# Shanghai Omni Laser Skinology CO.,LTD



Q-Switch Nd: YAG Laser System







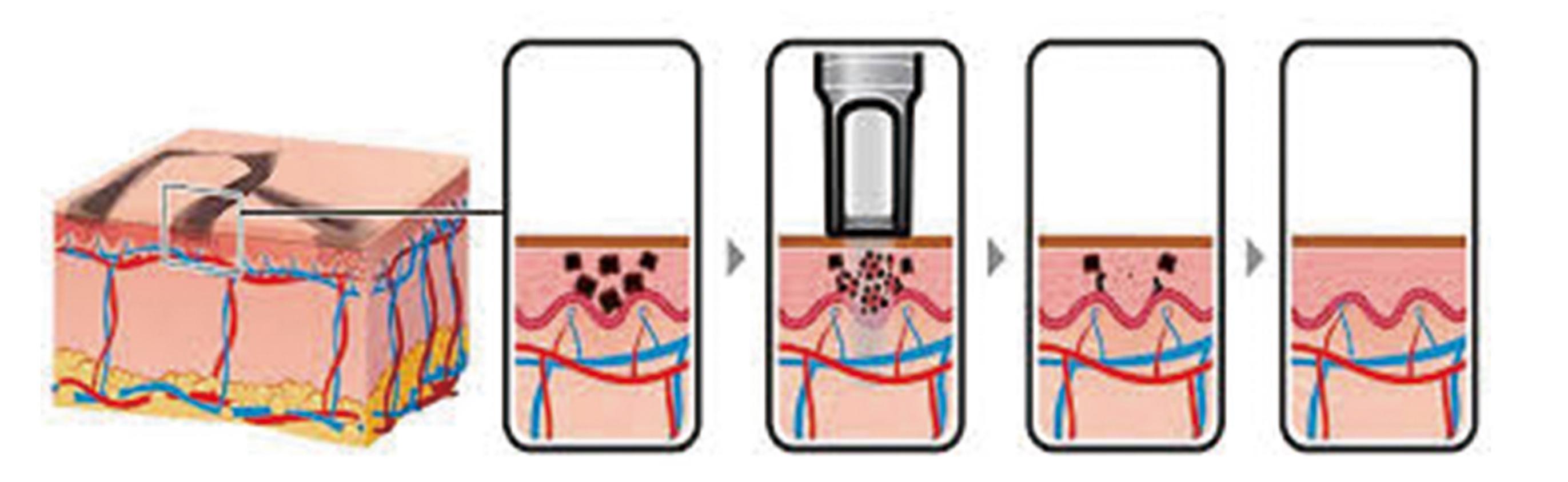






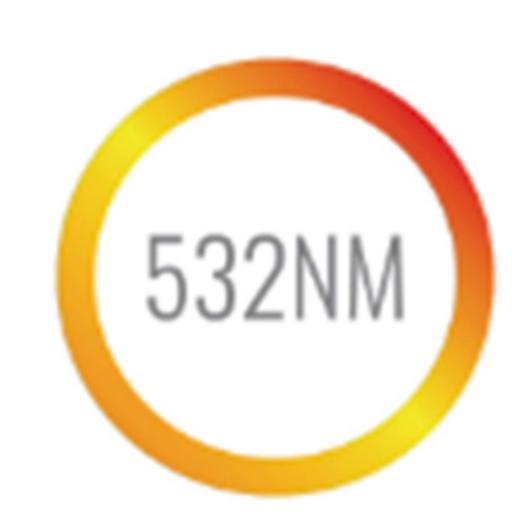
## Q-Switch ND:YAG Laser System---Pigmentation Killer

The Q-Switched / Q-Switch ND:YAG Laser is a type of Laser used in medical and aesthetic procedures. It uses the theory that a specific wave length (1064nm or 532nm) of laser will be absorbed by specific pigment. The high energy of laser, absorbed by the specific pigment, could cause the pigment to swell and explode, partial fragments of the pigment will be shot out of the body, and the other pigment fragments will be removed by your body's immune system over a period of time. Because the normal skin absorbs little energy induced by laser at the wavelength of 1064nm or 532nm, so the laser could selectively target and destroy tattoo pigments but not damage the surrounding normal tissues.



### Application







The 1064nm laser tip is applied for black or blue pigmentation and penetrates deeper.



532nm is used for red and brown color, 532nm is for superficial lesions.



Carbon laser facial tip is for skin rejuvenation and acne treatment.

