



SP Dynamis

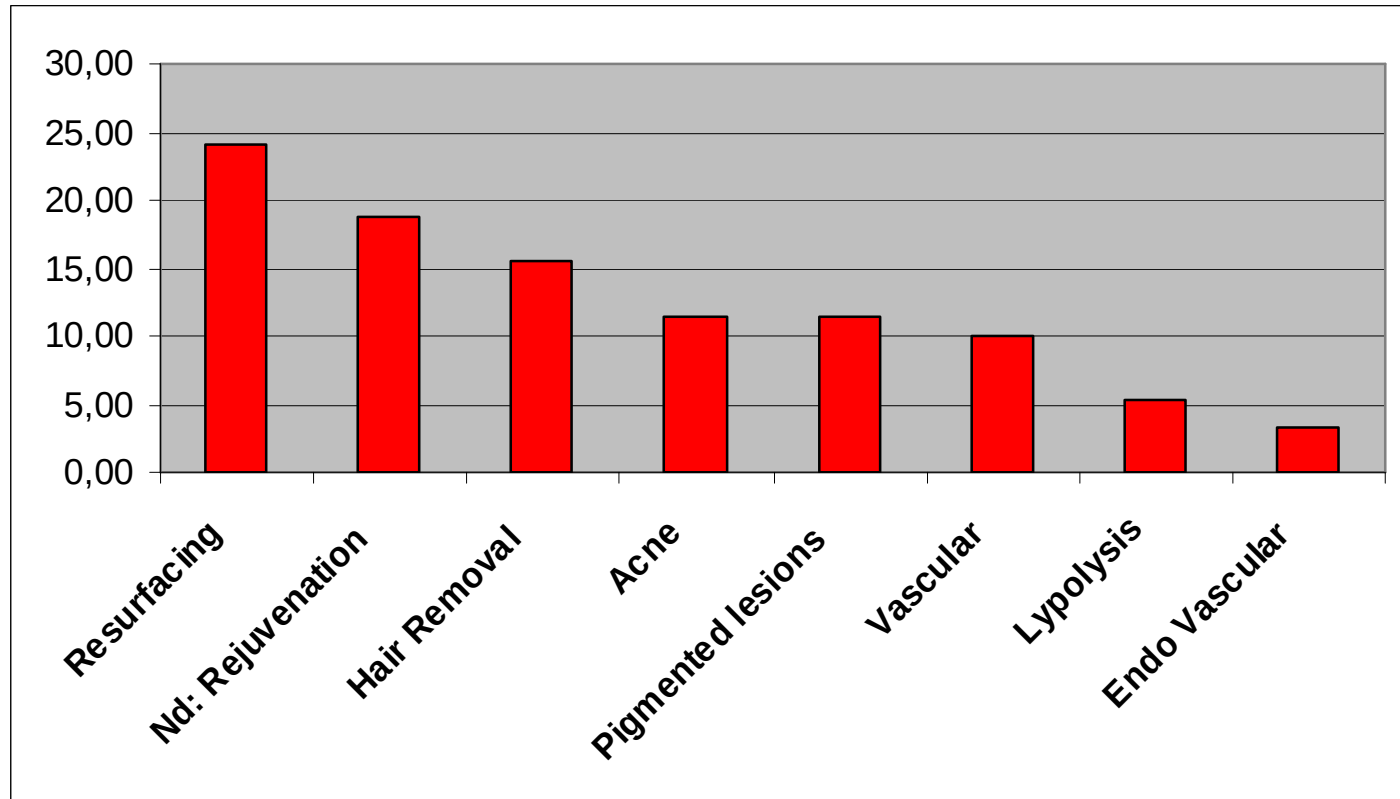
Teknoloji ve Uygulamalar

Komple Anti-Aging Tedavileri

- Cilt temizleme (pigmente, vasküler,...)
- Cilt “resurfacing” (kırışıklıklar, izler,...)
- Cilt sıkılaştırma
- Kolajen Modellenmesi
- Laser Lipoliz

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Anti-aging Pazarı farklı “endikasyon”larda mükemmel çözümleri arıyor...



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SP Dynamis – Mükemmel Teknolojiler

- VSP Er:YAG ve Nd:YAG
- 3 Tarayıcı (Scanner)
- 12 uyumlu handpiece
- Fractional opsiyonları (stamping, scanning, hybrid)
- VSP, Smooth, V-Smooth
- Basic, Turbo N, Scan N
- QCW Cerrahi Modu
- 4 Tarama (scanning) Modu
- Ablasyon / termal derinlik tahmini
- Hafıza; Nd 40 ve Er 24



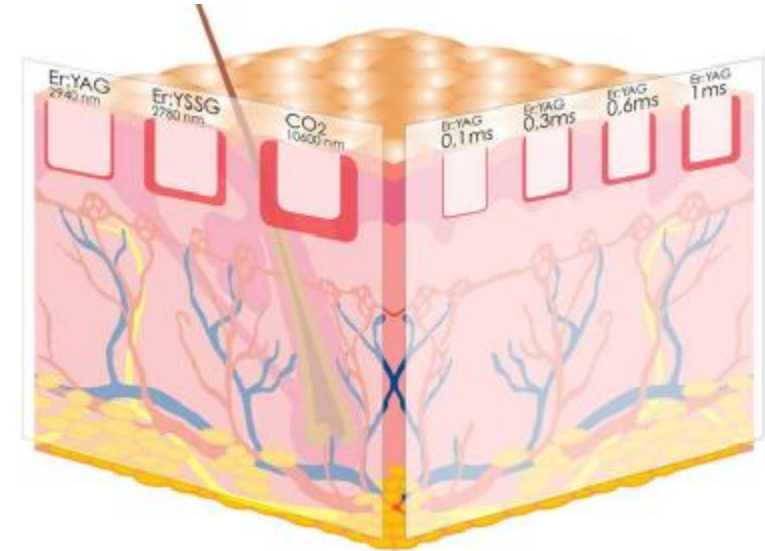
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Er:YAG

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Neden Erbium:YAG Laser ?

1. En yüksek Absorpsiyor
2. Verimli ablasyon
3. VSP ile Ablasyon
/Termal Oran Kontrolü

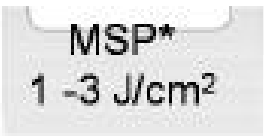


Er:YAG dalga boyu cilt “resurfacing” i için ideal laser

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9 VSP Ablasyon / Termal tedavi rejimi



Light Peel	Medium Peel	Deep Peel	
 MSP* 1 -3 J/cm ²	 MSP 3 -10 J/cm ²	 SP 10 - 50 J/cm ²	Cold
 SP 1 -3 J/cm ²	 LP 3 -10 J/cm ²	 VLP 10 - 17 J/cm ²	Warm
 VLP, XLP 1 -3 J/cm ²	 VLP, XLP 3 -10 J/cm ²	 XLP 10 - 17 J/cm ²	Hot

Ref: Lukac et al, Ablation and Thermal Depths in VSP Er:YAG Laser Skin Resurfacing, J of LAHA, 2010, 1, 56-71

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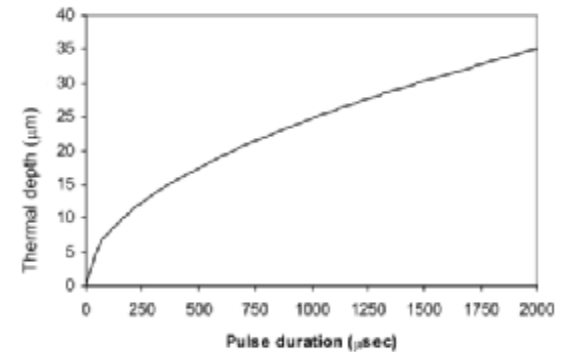
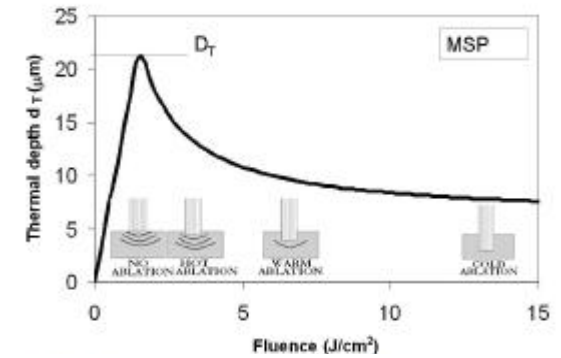
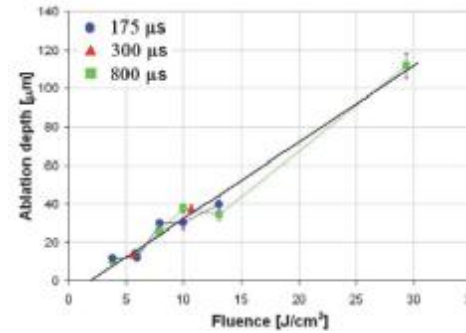
Laser-Doku Etkileşiminin Teorik Modeli

Ablasyon derinliği

Termal Derinlik

Fluans

Pulse süresi



Ref: Lukac et al, Ablation and Thermal Depths in VSP Er:YAG Laser Skin Resurfacing, J of LAHA, 2010, 1, 56-71

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Hassas Tahminler

- Ölçülen data ve teorik model tahmini arasında mükemmel örtüşme.
- Dünya üzerinde parametrelerin bütün kombinasyonlarını verebilen tek sistem



Ref: Lukac et al, Ablation and Thermal Depths in VSP Er:YAG Laser Skin Resurfacing, J of LAHA, 2010, 1, 56-71

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Ablasyon ve Termal Derinliğin Görüntülenmesi



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Software (MEC) & Doku Etkileşimi Gösterimi

Fluence (flu) [J/cm ²]	TEI	Meaning
Pulse width: MSP		
$flu < 1$	NH	Non Ablative Hot
$1 \leq flu \leq 3$	LC	Light Peel Cold
$3 < flu \leq 10$	MC	Medium Peel Cold
$flu > 10$	DC	Deep Peel Cold
Pulse width: SP in LP		
$flu < 1$	NH	Non Ablative Hot
$1 \leq flu \leq 3$	LW	Light Peel Warm
$3 < flu \leq 10$	MW	Medium Peel Warm
$flu > 10$	DW	Deep Peel Warm
Pulse width: VLP in XLP		
$flu < 1$	NH	Non Ablative Hot
$1 \leq flu \leq 3$	LH	Light Peel Hot
$3 < flu \leq 10$	MH	Medium Peel Hot
$flu > 10$	DH	Deep Peel Hot



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Mükemmel Klinik Sonuçlar



Courtesy of Dr. O.Matyutin, Clinic "Irina i 3K"

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Ablatif Tüm Alan



Courtesy of Dr. O.Matyutin, Clinic "Irina i 3K"

