FlexSys

The medical platform that adapts to your needs

GME
German Medical Engineering

FlexSys

Modular. Great Value. Made in Germany.

Latest Technology - Made in Germany

FlexSys – the medical platform that adapts to your needs

Concept:

- Initially, customers purchase the base unit with their preferred module(s). Afterwards, they can expand their FlexSys with additional modules.
- Selection between five different laser or light modules.
- Up to three different modules can be included in one device.

Key Advantages:

- Save space and money:
  The platform can be expanded and adapted to individual requirements without the necessity of buying another base unit.
- State-of-the-art technology:
  The specifications and results of each module are at least comparable to competitive stand-alone systems.

Laser and Light Modules

FlexSys - add up to five modules to the base unit

EPL® UVB Module
308 nm

EPL® lite UVB Module
308 nm

Infrared Laser Module
1550 nm

Base Unit

Yellow Laser Module
577 nm

KTP Green Laser Module
532 nm

FlexSys - Purchasing Concept

The modular concept makes the FlexSys system highly economical. After the initial purchase you save the cost of the base unit, when acquiring additional modules.

Initial Purchase:

Base Unit + Module I

+ Yellow Laser Module

You purchase the base unit and your preferred module. The price is comparable to an equivalent stand-alone solution.

First Expansion:

Add Module II

+ Infrared Laser Module 1550 nm

Additional modules are purchased without the base unit. Prices are much lower compared to equivalent stand-alone systems.

Further Expansions:

Add Module III etc.

+ EPL® UVB Module 308 nm

You still only need to purchase the modules. Thus, the price is significantly lower than a comparable stand-alone system.

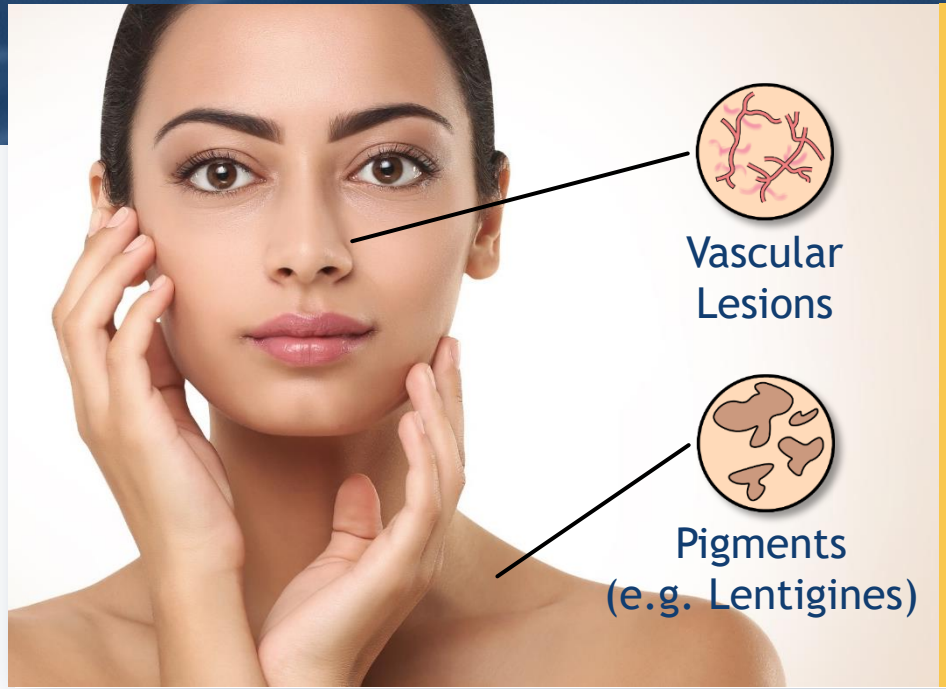
Indications

Many medical needs can be addressed

Scars & Striae	Infrared Module
Pigments	Yellow Module Green Module
Vitiligo & Psoriasis	UVB Modules
Wrinkles	Infrared Module
Vascular Lesions	Yellow Module Green Module

