THE LARGEST DIDDE LASER FAMILY FOR HAIR REMOVAL









Milesman is a company doing business in more than 40 countries and who researches and manufactures advanced technology medical laser equipment.

It is divided into departments specializing in Laser Physics, Dermatology, Advanced Optics, Thermodynamics and Laser Chemistry among others. The production and R&D functions are performed at different locations in Europe and the United States.

The company makes use of its own technology developed in conjunction with prestigious universities and international research centers which provides a solid base and excess capacity for sustained growth in the coming years.





THE LARGEST **DIODE LASER FAMILY** FOR HAIR REMOVAL









1064 nm



755, 810, 940 and 1064 nm





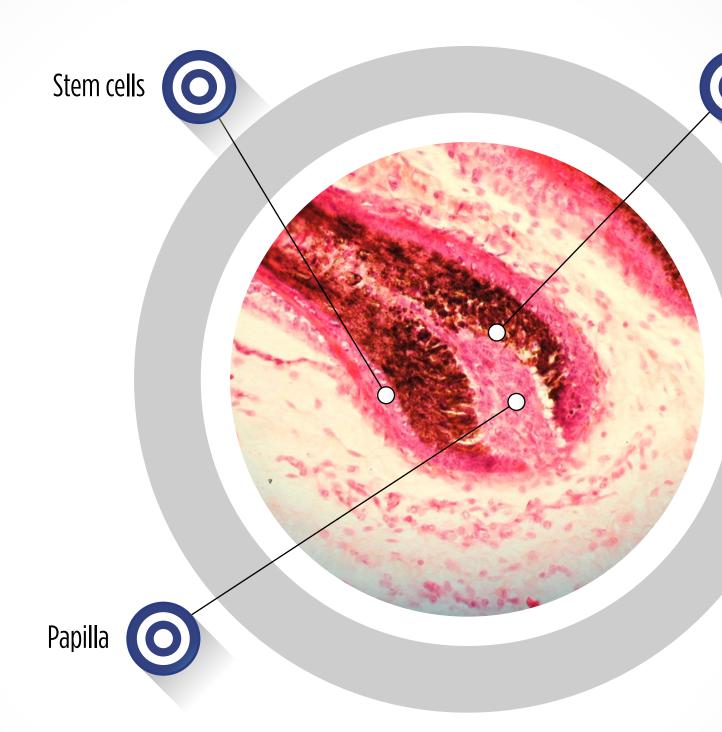
Wellman Center for Photomedicine

1997: DR. ROX ANDERSON FROM WELLMAN CENTER FOR Photomedicine in harvard medical school discovered How to effectively remove hair with a laser.

DR. ROX ANDERSON INVENTOR OF Laser hair removal **2007: MILESMAN MANUFACTURED A LASER THAT EXACTLY** MET THE REQUIREMENTS OF WELLMAN CENTER, TO PERMANENT REMOVE HAIR.

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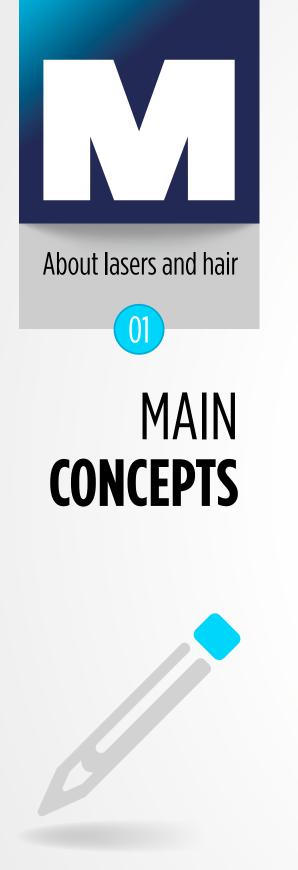








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Main concepts

The targets of laser hair removal (matrix, papilla and stem cells) have to be denaturalized and coagulated to avoid the hair growing. The way to best do this is by applying heat to the hair shaft so that it transmits the NECESSARY heat to damage and coagulate stem cells, matrixes and papillas.



MELANIN

Pigment is responsible for the color of skin, eyes and HAIR

Melanin





HIGH CONCENTRATION OF MELANIN, DARK HAIR AND BLACK SKIN



WHITE SKIN

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Heating a hair follicle

Wavelength

The laser light must have the proper wavelength which provides adequate absorption by the melanin but little by other pigments. (THEORY OF SELECTIVE PHOTOTERMOLYSIS)

Pulse duration

The laser light has to be delivered over a short time such that the melanin does not get overheated causing damage to the skin. Therefore it is said that the pulse duration must be shorter than the thermal relaxation time of the tissue in the treatment area.

Energy density

The laser light has to be delivered with a precise energy so that the melanin does not overheat and generate thermal damage to the skin.

