

The background of the slide features a medical laser machine, possibly for dermatology or ophthalmology, with a bright light beam emanating from its arm. The entire scene is overlaid with a dark blue grid pattern. The title 'INTRODUCTION' is centered in a large, orange, sans-serif font, enclosed within a thin orange rectangular border.

INTRODUCTION

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Lasers are very special light sources.

Lasers have been around for only a few decades. The word 'laser' actually is an **[acronym]** which refers to the physical process that generates the laser **[radiation]**.

Laser radiation has **[unique properties]** which make lasers quite different from any other light source.

These properties explain why lasers have become such powerful tools in the medical and industrial fields. Many processes have only become possible since the invention of lasers.

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Lasers are very special light sources.

Lasers have been
actually is an acronym
generates the laser

Light Amplification by Stimulated Emission of Radiation

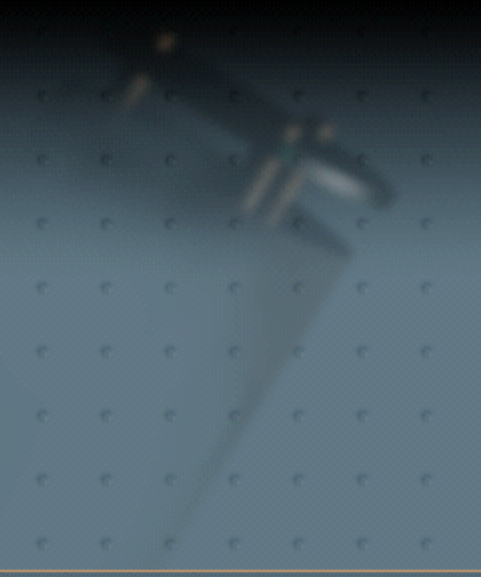
[radiation].

Laser radiation has **unique properties** which make lasers quite different from any other light source.

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Lasers are very special light sources.

Lasers have been around for only a few decades. The word 'laser' actually is an **[acronym]** which refers to the physical process that generates the laser

Laser radiation is also called laser light. In this context, both words have the same meaning.

Laser radiation has **[unique properties]** which make lasers quite different from any other light source.

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Lasers are very special light sources.

Lasers have been around for only a few decades. The word 'laser' actually is an [acronym] which refers to the physical process that generates the laser [radiation].

Laser radiation is different from any other light source.

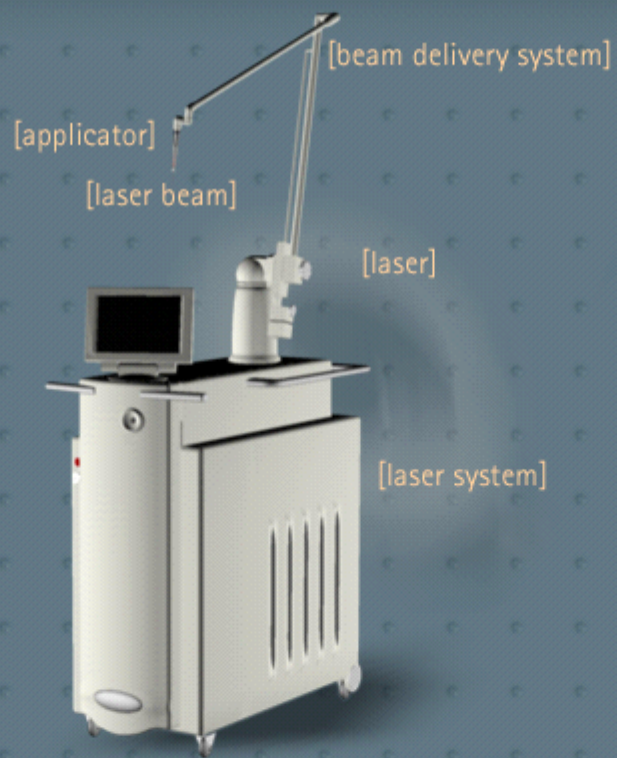
Laser light is coherent, collimated and monochromatic.

These properties explain why lasers have become such powerful tools in the medical and industrial fields. Many processes have only become possible since the invention of lasers.

