

biotec italia

# Supreme

## Personalized hair removal, a booster for the skin.

Excellent results on every area of the face and body.

Unique device.

Innovative and exclusive design.

Absolutely unique treatment protocols.

Differentiate application path.



The design of the machine may slightly differ from the image, while keeping the described functions unchanged.



VIDEO TUTORIAL



youtube.com/user/biotecitalia

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# Supreme

### Technical Data

VOLTAGE SUPPLY	230 Vac 50/60 Hz
MAX POWER	2000 VA
FUSES	2 x 10A 400V
CLASS AND TYPE	I BF
DIMENSIONS	620 x 570 x 350 mm
WEIGHT	45 Kg

### Applicators

#### DIODE

LASER	DIODE 2.800W (WITH OPTION 1.200W)
WAVELENGTH	810nm - 760/808nm
CLASS	IV
FLUENCE	VARIABLE UP TO 40J/cm <sup>2</sup>
DIVERGENCE	< 45° (SHORT DISTANCE)
PULSE DURATION	< 60ms CONTINUOUS PULSE
REPETITION RATE	FROM 1 TO 10Hz
SPOT	10 x 10mm STANDARD
SKIN COOLING	DEMINERALIZED WATER WITH TEMPERATURE CONTROL < 28°C
EXPECTED LIFETIME	20.000.000 PULSES



#### CPL (CALIBRATED PULSED LIGHT)

SOURCE	LAMPADA XENON
SPECTRUM OF EMISSION	600±110nm; 695±110nm; 755±110nm; 600±950nm; 650±950nm
ENERGY	26J/cm <sup>2</sup> (MAX)
PULSE DURATION	FROM 5 TO 40ms
FREQUENCY	UP TO 3Hz
NUMBER OF PULSES	FROM 1 TO 5
AREA	50mm x 10mm (5cm <sup>2</sup> )
COOLING SYSTEM	PELTIER CELLS < 10°C
EMISSION CONTROL	50.000 PULSES



#### A SOLID COMPANY

With over 25 years of experience, Biotec Italia is a well-recognized developer and manufacturer of lasers, electronic, mechanical and pneumatic based technologies for the medical and aesthetic industry. Located in Vicenza, northern Italy, and with a branch in London, United Kingdom, Biotec Italia exports in over 50 countries worldwide and offers customers an international services and sales network.

#### FROM THE IDEA TO THE FINISHED PRODUCT

With a dedicate R&D structure, several registered patents and combining Italian competence and creativity in the design and assembly processes, Biotec Italia pushes the ongoing change that generates progress. The intellectual assets of the company are the key for innovative technologies and advanced production methods for a wide variety of medical and aesthetic applications.

#### 100% MADE IN ITALY

With innate passion for the Made in Italy's innovation and expertise, Biotec Italia keeps a close relationship with the tradition of his territory and strives to achieve unsurpassed excellence and reliability in manufacturing, supplying high quality products and services to customers and commercial partners. To reach this goal Biotec Italia assures "total customer satisfaction".

#### CERTIFICATIONS AND QUALITY STANDARDS

To certify its quality, Biotec Italia adheres to the ISO 13485 company manufacturing policy and Bureau Veritas product Safety and Quality Certification marks, which guarantees that products have met applicable safety requirements and quality standards. Customers can be assured that they are buying a safe product that has been investigated to particular safety requirements by an accredited third party and is supported by regular surveillance audits.