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Full Field (Tüm Alan) ve Fraksiyonel Tedaviler



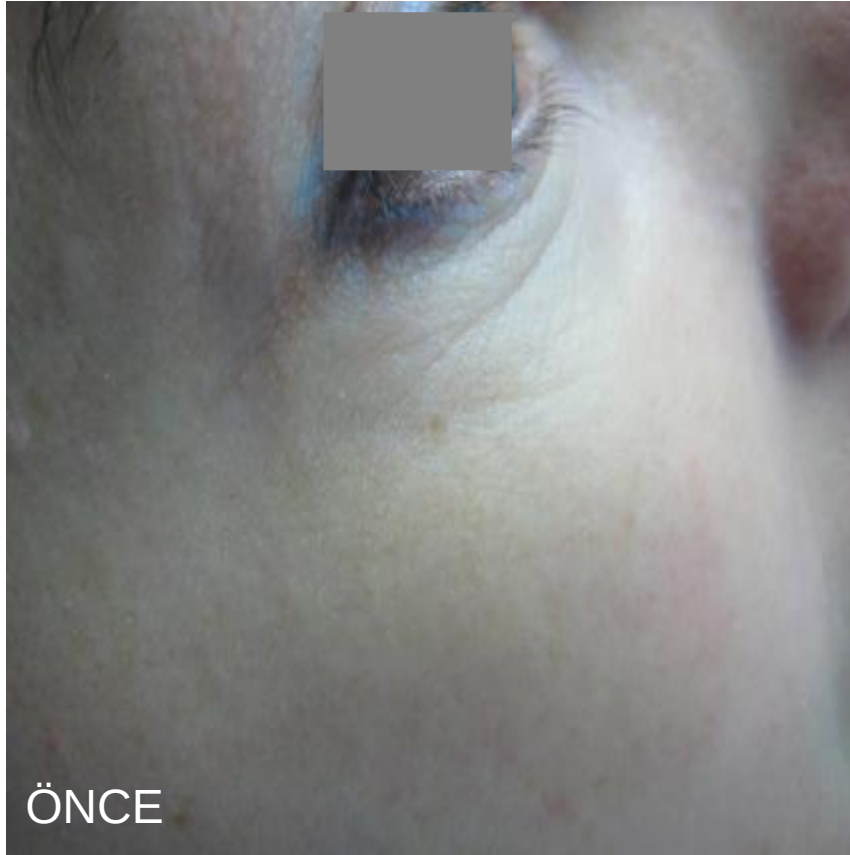
Courtesy of Dr. Woraphong



Courtesy of Dr. Kozarev

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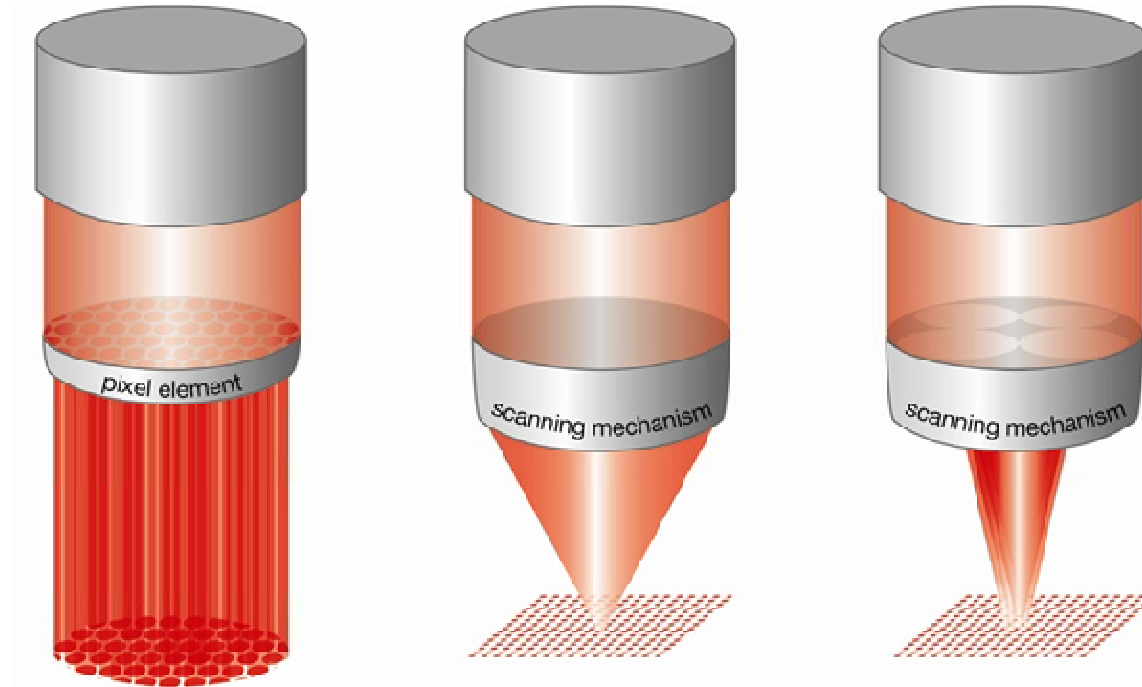
Fraksiyonel tedavisi



Courtesy of Dr. O.Matyutin, Clinic "Irina i 3K"

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Fraksiyonel Teknikleri



Stamping

Presleme

Scanning

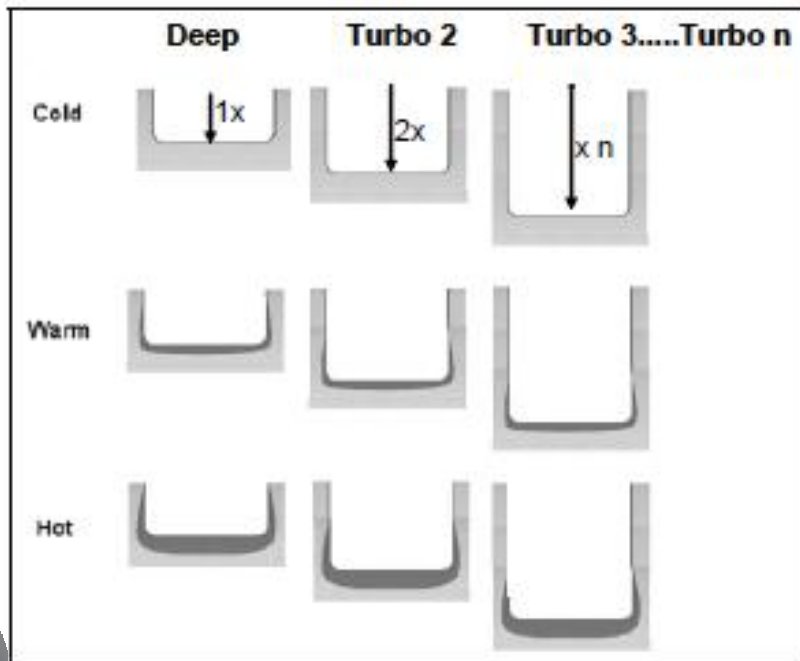
Tarama

Hybrid

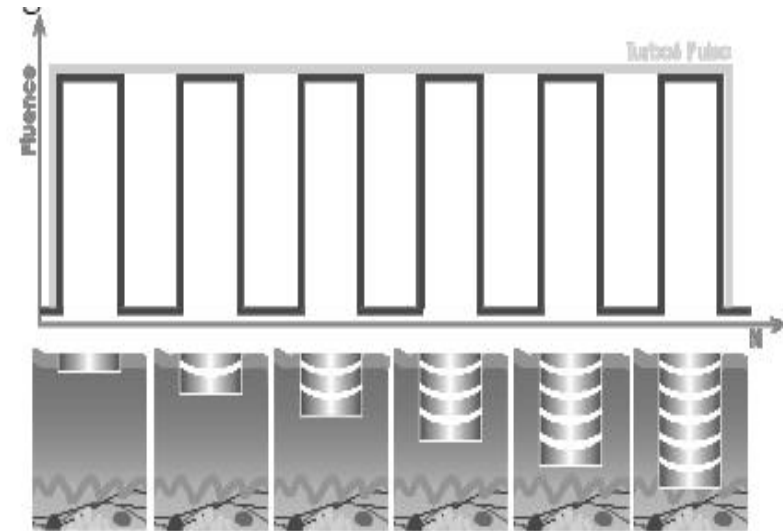
Melez

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TURBO modu – güçlendirilmiş ablasyon

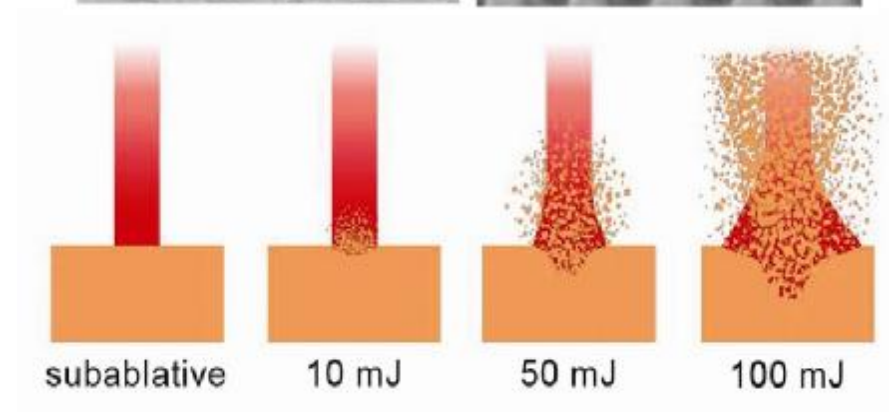
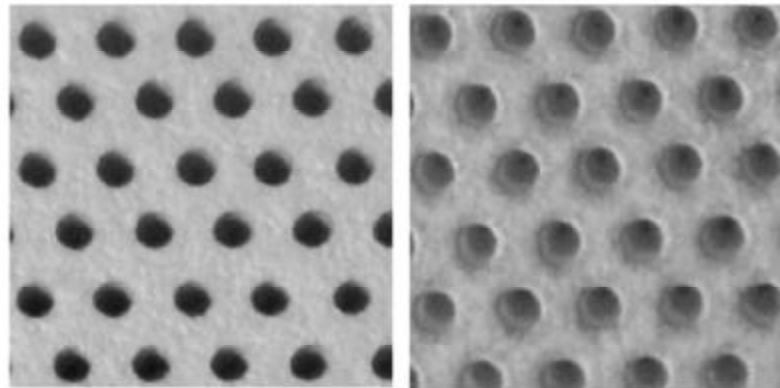


$n_{\max} = 6$



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TURBO modu- daha keskin delikler