Yellow Laser module 577 nm

Gold standard wavelength – suitable for all skin types including dark skin types



Indications

- Rosacea
- Teleangiectasia
- Couperose
- Spider naevi
- Hemangioma
- Nevus flammeus (port-wine stain)
- Red spider veins
- Removal of benign pigmented lesions
- Removal of skin changes

Yellow Laser 577 nm

Powerful 5 W laser with handpiece and/or scanner

Facts & Features:

- HOPSL (high-power optically pumped semiconductor laser) with 5 W output.
- Spot size: 0.7 and 1.0 mm
- Optional scanner for fast and homogenous treatments of larger areas (up to 1 cm^2).
- The scanner can also be used for single shots.

Base Unit

+ Yellow Laser Module 577 nm

FlexSys 577 nm | Post acne erythema

Settings: 18 J/cm^2, 80 % density, single session

Courtesy Dr Swapnil Shah, India

FlexSys 577 nm | Erythromelanosis follicularis

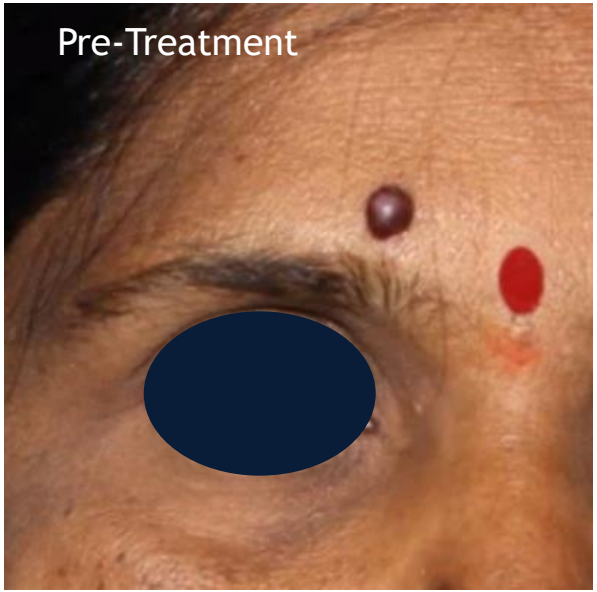
Settings: 20 mJ/cm², 20 ms, 80 % coverage