ISO 13485

BUREAU VERITAS Certification



biotec italia Aesthetics

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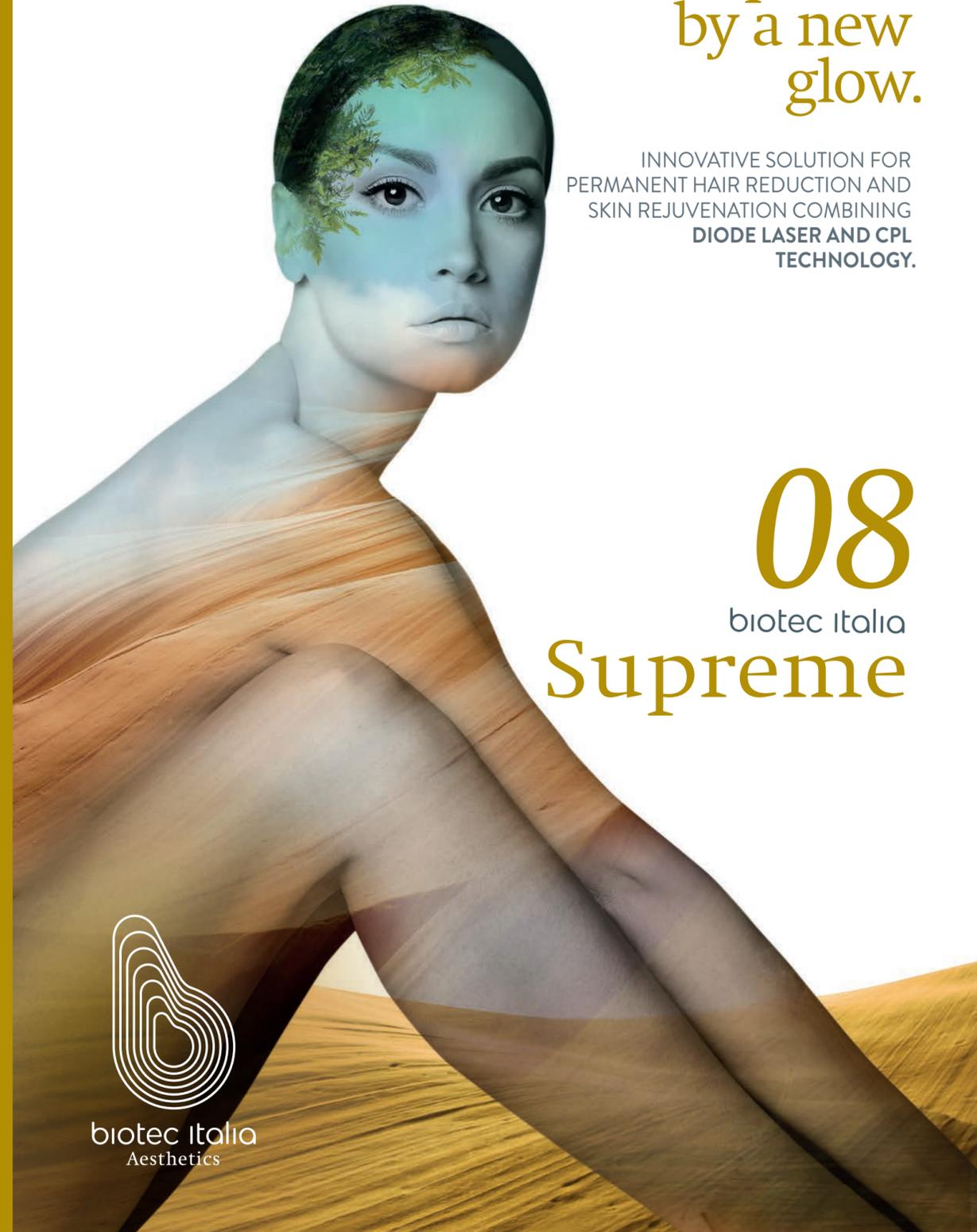
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BIOTEC ITALIA ACCREDITED DIVISIONE DI biotec italia

# Conquered by a new glow.

INNOVATIVE SOLUTION FOR PERMANENT HAIR REDUCTION AND SKIN REJUVENATION COMBINING DIODE LASER AND CPL TECHNOLOGY.



# 08

biotec italia

# Supreme



biotec italia Aesthetics

# Designed for a hair free experience and to boost skin radiance.

## A REAL SCIENCE OF ADVANCED LASER AND INTENSE PULSED LIGHT TECHNOLOGY.

Achieving optimal results means understanding that everyone skin type is different. **Supreme** is a unique hair removal and skin revitalizing platform, enabling a more precise, effective and comfortable procedure, for everyone, at each stage of the treatment.

The platform synergistically and complementarily uses LASER DIODE and CPL (Calibrated Pulsed Light) technologies to allow versatile treatments in real comfort and safety.

ICESPEED LASER DIODE is the ultimate hair removal solution for all skin types, delivering outstanding results at unmatched comfort.

The CPL technology is equipped with the highest pulse density, to deliver better results across a wider range of skin treatments.

### PCCD Precision Constant Current Driver

The Supreme system is fitted with a pulse driver which maintains precision current (Constant Current Mode) on the laser diode and on the flash lamp. It uses sophisticated electronics that provides stable current emission which produces a true square pulse, with pulse durations lasting from few microseconds to hundreds milliseconds, with constant output. The pulse produced is uniform, therefore the current density is constant, which in turn causes the spectral output to remain constant throughout the entire pulse. This uniform pulse creates a much more efficient heating process so lower frequencies can be used to achieve the same clinical result.

### MWC

High-powered xenon lamp and diode laser require reliable and precise temperature control for optimal beam quality. The Supreme water chiller maintains the fluid temperature cool, ensuring the best laser and light performance. The closed-cycle cooling system enables an optimal preservation of the diode and the xenon lamp and a safe treatment application. Other laser systems available on the market utilize basic water heat sink to achieve laser and xenon lamp cooling; such systems have proven to lead to lamp overheating and poor operational performances.

