cavity preparations and caries removal.



Both the MD Turbo and MD Gold are contra-angle, 360° rotatable handpieces that provide superior comfort and access to all areas of the oral cavity. Their ultra-bright, shadow-free illumination and red aiming beam enhance visibility and tractability in the surgical field.

Waterlase MD[™] Turbo clinical indications.

The Waterlase MD[™] Turbo is the ideal all-tissue laser for the multidisciplinary dentist who performs a broad spectrum of procedures, or for the specialist. The MD Turbo combines high speed with industry-leading Waterlase technology, delivering the highest level of clinician control, operating efficiency, and flexibility in tip and accessory selection. For optimal clinical results and patient comfort in hard and soft tissue procedures, The Waterlase MD[™] Turbo sets a new standard of performance.

HARD TISSUE

General Indications*

- Class I, II, III, IV and V cavity preparation
- Caries removal
- Hard tissue surface roughening or etching
- Enameloplasty, excavation of pits and fissures for placement of sealants

* For use on adult and pediatric patients

ENDODONTIC SURGERY (ROOT AMPUTATION) INDICATIONS

- Flap preparation – incision of soft tissue to prepare a flap and expose the bone
- Cutting bone to prepare a window access to the apex (apices) of the root(s)
- Apicoectomy – amputation of the root end
- Root end preparation for retrofill amalgam or composite
- Removal of pathological tissues (i.e., cysts, neoplasm or abscess) and hyperplastic tissues (i.e., granulation tissue) from around the apex

ROOT CANAL HARD TISSUE INDICATIONS

- Tooth preparation to obtain access to root canal
- Root canal preparation including enlargement
- Root canal debridement and cleaning
- Laser root canal disinfection after endodontic instrumentation

IMPORTANT: Review all Contraindications, Warnings and Precautions presented in the User Manual before proceeding with using a laser device on patients.

NOTE: Any tissue growth (i.e., cyst, neoplasm or other lesions) must be submitted to a qualified laboratory for histopathological evaluation.

BONE / SURGICAL

- Cutting, shaving, contouring and resection of oral osseous tissues (bone)
- Osteotomy

LASER PERIODONTAL PROCEDURES

- Waterlase MD[™] Turbo Er,Cr:YSGG assisted new attachment procedure (cementum-mediated periodontal ligament new-attachment to the root surface in the absence of long junctional epithelium).
- Removal of subgingival calculi in periodontal pockets with periodontitis by closed or open curettage.
- Removal of highly inflamed edematous tissue affected by bacteria penetration of the pocket lining and junctional epithelium.
- Full thickness flap
- Partial thickness flap
- Split thickness flap
- Laser soft tissue curettage
- Laser removal of diseased, infected, inflamed and necrosed soft tissue within the periodontal pocket
- Removal of highly inflamed edematous tissue affected by bacteria penetration of the pocket lining and junctional epithelium
- Removal of granulation tissue from bony defects
- Sulcular debridement (removal of diseased, infected, inflamed or necrosed soft tissue in the periodontal pocket to improve clinical indices including gingival index, gingival bleeding index, probe depth, attachment loss and tooth mobility)
- Osteoplasty and osseous recontouring (removal of bone to correct osseous defects and create physiologic osseous contours)
- Ostectomy (resection of bone to restore bony architecture, resection of bone for grafting, etc.)
- Osseous crown lengthening

SOFT TISSUE INDICATIONS INCLUDING PULPAL TISSUES*

Incision, excision, vaporization, ablation and coagulation of oral soft tissues, including:

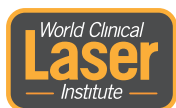
- Excisional and incisional biopsies
- Exposure of unerupted teeth
- Fibroma removal
- Flap preparation – incision of soft tissue to prepare a flap and expose the bone
- Flap preparation – incision of soft tissue to prepare a flap and expose unerupted teeth (hard and soft tissue impactions)
- Frenectomy and frenotomy
- Gingival troughing for crown impressions
- Gingivectomy
- Gingivoplasty
- Gingival incision and excision
- Hemostasis
- Implant recovery
- Incision and drainage of abscesses
- Laser soft tissue curettage of the post-extraction tooth sockets and the periapical area during apical surgery
- Leukoplakia
- Operculectomy
- Oral papillectomies
- Pulpotomy
- Pulp extirpation
- Pulpotomy as an adjunct to root canal therapy
- Root canal debridement and cleaning
- Reduction of gingival hypertrophy
- Removal of pathological tissues (i.e., cysts, neoplasm or abscess) and hyperplastic tissues (i.e., granulation tissue) from around the apex
- Soft tissue crown lengthening
- Treatment of canker sores, herpetic and aphthous ulcers of the oral mucosa
- Vestibuloplasty

* For use on adult and pediatric patients

Rapid return on investment.

With its exceptional versatility, the MD Turbo can quickly pay for itself. By enabling new capabilities such as multi-quadrant dentistry, the MD Turbo brings additional revenue to the practice while reducing the number of patients referred out. Many procedures can also be performed without anesthetic, so dentists and clinicians spend less time waiting to begin working. And of course, any device that reduces the need for anesthetic is also reducing pain and discomfort, something highly attractive to new patients.

Achieve laser proficiency.



1. Two-day Certification Training Course combining lecture, hands-on exercises and/or live patient demonstrations included with the purchase of each Waterlase MD™ Turbo.
2. Biolase is a world leader in laser education and training through its education arm, the World Clinical Laser Institute. With more than 10,000 members worldwide, the WCLI is the largest dental and medical laser education organization in the world.



Waterlase MD™ Turbo technical specifications.

Wavelength	Er,Cr:YSGG, 2780 nm
Power	0.1 to 8.0 W
Pulse Repetition Rates	10-50 Hz Clinician Selectable
Pulse Energy	0-300 mJ
Laser Classification	4
Operating Voltage	100-230 VAC
Dimensions	10.5 x 19 x 32 in (27 x 48 x 91 cm)
Weight	75lbs (34 kg)

Specifications subject to change without notice.

1. Kleinknecht RA, Thorndike RM, McGlynn FD, Harkavy J (January 1984). "Factor analysis of the dental fear survey with cross-validation". J Am Dent Assoc 108 (1): 59-61. PMID 6582116.
2. Getka EJ, Glass CR (Summer 1992). "Behavioral and cognitive-behavioral approaches to the reduction of dental anxiety". Behavior Therapy 23 (3): 433-48. doi:10.1016/S0005-7894(05)80168-6.
3. Milgrom P, Weinstein P, Getz T (1995). Treating Fearful Dental Patients: A Patient Management Handbook (2nd ed.). Seattle, Wash.: University of Washington, Continuing Dental Education. doi:10.1111/j.1600-0528.1996.tb00893.x. ISBN 1880291010.
4. Levin, Roger P. (2010) "Surprising Trends in Laser Usage", Dental Economics, 100 (3), 86-89,98.
5. Big Idea Group, Unpublished consumer research: "Waterlase Consumer Insight", Oct. 2009.

About Biolase.

Founded in 1986, Biolase Technology, Inc., specializes in lasers for medicine and dentistry that feature proprietary and patented technologies for reducing pain and improving clinical results.

Only Biolase combines the leading laser technology – continuously improved through ongoing clinical R&D and engineering – with unmatched training, practice integration support and service.

Biolase leads the global dental laser market with over 12,000 lasers in use today and the most complete family of dental lasers – from diode lasers to the most advanced soft- and hard-tissue laser, the Waterlase MD™ Turbo.

The most complete family of dental laser solutions, to match the needs of you and your patients perfectly as you expand your laser applications:



The Personal Laser, for everyday soft-tissue procedures.



The Total Diode Solution™, including whitening and temporary pain relief.



Economical, entry-level soft and hard tissue laser for common restorative and pediatric procedures.



Best-of class soft and hard tissue laser for common and advanced restorative, periodontics, endodontics, cosmetic, surgical and pediatric procedures.



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Deep Pocket Therapy with
New Attachment, and
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BIOLASE

The Biolase
Total Solution



Clinical
R+D



Industry Leading
Technology



Training +
Certification



Practice
Integration



Service +
Support