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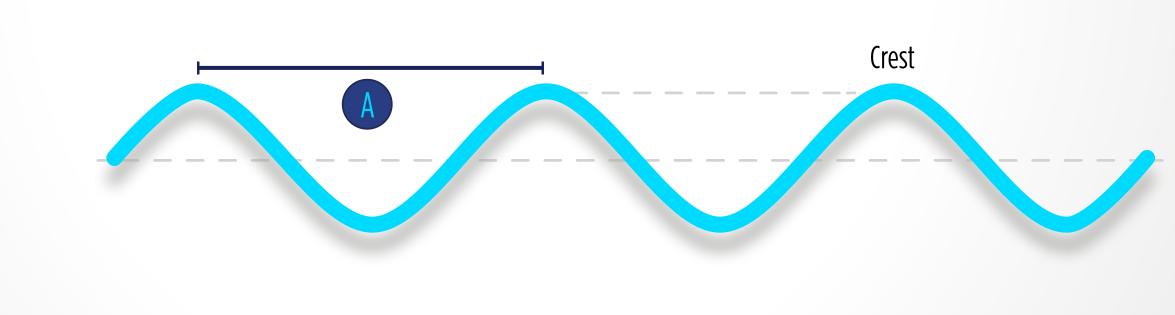


WAVELENGTH

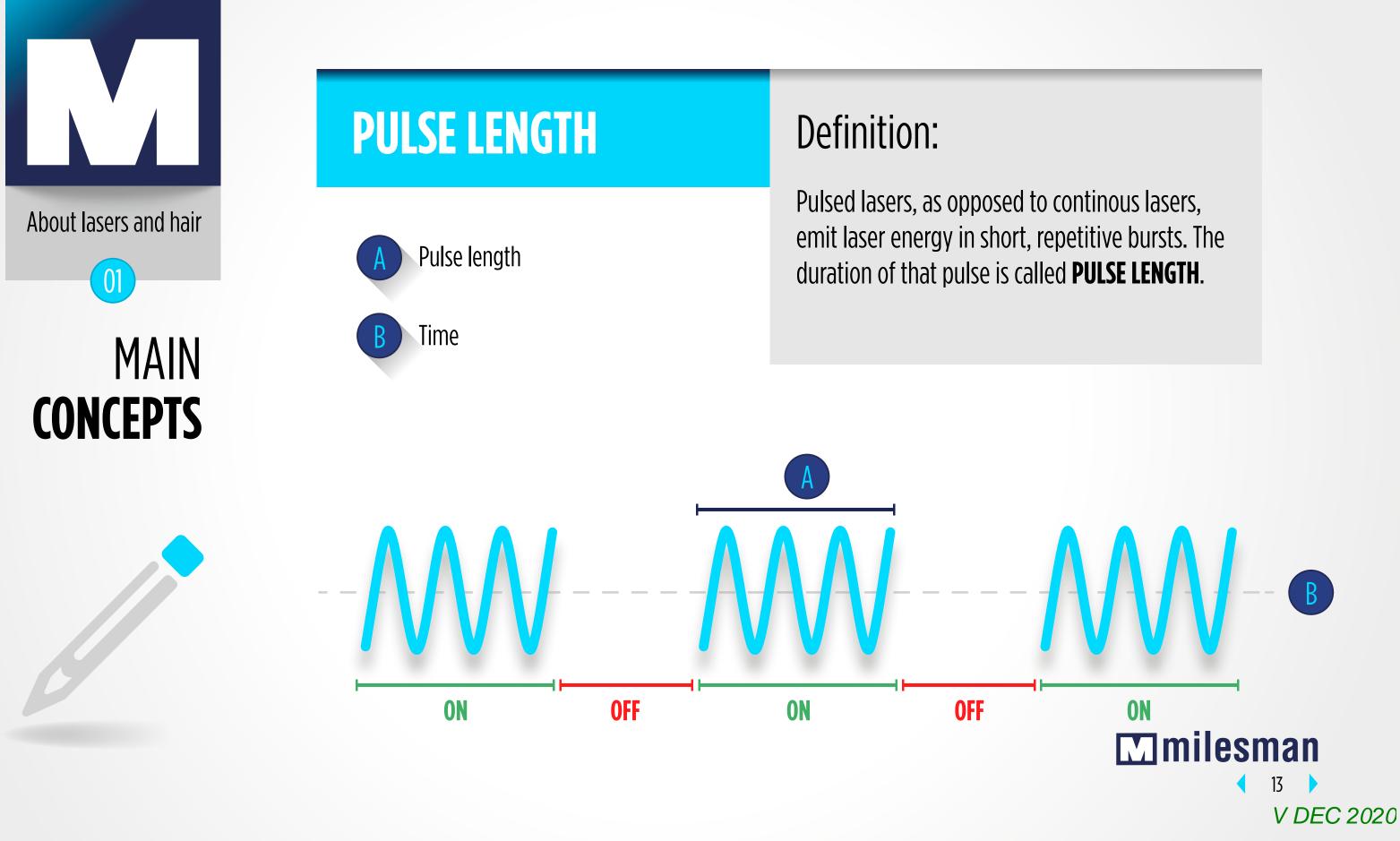


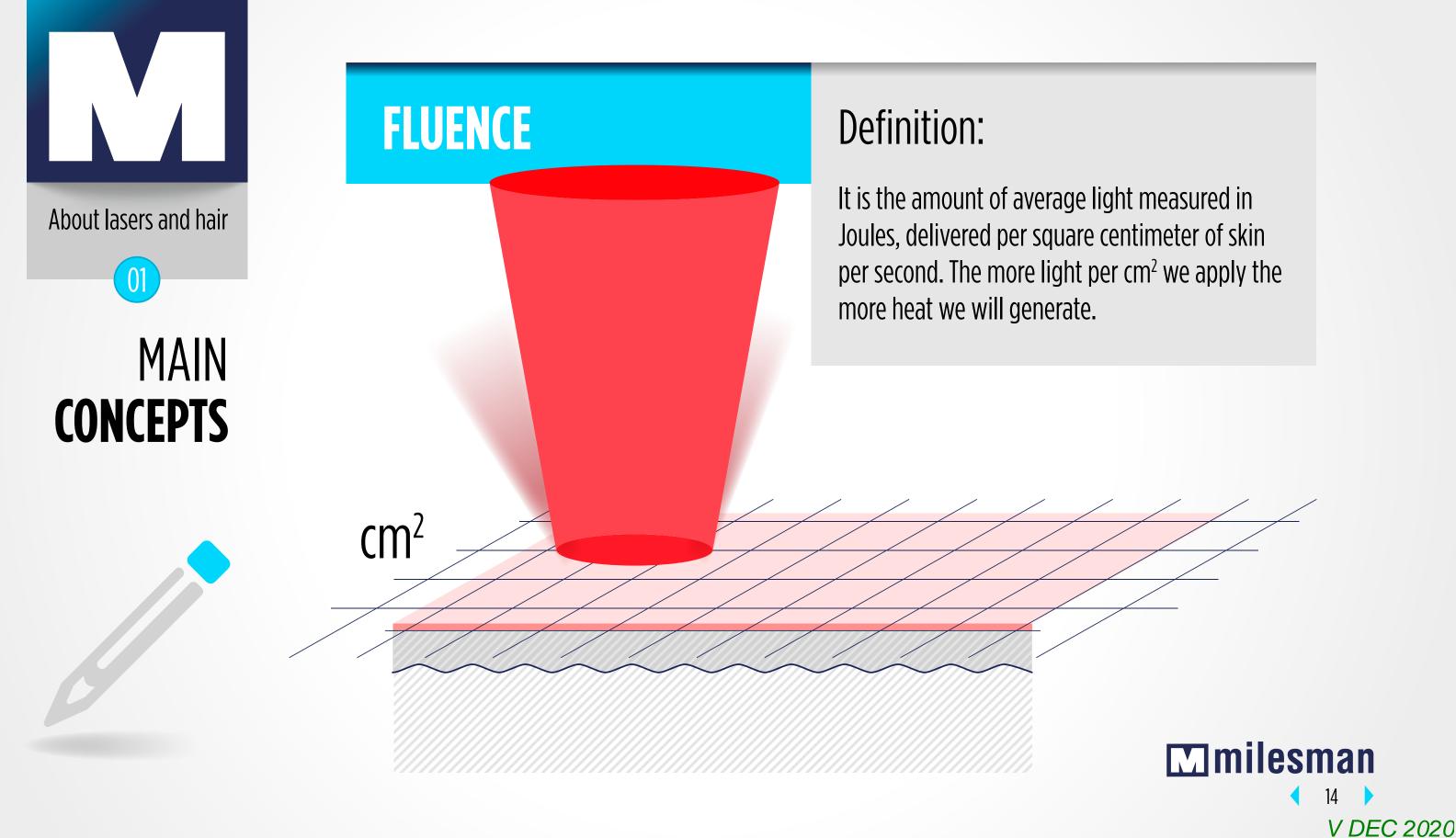
Definition:

Shortest distance at which the entire wave pattern is repeated, usually measured from crest to crest. The **wavelength** in the visible spectrum determines its color of the output laser.



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SUMMARY OF The formula for a laser for a laser for work for hair removal and be effective...

Heating

Heating the hair enough to heat, damage and coagulate the stem cells and the papila, responsible for hair growth.

Melanin

The way to heat hair is by the emission of a **laser** that is absorbed by a component of the hair called **melanin**, which has the feature that turns it into **heat**.

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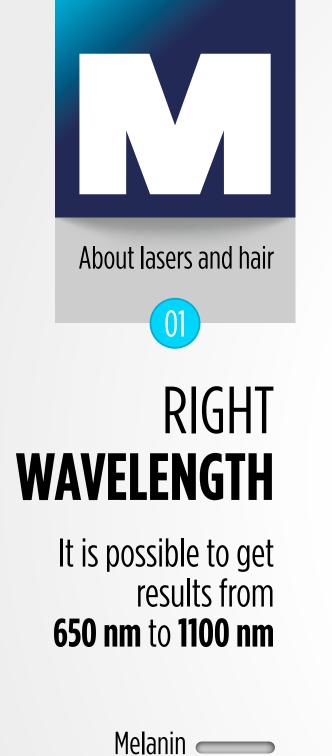