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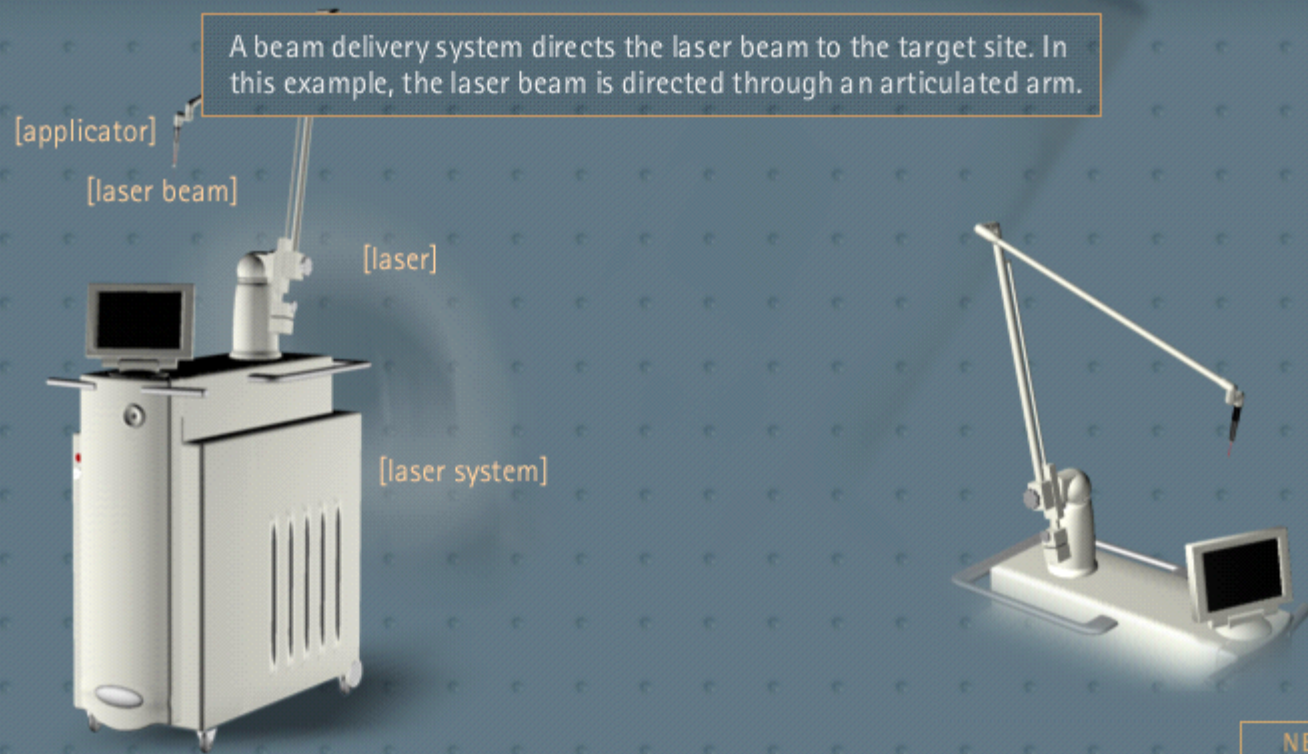
Parts of a medical laser product.



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Parts of a medical laser product.



Parts of a medical laser product.

The laser beam leaves the system through an applicator. Typical applicators include

- bare fibers
- hand pieces
- micro manipulators
- sapphire tips
- scanners
- slit lamps
- wave guides

[beam delivery system]

[laser system]

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Parts of a medical laser product.



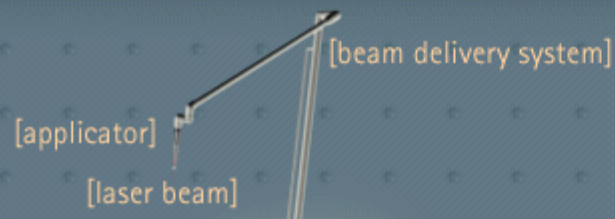
The laser system emits a laser beam.
Different lasers emit different beams.

[laser system]

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Parts of a medical laser product.