### UNIQUE TECHNOLOGICAL INNOVATIONS

Biotech Italia platforms introduce a new concept based on the latest hardware and software design. Our research and development team develops next generation hardware solutions for the high-tech and high-performance medical industries, allowing constant system update to eliminate the problem of technology obsolescence. Maximum power and performance, always guaranteed.



# Maximum comfort and satisfaction.

### SAFETY

Reliability and safety during the treatment procedure thanks to high technological standards and innovative treatment protocols.

### NO DOWNTIME

Resumption of normal daily activities immediately after the treatment.

### NO PAIN

Guaranteed comfort during treatment, thanks to handpieces ergonomics.

“ I have achieved great results, now I feel even more beautiful. ”

## ICESPEED LASER 810nm

Permanent hair reduction using cutting-edge high-power diode technology. It guarantees a rapid, non-invasive procedure, with no downtime, able to treat all skin types (I-VI), as well as tanned skin and pseudofolliculitis barbae. It utilizes an interchangeable sapphire tip that actively cools before, during and after treatment.

### Motion Speed 10.10.10

**Efficacy:** less chromophores dependent, allows delivery of laser energy more efficiently.  
**Safety:** lower fluence is required since the target is reached by the gradual building up of energy.

**Decreased Pain:** The unique Motion Speed technology at low pulse duration inhibits the transmission of pain sensation.

**Treatment Time:** with a spot size of 10x10mm, at 10 pulses per second, large areas can be treated rapidly.

### Long Pulse Mode

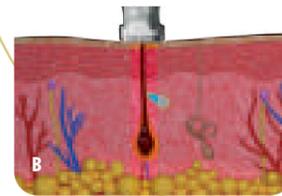
Diode technology uses high-power technology that can be operated with user-select pulse duration, delivering high fluence. This is combined with effective contact cooling and compression for high-performance even on the most difficult to treat hairs.



## Maximum protection, unparalleled results.

### OPTICS PLUG IN

The interchangeable PLUG-IN sapphire optics measure 12mm<sup>2</sup> and 23mm<sup>2</sup> and guarantee fast procedures while protecting the surface of the skin through contact cooling.

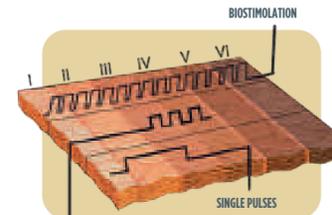


### A) MOTION SPEED

Motionspeed procedure combines simultaneous cooling with fast laser pulses increasing speed and comfort.

### B) LONG PULSE

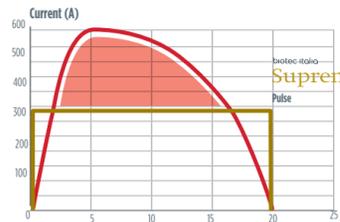
Long pulse mode rises the temperature during each pulse to treat even very deep follicles and lighter, thinner hairs.



MULTIPLE PULSES

### BIOSTIMOLAZIONE

The most effective solution for treating skin discoloration and rejuvenation through rapid pulse configurations (15 pulses per second).



\*CPL (CALIBRATED PULSED LIGHT) 600/1100nm

## CPL (CALIBRATED PULSED LIGHT)\*

The new CPL Calibrated Pulsed Light is developed according to newest scientific research results, in Intense Pulsed Light Technology. CPL technology uses broad spectrum while lasers emit a single wavelength. The CPL applicator is powered using a xenon ashlamp that produces a at spectrum of light from 400nm to 1200nm.

Different filters are used to filter out lower and higher wavelengths to effectively treat a broad spectrum of skin concerns, including photoaging skin treatments and hair removal.

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This versatility allows the operator to precisely customize the characteristics of the light energy according to individual skin type, specific condition, and location of the condition to be treated. An integral part of the CPL technology is the chill tip.

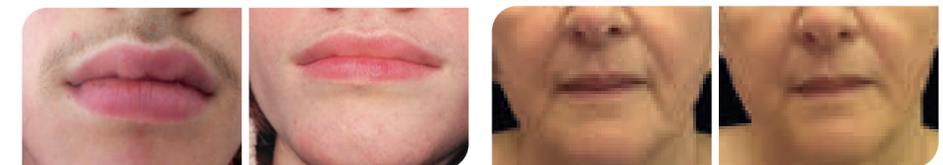
The contact cooling sapphire protects the skin by actively cooling it before, during, and after the light transmission. It also actively draws off heat from the skin surface. The chill tip also has a slight anesthetic effect which helps to minimize the discomfort during the treatment.



## It only acts where necessary while it cools the skin on the surface.

5 sapphire filters provide superior light wavelength selectivity, effectively treating a variety of skin conditions.

## Clinically tested results.



Before After 1 session Before 60 days - After 1 session

## Treatment indications.

- HAIR REMOVAL
- ACNE
- BIOSTIMOLATION
- DILATED PORES
- SKIN SPOTS