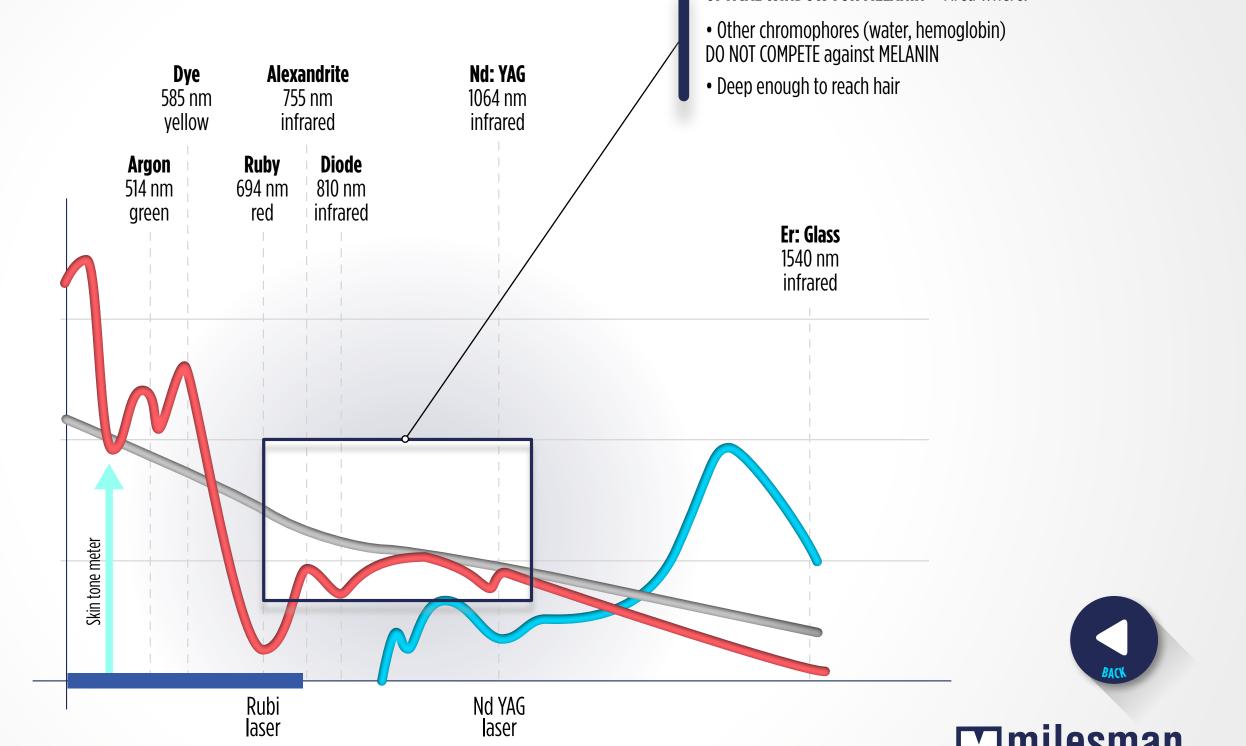


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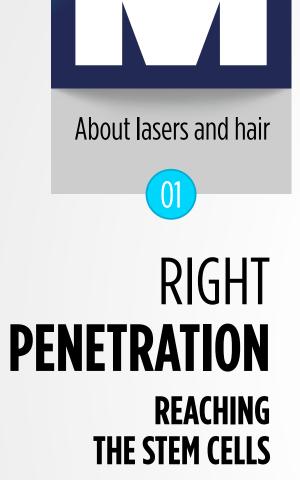
Oxyhemoglobin

Water •

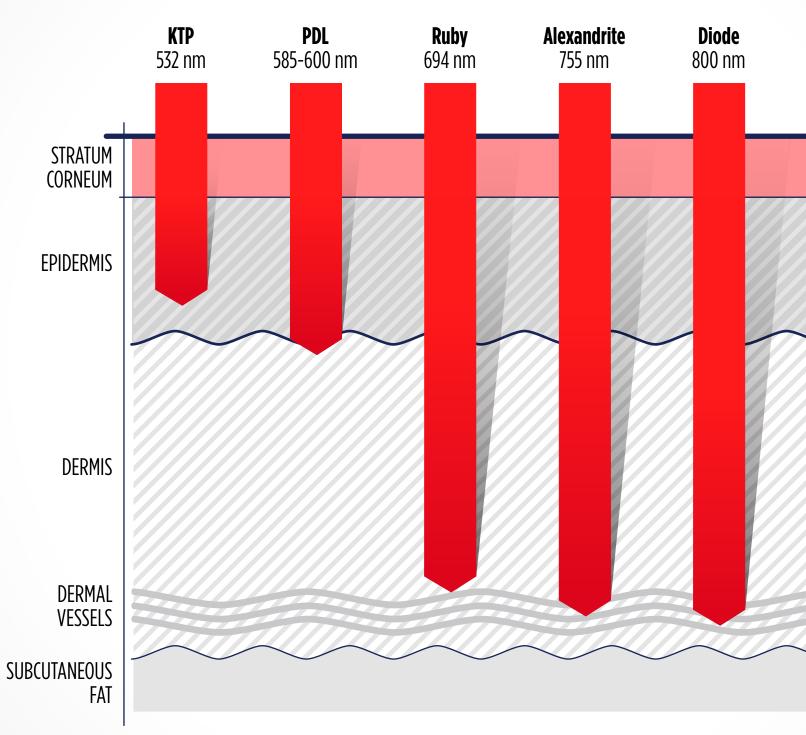


OPTICAL WINDOW FOR MELANIN = Area where:

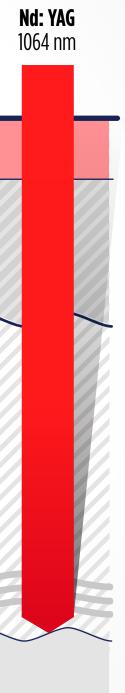
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Large terminal follicles are rooted deep in the subcutaneous fat. Papillas and stem cells are at the bottom of the hair follicles. A laser will be effective if it ´s able to reach the entire depth of the follicle. Only lasers from 650 nm up to 1,100 nm penetrate enough to reach the hair root and the targets.



