

Indication

Aesthetic Surgical

Corn, Warts -
Syringoma, Etc. -

Aesthetic Fractional

Acne Scar, Wrinkle, Large Pore -
Skin Resurfacing, Stretch Mark -
Skin Tightening, Laser Peeling -
Age Spot, Etc. -

General Surgical

Excision, Incision,
Phimosiectomy -
Tumor Elimination -
Hemorrhoids, Etc. -

Vaginal

- Pudenda
- Genitourinary Syndrome of Menopause
- Vaginal Rejuvenation
- Vaginal Atrophy
- Stress Urinary Incontinence

Dental

- Implants Operation
- Hypersensitivity, Hemostasis
- Sterilization in Root Canal, Etc.

ENT

- Allergic Rhinitis, Snoring

SMAXEL PREMIUM

Fractional CO2 Laser

Technical specification

Laser Medium	CO2 (RF Tube)
Wavelength	10,600 nm
Guide Beam	650 nm < 5 mW
Power	1-40 W
Aiming Beam	Diode 650 nm
Cooling	Water
Dimension (W*L*H)	440 mm (W) X 480 mm (L) X 1055 mm (H)
Weight	52 Kg

Handpieces	50 mm / 100 mm (Standard) Dental / ENT (optional)	Beam Mode	Ultra Pulse
Operation Mode	CW / Normal Pulse / Super Pulse Super Pulse Continuous / Ultra Pulse Smart Protocol (General Surgery / Dental Surgery)	Density Level	1-23 steps (x, y, line); 9-4489 dots
Pulse Duration	Continuous: 2-30 ms Ultra Pulse: 90-900 μ s Super Pulse: 1.0-4.0 ms Normal Pulse: 5-20 ms	Operation Mode	Fractional Mode Low Pain Fractional Mode
Repeat Time	Off, 2/500 ms adjustable, 5 ms, 10 ms, 30 ms, 50 ms, 70 ms, 100 ms, 250 ms, 500 ms	Beam Pattern	Array, Grid, Random
		Beam Size	2x2 – 20x20 mm
		Beam Shape	Square, Triangle, Octagon, Circle
		Depth Level	1-5 steps
		Handpiece	Fractional HP (galvanic motor) Vaginal Rejuvenation HP (optional)
		Repeat Time	Off, 0.5, 1, 1.5, 2, 2.5 ms

SMAXEL PREMIUM, the pinnacle of CO2 fractional laser technology by IDS, is a groundbreaking system designed to address a diverse range of concerns.

With its innovative approach and precision engineering, SMAXEL PREMIUM redefines the landscape of mainly 6 different aesthetic and medical applications, offering unparalleled efficacy and versatility—aesthetic surgical, aesthetic fractional, general fractional, vaginal, dental, and ENT.

For each application, SMAXEL PREMIUM is equipped with features that optimize treatment outcomes, and its prowess lies in its ability to minimize downtime while maximizing results. SMAXEL is truly a go-to choice for aesthetic and medical practitioners.

Aesthetic Surgical

50 mm handpiece
100 mm handpiece



Aesthetic Fractional

Fractional HP



General Surgical

50 mm handpiece
100 mm handpiece



Vaginal

Fractional handpiece
Manual LVR handpiece
Automatic LVR handpiece



Dental

Dental handpiece



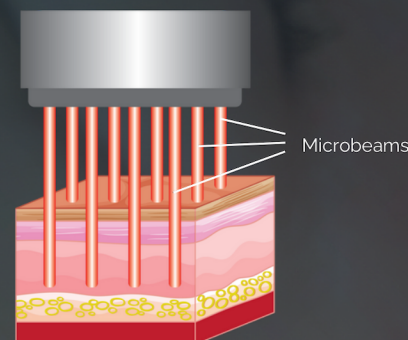
ENT

ENT handpiece and tips



Scar treatment by fractional CO2 laser

The fractional CO2 laser emits a concentrated beam of light that is fractionated into thousands of tiny microbeams. These microbeams penetrate into the deep skin, creating controlled columns of both vaporized and coagulated zones that stimulate the production of new collagen and elastin fibers. As a result, the damaged skin cells are replaced by new, healthier tissue, and eventually appearance of scars is improved over time.



Vaginal rejuvenation by fractional CO2 laser

Similar to scar treatment, the fractional CO2 laser treatments for vaginal rejuvenation utilize a similar principle, but the target and effects are specific to the vaginal tissue. The fractional CO2 laser emits a concentrated beam of light that is fractionated into thousands of tiny microbeams. These microbeams penetrate into vaginal tissues, creating controlled columns of both vaporized and coagulated zones that trigger a healing process in the tissue, stimulating the production of new collagen, elastin fibers, and vascularization in the vaginal wall. This results in enhancing the strength and elasticity of the vaginal tissue, eventually leading to improvements in vaginal laxity, elasticity, and moisture levels. Over the weeks following the treatment, patients may notice improvements in vaginal tightness, lubrication, and overall tissue health.

