



Be an artist of the new era.

## SP Dynamis

- Highest Performance Er:YAG and Nd:YAG Lasers
- Additional Surgical QCW Nd:YAG Laser
- Complete Inside-to-Out, Anti-Aging Treatments
- Full-Field and Fractional Scanning
- Novel TURBO and V-Smooth Technologies
- Easy-to-Use Treatment Parameter Management



**Fotona**  
choose perfection

The Highest Performance, Best Made Laser Systems in the World

# New Class of Multi-App Laser Workstations

## • New Generation Resurfacing

Skin rejuvenation is a fast growing and competitive treatment segment. Meeting patient expectations has become a true art. With advanced unique attributes and fully customizable settings, the SP Dynamis' Er:YAG heads 3rd Generation laser resurfacing. Like using an artist's palette, you can precisely mix and match ablation and coagulation to achieve perfect results.

## • Highest Performer in Popular Aesthetic Treatments

Nd:YAG certainly needs no introduction as a gold standard in hair removal, rejuvenation, acne and vascular treatments, and much more. S-11 Nd:YAG scanner compatibility further enhances these treatments in speed, safety and efficiency, especially in large areas. With an extra Accelera Nd:YAG

function you can now offer FRAC3® – the latest, exciting and novel approach in skin anti-aging and aesthetics.

## • Inside-to-Out Anti-Aging

Combine skin treatments with lucrative, minimally-invasive surgical treatments including laser lipolysis. The SP Dynamis' powerful surgical QCW Nd:YAG provides fast and efficient procedures. Its wavelength is proven to show exceptional efficacy and significantly reduce recovery times in procedures. Unlike any other laser workstation on the market, the SP Dynamis allows you to provide patients anti-aging treatments that are truly from the inside-to-out.



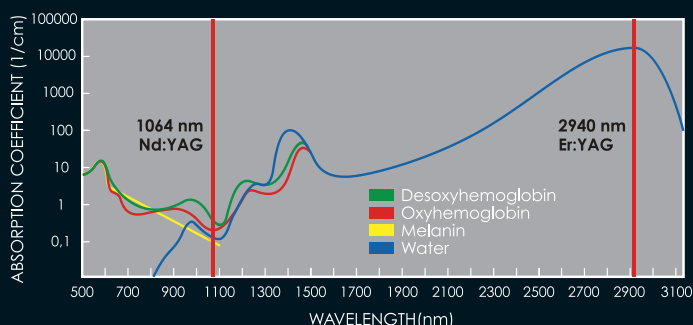
## Why an Er:YAG & Nd:YAG Laser Combination?

Advanced performance VSP Er:YAG lasers inherently ablate skin extremely efficiently. They are highly absorbed in water - the main target chromophore for skin resurfacing – and can thus vaporize skin with micron-precision with very little thermal conduction. This keeps undesired effects such as hypopigmentation and persistent erythema, as well as recovery time, to a minimum. The Dynamis VSP Er:YAG lasers can be accurately tuned to varying “cold” ablation and non-ablative thermal ratios. Its full customizability allows you to precisely attain the clinical outcome your patients want.

The Nd:YAG perfectly complements the Er:YAG laser's ablative action with its ability to penetrate deep into the skin to create thermal effects without damaging the skin surface. Its homogeneous absorption in the skin and low absorption in melanin allow it to be safely used in all skin types. Compared to conventional technologies, Dynamis' VSP Nd:YAG pulses create virtually instantaneous temperature increases, limited to the targeted structures only. No unnecessary energy is deposited into the skin.

### Primary SP Dynamis indications:

- Mild to deep wrinkles
- Persistent, deep peri-oral and ocular wrinkles
- Body sculpting and persistent fatty deposits
- Acne, post-traumatic and surgical scarring
- Telangiectasia to varicose veins
- Unwanted hair
- Benign pigmented and vascular skin lesions
- Fine lines, wrinkles and sun-damaged skin
- Sagging skin and stretchmarks
- Hyperhidrosis



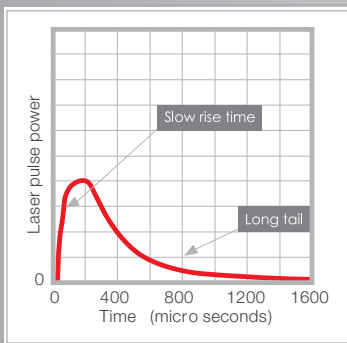
# More Treatment Safety and Piece of Mind

