

DEKA
Innate Ability

THE NEW PLATFORM

HELIX

**10,600 nm + 1570 nm Ablative
and Non-Ablative Laser
Technology for Total
Dermatological Procedures**

Expertly Customized Fractional
Ablative & Non-Ablative Treatments

HELIX stands out in **Aesthetics** and **Dermatology**



HELIX

EVOLVING EXCELLENCE

COOLPEEL

HYPERTROPHIC AND
ATROPHIC SCARS

PERIOULAR
TREATMENT

EYELIDE PRO
PROCEDURE

DEEP SCARS

DERMATOLOGICAL
SURGERY



THE SCIENCE BEHIND

HELIX

The Revolutionary Dual Wavelength Technology

DEKA has developed HELIX, the new CO₂ ablative and 1570 nm non-ablative laser solution.

HELIX offers a wide range of treatments for multiple body areas, designed to enhance overall skin appearance while effectively targeting specific issues. The most advanced fractional CO₂ technology and non-ablative treatments can be used either independently or combined, delivering superior clinical outcomes with reduced downtime.

Why Choosing HELIX:

Unmatched Power and Versatility

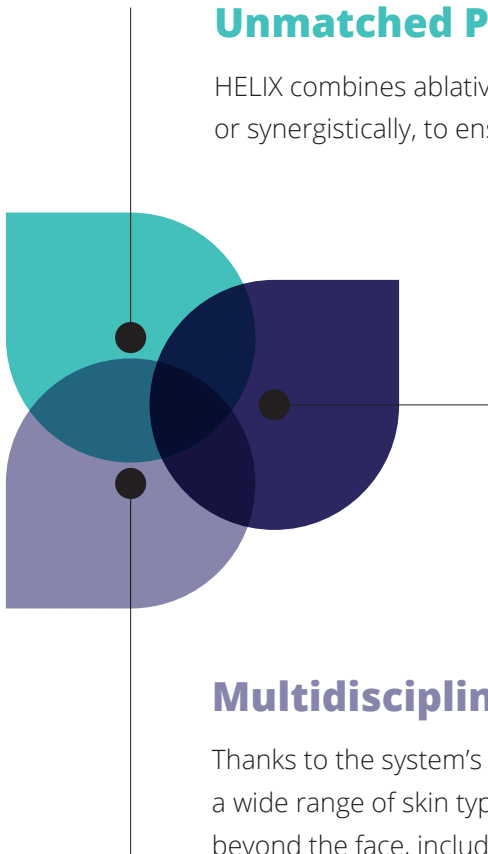
HELIX combines ablative and non-ablative technologies, used alone or synergistically, to ensure unmatched treatment versatility.

Total Control and Maximum Efficacy

The laser source, featuring exclusive PSD® technology, SmartStack, and Scattered Modality, achieves unprecedented levels of efficacy and safety.

Multidisciplinary and Flexibility

Thanks to the system's exceptional flexibility, practitioners can safely treat a wide range of skin types from light to dark phototypes and address areas beyond the face, including the neck, décolleté, and hands.



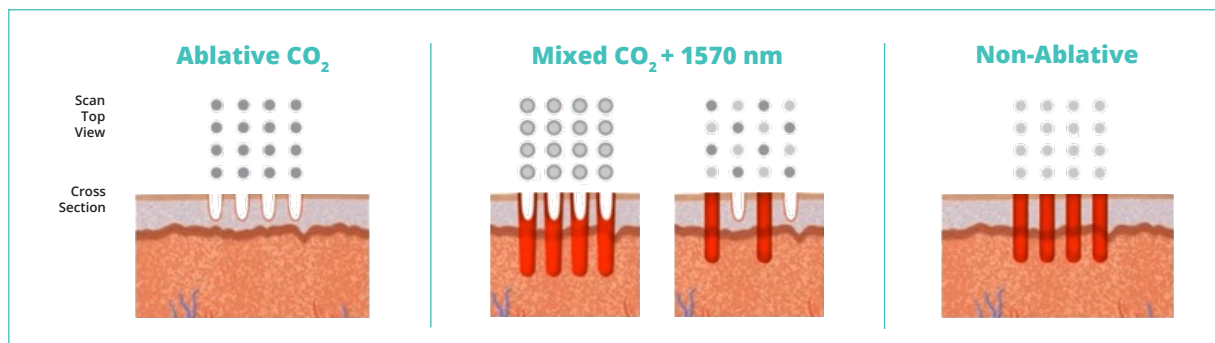
THE SCIENCE BEHIND

CO₂+1570 nm: The ideal Combination for Real Results

HELIX combines fractional ablative energy at 10,600 nm and non-ablative fractional energy at 1570 nm, delivered through sequential or alternating mixed modes. The synergistic interaction of these two wavelengths works harmoniously within the skin, ensuring highly effective, safe, and customizable treatments even for darker skin phototypes. Low ablation densities help minimize downtime, enabling a faster return to daily activities.