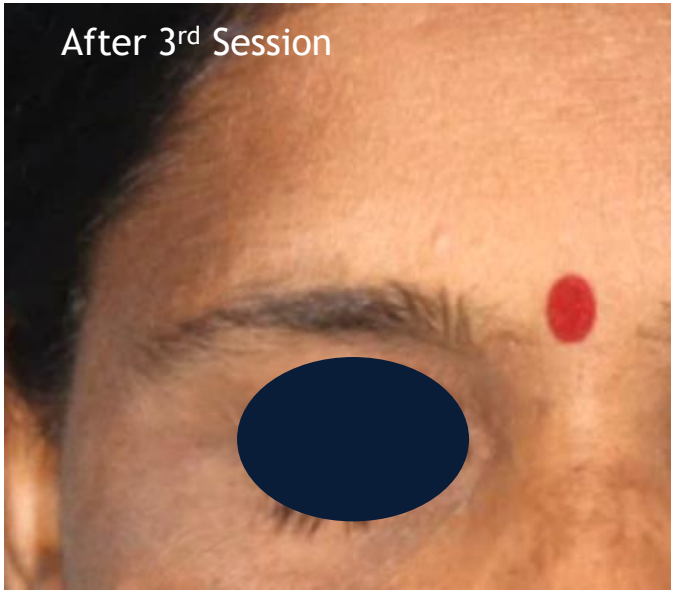
Courtesy Dr Swapnil Shah, India

FlexSys 577 nm | Granuloma Pyogenicum

Settings: 30 J/cm², 1 pass all along the lesion, 3 sessions once in 3 weeks

Courtesy Dr Swapnil Shah, India





FlexSys 577 nm | Dermatosis Papulosa Nigra

Settings: 24 J/cm², Single session

Courtesy Dr Swapnil Shah, India

FlexSys versus QuadroStarPRO YELLOW and Quanta 585

Comparison

GME - FlexSys with 577 nm module

Asclepion - QuadroStarPRO YELLOW

Quanta 585

FlexSys versus QuadroStarPRO YELLOW and Quanta 585

Comparison technical specifications

	FlexSys	QuadroStarPRO Yellow	Quanta 585
Wavelength	577 nm	577 nm	Quanta markets 585 nm, but states 580 nm ± 6 nm, we measured one device: 577 nm
Power	5 Watt	5 Watt	5 Watt
Spot size handpiece	1 mm	1 mm	0.5; 1.0; 1.5 and 3 mm
Treatment area scanner	10 mm x 10 mm	15 mm x 15 mm	18 mm x 18 mm
Spot size scanner	0.7 mm	1 mm	1 mm
Skin cooling (scanner)	Air (optional)	Contact (integrated)	Air (optional)

FlexSys versus QuadroStarPRO YELLOW and Quanta 585

Comparison features and usability

Advantages of FlexSys

- Light source of all 3 lasers is similar but FlexSys has a superior scanner
- No need to change between scanner and handpiece
  - → FlexSys scanner has a single shot mode for precise treatments
  - → Switching between scanning and single shot mode by pressing a button on the scanner
- Smaller spot size of scanner for shorter pulses
  - → Sensitive skin requires short pulses
  - → 0.7 mm allows half the pulse duration compared to 1.0 mm
- Air cooling is better than contact cooling
  - → No pressure on vessels = blood is not squeezed out
  - → No refection of light by glass plate = 100 % of laser energy reaching the skin

FlexSys versus QuadroStarPRO YELLOW and Quanta 585

Comparison of scanners

GME - FlexSys with 577 nm module

Asclepion - QuadroStarPRO YELLOW

Quanta 585

Cooling for FlexSys

Combination of FlexSys and Zimmer Cryo 7 / Cryo mini

1550 nm Laser for Wrinkles, Scars & Striae

Non-ablative fractional treatment: collagen formation without significant downtime

Indications

- Skin Resurfacing
- Lentigines (age spots)
- Lentigines solares
- Actinic keratosis
- Melasma
- Periorbital wrinkles
- Wrinkles
- Acne scars
- Surgical scars

Fractional 1550 nm Laser

Non-ablative fractional laser with scanner

Infrared Laser Module
1550 nm

Base Unit

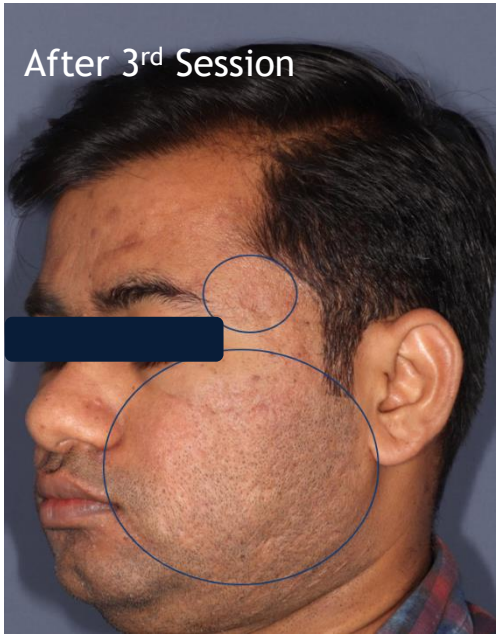
Facts & Features:

- Power: up to 100 mJ per shot in less than 10 ms
- A state-of-the-art scanner enables you to choose the optimal shape, size and density for each treatment.