## • Technologies that Offer Piece of Mind

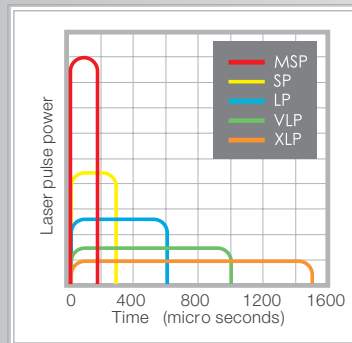
Proprietary Variable Square Pulse Technology creates controlled sequences of near square-shaped pulses to avoid unnecessary laser energy delivery into the skin and improve safety. Energy Feedback Control Technology checks and controls each individual pulse's energy level, ensuring that output energy is exacted for safe and effective treatment. These technologies give you the piece of mind that the parameters you selected are being safely and precisely delivered by the system throughout the treatment.

## • Optimal Balance for First-Class Results

*Ablation* and *thermal effects* are two distinct physical mechanisms through which pulsed Er:YAG lasers affect the skin. Each pulse's clearly defined and controlled parameters define the ablation and thermal effects ratio in the treatment. First-class clinical results require an optimal balance of ablation depth and thermal effects. To maximize clinical results and minimize downtime VSP Technology offers precisely controlled and adjustable, ablation and thermal effects ratios.



Standard laser technology

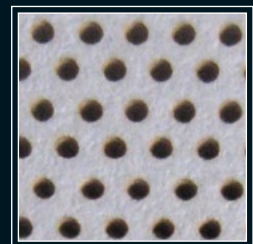
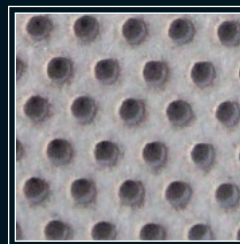


Fotona VSP technology

VSP Technology's square pulses avoid the slow rise of laser power and even longer fall of conventional, less advanced laser technology. This avoids unnecessary laser energy delivery into the skin, maximizing safety.

## High-Definition Fractional Treatments with TURBO Technology

TURBO mode is another unique technology feature. "Turbo" sequences of identical pulses emitted within the same treatment spot on the skin enhance ablation depth and create more accurately and sharply defined micro-channels than single pulses with equivalent fluence. TURBO Technology will allow you to adopt and capitalize on a true "less is more" strategy, by getting the most out of even the most conservative treatment settings.



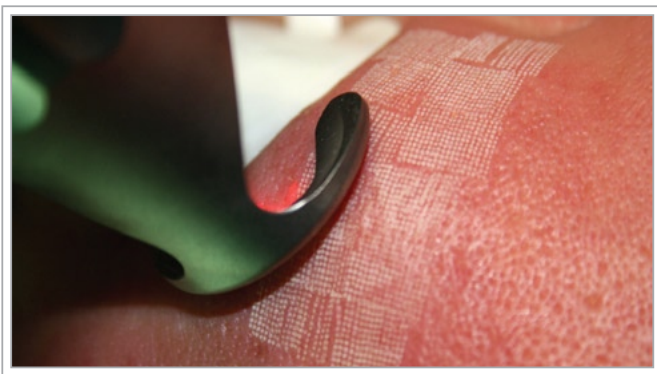
TURBO mode micro-channel contours are distinctly sharper and more defined than their equivalent energy single pulses (above).

# Fractional Scanning Accelerates Recovery



## • Maximum Results within Patient Downtime Limits

The art of skin rejuvenation is balancing treatment intensity with patient acceptable downtime. F-Runner fractional scanning combined with SP Dynamis' treatment control features allows you to set that perfect balance. The F-Runner ablates micron-diameter channels over only a fraction of the entire resurfacing area. This initiates a wound healing response which stimulates fibroblasts to produce new collagen and elastin. The surrounding and intact skin tissue further promotes rapid healing.



## • Unrivalled Accuracy and Uniformity

F-Runner fractional scan treatments increase general skin thickness and turgor to provide a healthy look and feel to the skin. They provide excellent patient comfort, shorten healing times and can be tuned to produce subtle to dramatic results. Large area procedures will benefit to no end from the unrivalled accuracy and uniformity that only computer-controlled scanning can ensure.