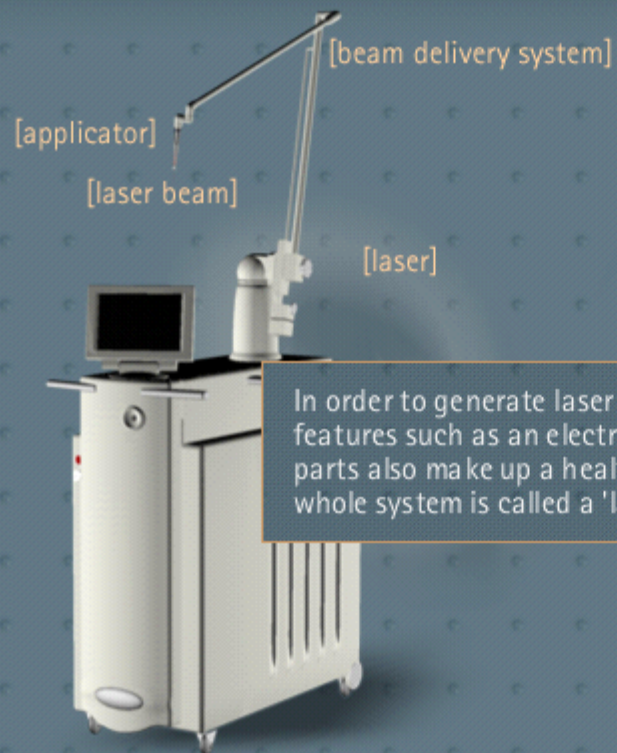
The laser is the heart of the system. This is the part where all the physical processes take place which lead to the emission of laser radiation.



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Parts of a medical laser product.

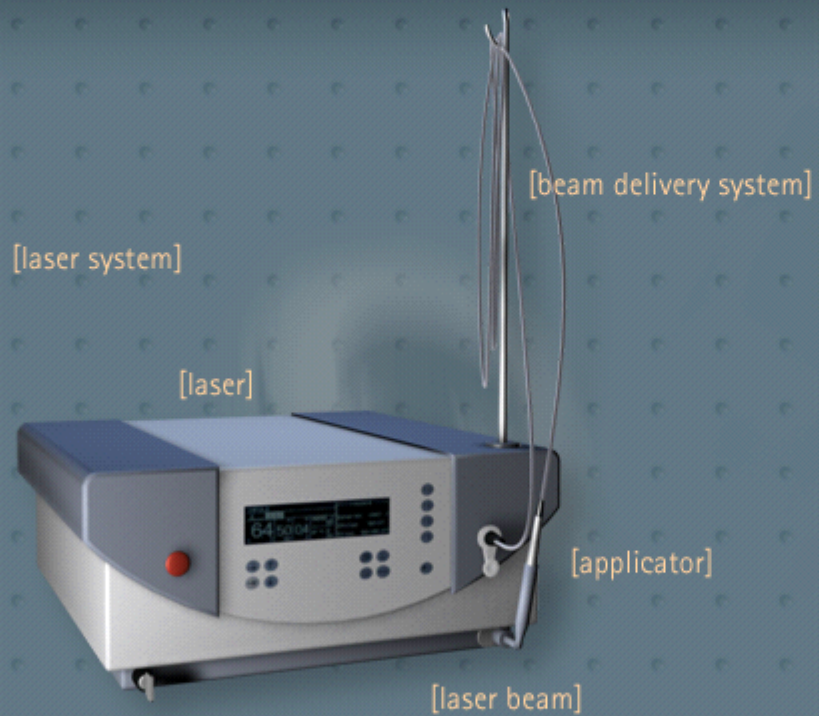


In order to generate laser radiation, a laser needs additional features such as an electric power supply or a cooling system. These parts also make up a health care laser system. In everyday terms, the whole system is called a 'laser'.

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Laser systems vary considerably in size and shape.