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#### Advantages

Unique Q-Swith ND: YAG Laser Handpiece, it is plug-and-socket style, not the screwing style any more, easy to change treatment tips.



- Standard, using the medical spare parts inside to ensure the safety of the machine.
- 1000mJ real energy output makes it powerful for all color pigmentation.





#### Specification

Product Name: Q-Switch ND: YAG Laser System

Model No.: RD-YAG100/RD-YAG300/RD-YAG600/RD-YAG900/RD-YAG950A/RD-YAG950B

Screen: 8.4"/10.4"/12.1"/10.4"/15"/15"

Customer Management And Printer Function: N/A / N/A / A / N/A / A / A / A

Light Source: Xenon Lamp and ND: YAG Laser Bar

Heads: 1064nm treatment tip; 532nm treatment tip; Black Doll

Power: 500W Voltage: 500-1000V

Pulse Energy: 1000mJ
Indicator: Infrared Indicator
Duration: 6ns
Treatment Area: 1-7mm2

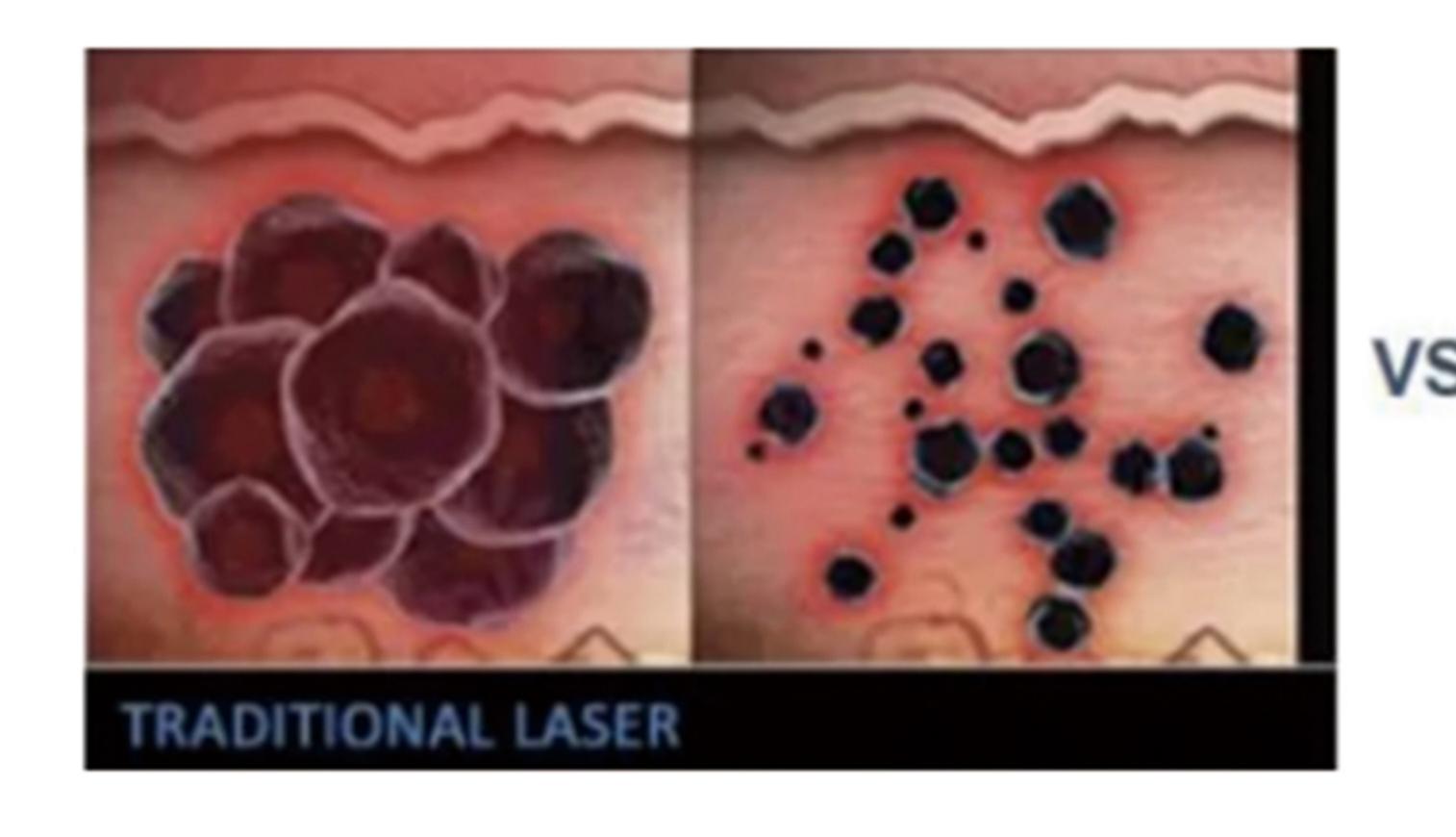
Pulse Repetition: 1-6Hz Cooling System: Water cooling and Air Cooling