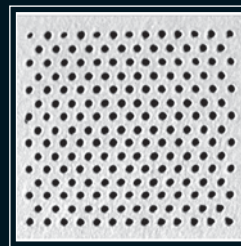
## F-Runner

### Computer-Controlled Fractional Scanning

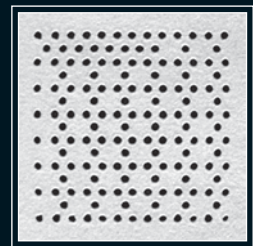
- Sharp fractional treatments
- 250 µm microspot size
- <5 µm to 1100 µm micro-channel depths
- Adjustable scanning field coverage
- 168 mm<sup>2</sup> maximum scan area
- CRYstal and NATural
- TURBO technology compatible
- Ergonomic and functional design



Computer-controlled scanning in combination with ergonomically-adjusted and functional design provide levels of procedure accuracy and uniformity unattainable by any other technological means.



A. Completed, full size F-Runner scan



B. OPTimal scanning regime with F-Runner in progress



C. Rectangular, shape-adjusted, scan area one hour after F-Runner treatment.



D. Rectangular, shape-adjusted, scan area 20 hours after F-Runner treatment.

To further expand the fractional options available within skin rejuvenation artistry, SP Dynamis is compatible with Fotona's range of Titanium Pixel Screen Technology handpieces. Visit [www.fotona.com](http://www.fotona.com) for more information or contact your Fotona representative.

# Never Before Seen Full-Field Ablation Options



## • More Control than Ever Before

Full-field ablation has been the mainstay for master artists in skin resurfacing for many years. It remains the most efficient and effective to achieve dramatic results. Now S-Runner computer-controlled scanning offers you unrivalled accuracy and control in treatments.

## • Discover the Other Side of Ablation

Combined with SP Dynamis' supporting technologies, S-Runner scanning offers an extraordinary wide variety of treatment options. In the ablative range, treatments can extend from Light Peels to Deep Peels. In thermal regime, options range from Non-ablative Thermal with exclusive V-Smooth Technology to Medium Thermal supported by TURBO technology.

## • More Intense Deep Collagen Remodeling

V-Smooth Technology sets the SP Dynamis in a class apart from other resurfacing technologies available today. Its extreme skin coverage speeds at unprecedented longer irradiation times provide more effective and controlled skin coagulation. V-Smooth treatments induce more intense deep collagen remodeling; ideal for patients who want drastic rejuvenation effects but are not inclined towards aggressive ablative treatments.

## S-Runner

### Computer-Controlled Full-Field Scanning

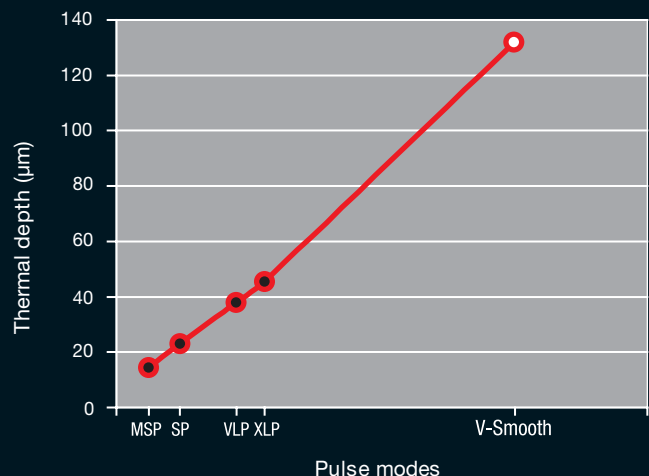
- 4x4 cm maximum scan area
- 4 mm spot size
- 0% to 30% overlap
- Up to 474  $\mu\text{m}$  ablation depth per scan
- Fully adjustable scan pattern
- OPTimal, PaRtial and SEquential scanning
- TURBO mode and V-Smooth compatible
- Ergonomic and functional design

## V-Smooth Technology

### New Long Pulse for High-Speed Coagulation

V-Smooth, or Variable Smooth, is a novel modality for high thermal, minimally ablative skin rejuvenation treatments. Thermal effects induce collagen remodeling. V-Smooth is based on specially-developed scanning speed enhancing solutions, unique to the S-Runner. V-Smooth Technology ensures complete accuracy and unparalleled sim-

plicity by targeting and irradiating individual spots for an optimal time, and returning there at computer-controlled intervals to optimally deliver the treatment. Besides optimizing accuracy and efficacy, patient safety and comfort are thus maintained. Its featured 100 ms to 500 ms variable pulse durations range extends the variable coagulation depth range to enable you to fine-tune treatments. V-Smooth even allows for ablative and deep coagulative effects within a single scan.

