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## **TRICOSCAN**

The Cutting-Edge Solution for Trichology

- Laser-Assisted Hair Transplantation

**DEKA**  
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Tricoscan™

Simplified  
trichological  
procedures



## DEKA presents its new scanning system for Laser-Assisted Hair Transplantation procedures

Thanks to its thirty years of experience in dermatology and surgery, and year-round research into innovative procedures that improve the work of professionals and the lives of the patients, DEKA has developed the new **Tricoscan™**: the CO<sub>2</sub> fractional laser scanning system designed to prepare the skin for follicular transplant and assist the trichologist in this delicate and long operation. **Tricoscan™** is available for SmartXide<sup>2</sup> and SmartXide Touch laser systems.

“ **Tricoscan™** is a simple solution that significantly simplifies my job, above all. The Laser-Assisted Hair Transplantation procedure doesn't replace the traditional technique but rather supports the doctor by facilitating transplant surgery, minimising the duration of the entire procedure by over 30%, reducing costs and limiting any problems during transplantation. The solution is simple, but it requires cutting-edge technology that is specific for this application. The laser pulse guides the professional when transplanting the explanted follicles as they must find an optimal environment for them to take root in the skin. Thanks to PSD technology, **Tricoscan™** balances the ablative and thermal activity, thus creating the perfect delicate environment for transplantation. ”

Ahmed Youssef Abdel-Aal, M.D.

CEO of Juvederm Elite Clinic - Kuwait City, Kuwait

PhD Researcher at Universitat Autònoma de Barcelona - Barcelona, Spain

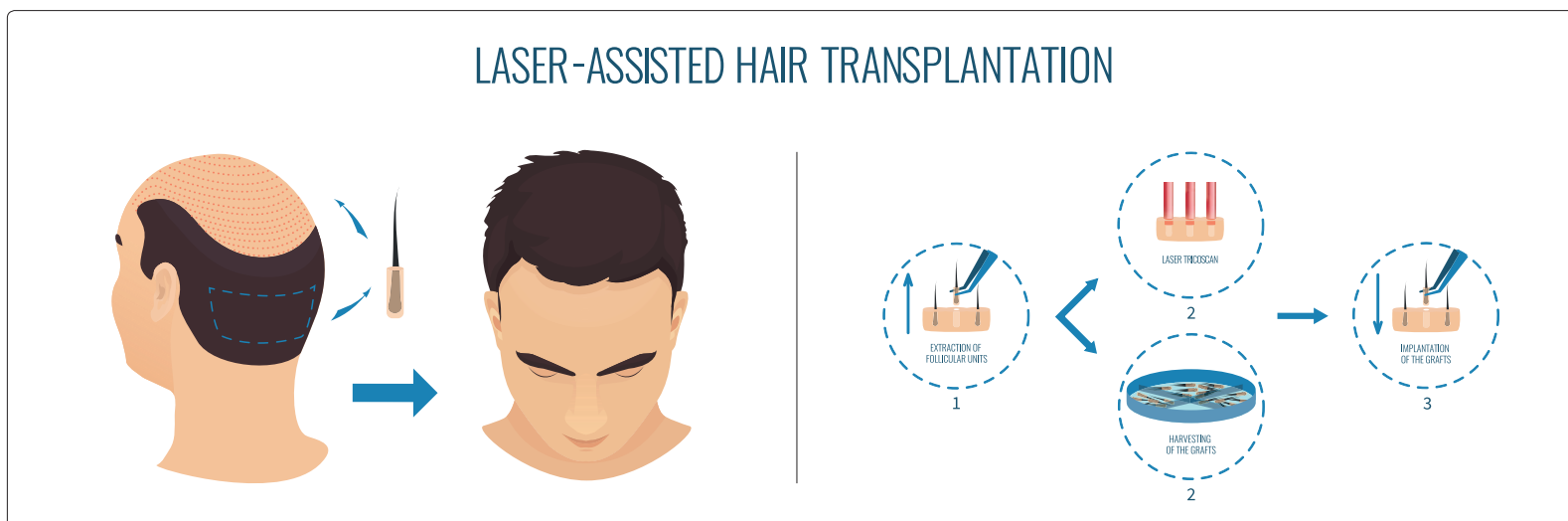


## How to Provide Physicians with Innovative Solutions

For a doctor, the main challenge during hair transplantation is to be able to limit procedure time as much as possible, always ensuring maximum patient comfort. Multiple factors can occur during the procedure (such as excessive bleeding, popping up of bulbs that have already been implanted, implanter deterioration, etc.), which can lead to the scheduled timing not being respected, at the expense of a natural and uniform aesthetic result.

