The SLT Nd:YAG Contact Laser in ENT-Head & Neck Surgery

Precision, Hemostasis, Versatility

SLT
### Nasal/Sinus

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Device/Technique</th>
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<tr>
<td>Turbinectomy</td>
<td>Round probe ablation</td>
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<td></td>
<td>Scalpel resection</td>
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<td>Scalpel interstitial</td>
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<td>Polypectomy</td>
<td>Round probe ablation</td>
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<td>Flat probe coagulation</td>
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<td>Scalpel resection</td>
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<td>Rhinophyma</td>
<td>Chisel probe excision</td>
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<td>Round probe ablation</td>
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<td>Bleeding Disorders</td>
<td>Flat probe coagulation</td>
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<tr>
<td>Endo-Nasal DCR</td>
<td>Bullet probe ablation</td>
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### Oro-Pharyngeal

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<th>Procedure</th>
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<tr>
<td>Hemiglossectomy</td>
<td>Scalpel resection</td>
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<td>Round probe ablation</td>
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<td>LAUP/UPPP</td>
<td>Scalpel incision</td>
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<td>Chisel probe excision</td>
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<td>Round probe ablation</td>
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<td>Tonsillectomy</td>
<td>Scalpel resection</td>
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<td>Chisel probe excision</td>
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<td></td>
<td>Round probe ablation</td>
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<td>Oral Cavity Lesions</td>
<td>Scalpel resection</td>
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### Head & Neck

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<tr>
<th>Subheading</th>
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<th>Device/Technique</th>
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<tr>
<td>Vascular Malformations</td>
<td>Scalpel resection</td>
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<tr>
<td>Radical Neck</td>
<td>Scalpel resection</td>
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<tr>
<td>Thyroidectomy</td>
<td>Scalpel resection</td>
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<td>Parotidectomy</td>
<td>Scalpel resection</td>
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### Laryngo Tracheal

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<tr>
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<tr>
<td>Vocal Cord Polypectomy</td>
<td>Round probe ablation</td>
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<td>Chisel probe excision</td>
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<td>Arynecoidectomy</td>
<td>Scalpel resection</td>
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<td>Tracheal Stenosis</td>
<td>Scalpel incision</td>
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Precision, Hemostasis, Versatility

- Versatility for incision, excision, ablation and coagulation
- Excellent hemostasis
- Controlled depth of tissue necrosis (to as little as 0.5mm)
- Safe, tactile/palpatative technique (no backstop required)
- Minimal smoke production
- Interchangeable probes providing different tissue effects

Contact Laser™ probes with Wavelength Conversion™ effect treatments (left to right: scalpel, chisel, round probe) and native wavelength effect (flat probe).

Only SLT offers precise hemostatic vaporization with the Contact Laser or deep tissue coagulation with the native Nd:YAG wavelength in a single integrated system. Interchangeable probes and scalpels provide the ultimate flexibility.

Unlike conventional laser systems, the SLT Contact Laser enables the surgeon to use the laser instrument in direct contact with the tissue being treated. This eliminates the need to use a backstop and provides tactile feedback, significantly enhancing ease of use and precision in many applications. In addition, the system enables the surgeon to perform non-contact Nd:YAG procedures.

With the SLT Contact Laser system, the ENT-Head & Neck surgeon can precisely cut and/or broadly ablate tissue through vaporization, while achieving excellent hemostasis. Superior hemostasis improves visualization and may reduce the time needed to perform many procedures.

Contact Laser probes and scalpels incorporating Wavelength Conversion effect surface treatments reduce the depth of tissue necrosis to typically less than 0.5mm, enabling the surgeon to work in close proximity to vital nerves and major vessels. Precision, control and safety are also enhanced, because the desired tissue effect is achieved without electrical stimulation of nerves and muscles. This often contributes to reduced edema, as well as reduced pain and discomfort.

As the following procedures illustrate, no other laser system available today can match the versatility and control provided by the SLT Nd:YAG and Contact Laser.
The Right Technology for LAUP

- Excellent hemostasis assures a dry procedure for reduced patient concern
- Ability to incise palate and resect uvula at or near its base
- Greater architectural discretion for a faster, more complete procedure
- Potential for fewer treatment sessions allows for reduced cost and greater convenience to surgeon and patient
- Minimal smoke production decreases the chance of inhalation, enhancing patient comfort
- Minimal char may contribute to diminished pain

UPPP, Tonsillectomy, Hemiglossectomy, Oral Cavity Lesions

- Excellent hemostasis assures minimal blood loss and good visibility
- Precise resection assures controlled tissue effect with minimal necrosis
- No electrical nerve/muscle stimulation may reduce edema and diminish pain
**Nasal Polypectomy and Turbinectomy**

- Excellent hemostasis minimizes the need for post-op packing
- Excellent visibility permits easier identification of anatomical landmarks
- Precise control of energy assures minimal depth of necrosis and improved safety
- Familiar tactile, palpatve technique facilitates greater safety and control
- Versatile delivery system facilitates numerous techniques including ablation, resection and interstitial coagulation

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**Sinu-Clear™ Laser Sinus Surgery**

- Warm saline lavages sinus cavity and potentiates the hemostatic effect of the Contact Laser
- Minimal to no bleeding, excellent hemostasis
- Excellent visualization for optimum safety and minimal risk of complications