FlexSys 1550 nm | Dermatosis Papulosa Nigra + Scars

Settings: 80 / 70 / 60 mJ, 10 % / 8 % / 10 % Coverage, 3 sessions

Courtesy Dr Swapnil Shah, India



FlexSys 1550 nm | Acne Scars

Settings: 70 mJ, 10 % Coverage, 3 sessions

Courtesy Dr Swapnil Shah, India

FlexSys 1550 nm | **Erythematous Scars**

Settings: 70 mJ, 8 % Coverage, 3 sessions

Courtesy Dr Swapnil Shah, India

FlexSys 1550 nm | **Acne Scars**

Settings: 70 mJ, 10 % Coverage, 3 Passes, 3 Sessions

Courtesy Dr Swapnil Shah, India

FlexSys 1550 nm | Acne and Scars

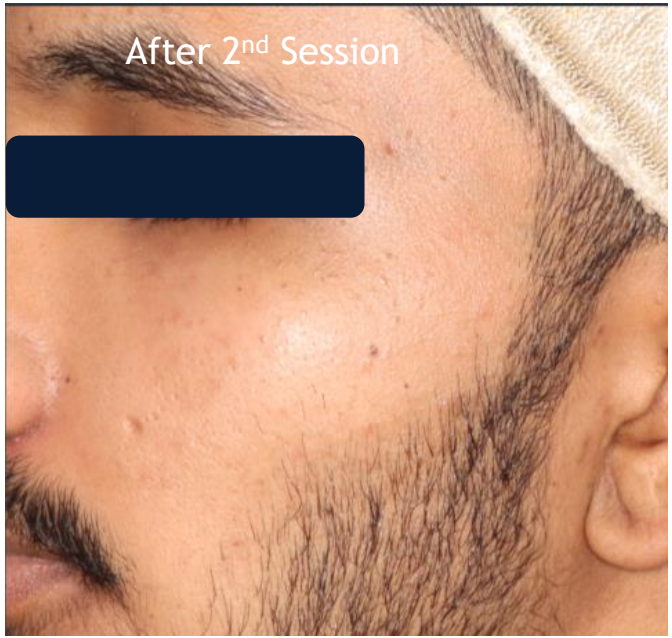
Settings: 60 mJ, 10 % Coverage, 3 Passes, 3 Sessions

Courtesy Dr Swapnil Shah, India

FlexSys 1550 nm | Chicken Pox Scars

Settings: 1ST pass only on the lesions; 3 passes over the entire area, 2 Sessions

Courtesy Dr Swapnil Shah, India



FlexSys 1550 nm | **Keloid**

Settings: 3 Sessions by rotating the handpiece, 70 mJ, 10 % Coverage

Courtesy Dr Swapnil Shah, India

FlexSys versus Icon / ResurFX / Re.pair

Comparison

GME - FlexSys with 1550 nm module

Cynosure - Icon

Lumenis - ResurFX

Solta Medical – Fraxel Re:store

FlexSys versus Icon / ResurFX / Re.pair

Comparison technical specifications

	FlexSys	Icon	ResurFX	Re:store
Wavelength	1550 nm	1540 nm	1565 nm	1550 nm
Power	15 Watt	15 Watt	15 Watt	30 Watt
Technology	Scanner	Microlens	Scanner	Handpiece with roller tip
Spot size(s)	now: 0.35 mm future: 0.25 mm	0.25 mm and 0.13 mm	0.25 mm	0.14 mm
Max. energy per pulse	100 mJ	70 mJ	70 mJ	70 mJ
Pulse duration for 70 mJ	6 ms	15 ms	6 ms	3 ms
Cooling	Air cooling	No cooling	Contact cooling	Air cooling

FlexSys versus Icon / ResurFX / Re.pair

Comparison features and usability

Comparison to ResurFX by Lumenis:

- Very similar specs. Only difference is method of cooling
- ResurFX is much more expensive

Comparison to ICON by Cynosure:

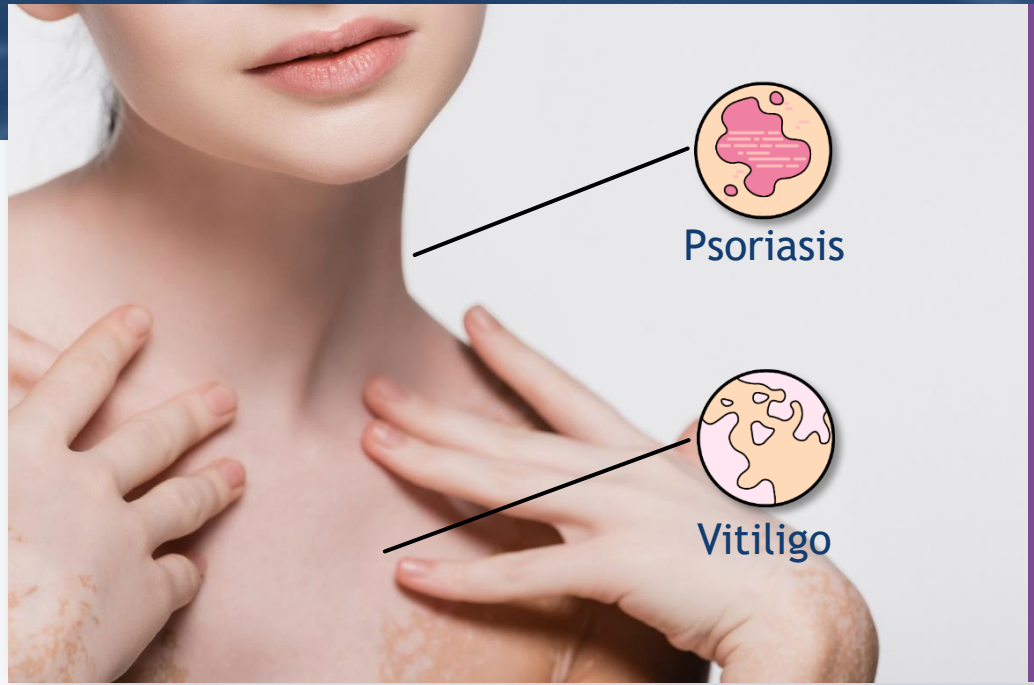
- Icon uses micro-lenses: density is fixed and laser energy split into many individual pulses => density has to be achieved by overlapping and multiple passes
- ICON platform is very expensive

Comparison to Re:store by Solta:

- Re:store has smaller spots and shorter pulse durations. Unclear if this is of clinical advantage

EPL® UVB module 308 nm

Targeted phototherapy with monochromatic EPL® Excimer Pulsed Light



Indications

- Vitiligo
- Psoriasis
- Alopecia areata
- Atopic dermatitis
- Mycosis fungoides
- Lichen planus

EPL® - Excimer Pulsed Light

Monochromatic excimer lamp

EPL® UVB Module
308 nm

Base Unit

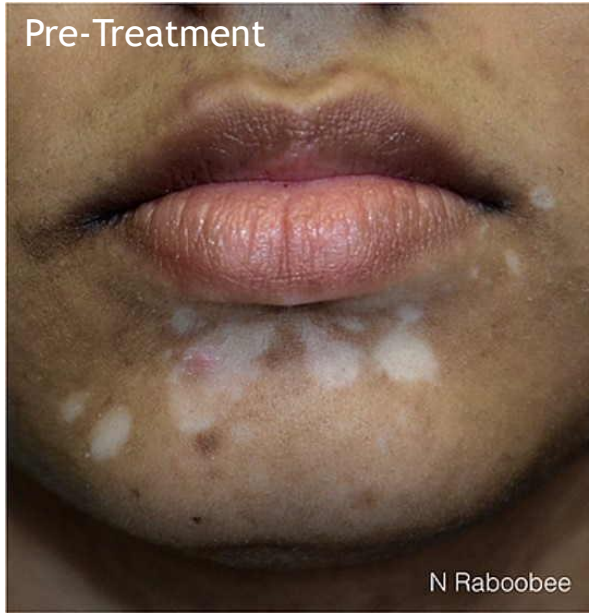
Facts & Features:

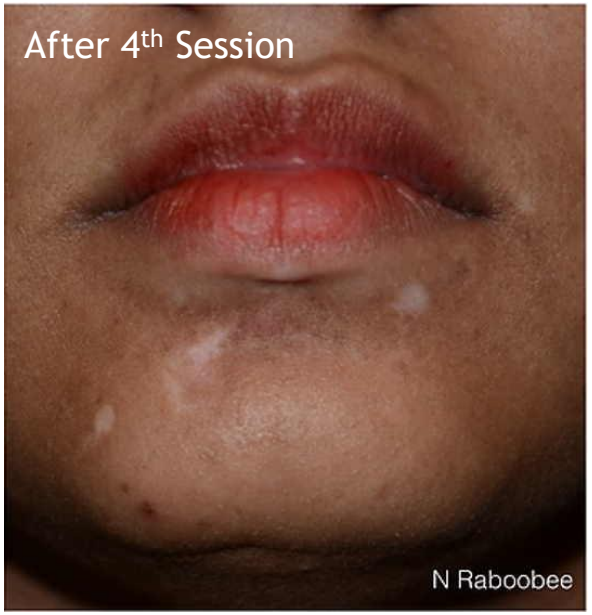
- Monochromatic 308 nm light generated by excimer lamp.
- Spot size: 17.5 cm^2
- Adaptable to treatment areas of different sizes by interchangeable fused silica rods.
- Power density: up to 100 mW/cm^2

FlexSys 308 nm| Vitiligo

Settings: Dose: 200 – 250 mJ/cm²

Courtesy Dr N Raboobee FFDerm (SA)





FlexSys 308 nm | Psoriasis

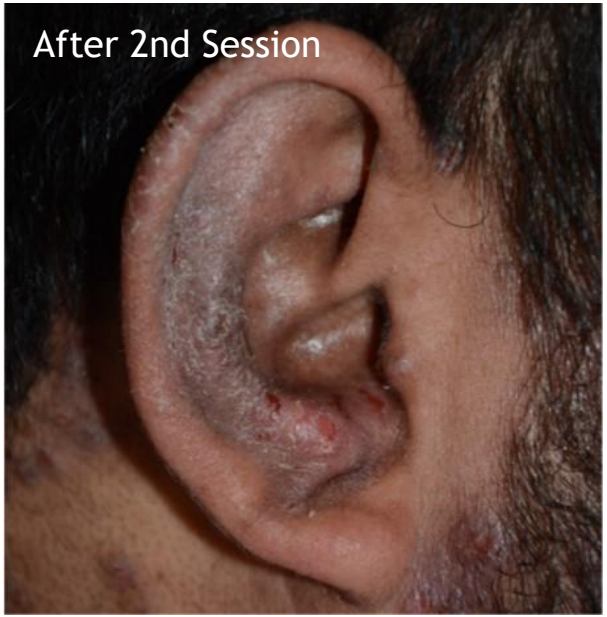
Settings: Dose: 600 – 900 mJ/cm²

Courtesy Dr N Raboobee FFDerm (SA)

FlexSys 308 nm | Atopic Dermatitis

Settings: Dose: 300 – 400 mJ/cm²

Courtesy Dr N Raboobee FFDerm (SA)



FlexSys 308 nm | Alopecia Areata

Settings: Dose: 200 – 600 mJ/cm²

Courtesy Dr N Raboobee FFDerm (SA)

Pre-Treatment

After 17th Session

FlexSys EPL versus Exciplex / 308 Excimer / KN-5000D

Comparison

GME – FlexSys with 308 nm module

Clarteis - Exciplex

Alma - 308 Excimer

Kernel - KN-5000D

FlexSys EPL versus Exciplex / 308 Excimer / KN-5000D

Comparison technical specifications

	FlexSys	Exciplex	308 Excimer	KN-5000D
Wavelength	308 nm	308 nm	308 nm	308 nm/311 nm
Power density	100 mW/cm²	100 mW/cm²	50 mW/cm²	50 mW/cm²
Max. treatment area	17.5 cm²	25 cm²	16 cm²	20 cm²
Time typical psoriasis dose (750 mJ/cm²)	7 sec	7 sec	15 sec	15 sec
Time for typical vitiligo dose (300 mJ/cm²)	3 sec	3 sec	6 sec	6 sec

FlexSys EPL versus Exciplex / 308 Excimer / KN-5000D

Comparison features and usability

Advantages of FlexSys

- Fused silica adapter for precise treatments with good visibility
- Large touch screen (of base unit) = customer friendly interface
- 100 mW/cm^2 for fast treatments (only Exciplex is similar)
- Handpiece is the most ergonomic one
- Option for intra-oral treatments
- Possibility to combine excimer lamp with laser modules in one platform