The **Tricoscan™** fractional scanning system with laser-assistance greatly simplifies the implant stage, increasing the speed of the procedure with less effort by the surgeon.

The CO<sub>2</sub> laser removes varying depths of dermal-epidermal tissue, facilitating bulb insertion via the implanter. At the same time, the underlying tissue remains unaltered, thus ensuring the correct transplantation of the new bulb. The superficial micro-hole that is produced by **Tricoscan™** scanning facilitates hair bulb transplantation, requiring lower pressure by the surgeon and drastically reducing needle deterioration.



Furthermore, the lower pressure needed for transplantation reduces scalp distortion and tightness due to insertion of the implanter. This phase is very delicate as distortion of the scalp's surface raises the risk of the already implanted adjacent bulbs popping up. In order to overcome this problem, the alternative transplant technique should be used although it lengthens the procedure time. Using **Tricoscan™** produces superficial fractional ablation which limits this distortion and enables much quicker, consecutive and linear transplantation.



# The Password Is Simplification!



speed



safety



simplicity



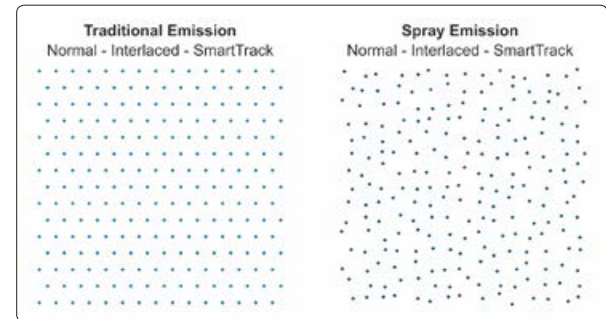
innovation

**Tricoscan™** transmits a clear matrix to the tissue with an exact number of holes that correspond to the follicles. The advanced scanning system enables micro ablation areas of varying sizes to be created (x1, x1.5 and x2 mode), to allow the transplantation of one or more bulbs in the same spot. The intuitive and user-friendly software shows the count of various types of holes relating to the entire area to be implanted, to preventively prepare the correct amount and type of autologous explanted bulbs to be retransplanted.



## Uniformity and naturalness

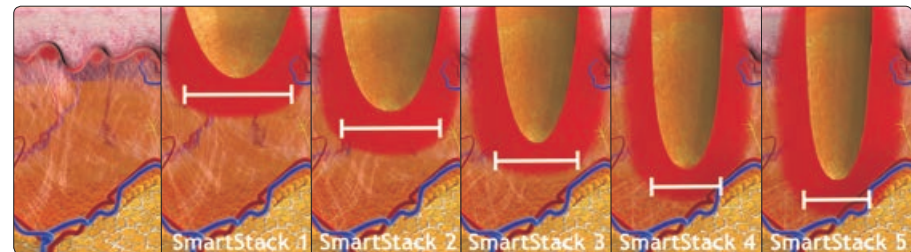
The possibility of preventively creating the filling pattern, where the desired uniformity and density are ensured by the scanning system, does not require continuous verification of results harmony. The pseudo-random scanning emission, called spray mode, offers a further guarantee of naturalness. Even in very visible areas that require a high density of bulbs to be transplanted (such as the frontal headline), no trace of the procedure is seen. The hairline appears completely physiological, assuring a “natural-looking” aesthetic result.



## SmartStack function: maximum precision in controlling skin vaporisation depth and thermal effect

The physician can deliver the laser energy in a single pulse or in several consecutive pulses (from 1 to 5), always on the same DOT. This results in precise control of the vaporisation depth and the thermal effect.