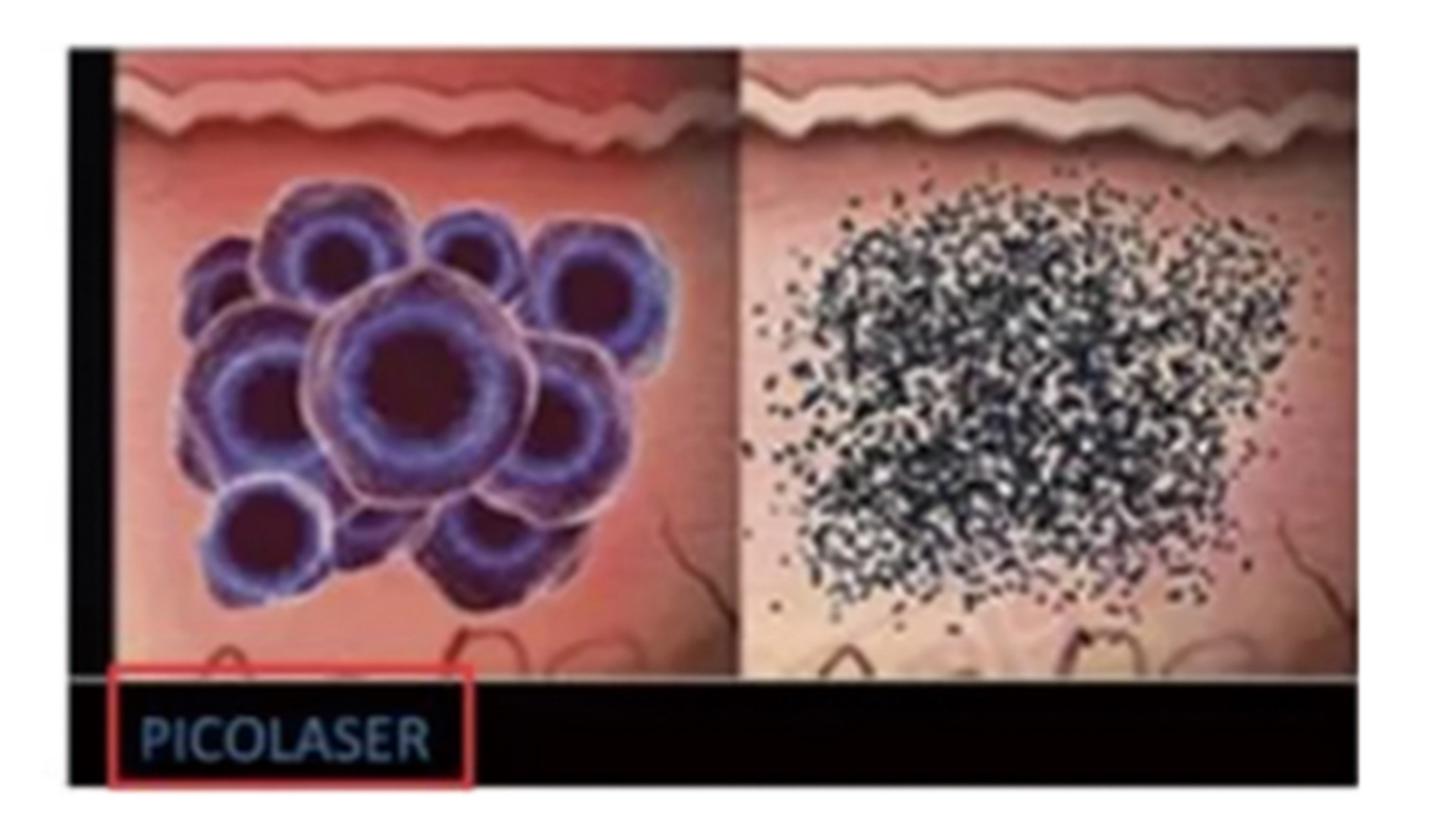
#### Pico-Second ND: YAG Laser

### How to solve the stubborn pigmentation or tattoo?

Pico Lasers are able to treat stubborn and challenging cases that Q-switch Lasers cannot