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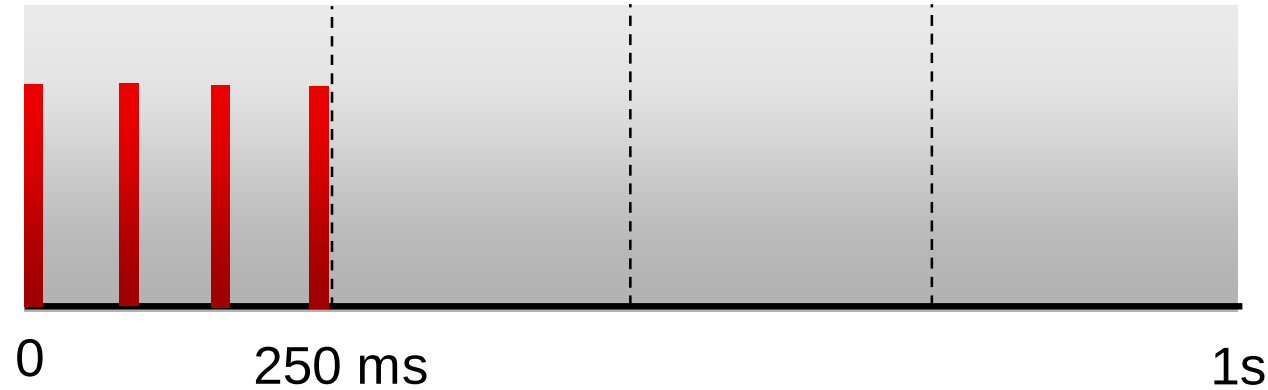
SMOOTH modu- güçlendirilmiş termal etki

4 adet SP(300 μ s) atım

Atım süresi = 250 ms

Frekans 2 Hz'a kadar

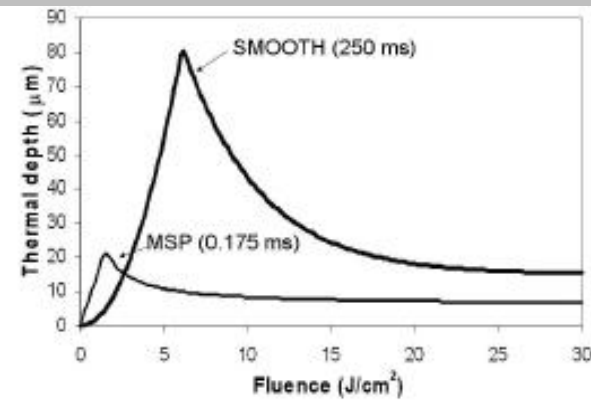
Sadece Handpiece



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SMOOTH modu

Termal derinlik



Fluans

Pulse süresi



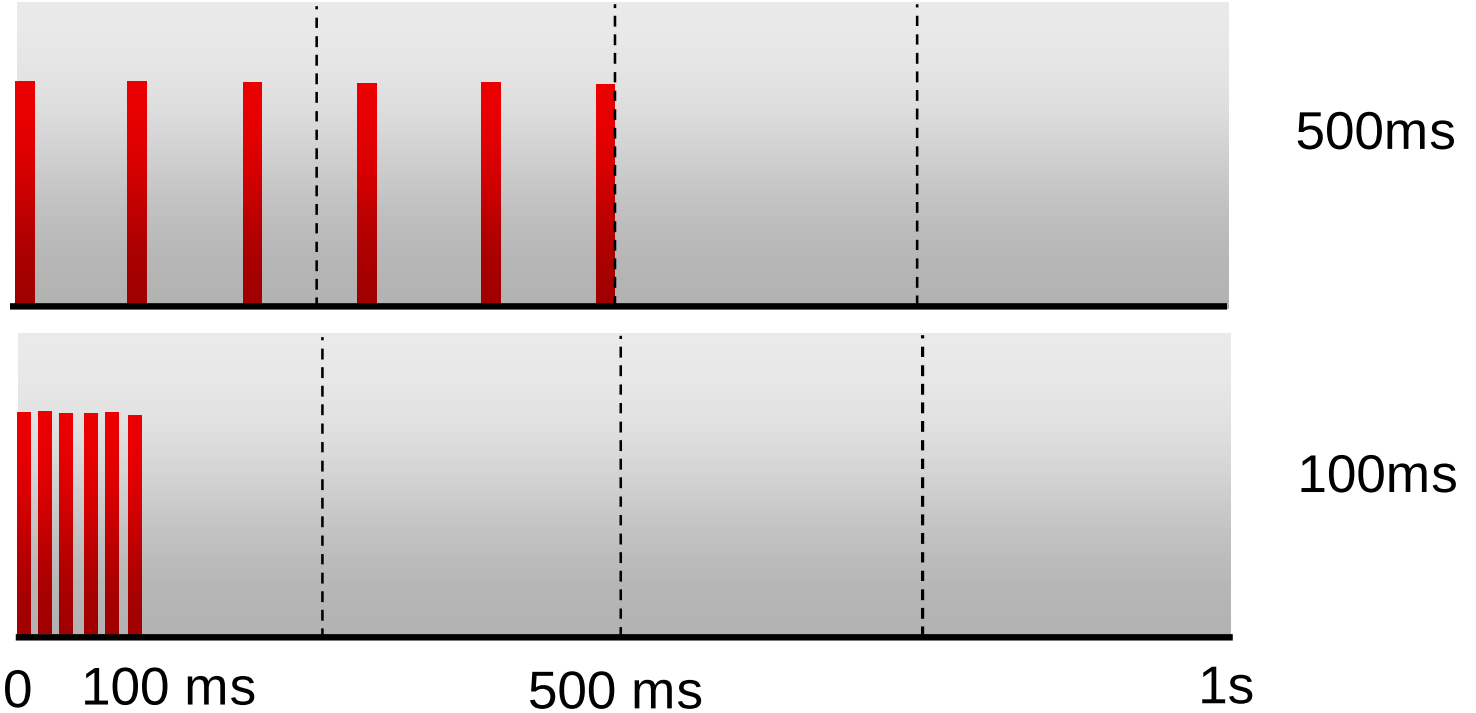
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V- SMOOTH modu- deęiřken termal etki

6 adet MSP atım

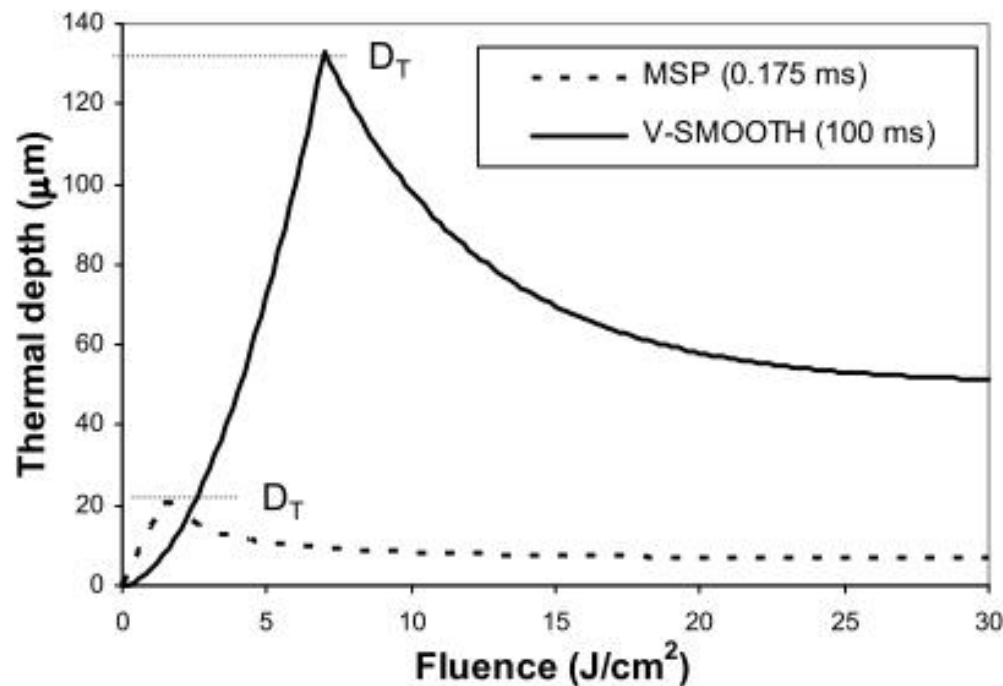
Atım süresi = 100, 200, 300, 400, 500 ms

Sadece Scanner



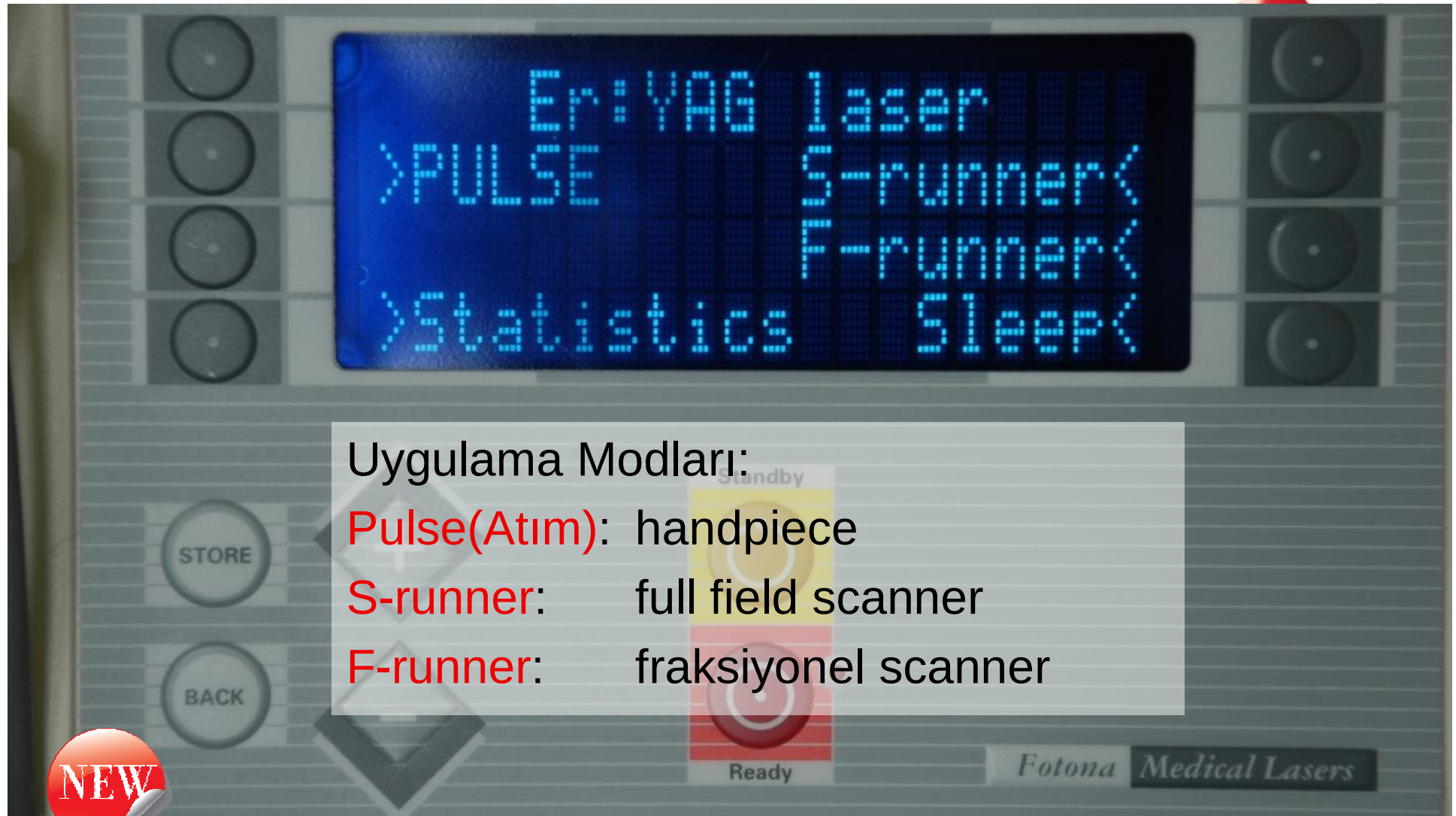
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V-Smooth Modu- Ekstrem Termal Derinlik