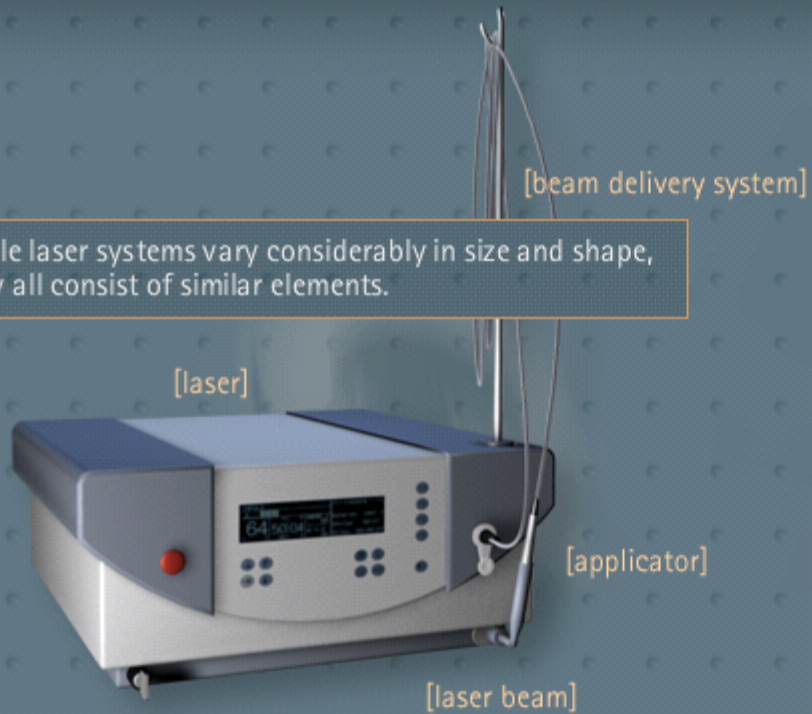


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Laser systems vary considerably in size and shape.

While laser systems vary considerably in size and shape, they all consist of similar elements.



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Laser systems vary considerably in size and shape.

[laser system]

[beam delivery system]

There are many different types of lasers. In addition, laser radiation can be generated in several different ways.

[applicator]

[laser beam]

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Laser systems vary considerably in size and shape.

Different laser types require different delivery systems. In this example, the laser beam is directed through flexible fiber optics.

[laser system]

[laser]

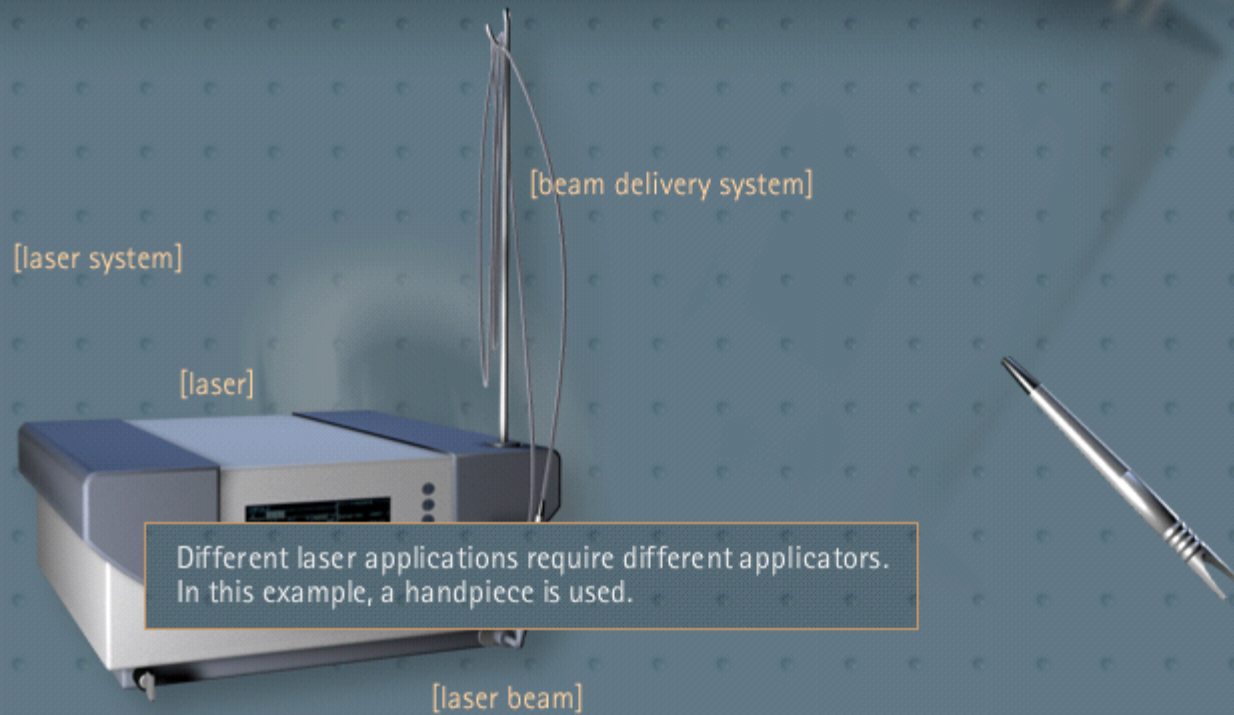
[applicator]

[laser beam]

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