By increasing the SmartStack level, the tissue cools between one pulse and the next, thus reducing thermal damage and the risk of undesirable side effects thus preserving the perfect delicate environment for transplantation.





## Great Breakthrough in Trichology



### Tricoscan's PLUS

Speed	Procedure time reduced by 30%
PSD® Technology	<b>Tricoscan™</b> is only available for SmartXide <sup>2</sup> and SmartXide Touch RF-CO <sub>2</sub> laser system, both of them with the exclusive Pulse Shape Design technology that enables the maximum flexibility of the pulse shape greatly expanding the treatment capabilities.
Spray Mode	Pseudo-random scanning emission to assure a more "natural-looking" aesthetic results.
SmartStack	5 setting levels, for a precise control of the thermal effect and vaporization depth.
5	Scanning figures adjustable in size and height/width ratio.
Database	Integrated protocols designed for Trichology and other applications (as Aesthetic Dermatology, V <sup>2</sup> LR, Gynaecology and Dentistry). An easy way to learn how to use such a complete system with so many functions.
Great Benefits	Shorter procedure times enable procedure costs to be reduced, which are further minimised due to less deterioration of used instruments, such as the implanter. This leads to a rapid Return on Investment (ROI) and a total patient satisfaction that will increase your business!

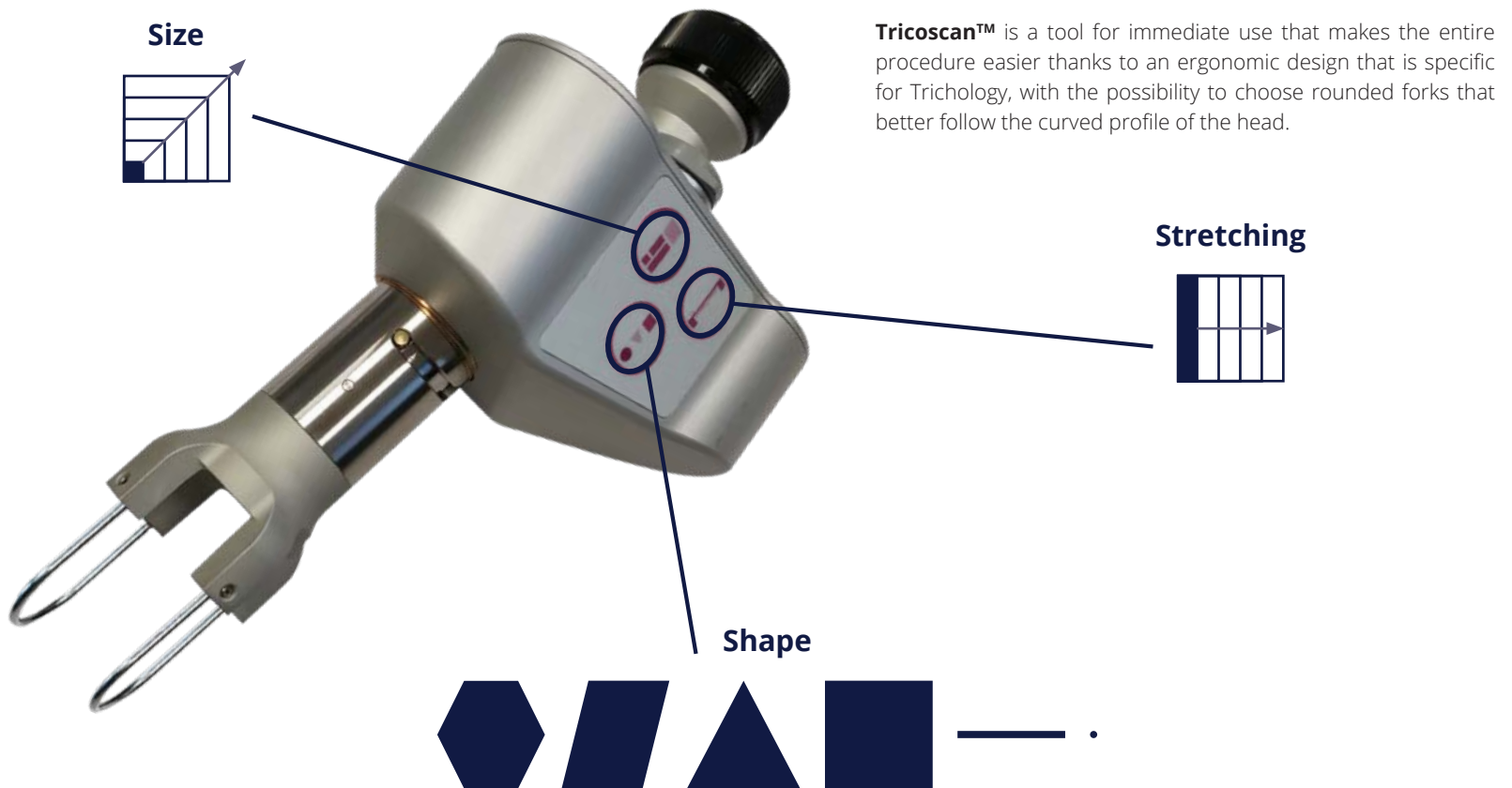
Only advanced technology allows to develop simple ideas