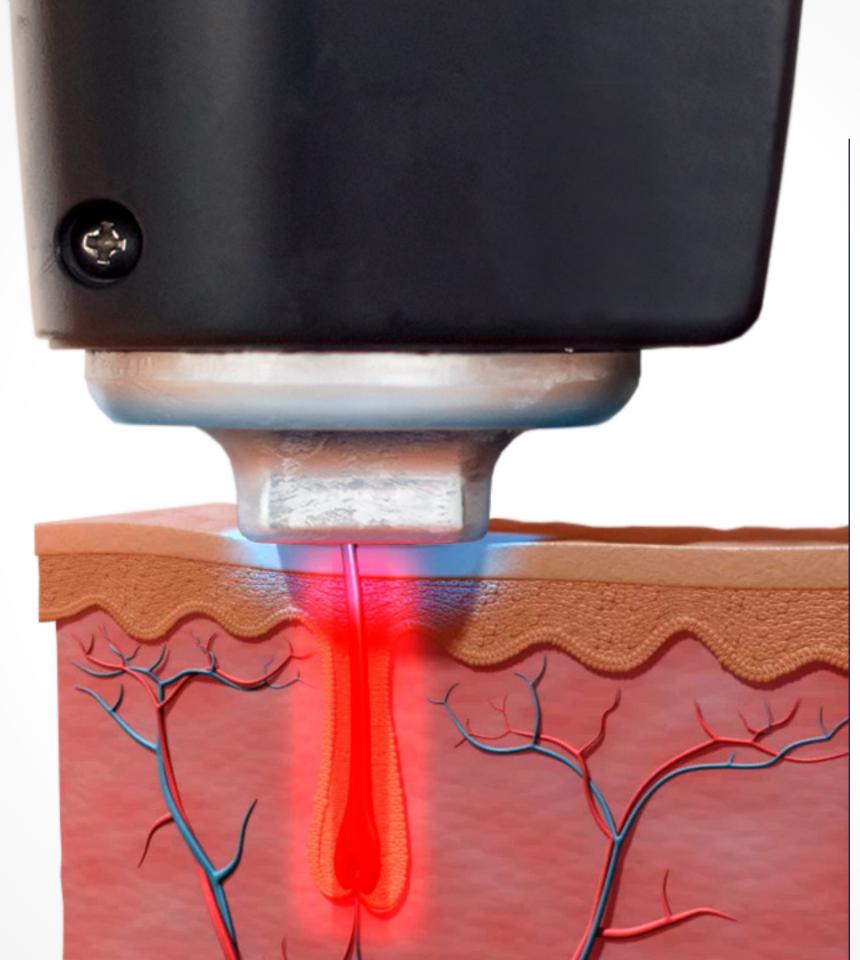
Depth of penetration by various lasers





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Thermally very conductive material: facilitates a good distribution of **COLD**



Allows a constant refrigeration even when the laser is being applied



IT IS RESISTENT



By pressing against the skin, it clears the blood from the vessels (hemoglobin) and brings the root to the surface



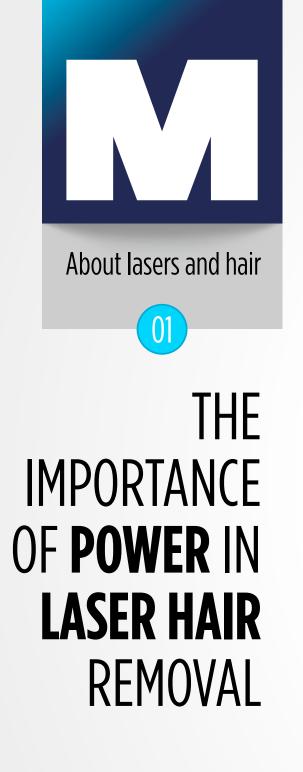
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SUMMARY

THE PERFECT LASER IS:

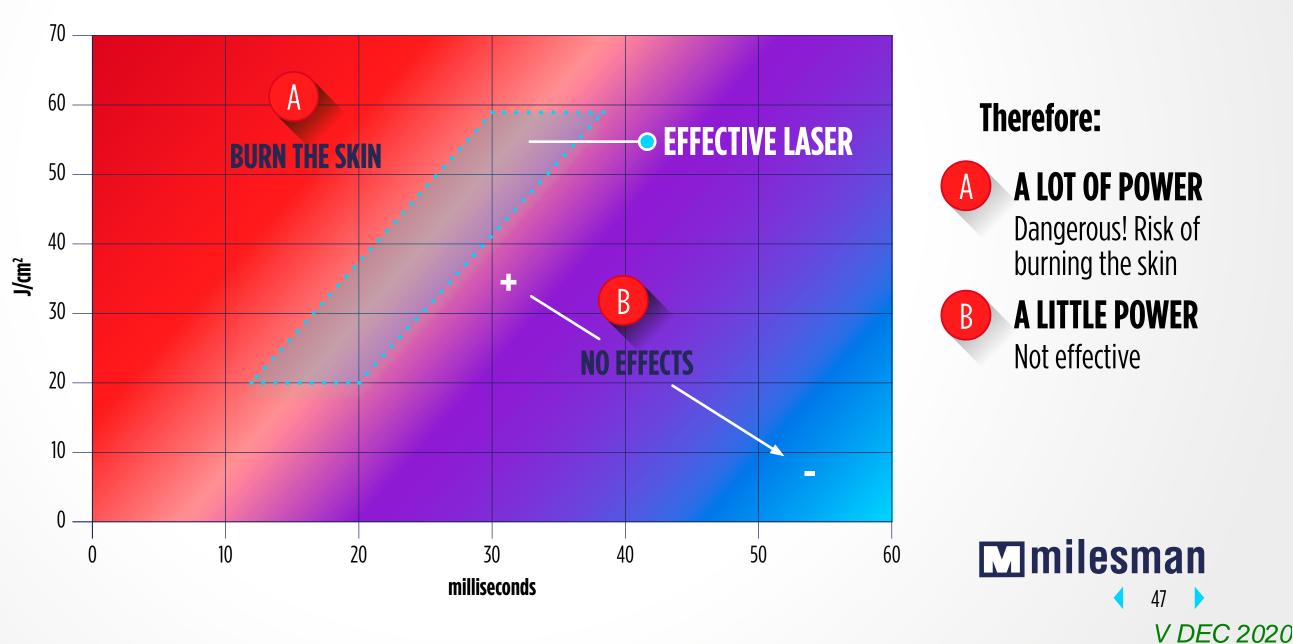
- 810 nm
- FLUENCE OVER 20 J/cm²
- PULSE LENGTH UNDER 30 ms
- COLD TIP





Power is essential in laser hair removal effectivity.