Pulse Duration Mode	Ablation Threshold (J/cm^2)	Maximal Thermal Depth, D_T (μm)
MSP (0.175 ms)	1.6	21
SP (0.3 ms)	1.8	26
LP (0.6 ms)	2.0	32
VLP (0.8 ms)	2.2	37
XLP (1.3 ms)	2.6	45
SMOOTH (250 ms)	6.1	81
VSMOOTH (100 ms)	7.0	132
VSMOOTH (200 ms)	7.4	125
VSMOOTH (300 ms)	7.7	120
VSMOOTH (400 ms)	7.85	110
VSMOOTH (500 ms)	8.0	95

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Uygulama Modları:

Pulse(Atım): handpiece

S-runner: full field scanner

F-runner: fraksiyonel scanner

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SP Dinamis

**Er:YAG
Pulse Uygulama
Modu**



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HAFIZA

Handpiece

Enerji/Fluans

Frekans

ÖZEL

Deposizyon

Spot Boyutu

Süre

Doku Etkisi Göstergesi



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Uyumlu Handpiece'ler

Full field(Tüm alan)

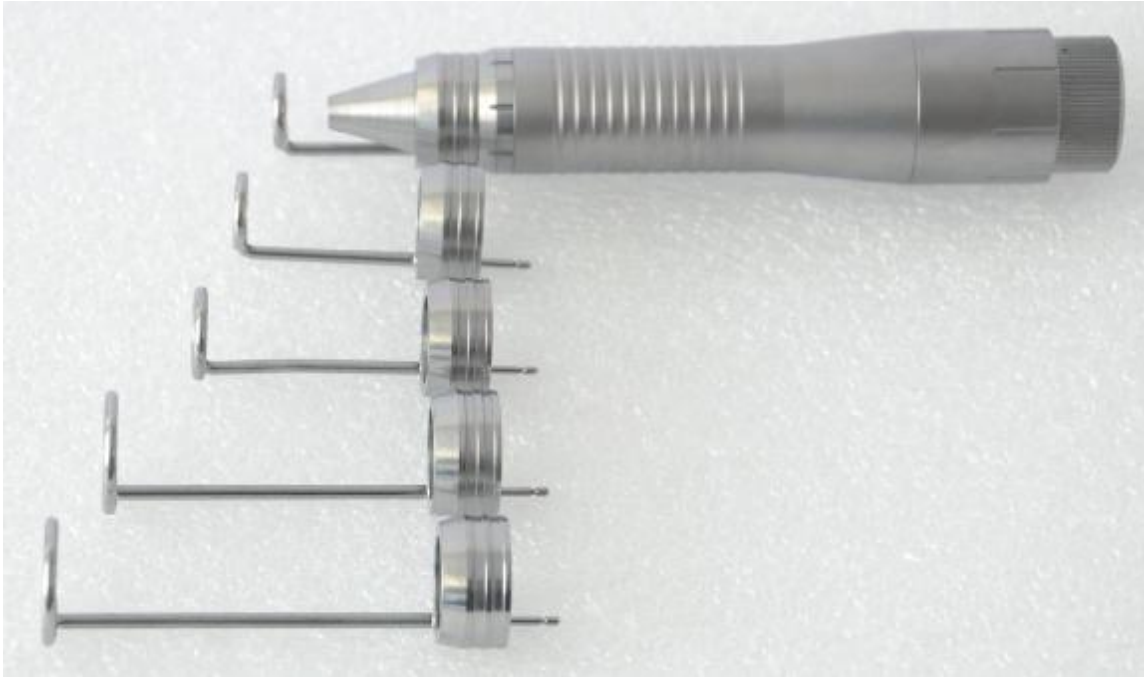
- R04-Ti
- R09-2 (2G, 3)
- R08-Ti
- R11

Fraksiyonel

- PS01
- PS02
- PS03

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R04-Ti



Çalışma mesafesi: farklı spacer'lar ile belirlenir

Spot boyutları: 3, 5, 7, 10 ve 12 mm, farklı spacer'lar ile

Sterilizasyon:

handpiece ucu, uç tutucu

Ve spacer'lar otoklavda sterilizasyona uygundur

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R08-Ti



Çalışma mesafesi: 15 mm,
Minimum spot boyutu:
0.45

Sterilizasyon: otoklavda
sterilizasyona uygundur

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R09-2 ve R09-3



Çalışma mesafesi: 5 – 15 cm

Spot boyutu R09-2 4 mm $\pm$ 0.5 mm

Spot boyutu R09-3 5 mm $\pm$ 1 mm

Sterilizasyon: non-sterilizable

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R09 -2G



Çalışma mesafesi: 0 – 5 cm

Spot boyutu R09-2G 4 mm $\pm$ 0.4 mm

Uygulanan bölge tipi: tip B

Sterilizasyon: Otoklavda
sterilizasyon: sadece Handpiece
ucu

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R11 – Zoom handpiece



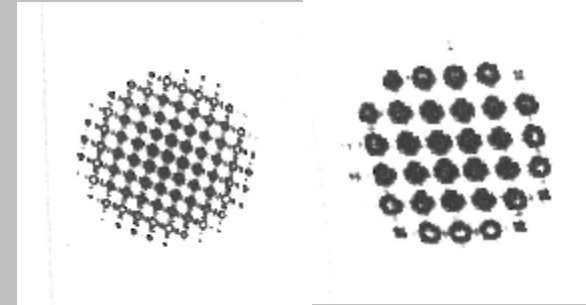
Spot boyutu: 2 – 7 mm

Sterilizasyon:

handpiece ucu otoklavda
sterilize edilebilir

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PS01 Fraksiyonel Handpiece



Spot boyutları: 7, 10, 12mm

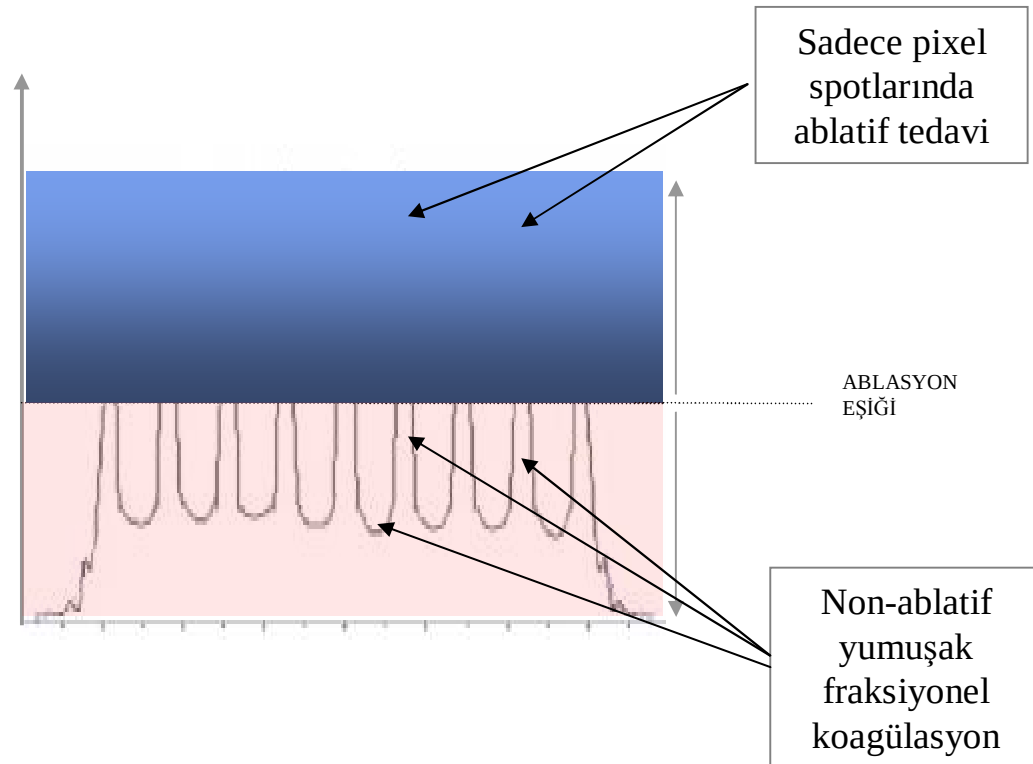
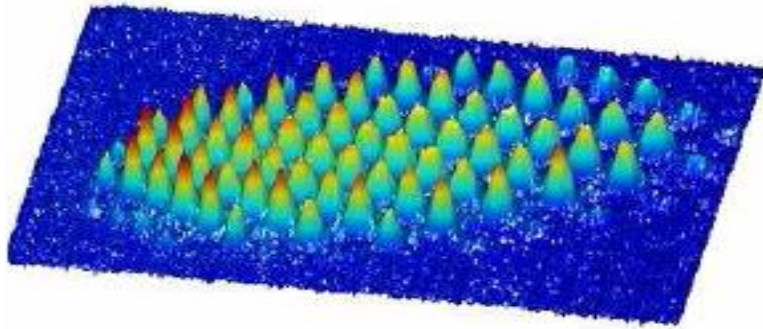
Pixel büyüklüğü: 450 to
3000µm

Pixel sayısı: 7 - 75

**Pixel sayısı, pixel büyüklüğü ve
spot boyutu değiştirilebilen,
“variable” (değişken) handpiece**

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PS01 Yumuşak Fraksiyonel Handpiece