Q-switched lasers alone may not be enough to get rid of stubborn pigmentation. A study showed that Pico-second/Pico laser Treatments showed better results in treating melasma, a challenging skin pigmentation disorder. The Pico laser is measured by Pico-seconds, while Q-switch lasers are measured by nano seconds. The technology of Pico laser shatters pigments into much smaller fragments compared to Q-switch; this allows the body to get rid of stubborn pigmentation at a faster rate. Pico Lasers work by using laser energy that puts pressure to squeeze cells, this activates natural cells to trigger production of collagen and elastin without damaging the skin's surface. Pico-second Laser can also be used on a wider range of skin types and colours, as it is less likely to cause hyperpigmentation or hypopigmentation, compared to older Laser technologies.





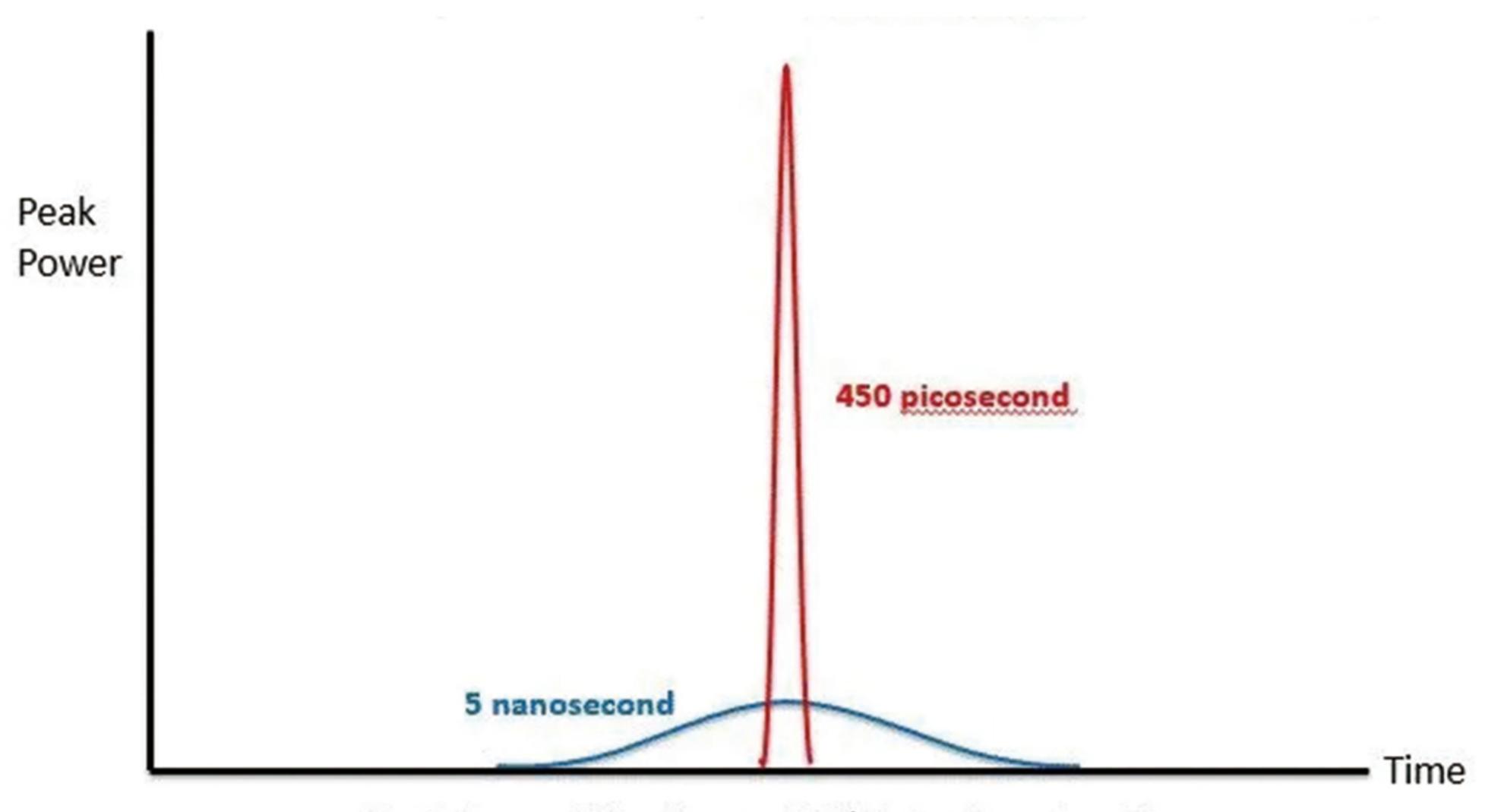
#### COMPARING Q-SWITCHED ND:YAG VS PICOSECOND LASERS