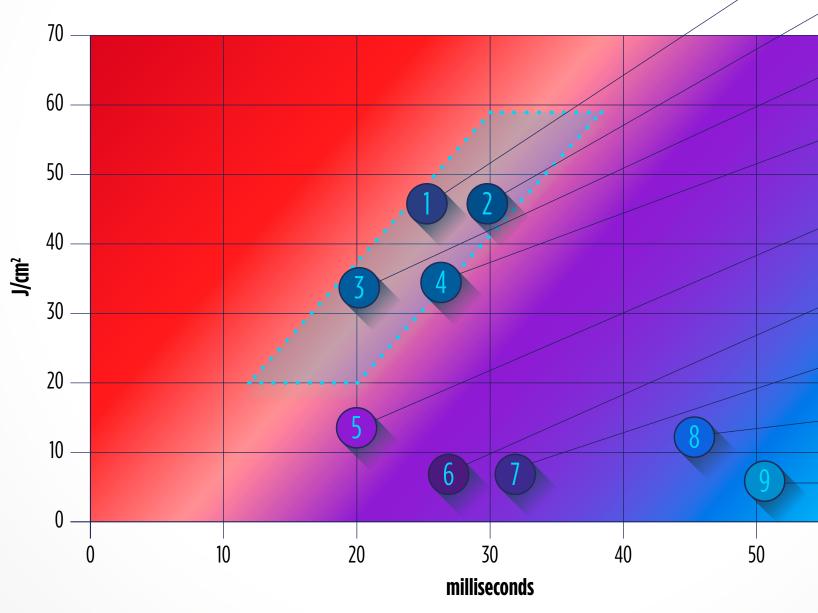
Clinical studies prove that a certain energy is necessary applied over a certain period of time to permanently remove hair.







Laser fluences per brand







PRICE vs RESULTS BY BRANDS

RESULTS



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ADVANTAGES OVER OTHER LASERS

- PORTABLE 9 KG VS +35 KG OTHER LASERS
- **ROBUST**
- VERY FEW SIDE EFFECTS
- NOISELESS
- NO HEAT IN THE ROOM
- LOW MAINTEINANCE