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PS02 Fraksiyonel Handpiece



Spot boyutu: 3, 5, 7, 10, 12mm
(Farklı spacer'lar ile belirlenir)

Pixel Büyüklüğü:

180 μ m (3mm spot için)

270 μ m (5mm için)

- 700 μ m (12mm spot için)



**Piksel sayısı spot boyutundan
bağımsız sabitlenmiş “fixed pixel-
number handpiece”**

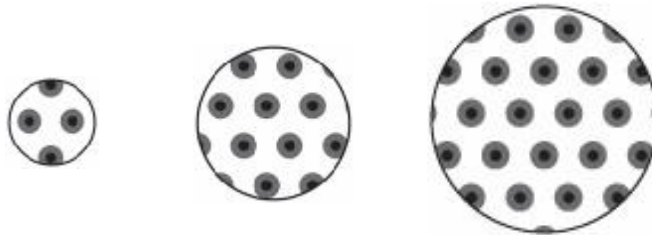
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PS03 Fraksiyonel Handpiece



Spot boyutu: 2 - 7 mm

Pixel Büyüklüğü: 400 / 850 μ m



Piksel sayısı spot boyutundan bağımsız sabitlenmiş “fixed pixel-number handpiece”

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Pulse modu - hafıza



Memory	HP	Spot Size (mm)	Fluence J/cm ²	Abl depth (μm)	Coag depth (μm)	TEI	Freq (Hz)	Pulse width	Spot deposition mode
LitePL	R11	5	3	7	14	LC	8	MSP	Basic
MedPL	R11	4	6	18	10	MC	8	MSP	Basic
DeepPL	R11	3	12	41	10	DW	2	SP	Basic
ThermPL	R11	5	5	15	18	MW	5	LP	Basic
NablFR	PS01	12	2	<5	N/A	N/A	1	SMOOTH	
MedFR	PS02	5	5	15	14	MW	2	SP	Basic
HighFR	PS02	5	6*5	91	N/A	N/A	1	SP	Turbo6
ThermFR	PS01	12	3	<5	N/A	N/A	1	SMOOTH	



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SP-Dynamis

**Er:YAG
S-Runner
Uygulama modu**

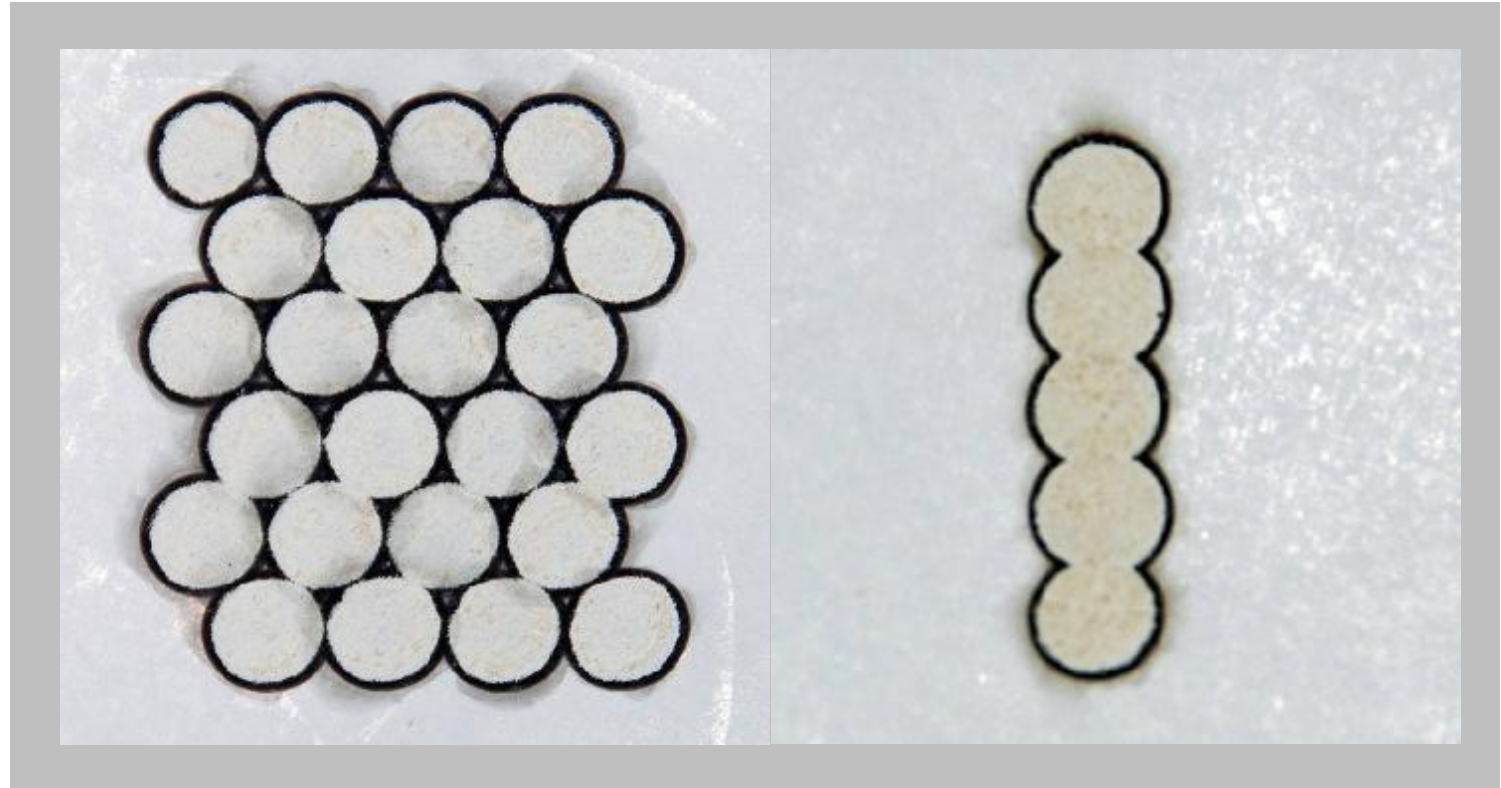
S-Runner

- Pulse genliđi: MSP (100 μ s), SP(300 μ s), LP(600 μ s),
VLP(1000 μ s), XLP(1500 μ s), SMOOTH(250ms)
V- SMOOTH (100, 200, 300, 400, 500ms)
- Enerji: 30mJ - 3J
- Fluans: 0.2 J/cm² - 20 J/cm²
- Frekans aralıđı: 2Hz – 50Hz
- Overlap aralıđı: 0%, 13%, 20%, 30%
- Spot büyüklüğü : 4mm
- Scan alanı: 40mm x 40mm (variable)
- Scan şekli: OP (optimal), SE (sequential), PR (partial)
- Pulse deposizyonu: Basic, Turbo2, Turbo3, ..., Turbo6,
Scan2, Scan3, ... Scan6
- Otomatik erteleme aralıđı: 0.3s - 1.5s



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Scan(Tarama) Şekli Değişkenleri



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S22 Scan (Tarama) Şekilleri

OP **OP**timal 4 pass'de her çizgiyi tarar

SE **SE**quential Sıra sıra tarar

PR **PaR**tial Duraksamalar ile OPtimal taramadır

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Sequential(Sıralı) Tarama Modu

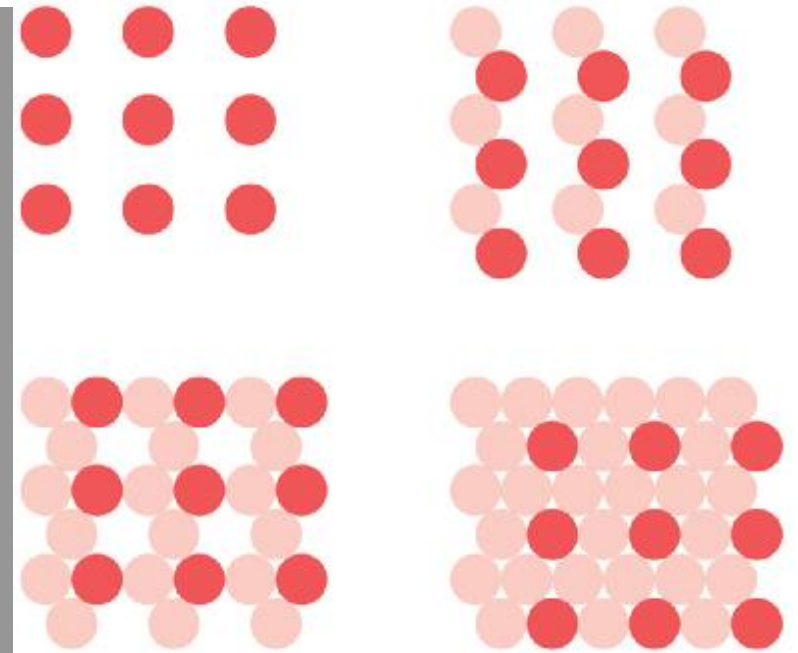
SE ya da SEquential tarama, tekli, bütün tarama alanında bölünmeyen çizgi çizgi, sıralı bir tarama gerçekleştirir

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Optimal Tarama Modu

Komşu dokulara, üst üste atım deposizyonu önlemiştir.

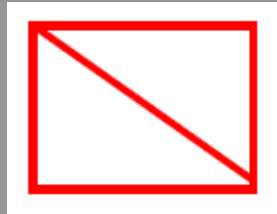
Komple tarama, 4 geçişte bütün tarama alanında tamamlanır.



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Partial (Kısmi) Tarama Modu

PR ya da PaRtial tarama sıralaması, OP tarama sıralamasındaki prensipe ek olarak, atışlar arasına ototekrar süresini almaktadır.