The CO₂ ablative laser, powered by PSD® technology, provides precise control over treatment outcomes and recovery time, while the 1570 nm non-ablative laser delivers controlled thermal energy without epidermal vaporization.

Sequential or alternating emission of the 10,600 nm and 1570 nm wavelengths, each with fully adjustable parameters, allows for completely personalized treatment protocols. The unique depth profile and the ability to modulate non-ablative energy to minimize healing time make HELIX one of the most innovative skin treatment laser solutions available.



PSD® Technology: Maximum Efficacy, Precision and Total Control

PSD® (Pulse Shape Design) technology makes possible the selection of multiple pulse modalities, allowing selective management of vaporization depth and thermal effect in both freehand and fractional scanning modes. By varying the pulse modality SP (SmartPulse), DP (DEKAPulse), and HP (HighPulse) clinicians can achieve different ablation and stimulation effects tailored to specific clinical needs. This flexibility ensures optimal solutions for a wide range of skin resurfacing and surgical treatments. With SP, DP, and HP, practitioners always have the most appropriate option to meet each patient's individual requirements.



SmartPulse (SP)



DEKAPulse (DP)



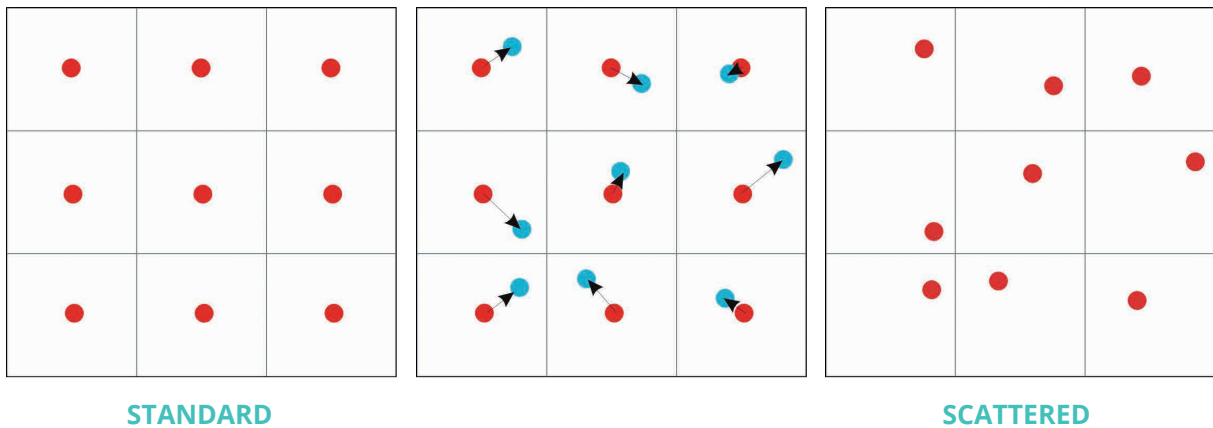
HighPulse (HP)

THE SCIENCE BEHIND

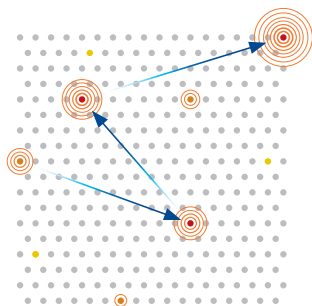
Smart Scanning Modality

Scattered Modality

Scattered Modality ensures uniform scanning across the entire treatment area, with a gradual fade along the edges to prevent DOT overlap. This approach enhances treatment homogeneity between the scanned area and the surrounding skin texture. Scattered Modality delivers uniform, homogeneous skin stimulation, promoting smoother skin texture and more natural aesthetic outcomes.



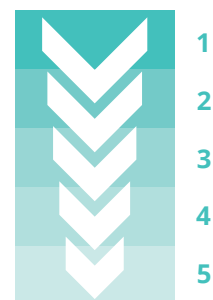
smart·TRACK



SmartTrack is the algorithm specially developed to optimize the scanning pattern, minimizing localized temperature increases.

SmartStack

SmartStack technology offers five adjustable levels for precise control of vaporization depth. Increasing SmartStack levels progressively enhance tissue shrinkage, optimizing clinical efficacy while maintaining a high-safety profile and minimizing recovery time.



THE SCIENCE BEHIND

Set up Complete with Scanning Systems

The upgraded HELIX ergonomic handpiece provides operators with exceptional control, minimizing the need to interact with the touchscreen display. Its innovative Scattered Modality reduces pattern overlap while maximizing treatment speed. The advanced GUI is intuitive and allows timely parameter adjustments tailored to each patient's anatomy and clinical condition. The scanner ring that comes into contact with the patient's skin is equipped with an integrated contact skin cooling system, increasing patient comfort during treatment. With 60 W of power and a 20 × 20 mm scanning area, HELIX enables faster procedures thanks to broader area coverage.

MATRIX DOT

Scanning system designed to ensure utmost ergonomics in fractionated or traditional treatments (modifiable parameters: Size, stretching and scanning area shape).