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**Endo-Nasal Dacryocystorhinostomy**

- Excellent hemostatic vaporization minimizes bleeding with enhanced visualization
- Precise control of energy and familiar tactile technique assure minimal depth of necrosis and improved safety
Laryngo-Tracheal Applications

Tracheal Stenosis, Vocal Cord Polypectomy, Arytenoidectomy

- Precise control of thermal damage minimizes collateral necrosis and provides enhanced safety
- Minimal post-op edema may allow for earlier decannulation
- Excellent hemostasis assures minimal blood loss
- Safe, tactile technique eliminates need for backstop

Head & Neck Applications

Resection of Tumors and Vascular Malformations

- Excellent hemostasis assures minimal blood loss
- Clean, dry field enhances visualization and demarcation of vital structures
- Precise energy control minimizes collateral necrosis
- No electrical nerve/muscle stimulation may reduce edema and diminish pain
Contact Laser Delivery Systems for ENT/Head & Neck

ENT Handpiece for Smoke and/or Fluid Evacuation
For Use with Flexible Endoscopic Fibers

- Laser Aspiration Handpiece (LAH) (Reusable Stainless Steel)
- Laser Aspiration Wands (LAW) (Reusable Stainless Steel)
  - LAW 0°
  - LAW 60°
  - LAW 80°

Dual Lumen Laser Aspiration Handpieces
LAH 2

LAH 3, 4, 5

Integrated Handpiece/Fiberoptic

- Nasal Handpiece
  SSRH 6 (2.5 mm O.D.)

- Bayonet Handpiece
  SSRH 10 (2.5 mm O.D.)

- Laryngology Handpiece
  SSRH 4 (2.5 mm O.D.)

- Short Curved Handpiece
  SSRH 7 (2.5 mm O.D.)

- Short Curved Handpiece w/Touch Control
  TCRIH 7

- Long Curved Handpiece
  SSRH 8

Flexible Endoscopic Fibers

- FEF Large
  XFEF 2.2-SMA
  (For Use With Gas Coolant)

- SFE 2.2
  SFE 2.2-SMA
  (For Use With Fluid Coolant)

- Fluid connector (shrouded)
- Gas connector

*Intended for use with non-SLT lasers having standard SMA 409 connector.

Probes & Scalpels

- Scalpel - 9mm
  (GRP 2, GRP 4, GRP 6, GRP 8)
  Precise Cutting

- Scalpel - 19mm
  (ERP 2, ERP 4, ERP 6)
  Precise Cutting

- Round Probe
  (MTR 1.5, MTR 3.5, MTR 3)
  General Purpose Ablation

- Large Round Probe
  (MTRL 6, MTRL 7)
  General Purpose Ablation

- Chisel Probe
  (MD 2.5, MD 3.5)
  Excision/Ablation

- Large Chisel Probe
  (MD 6)
  Excision/Ablation

- Flat Probe
  (MT 1.5, MT 3.5)
  Deep Coagulation

- Diffuser Flat Probe
  (DF2)
  Diffused Coagulation
The SLT Nd:YAG Laser

Ideal for ENT-H&N Procedures

The CL MD/110-25W Laser connects into any 20 Amp, 110 VAC electrical outlet and delivers from 1 to 25 watts of power to tissue. This power range is suitable for all of the ENT-Head & Neck procedures described in this brochure, whether performed in the office, surgical suite or hospital.

The portable, compact CL MD/110-25W features an instructional control panel for ease of use and minimal training. The laser is completely self-contained, has a small footprint and weighs less than 250 pounds.

Other key CL MD/110-25W features include:

- Upgradeability to 40, 60 or 100 Watts for investment assurance
- Compatibility with SLT's entire family of Contact Laser and Side-Firing Free-Beam Probes for multi-specialty utilization
- Proprietary SLT and SMA-905 interfaces for broad compatibility
- Flexible purchase, lease and lease/purchase programs
- Turnkey Per-Procedure and Short-Term Rentals through the MEDIQ PRN/SLT Laser Surgery Assurance Program*
- Complete service and support capabilities for lasers and delivery systems.

* Not available in all areas. Contact SLT for details.

Unmatched Versatility and Control

Multi-procedural utility, broad compatibility, flexible purchase/rental programs and comprehensive support make the SLT Laser System an indispensable complement to any surgeon's practice. For additional information, contact your SLT Laser Utilization Specialist or telephone 1-800-366-4758.

Multi-Specialty

The SLT CL MD series laser can be used with more than 70 SLT Fibers, Probes, Scalpels and Handpieces in virtually all surgical specialties.

SLT's multiple laser and delivery systems options provide hospitals a true multi-specialty surgical device for use in the following surgical specialties:

- ENT, Head & Neck
- Urology
- Gynecology
- General Surgery
- Gastroenterology
- Orthopedics
- Pulmonology
- Ophthalmology
- Neurosurgery
- Plastic Surgery
- Thoracic/Cardiovascular

SLT, Contact Laser, and Wavelength Conversion are trademarks of Surgical Laser Technologies. SLT laser products are covered under one or more of the following SLT-owned U.S. Patents: 5,166,500; 4,592,353; 4,693,244; 4,736,743; 4,785,805; 4,899,144; 4,895,145; 5,154,708; 5,221,279; other patents pending. Contact Laser Delivery Systems are designed for use with SLT-authorized lasers.


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