OTOTEKRAR



BİTİŞ

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S22 Tarama Özellikleri



- Ergonomik Dizayn
- Dengeleme Mekanizması
- Ellerinizdeki Hafiflik
- Özgür hareket kabiliyeti

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Mükemmel Dengeli Kol

Handpiece ile
dengeli



Scanner ile
dengeli



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S-Runner modu hafızası

Memory	HP	Spot size (mm)	Fluence J/cm ²	Abl depth (μm)	Coag depth (μm)	Freq (Hz)	Pulse width	Spot deposition mode	Overlap
LitetPL	S22	4	3	7	14	20	MSP	Basic, OP	13%
MedPL	S22	4	6	19	13	20	SP	Basic OP	13%
DeepPL	S22	4	3*6	57	N/A	20	SP	Turbo3, OP	13%
ThermPL	S22	4	6	20	26	10	XLP	Basic, OP	13%
NablPL	S22	4	1.4	<5	N/A	0.1s	VSMOOTH	VSMOOTH 0.1s	13%
LiteTH	S22	4	3.8	10	21	15	LP	Basic OP	13%
MedTH	S22	4	7.8	27	18	10	VLP	Basic, OP	13%
DeepTH	S22	4	2*6	39	N/A	8	XLP	Turbo2, OP	13%



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SP Dynamis

**Er:YAG
F22 Uygulama
Modu**

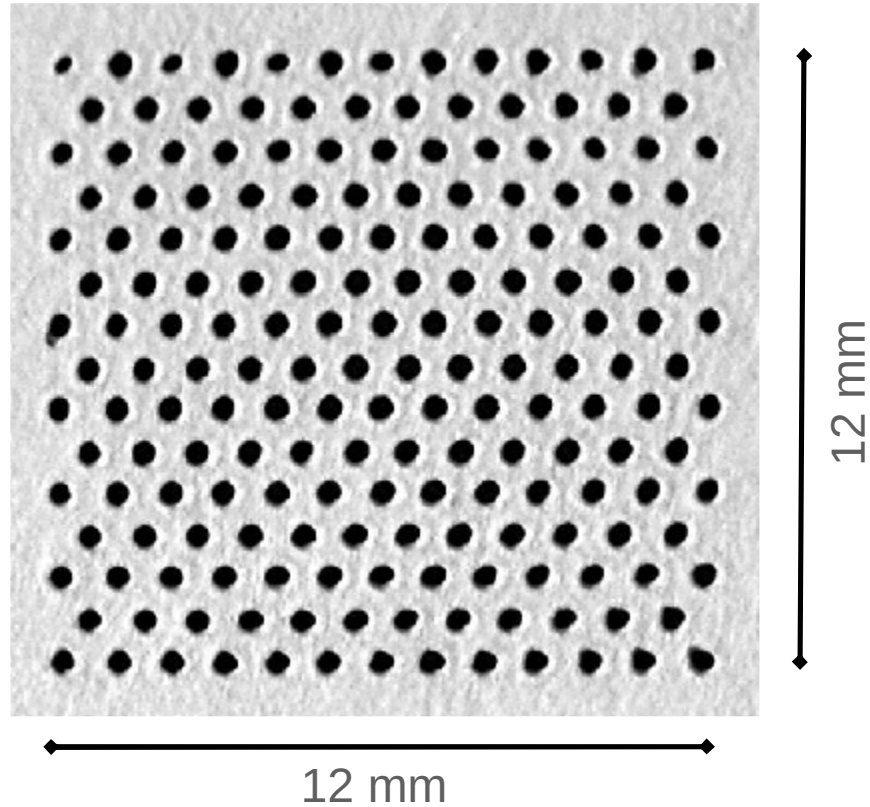
F-Runner

Pulse genliđi :	MSP (100µs), SP(300 µs), LP(600 µs), VLP(1000 µs), XLP(1500 µs)
Enerji:	3mJ 'den 300 mJ /per microspot (mikroatım)
Frekans aralıđı :	2Hz'den 50Hz'e
Simültane :	4 microspots
Overlap aralıđı :	5%, 10%, 20%
MicroSpotboyutu :	250 µm
Scan büyüklüğü:	12mm x 14mm (deđişken)
Scan şekli:	OPTimal , NATural
Pulse deposition:	Basic, Turbo2, Turbo3, ..., Turbo6
Ototekrar aralıđı:	0.3s -1.5s



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F22 Ayarlanabilir Tarama Alanı



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F22 Coverage

Bireysel pixeller arasındaki uzaklık farklı
coverage(kapsama) ayarlarında değişkendir

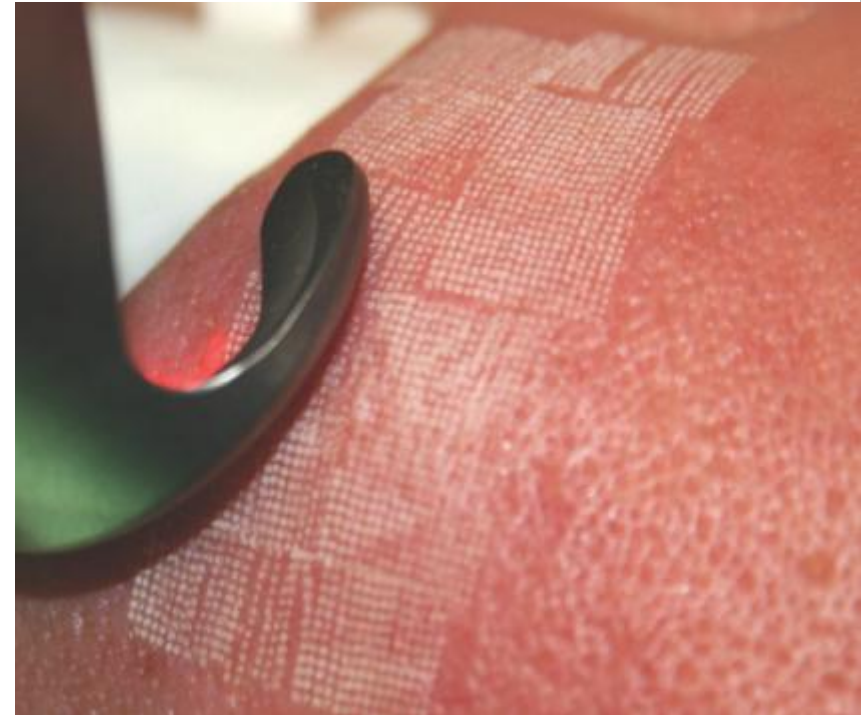
Coverage (%)	Uzaklık (mm)
5	1.06
10	0.75
20	0.53

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F22 Tarama Şekli

OPTimal Düzenli pattern

NATural Rastgele pattern



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F-Runner modu hafızası

Memory	HP	Spot size (mm)	Energy (mJ)/fluence (J/cm ²)	Abl depth (um)	Coag depth (um)	Freq (Hz)	Pulse width	Spot deposition mode	Coverage
LitePL	F22	0.25	3/6	19	N/A	50	MSP	Basic OP	5%
MedPL	F22	0.25	6/12	40	N/A	50	MSP	Basic OP	5%
DeepPL	F22	0.25	14/28	99	N/A	40	SP	Basic OP	5%
HighPL	F22	0.25	50/100	372	N/A	20	LP	Basic OP	5%
LitePL2	F22	0.25	3/6	19	N/A	50	MSP	Basic OP	10%
MedPL2	F22	0.25	6/12	40	N/A	50	MSP	Basic OP	10%
DeepPL2	F22	0.25	14/28	99	N/A	40	SP	Basic OP	10%
HighPL2	F22	0.25	50/100	372	N/A	20	LP	Basic OP	10%



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Nd:YAG

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Neden Nd:YAG Laser

1. Penetrasyon derinliği
2. Güvenilirlik
3. Güvenlilik

Nd:YAG dalga boyu derinlemesine ısıtma için ideal laserdir.

[May 2010]

Laser and Health Academy
Review

Laser and Health Academy Review
Vol. 2010, May, www.laserandhealth.com

The Dynamis Line Nd:YAG Lasers

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Dynamis Nd:YAG laser

- Extrem peak gücü
- Output gücünde stabilite
- Pulsed ve QCW
- Optimize tarayıcı kullanımı

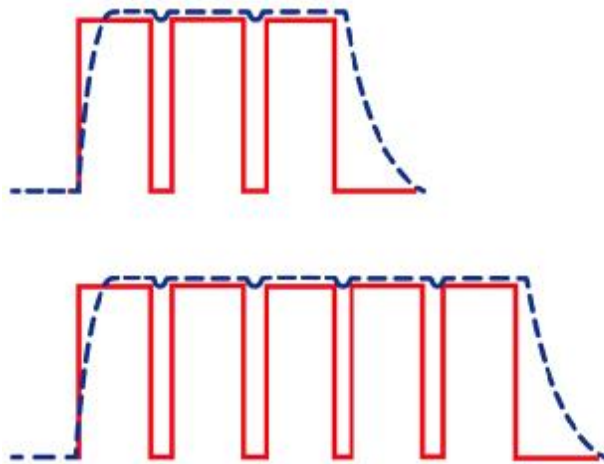
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Nd:YAG Pulse Spesifikasyonları

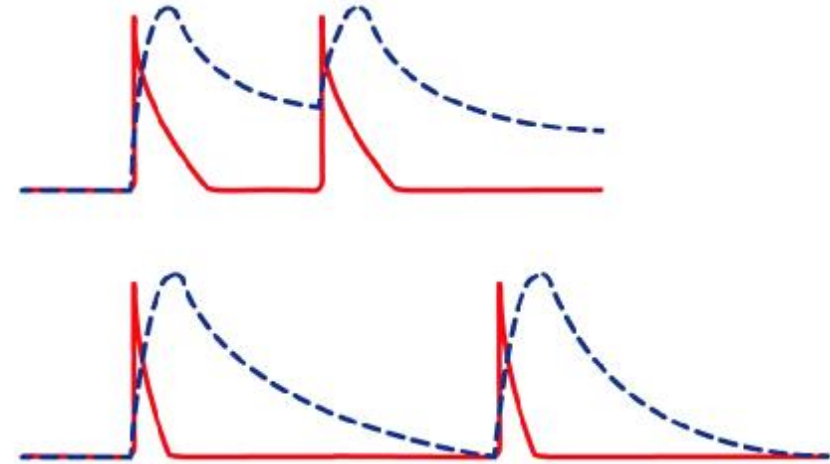
Pulse genliđi :	0,1 - 50 ms
Frekans aralıđı :	0,5 - 100 Hz
Enerji:	0,3 - 50 J
Max. Güç ayarı :	80 W
Peak gücü:	19 kW

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VSP9 Technology –long pulse (uzun atım)



Fotona VSP Long Pulse



Siradan "Long Pulse"

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Laser-doku etkileşimi: Bilimsel Makaleler



Novel Laser Therapy in Treatment of Onychomycosis

Jasmina Kozarev, Zdenko Vizintin

High Fluence, High Beam Quality Q-Switched Nd:YAG Laser with Optoflex Delivery System for Treating Benign Pigmented Lesions and Tattoos

Matjaz Lukac, Zdenko Vizintin, Marko Kazic, Tom Sult



Saphenous Vein Occlusion by Endovenous Laser Ablation (EVLA) with a 1064 nm VSP Nd:YAG Laser