#### • PULSE DURATION:

The main difference between the two lasers is the pulse duration. Q-Switched ND:YAG Laser has a pulse duration of nanoseconds, while Pico-second Laser has a much shorter pulse duration of Pico-seconds.

This means that Pico-second Lasers can deliver shorter, more powerful bursts of energy, allowing for faster and more precise treatment. Yet Q-Switched ND:YAG Laser can provide a wider range of pigmentation treatments.

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Peak Power (W) = Energy (J) / Pulse Duration (s)

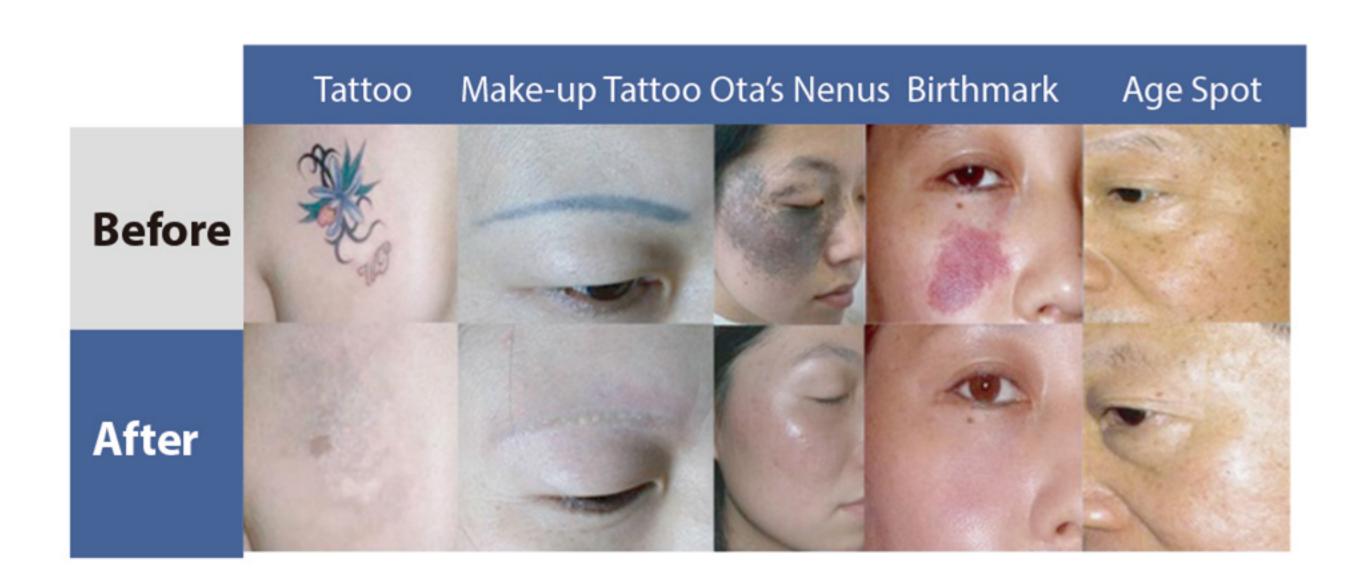
#### TREATMENT TIME:

Due to the shorter pulse duration, Pico-second Lasers can deliver treatment in a shorter time frame, usually within a few sessions. Q-Switched Nd:YAG Laser may require more treatments to achieve the same results.



Pico Laser Source	SBS Technology
Model No.	RD-PS100
Pulse Width	450-500ps
Single Pulse Energy	1064nm-500mj (Base Frequency) 532nm-200mj (Doubled Frequency)
Spot Size	8mm
Dimensions	620*290*122 (mm)
<b>Energy Stability</b>	<5%
Frequency	1-10Hz
Spot Mode	Flat Top
Polarization State	Linear Polarization
Divergence Angles	1mrad

#### Before & After



Carbon Facial





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