## PSD® Technology: Uncompromising Versatility

**Tricoscan™** is only available for SmartXide<sup>2</sup> (60 W and 80 W models) and SmartXide Touch RF-CO<sub>2</sub> laser system, both of them with the exclusive Pulse Shape Design technology that enables the maximum flexibility of the pulse shape. It's possible to adjust the ablative tissue component and level of coagulation. The surgeon can thus balance both aspects to limit bleeding (increased visibility compared to the non-laser-assisted technique), ensuring healing free of scarring and fibrosis, which could lead to the transplanted area suffering.





## Clinical Results



A



B



A



B

Photo Courtesy of Ahmed Youssef Abdel-Aal, M.D. - CEO of Juvederm Elite Clinic - Kuwait City, Kuwait; PhD Researcher at Universitat Autònoma de Barcelona - Barcelona, Spain.



A



B

Photo Courtesy of Ahmed Youssef Abdel-Aal, M.D. - CEO of Juvederm Elite Clinic - Kuwait City, Kuwait; PhD Researcher at Universitat Autònoma de Barcelona - Barcelona, Spain.

### A new frontier

Secondary cicatricial alopecia (SCA) occurs as a result of destruction of hair follicles by scar tissue formed in the scalp and eyebrows due to traumatic, post-surgical or burn events. In these cases that are generally difficult to resolve, **Tricoscan™** laser-assisted transplantation shows a very high success rate compared to using the non-CO<sub>2</sub> laser traditional technique. New studies are underway for this type of patient to explore the CO<sub>2</sub> laser's regenerative action, given that application of this type of laser in dermatology for treating scar and fibrotic tissue has been widespread for years.

## Technical Data

Tricoscan™ Scanning System	
Max Scanning Area	15 x 15 mm
Dwell Time	From 100 µs to 2,000 µs, steps of 100 µs
DOT Density	From 18 to 816 DOT/cm <sup>2</sup>
Scanning Shapes	DOT, Line, Triangle, Parallelogram, Hexagon, Square
Scanning Modes	Normal, Interlaced, SmartTrack. All of them can be delivered in a traditional manner or in the new "Spray" emission way
SmartStack	From 1 to 5
Spot Size	1X, 1.5X, 2X
Emission Modes	SP, DP, HP (DOT Fractional Scanning Mode) CW (Standard Scanning Mode)

Tricoscan™ scanning system is available for SmartXide<sup>2</sup> (60 W and 80 W models) and SmartXide Touch CO<sub>2</sub> lasers.



This brochure is not intended for the market of USA.

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### 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 80 countries throughout an extensive network of international distributors as well as direct offices in Italy, France, Japan and USA. DEKA manufactures laser devices in compliance with the specifications of Directive 93/42/EEC and its quality assurance system is in accordance with the ISO 9001 and ISO 13485 standards.

Dealer stamp