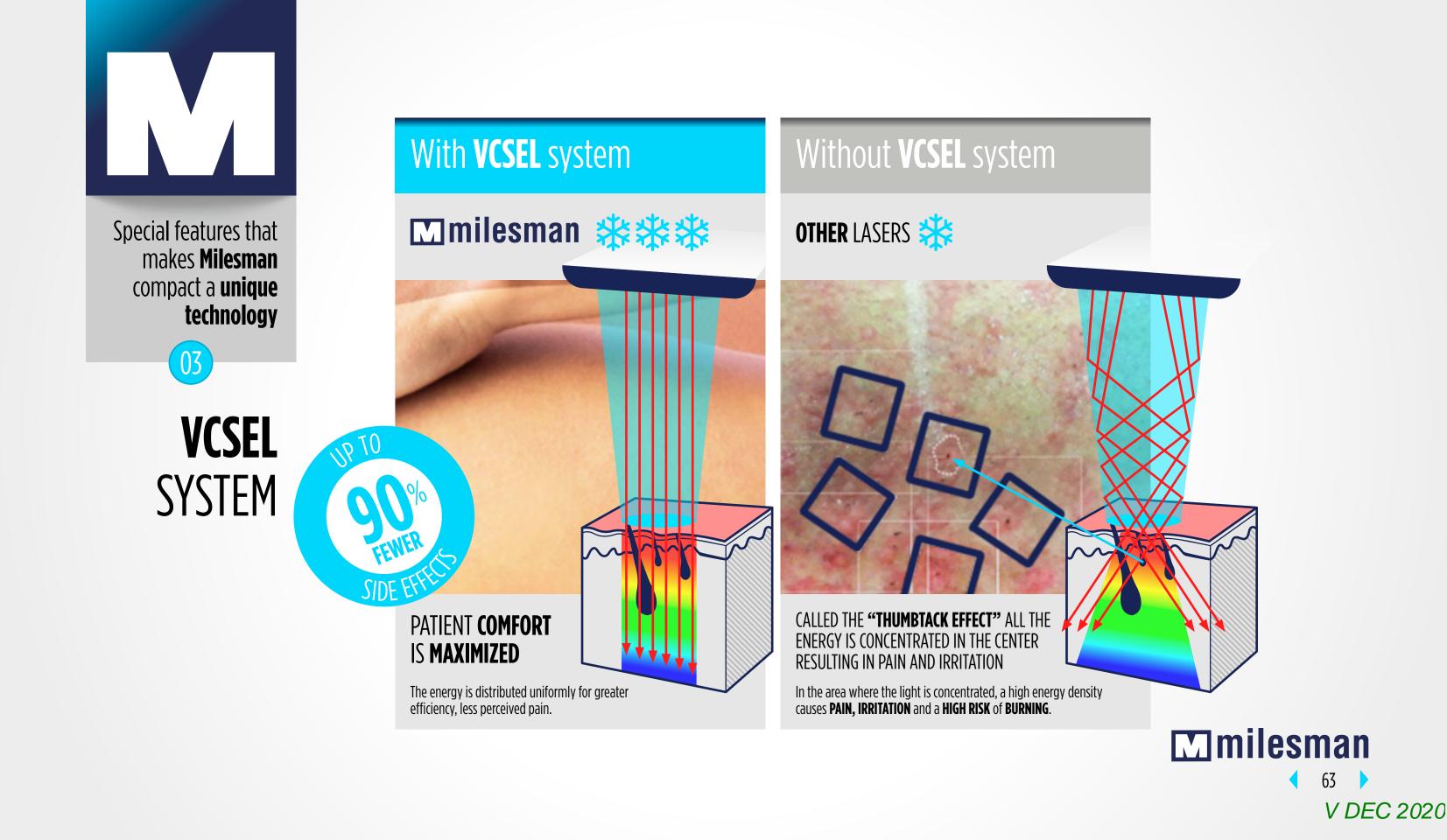


SPECIAL FEATURES THAT MAKES **MILESMAN** COMPACT **A UNIQUE**



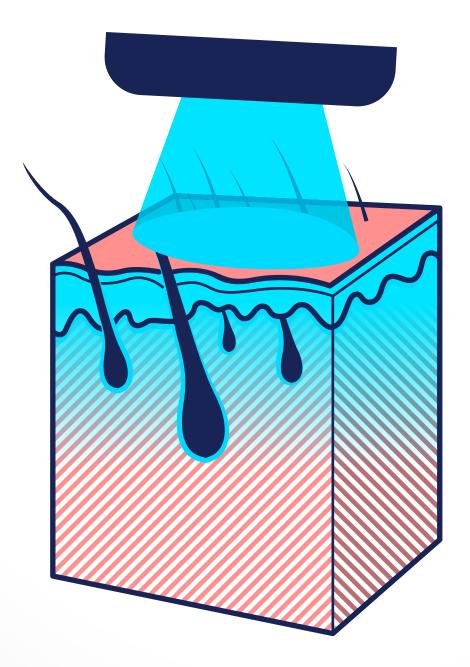


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New laser emitters capable of producing 810 nm laser light with greater efficiency.



ADVANTAGES

Avoids the necessity of a heavy, secondary chiller unit.

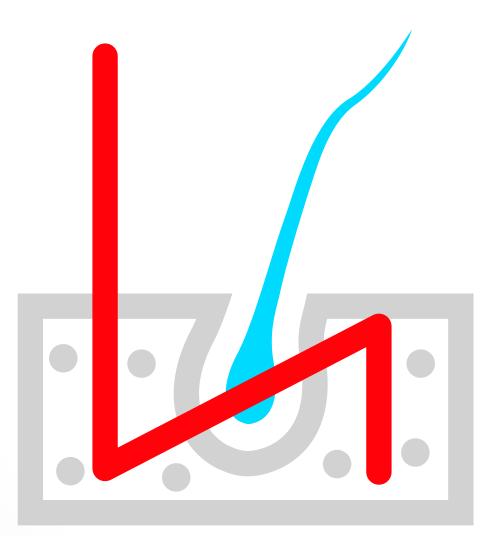
Latest generation diodes are 90% more reliable than current diode technology.

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15% of the laser light is reflected when it comes in contact with the skin. **Milesman has a unique technology for recovering this reflected light**.



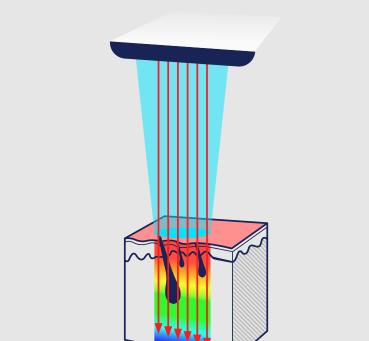
ADVANTAGES Nearly 100% of available laser energy is utilized. Produced longer lived diodes.

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Optimized distribution

of laser light. Deeper and better penetration in the skin and more homogeneous energy distribution