SCAR 3 PRO

Scanning system designed for minimizing the risk of post-treatment hyper and hypopigmentation thanks to the smaller spot size that generates greater depth of action with reduced energy.

DERMASCAN

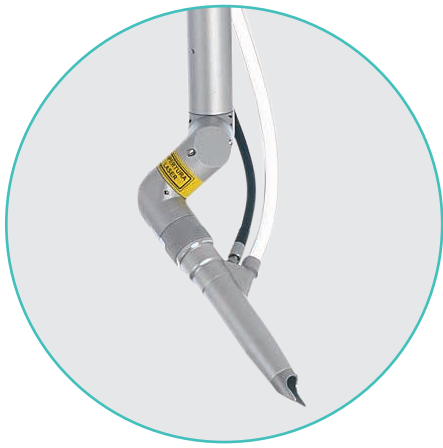
Scanning system paired with handpieces with 4" and 7" focus designed for fast and tridimensional ablations, with integrated smoke evacuator.



Special Handpieces

HELIX offers a wide range of handpieces equipped with different focusing lenses, spacers, and mirrors. A dedicated air inlet ensures continuous airflow, protecting lenses from dust and debris accumulation.

The integrated smoke evacuation channel allows efficient smoke extraction directly at the tip, further enhancing treatment safety and operator comfort.



Clinical Results



Courtesy of
Zen Spa



Courtesy of
Allure Infinite Beauty



Courtesy of
Karma Beauty and Wellness



The Floor to Practitioners

“ HELIX is a skin resurfacing dream. I can now mix ablative and non-ablative modalities for extraordinary results, fast, on one efficient platform, and with less downtime than ever before.”

Mark Halsey M.D.

Dermatologist, South Fork - USA

“ HELIX gives a full range of options to address issues from superficial wrinkles to deep scars. We can treat a variety of skin elasticity and color effectively, while managing patient comfort and downtime.”

Rachel Walker M.D.

Plastic Surgery Center of Dallas

THE PERFECT MATCH

Helix Strength

- Fractional ablative and non-ablative technology powered by **60 W, with extensive worldwide clinical use.**
- DEKA's exclusive **Pulse Shape Design (PSD®)** offers full control of CO₂ duration, energy, and pulse shapes, including **HighPulse** and **DEKAPulse**.
- Multiple scanning patterns, **modes, shapes, densities,** with treatment areas up to **20 × 20 mm.**
- **Innovative Scattered Modality** minimizes pattern overlap while maximizing **treatment speed.**
- Integrated skin-contact cooling system to enhance patient comfort.
- No consumables.



Only for DEKA Users:

A great support in medical practice

DEKA *Club*

**MATRIX DOT,
SCAR3 PRO, DERMASCAN**

**Broad Range
of Handpieces**

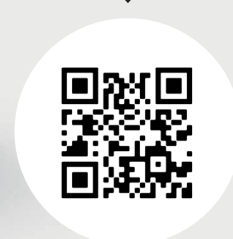
**SmartTrack and
Scattered Mode**

Skin Cooler

**Interactive GUI
(15,6" Rotating Touch
Screen Display)**

PSD® Technology

10,600 nm and 1570 nm



Scan and see
HELIX in action

Technical Specifications

HELIX	
CO₂ Laser	
Laser Type	CO ₂ - RF - PSD
Wavelength	10,6 µm
Laser Emission Mode	TEM ₀₀
Emission Modes	CW - SP - DP - HP - UP
Average Power at Handpiece Output	From 0.1 W to 60 W
Er:Glass	
Wavelength	1570 nm
Laser Emission Mode	Circular multimode
Power	From 2 W to 12 W
General Features	
Internal Database	More than 100 factory stored protocols, upgradeable with USB. Possibility for the user to store a number unlimited custom protocols
Control Panel	Color LCD Touch Screen
Dimensions and Weight	138* (H) x 62 (W) x 63 (D) cm - 70 Kg *with folded articulated arm
Electrical Requirements	100-230 Vac - 50/60Hz - 1500VA

DANGER - Visible and invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation. Class 4 laser product.

This brochure is not intended for the US market.

Certification in accordance with the specifications of Regulation 2017/745/EU. PENDING

HELIX

DEKA
Innate Ability



Dealer stamp



DEKA M.E.L.A. s.r.l.

Via Baldanzese,17 - 50041 Calenzano (FI) - Italy
Tel. +39 055 8874942 - Fax +39 055 8832884

DEKA Innate Ability

A spin-off of the El.En. Group, DEKA is a world-class leader in the design and manufacture of lasers and light sources for applications in the medical field. DEKA markets its devices in more than 120 countries throughout an extensive network of international distributors as well as direct offices in Italy, France, Japan and USA. Excellence is the hallmark of DEKA's experience and recognition garnered in the sphere of R&D in over thirty years of activity. Quality, innovation and technological excellence place DEKA and its products in a unique and distinguished position in the global arena. DEKA produces laser devices in accordance with the specifications of Regulation 2017/745/EU and according to the ISO 9001 and ISO 13485 quality system.