Andrej Sikovec



QCW Pulsed Nd:YAG 1064 nm Laser Lipolysis

Matjaz Lukac, Zdenko Vizintin, Janez Zabkar, Samo Pirnat



Beyond Customary Paradigm: FRAC3® Nd:YAG Laser Hair Removal

Matjaz Lukac, Martin Gorjan, Janez Zabkar, Ladislav Grad, Zdenko Vizintin



Parameters for the New FRAC3® Nd:YAG Laser Skin Treatment Modality

Matjaz Lukac, Tom Sult, Janez Zabkar, Martin Gorjan, Zdenko Vizintin

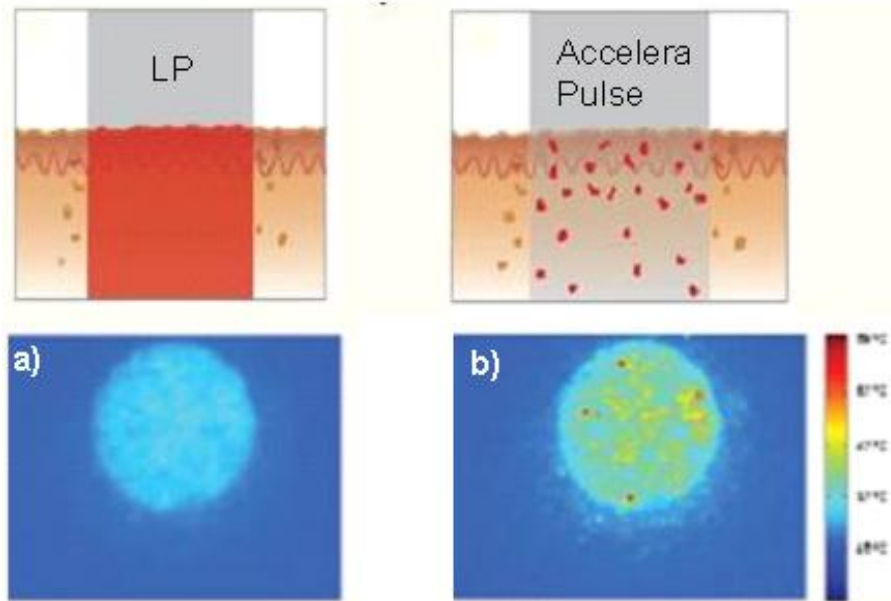
Ablation and Thermal Depths in VSP Er:YAG Laser Skin Resurfacing

Matjaz Lukac, Tadej Perhavec, Karolj Nemes, Uros Ahcan



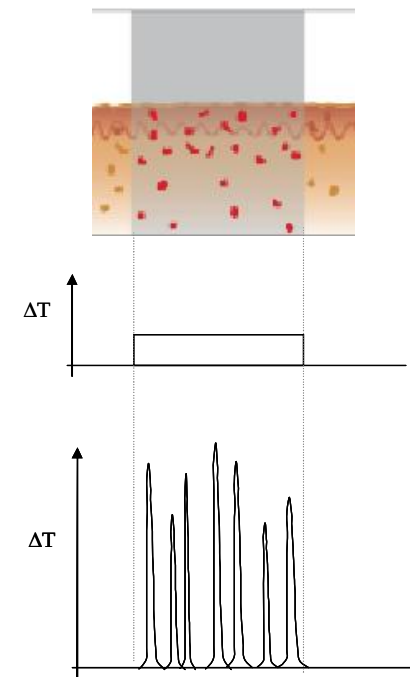
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Homojen Selektif Fototermolize Karşı



a) Long duration, low power laser pulse

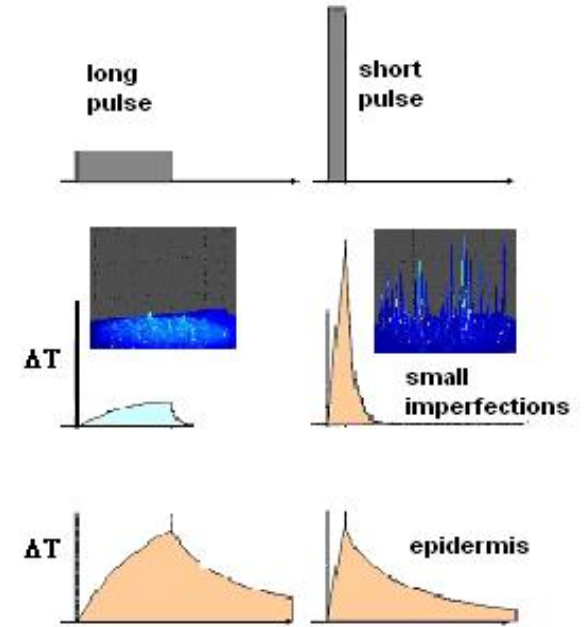
b) Short duration, high power FRAC3 laser pulse



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Epidermal güvenlik incelemesi

1. Yeni arařtırmalar göstermiřtir ki cilt TRT deęeri 10 ms'e kadar deęil, fakat 100 ms'e kadardır.
2. Epidermal güvenlik için fluans eřięi mümkün olduęunca düşük tutulmalıdır.
3. Hedef zarar eřięi (fluence) kısa atımlarla düşürülebilir.
4. Yeni yaklařım J.LAHA dergisinde açıklanmıřtır.



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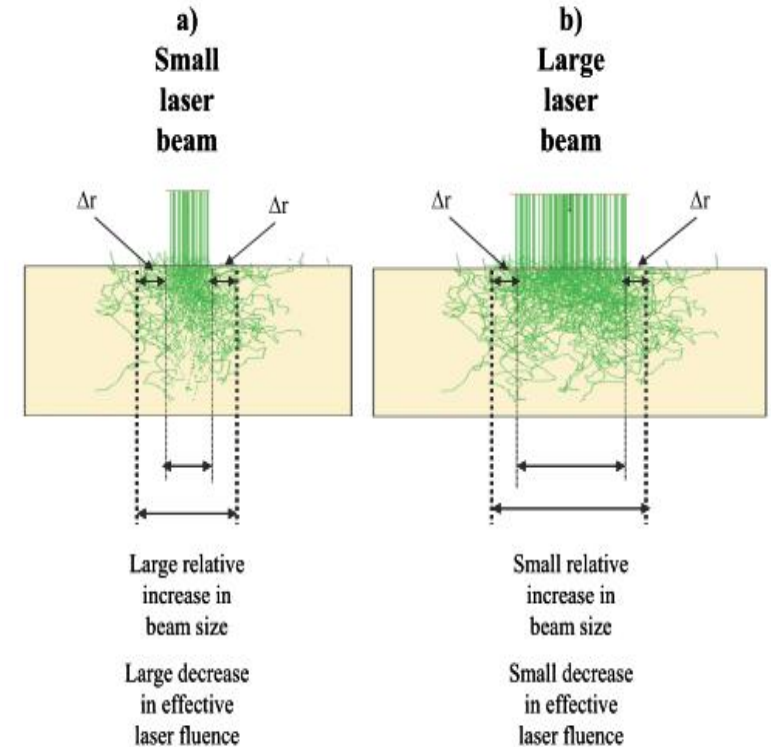
Spot Boyutu İncelemesi

1. Saçılma etkisi.
2. Saçılma etkisini kompanse edebilmek için fluans (9 vs 3 mm spot boyutu – factor 1,6) ayarlanmalıdır

Ya da

aynı klinik sonuç için aynı fluans değerinde pulse süresi azaltılmalıdır.

Bakınız J.LAHA, 2010,1.



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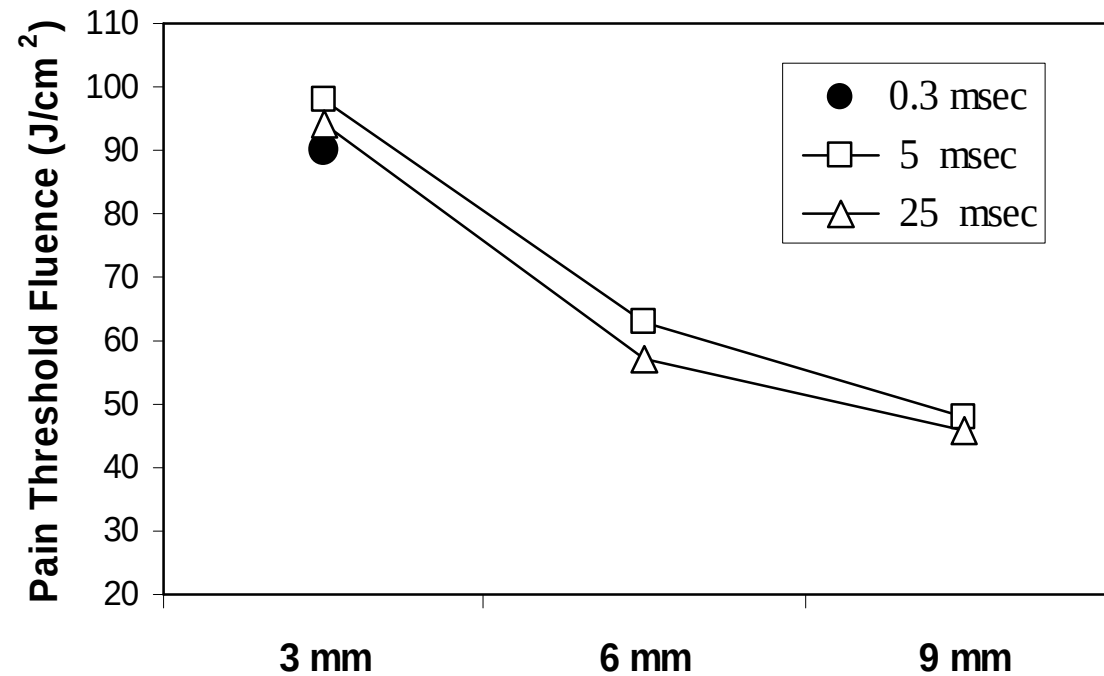
Cilt derinliği (scattering/saçılma) incelemesi

Spot size	3 mm	6 mm	9 mm	12 mm	15 mm	20 mm
Effective fluence relative to the effective fluence at 9 mm	62%	88%	100%	107%	112%	117%

Ref: Lukac et al, Beyond Customary Paradigm : FRAC3 ® Nd:YAG Laser Hair Removal, J of LAHA 2010, 1, 35-46.