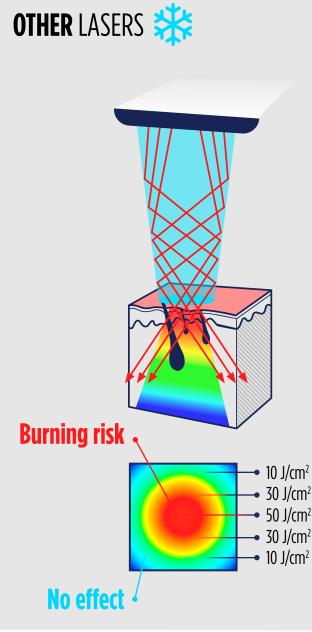


- 30 J/cm²

Same effect

all the area

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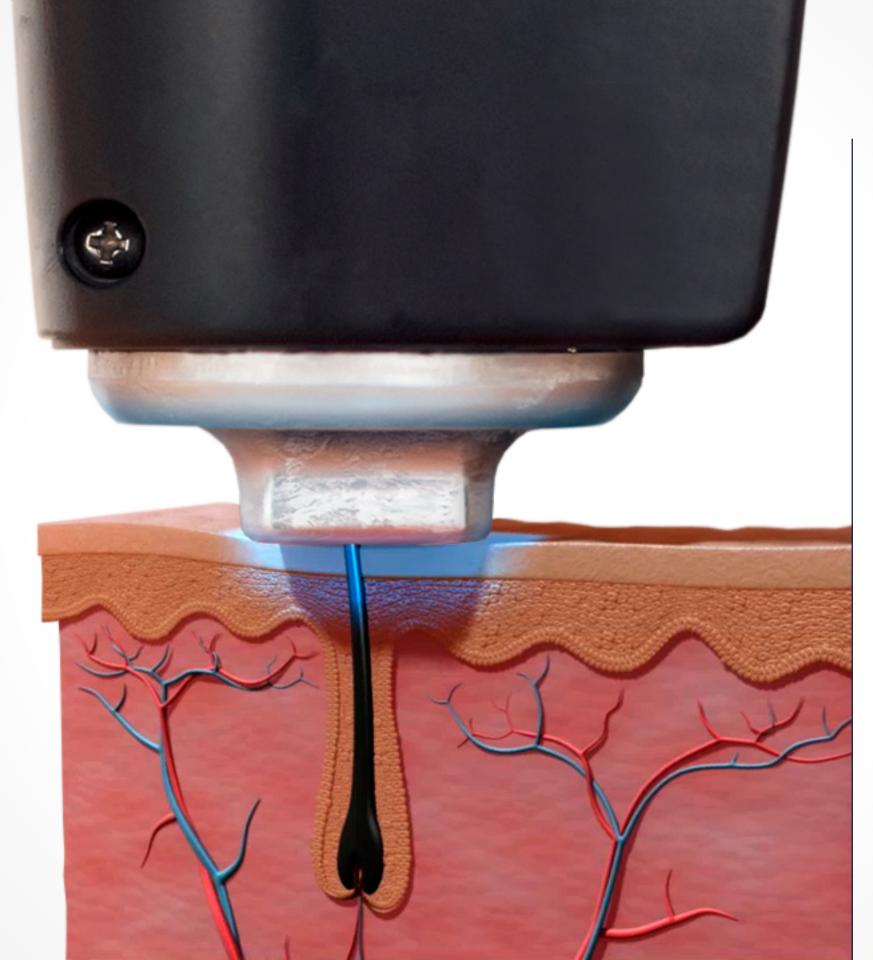
Difference between Milesman Compact and other lasers when 30 J/cm² is set on the screen.

• 30 J/cm² 50 J/cm²
 30 J/cm²

The mean is **30 J/cm²**

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New cooling system located in the handpiece tip achieves a stable low temperature.

ADVANTAGES

Virtually eliminates discomfort during treatment. Protects the skin more effectively.





HAIR Removal **Market**

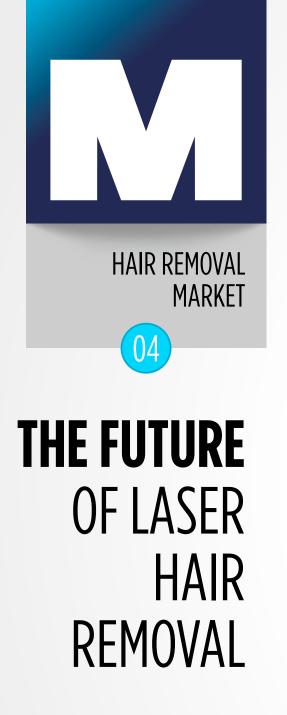




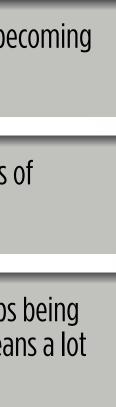


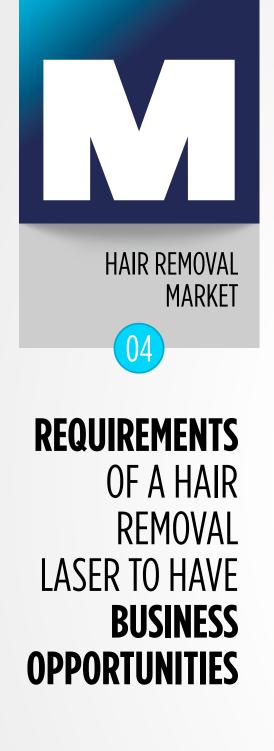




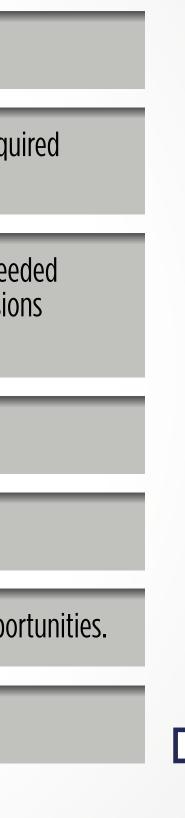


PROFITABLE	High growth due to the fact that the treatment is be more known and has cheaper prices.
STRATEGIC	Key service that must be provided to avoid the loss of patients seeking service in other centers.
MASSIVE	It becomes a known and demanded service. It stops an "elitist" treatment. Affordable prices, which mear of customers.





FAST	To do large areas in a short time.
ROBUST	Since many sessions are going to be done, it is requir that the laser does not break down, nor heat up.
POWERFUL	Since sessions are usually sold in packs (all the need sessions) it 's important to get results in few session and to get that a powerful laser us required.
NO CONSUMABLES	To not increase the costs.
PAINLESS	No patient tolerates pain.
PORTABLE	If the laser is portable there are new business opport
ALL SKIN TYPES	To treat anybody.



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MAKE LASER HAIR REMOVAL MASSIVE

WITH Milesman IT IS POSSIBLE Compact

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