EPL® lite - Excimer Pulsed Light

EPL® lite 308 applicator: state-of-the art LED technology for occasional UVB treatments

EPL® lite UVB Module
308 nm

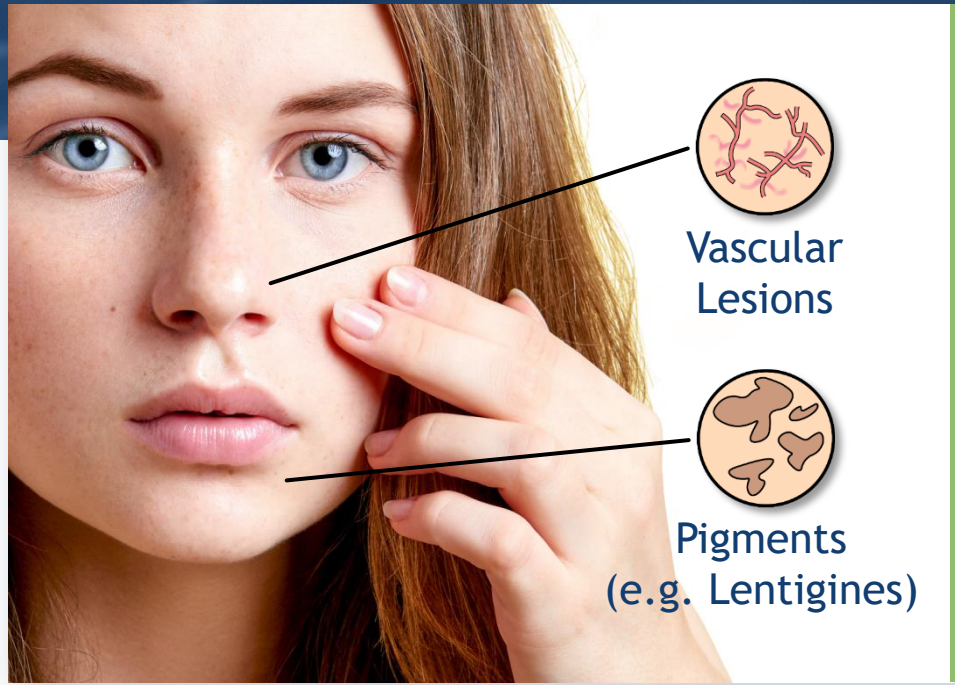
Base Unit

Facts & Features:

- Narrowband UVB light generated by LED.
- Spot size: 2.5 cm^2
- Power density:
  up to 50 mW/cm^2
- Fixed fused silica rod for precise treatment.
- Easy to use, economic, and very durable.

Green Laser: Vascular Lesions & Pigments

Wide range of applications with established technology - suitable for light skin types



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- Hemangioma
- Nevus flammeus (port-wine stain)
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- Removal of benign pigmented lesions
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“KTP“ Green Laser 532 nm

Powerful 8 W laser with handpiece and/or scanner

Facts & Features:

- HOPSL (high-power optically pumped semiconductor laser) with 8 W output.
- Spot size: 1 mm
- Optional scanner for fast and homogenous treatments of larger areas (up to 1 cm^2).
- The scanner can also be used for single shots.

Base Unit

\+ KTP Green Laser Module 532 nm

Advantages

Unique Selling Points

Advantages of FlexSys

Versatility:	Wide range of treatment options for medical indications with 4 different wavelengths and 5 different modules.
Clinical effectiveness:	FlexSys modules are at least as effective as comparable stand-alone devices.
Cost efficiency:	The price of a FlexSys base unit with the first module is similar to a comparable stand-alone devices. Each additional modules is significantly less expensive.
Compact Design:	Small footprint for a wide range of treatment options.
Transportability:	The device can be used in multiple locations.
Made in Germany:	GME's high manufacturing standards guarantee excellent quality.

THANK YOU

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