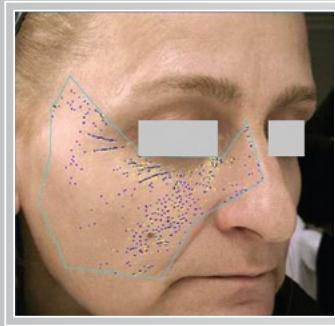


The maximum thermal depth using 100 ms V-Smooth (white) compared to conventional pulse duration modes (dark).

# A Revolution in Non-Ablative Rejuvenation



Before



After

Patients report that the skin feels more elastic, stretchy, bouncy or generally younger after FRAC3® treatments. For many practitioners these treatments are ideal to offer patients to make them feel great just before an important social event.

The SP Dynamis includes Accelera Nd:YAG laser technology that can generate extremely short Nd:YAG pulses while maintaining clinically effective power levels to provide FRAC3® skin rejuvenation and many other popular non-ablative aesthetic treatments.

A revolution in aesthetic laser treatments - FRAC3® produces a unique, self-induced 3D non-ablative fractional effect as it seeks out minuscule, pigmented imperfections in the skin. Thanks to its three-dimensional treatment pattern, more surrounding tissue remains unaffected to

provide faster healing than in conventional fractional treatments which remain limited to a two dimensional pattern. With FRAC3®, treatment intensity is minimized while efficiency is maximized in the non-ablative aesthetic treatment range.

The FRAC3® fractional effect can be applied to enhance almost any non-ablative treatment, principally skin rejuvenation, hair removal and vascular treatments. Fast and concrete results, minimal downtime and selective targeting are key in the FRAC3® treatment approach.

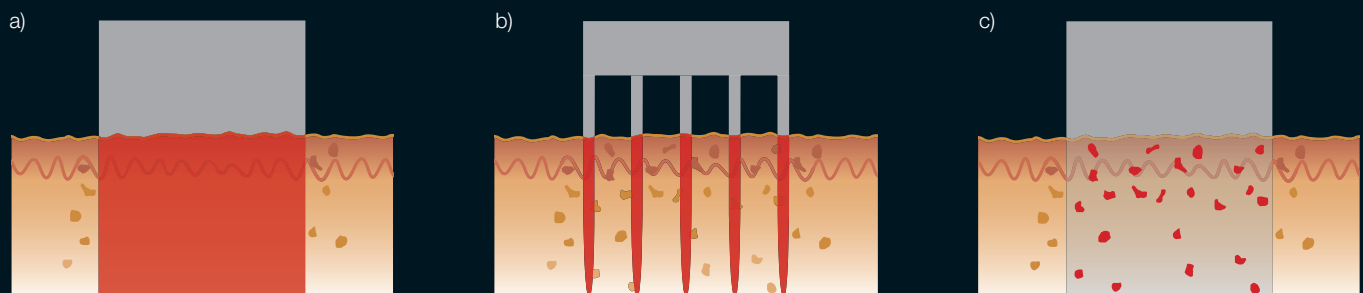
## Ultra-Short Pulses Stimulate Collagen Formation

Minimally invasive skin rejuvenation is proven to be safest and most effective in Accelera Nd:YAG's ultra-short pulsewidth range. Its pulses have been shown to selectively heat small skin imperfections and inhomogeneities of a <math><50 \mu\text{m}</math> size range throughout the skin tissue, effectively forming FRAC3®'s distinct three-dimensional pattern of fractional islands of thermally affected skin.

Thermal skin images and ultra-structural analysis show a decrease in overall collagen fiber diameter in the papil-

lary dermis, consistent with new collagen formation, and improvements in erythema, pore size, skin texture and tone that improve the overall skin quality.

As a fractional technique, FRAC3® has a distinct advantage over conventional two-dimensional fractional treatments in that non all of the targeted skin tissue is uniformly thermally affected or even removed. FRAC3® is non-ablative and leaves the maximum of healthy tissue to promote rapid healing and minimal patient downtime.



