

Skin Tightening Device: TRIANGEL's ENDOLASER Plus RF Microneedling for Jawline Definition and Body Tightening

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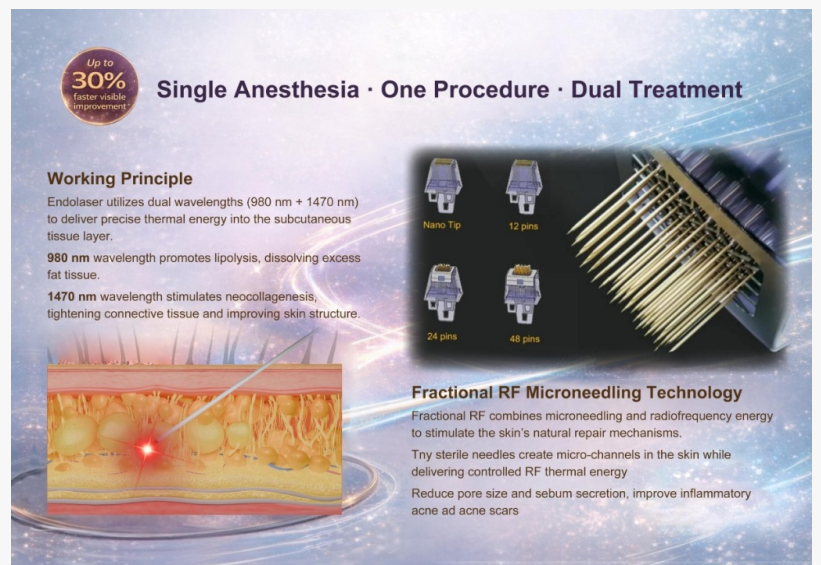
Aesthetic patients presenting with lower facial laxity and localized body adiposity frequently exhibit both deep structural sagging and superficial dermal elastosis. Treating these concurrent anatomical layers typically requires combining deep interstitial fat reduction with multi-level dermal collagen remodeling. Conventional clinic protocols often separate laser lipolysis and radiofrequency resurfacing into disjointed appointments, increasing operational overhead and patient discomfort. To address this clinical challenge, medical laser manufacturer [TRIANGEL](#) engineered the ENDO PRO workstation as an integrated dual-modality platform. Operating under certified ISO 13485 standards, TRIANGEL develops medical platforms holding FDA clearance and Medical CE certification. The [endolaser and RF microneedling skin tightening device](#) delivers synergistic subcutaneous tissue contraction, fractional dermal coagulation, and optimized procedural productivity for aesthetic practices.



ENDOPRO®
Clinical Applications

- ✓ **Facial Contouring & Skin Tightening**
Improve facial definition and lift sagging tissue
- ✓ **Wrinkle Reduction**
Stimulate collagen remodeling to reduce fine lines and wrinkles
- ✓ **Skin Rejuvenation**
Enhance skin texture, elasticity and overall radiance
- ✓ **Acne & Acne Scar Improvement**
Reduce inflammatory acne and improve acne scars
- ✓ **Pore Size Reduction**
Regulate sebum secretion and refine enlarged pores
- ✓ **Fat Reduction & Lipolysis**
Minimally invasive reduction of localized fat deposits
- ✓ **Skin Regeneration & Recovery**
Accelerate dermal regeneration and improve post-procedure recovery

Rejuvenate • Tighten • Sculpt



Up to 30% faster visible improvement

Single Anesthesia • One Procedure • Dual Treatment

Working Principle
Endolaser utilizes dual wavelengths (980 nm + 1470 nm) to deliver precise thermal energy into the subcutaneous tissue layer.
980 nm wavelength promotes lipolysis, dissolving excess fat tissue.
1470 nm wavelength stimulates neocollagenesis, tightening connective tissue and improving skin structure.

Fractional RF Microneedling Technology
Fractional RF combines microneedling and radiofrequency energy to stimulate the skin's natural repair mechanisms.
Tiny sterile needles create micro-channels in the skin while delivering controlled RF thermal energy.
Reduce pore size and sebum secretion, improve inflammatory acne and acne scars

Nano Tip, 12 pins, 24 pins, 48 pins

Engineered around proprietary optoelectronic and radiofrequency innovations, the TRIANGEL ENDO PRO platform integrates five core technological pillars that deliver predictable clinical

outcomes across facial and body vectors:

Deep Interstitial Endolaser Ablation and Septal Contraction: Dual 980 nm and 1470 nm laser emission driving subcutaneous fat emulsification and immediate SMAS tightening.

Fractional 4 MHz RF Microneedling Dermal Remodeling: Multi-depth delivery across 0.5 to 7 millimeters inducing uniform thermal coagulation across papillary and reticular dermis.

Single Anesthesia Dual Treatment Workflow: Synchronized deep fiber sculpting and superficial microneedling executed within a single clinical session.

Anatomical Parameter Calibration Across Jawline and Body Zones: Dedicated tip configurations and programmable pulse widths tailored for submental, abdominal, and extremity tightening.

Integrated Workstation Engineering and Capital Efficiency: Unified dual-modality architecture reducing equipment footprint, simplifying operator training, and accelerating practice investment recovery.