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Hasta konforu faktörü



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Laser Epilasyonda Yeni Yaklaşım

Hair removal treatment regime	Fluence	Pulse duration	Spotsize	Hair removal efficacy	Pain
Standard	55 J/cm ²	15-25 ms	9 mm	1	2
FRAC3®	55 J/cm ²	1 ms	3 mm	2.2	1

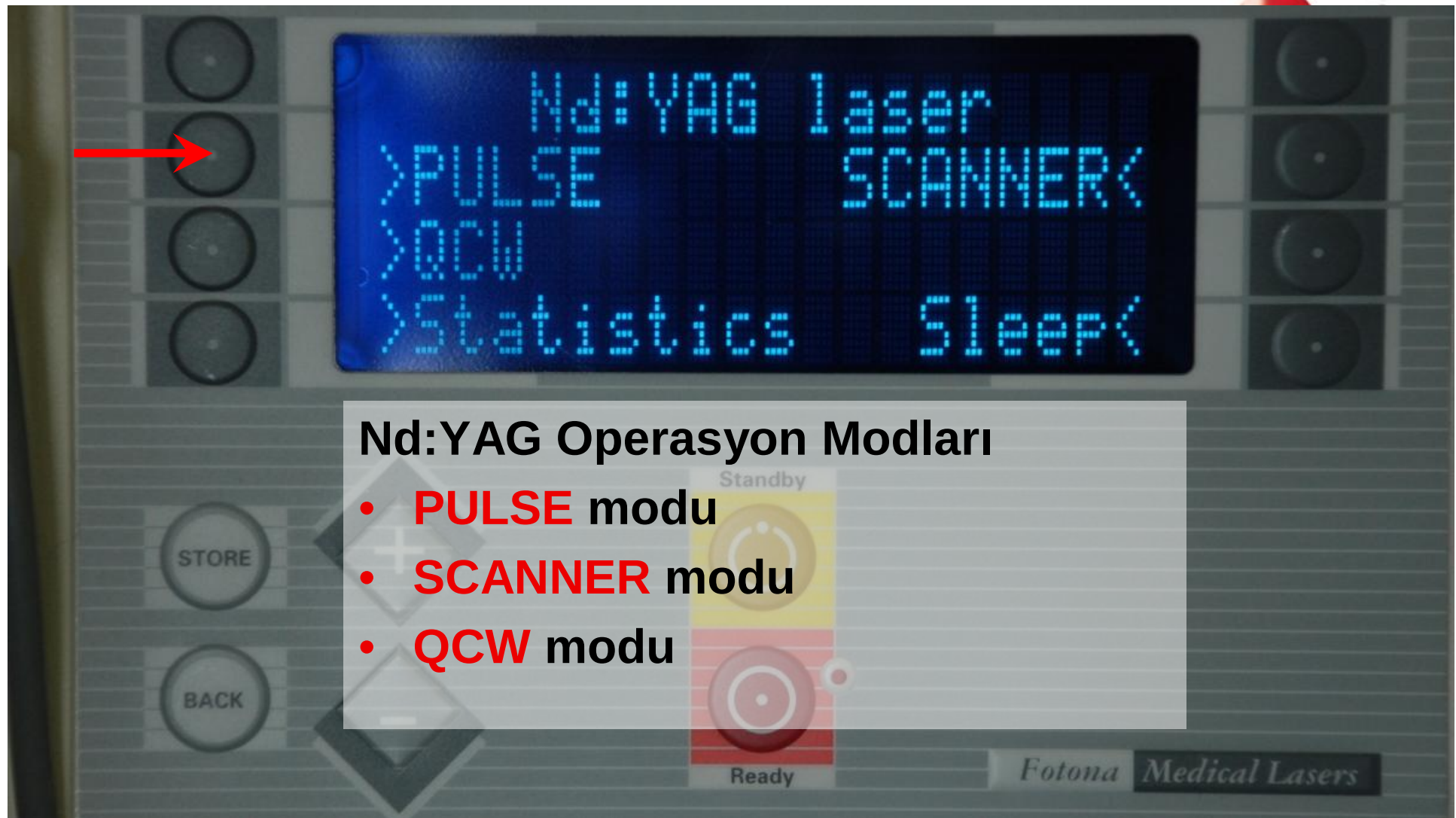
Ref: Lukac et al, Beyond Customary Paradigm : FRAC3 ® Nd:YAG Laser Hair Removal, J of LAHA 2010, 1, 35-46.

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Klinik rehberler – Laser Epilasyon

Treatment Modality:		<i>FRAC3® Hair Removal</i>		
Laser System		Fotona Dynamis		
Laser wavelength		Nd:YAG (1064 nm)		
User Interface Mode:		Pulse (Accelera)		
Utilized handpieces:		S11 scanner		
	Spot size (mm)	Pulsewidth (ms)	Fluence (J/cm²)	Frequency (Hz)
Skin group A	3	0.3- 5.0 msec	<55	15
Skin group B	3	0.3 - 5.0 msec	<35	20
Skin group C	3	0.3 - 5.0 msec	<25	25

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Nd:YAG Operasyon Modlari

- **PULSE** modu
- **SCANNER** modu
- **QCW** modu

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SP Dinamis

**Nd:YAG
Pulse Uygulama
Modu**

R31A- Gaussian ışın profili

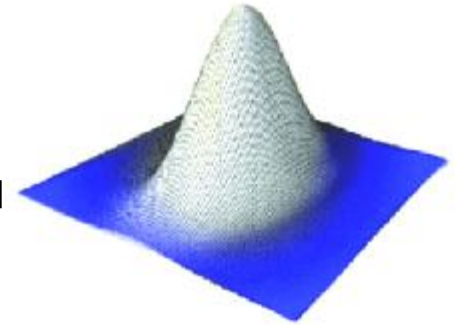


Tedavi ışını spot büyüklükleri: 2 - 10 mm in
1 mm aralıklarla

Uygulanan kısım tipi: Tip B

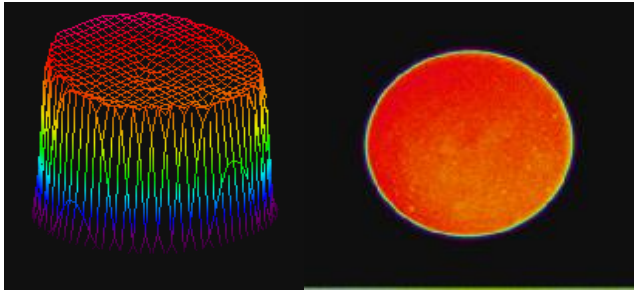
Sterilizasyon: Otoklavda sterilizasyona uygu
(sadece handpiece spacer'ı)

Uyumlu ışın iletimi: 940 μ m core fiber
NA=0.22 ile



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R33 – Top hat profili



Spot boyutu: 2, 3, 4, 5, 6, 7, 8, 9 ve 10 mm boyutlarında spotlar için değıştirilebilen optikler

Sterilizasyon: Otoklavda sterilizasyona uygun (sadece handpiece spacer'ı)

Uyumlu ışın iletimi: 940 μ m core fiber with NA=0.22

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Klinik Kullanımı

- **Laser epilasyon**
- **Vasküler Lezyonlar**
- **Akne**
- **Tırnak Mantarı Enfeksiyonu**



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Pulse modu hafızası

	Pulse Width (ms)	Freq (Hz)	Fluence (J/cm2)	HP	Spot Size (mm)
RedVein	10	1,5	200	R33	2
BluVein	30	1,5	120	R33	4
HairLow	50	2,6	30	R33	9
HairHi	15	2	50	R33	9
Tight	50	2,6	30	R33	9
HiTight	15	2	50	R33	9
Acne	25	1	40	R33	4
Nails	35	1	40	R33	4



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SP Dynamis

**Nd:YAG
Scanner Uygulama
Modu**

S11 - Spesifikasyonları



Spot boyutu 3 mm, (opt. 6 mm ve 9 mm)

Scan pattern X ve Y doğrultusunda ayarlanabilir
(çizgi, kare, dikdörtgen, tek spot)

Scanning taramaları

SE – Sequential

OP – OPTimal

PR – PaRtial

Maximum scan alanı (yaklaşık) 42.00 cm²

Overlap: 13 %, 20 % ve 30 %

Optik fiber 940 um çap ile

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S11- İç ve dış optikler

6 mm scanner
inlet optics

9 mm scanner
inlet optics

Removable outlet
protective window

3 mm scanner
inlet optics

3 mm scanner
outlet lens



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Klinik Uygulama

- FRAC 3
- Laser Epilasyon
- Akne
- Cilt Sıkılaştırma



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24 Scanner modu hafızası

	Pulse Width (ms)	Freq (Hz)	Fluence (J/cm2)	HP	Spot Size (mm)
Frac3	0,1	50	15	S-11	3
HiFrac3	0,3	20	35	S-11	3
HairLow	50	5,5	50	S-11	3
HairMed	30	6,5	60	S-11	3
HairHi	15	6	70	S-11	3
Hair XX	1	5	90	S-11	3
Acne	25	7	50	S-11	3
Rosacea	25	8	35	S-11	3

	Pulse Width (ms)	Freq (Hz)	Fluence (J/cm2)	HP	Spot Size (mm)
HairLow	50	3,6	40	S-11	6
HairMed	30	3,4	50	S-11	6
HairHi	15	3,2	60	S-11	6
HairMax	5	3,2	70	S-11	6
Tight	50	4	30	S-11	6
HiTight	15	3,6	60	S-11	6
Acne	25	3,8	40	S-11	6
Celulit	30	3,4	50	S-11	6

	Pulse Width (ms)	Freq (Hz)	Fluence (J/cm2)	HP	Spot Size (mm)
HairLow	50	2,6	30	S-11	9
HairMed	30	2,4	40	S-11	9
HairHi	15	2	50	S-11	9
HairMax	5	1,7	60	S-11	9
Tight	50	2,6	30	S-11	9
HiTight	15	2	50	S-11	9
Acne	25	2,8	30	S-11	9
Celulit	30	2,4	40	S-11	9



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SP Dynamis

**Nd:YAG
QCW Uygulama
Modu**

Nd:YAG QCW Spesifikasyonları

Pulse genliđi : 0.1, 0.3, 0.6, 1.0, 2.0 ms

Frekans aralıđı : 0.5Hz - 100Hz

Min. Güç ayarı : 0.15 W (0.5Hz and 0.3J)

Max. Güç ayarı : 30 W (600 µm fiber)

80 W (1000 µm fiber)

Fiber çapı : 600 ya da 1000 µm

Uygulama süresi : 0 - 999 s

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R27

Çalışma mesafesi: kontakt halde

Sterilizasyon: Otoklavda sterilizasyona uygundur

Biocompatibility: NAMSA – VI Sınıfı (USP) – açık fiber



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QCW modu hafızası

	Pulse Width (ms)	Freq (Hz)	Power (W)	Delivery system
Lipo	0,3	50	10	600 um
Hi_Lipo	0,3	50	20	600 um
EVLA	0,3	100	16	600 um
Hi_EVLA	0,3	100	25	600 um
SurgLow	0,3	17	2	600 um
SurgMed	0,3	50	10	600 um
SurgHi	0,3	50	20	600 um
SurgMax	0,6	40	30	600 um



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Klinik Kullanımı

- Lipolysis
- EVLA
(Endovasküler Laser Uygulamaları)



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Sonuçlar:

Dynamis Er:YAG ve Nd:YAG laserleri, yeni teknolojileri ile in anti-aging çözümlerine yeni bir standart getirmiştir:

- Yeni iç enerjimetreleri ile **rakipsiz keskinlik**
- Scanner teknolojisi ile full güç kullanımı- **hız**.
- 6 operasyonel modu hafızaları ile **kullanım kolaylığı**
- Ablatif / termal derinlik **tahmini** kabiliyeti.

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