Laser induced damage islands as healing centers:

a) standard uniform laser treatment; b) standard two-dimensional fractional treatment; c) novel self induced three-dimensional FRAC3 laser treatment

# An Added Dimension to Your Workstation

## • A Winning Formula

Combining skin treatments, specifically skin tightening and fractional treatments, with laser lipolysis is a winning formula, as currently, body shaping is the fastest growing aesthetic application area in medical aesthetics. Laser technology drives demand for these treatments because it is fast, yet efficient and effective while downtime and invasiveness are kept to a minimum.

## • Superior Clinical Safety and Efficacy

Nd:YAG lasers are the most widely used lasers in lipolysis and have the longest record of clinical safety and efficacy. The observed clinical advantages are attributed to their ability to optimally target laser energy into fatty tissue, limiting undesirable effects in the surrounding tissues.

The 1064 nm Nd:YAG wavelength affects the largest thermal volume in the subcutaneous fat tissue and is least likely to cause any injury in the neighboring dermis. Bleeding is kept minimal as the pulsed QCW Nd:YAG laser coagulates blood vessels extremely efficiently.

## • Keep Up with the Latest Popular Surgical Procedures

The Nd:YAG wavelength strikes a perfect balance in its absorption in various body chromophores, allowing it to be safely, effectively and efficiently used in many surgical procedures. Studies confirm that the Nd:YAG laser minimizes patient discomfort, increases success rates and shortens recovery times. To keep up with new in-demand procedures, Fotona offers an ever increasing range of compatible surgical sets eliminating the need to continuously reinvest.



## A Laser Workstation for Every Practice

Fotona offers one of the most extensive lines of laser systems in the industry; there is a laser system to suit every practice's needs and budget. For more information on the other Dynamis range systems and the lower spec Spectro line, visit [www.fotona.com](http://www.fotona.com) or contact your local Fotona representative.

### Dynamis line

Model	SP Dynamis		XS Dynamis	XP Dynamis
Laser type	Er:YAG	Nd:YAG	Er:YAG	Nd:YAG
Wavelength	2940 nm	1064 nm	2940 nm	1064 nm
Modalities	Full-field, Fractional, V-SMOOTH, TURBO	LP, FRAC3®, QCW	Full-field, Fractional, V-SMOOTH, TURBO	LP, FRAC3®, QCW
Energy / Power	3 J	80 W	3 J	80 W
Scanner	F-Runner, S-Runner	S-11	F-Runner, S-Runner	S-11

### Spectro line

Model	SP Spectro		XP Spectro
Laser type	Er:YAG	Nd:YAG	Nd:YAG
Wavelength	2940 nm	1064 nm	1064 nm
Modalities	Full-field, Fractional, V-SMOOTH, TURBO	LP, FRAC3®, QCW	LP, FRAC3®, QCW
Energy / Power	3 J	35 W	35 W
Scanner	F-Runner, S-Runner	S-11	S-11

## Global Leader for over 45 Years

Since 1964 Fotona has set industry standards of excellence in laser systems for medicine, communications, industry, and defense. Our laser systems are the result of over 45 years of experience and expertise in producing high tech products for these respective fields. Consequently Fotona is a globally recognized leader and pioneer in the innovation, development and manufacture of laser systems.

## All In-house Technology

To fulfill market needs and maintain a short time-to-market Fotona invests in outstanding manufacturing and R&D facilities. In-house manufacturing and stringent testing of all our systems' components, in compliance with all applicable international standards, ensures that our laser systems are of the highest quality, reliability and durability.

## Global Network of Experts

Our global network of Fotona representatives and partners brings together the most capable and experienced laser experts in the world. By developing and nurturing close relationships with our partners, we ensure that our products and services fulfill the most current market needs. Through our global Fotona network we guarantee exceptional customer service, support and training.

## Choose Fotona, Choose Perfection

Choosing Fotona ensures innovative solutions, superior performance capabilities, technical perfection and unrivalled clinical results. Achieving unmatched levels of precision, efficacy, efficiency and safety are key to the success of our laser systems. When you choose Fotona, you choose the highest performance, best made laser systems in the world.



Fotona d. d.  
Stegne 7  
1210 Ljubljana  
Slovenia, EU

Phone: ++386 1 500 91 00  
Fax: ++386 1 500 92 00  
[www.fotona.com](http://www.fotona.com)  
[info@fotona.com](mailto:info@fotona.com)

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D. Maletic MD, I. Luppino MD



Fotona is certified to: ISO 9001:2000, EN ISO 13485:2003, MDD 93/42/EEC, ANNEX II.3, ISO 13485:2003 (CMD/CAS), GMP according to FDA regulations