Deep Interstitial Endolaser Ablation and Septal Contraction

Subcutaneous tissue remodeling requires selective optical absorption without excessive lateral heat conduction. The ENDO PRO platform integrates a dual-wavelength diode laser engine combining 980 nm and 1470 nm emissions through original American QPC diode arrays. The 1470 nm laser module delivers 1 to 17 watts, exhibiting a high absorption coefficient in interstitial water and adipocyte intracellular fluids. This targeted interaction causes irreversible thermal breakdown of adipocyte membranes above 55 degrees Celsius.

Simultaneously, the 980 nm diode module operates from 1 to 30 watts, targeting intravascular oxyhemoglobin to facilitate microvascular hemostasis along the treatment tunnel. Thermal conduction into the superficial musculoaponeurotic system and interlobular fibrous septa elevates local temperatures to 50 through 65 degrees Celsius. This defined thermal excitation initiates immediate collagen triple-helix denaturation, producing tangible tissue tightening throughout the mandibular line and submental area.

Fractional 4 MHz RF Microneedling Dermal Remodeling

While interstitial laser fibers address deep subcutaneous volume and fascial laxity, superficial skin texture requires structured electrothermal stimulation. The ENDO PRO platform incorporates a high-frequency 4 MHz fractional radiofrequency microneedling system delivering adjustable power from 10 to 300 watts. The motorized needle array penetrates skin tissues with stepless depth adjustment ranging from 0.5 to 7 millimeters.

This expansive depth range enables sequential multi-layer energy deposition across three

distinct release depths in a single pass. Gold-plated microneedles deliver focused RF thermal coagulation directly into the deep reticular dermis while preserving epidermal integrity. The mechanical micro-punctures combined with RF thermal columns stimulate vigorous fibroblast proliferation, reduce excessive sebum secretion, refine enlarged pores, and remodel inflammatory acne scars.

Single Anesthesia Dual Treatment Workflow

Clinical productivity in aesthetic practices depends on optimizing procedural duration and patient comfort. The ENDO PRO architecture introduces the single anesthesia dual treatment workflow. Clinicians administer localized tumescent anesthesia once across the planned anatomical zone. The operator first introduces sterile bare-tip silica fibers (400 to 1000 micrometers via standard SMA905 ports) through tiny entry ports to perform subdermal lipolysis and fascial tightening.

Immediately following fiber withdrawal, the clinician applies the 4 MHz fractional RF handpiece across the overlying dermal surface. Because the target tissue remains fully anesthetized, the RF microneedling procedure proceeds without requiring supplementary nerve blocks or topical anesthetic creams. This integrated protocol compresses two major clinical interventions into a streamlined 60-minute appointment, enhancing clinic room turnover and patient compliance.

Anatomical Parameter Calibration Across Jawline and Body Zones

Clinical success across heterogeneous patient anatomy requires adaptable hardware configurations. The ENDO PRO platform provides interchangeable microneedle cartridges, including 12-pin, 24-pin, 40-pin arrays, and non-invasive nanocrystalline heads. For precise mandibular definition and double chin reduction, practitioners utilize 12-pin or 24-pin arrays with 1.5 to 3.0 millimeter penetration depths alongside fine optical fibers.

Conversely, treating expansive body zones such as the post-partum abdomen, gluteal folds, and inner thighs requires high-coverage configurations. Operators employ 40-pin arrays reaching depths up to 7 millimeters to tighten fibrous connective tissue and improve stretch marks. Three programmable memory presets allow clinicians to store verified energy parameters, ensuring consistent treatment reproducibility across diverse anatomical indications.

Integrated Workstation Engineering and Capital Efficiency

Medical aesthetic clinics frequently evaluate the commercial distinction between consolidated workstations and standalone single-purpose equipment. Procuring separate diode laser platforms and independent RF microneedling units doubles initial capital outlays and requires substantial treatment room square footage. Managing divergent service contracts and distinct spare parts inventories increases recurring administrative expenses.

In contrast, the TRIANGEL ENDO PRO platform consolidates both advanced technologies into a unified compact housing. Clinics can offer comprehensive facial sculpting, deep fat reduction, skin tightening, and scar revision through a single console. Standardized operating software, consolidated technician training, and rapid procedural turnaround accelerate capital investment recovery, delivering high return on investment for progressive aesthetic practices.

Multi-Layer Skin Tightening Strategy and Sourcing Summary

Selecting an advanced multi-modality workstation requires verifying optical stability, precision depth control, and international medical device compliance. Sourcing directly from manufacturer TRIANGEL provides aesthetic practices with direct access to specialized laser and radiofrequency engineering teams. Direct factory cooperation simplifies customized graphical interface branding, localized software adaptation, and reliable component replenishment.

Furthermore, factory integration supports predictable procurement schedules with worldwide door-to-door delivery within two weeks. Supported by 12 dedicated quality specialists, 15 partner hospitals, and two US flagship training centers, TRIANGEL delivers verified hardware reliability. Clinics benefit from dependable equipment longevity, comprehensive clinical protocols, and responsive technical support across the platform lifecycle.

Technical Consultation and Factory Documentation

Aesthetic clinics, plastic surgery centers, and medical device distributors are invited to explore the certified TRIANGEL ENDO PRO workstation. Access optical component schematics, RF microneedle configurations, and direct factory procurement quotations by visiting the official TRIANGEL medical engineering portal: <https://www.triangelmed.com/>.

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