



PRODUCTS & SERVICES

# tixel®

FRACTIONAL INNOVATION FOR SKIN REJUVENATION AND NON-SURGICAL BLEPHAROPLASTY WITH 'PURE NATURAL HEAT'

THE PROCEDURE IS COMFORTABLE FOR THE PATIENT, WITH NO DOWNTIME, MINIMAL PAIN AND IS SUITABLE FOR ALL SKIN TYPES.

The delicate skin on the face, neck and hands is very unforgiving. Tixel is a new skin rejuvenation device, which uses direct natural heat to reduce wrinkles, fine lines and scars and assist with anti-ageing – delivering results similar to more expensive fractional lasers. Tixel is not a laser or an RF device.

Manufactured by industry leader Novoxel, Tixel is a novel thermal fractional skin rejuvenation system that can treat delicate skin, including the peri-orbital area, eye lids, neck, chest and back of the hands and tighten skin around the neck. It is particularly effective for the eye area and can be applied without the need for intraocular shields, for a non-surgical blepharoplasty.

The procedure is comfortable for the patient, with no downtime, minimal pain and is suitable for all skin types. Tixel can be used in two fundamentally different ways, in Open Channels or with Medium-High settings.

**Open Channels** – Low energy and no downtime. Everybody wants no downtime, and excellent results are achieved even in one treatment. This is because with low energy we are creating open channels, enabling any meso products to penetrate deep into the skin, synergistically combining the heat

## Key benefits

- Excellent results
- Satisfied patients: minimal pain, no downtime, safe
- Fast treatment time
- Suitable for all skin types
- Versatile, user-friendly device
- Low operating costs & no consumables
- High ROI

from the titanium tip, with sterile meso grade products, causing collagen remodelling.

### Medium to High Energy

– Depending on the length of downtime, this setting can create even better results and they are almost comparable to those with CO<sub>2</sub> laser. For the first time, patients can specify the downtime they want, and gain the best possible clinical result.

Open channels are created by gentle water vaporisation, without damaging the cellular structure of the skin, as seen with RF, laser and needles. The skin remains intact, and dehydrated columns of skin – open channels – will absorb any sterile meso products. Clinical studies and histologies show that

## Treatment applications

- Wrinkles and fine lines
- Frown lines
- Crow's feet
- Acne Scars
- Nasal labial folds
- Lip lines
- Creased chin
- Neck folds
- Forehead lines
- Eyelid lines
- Skin discoloration
- Sun damaged skin
- Skin tone and texture
- Age spots

the open channels stay open for up to 6 hours, enabling doctors and patients to continue applying chosen products.

No downtime, or minimal downtime of 2-3 hours, with significant results is achieved with minimal thermal energy, in combination with appropriate sterile, meso products, that will stimulate strong skin rejuvenation.

If patients can afford downtime of 1-2 or more days, they will get CO<sub>2</sub> like results, but with much less trauma to the skin.

15-30 minute sessions optimise treatment times for both clinic and patient, making it cost effective. The device is user friendly as it is lightweight, portable, and highly versatile. It has no consumables and a high ROI, making it an excellent addition to any practice. In addition, Tixel is very delegable because it is not a laser, so there is no need for a laser license that is usually required in some states. Results are extremely predictable and reproducible because of the precise way the energy is delivered, due to very accurate parameter selection.



## Technical specifications

|   |  |
|---|--|
| Energy Type                                 | Natural heat, w/o radiation or radio waves |
| Tip Material                                | Titanium surface                           |
| Tip Coverage Area                           | 1 cm <sup>2</sup>                          |
| System Weight                               | 5 kg                                       |
| Handpiece Weight                            | 330 grams                                  |
| System Dimensions                           | L 48 x W 41 x H 48 (cm)                    |
| Operating Voltage                           | 100-240 VAC 10% ± 2.5A 50/60Hz             |
| Operating Power                             | up to 300 W                                |
| Working Temperature                         | 400° C (-15°C/+5°C)                        |
| Pulse Duration                              | 5-18 milliseconds (±1 millisecond)         |
| *Double pulse is enabled between 8 to 12 ms | (possible durations: 5,6,8,10,12,14,16,18) |
| Pulse Protrusion                            | 100-1000 µm, intervals of 100 µm           |
| Micropore Dimensions                        | from 100 x 100 µm to 300 x 300 µm (W x D)  |

## The process

The Tixel device employs a bio-compatible heated tip, containing 81 pyramids made of titanium, to cover a treatment area of 1cm<sup>2</sup> area. The temperature of the pyramids is 400°C, similar to the temperature generated by a CO<sub>2</sub> laser in contact with the skin. When the Tixel hand-piece is pressed briefly onto the skin, thermal energy stored in the pyramids is transferred to the upper layers of skin, producing micron sized pores. The amount of energy transfer is controlled by the tip's contact time with the skin and the tip's thermal conductivity. A range of clinical effects can be achieved through making adjustments to these properties. The tip is remarkably durable, and it is always sterile and clean due to its continuous self-sterilising ability (400 degrees of

heat creates sterility). Compared to fractional lasers, Tixel is safer with less charring and crusting, less pain without anaesthesia or cooling, less downtime, and no radiation, as it uses simply pure, natural heat.

## Excellent clinical results

Treatment sessions may be spaced 1-2 months apart and range from 1-4 sessions, depending on the area treated. After treatment, the skin will be red for 2-4 hours and patients may feel a burning sensation for 2-3 hours, but there is no downtime. Crusts appear the following day but disappear after three days. Improvement is visible after 1-2 months, with the patient experiencing rejuvenated, healthier skin. The clinical experience is showing that Tixel is producing optimal results with satisfied patients. **AMP**

**PRODUCTS & SERVICES**

**Testimonials**

'The technology lends itself to an extremely broad range of possible treatment conditions. From non-ablative fractionated rejuvenation all the way to CO2-like, ablative responses. I have not seen such range from a single device and am extremely excited to explore the possibilities.'

**- Dr Eric Bernstein,**  
Pennsylvania, USA.

'I can treat very close to eyes, eye lids, also above the eye balls. My patients experience low pain even without topical anaesthesia. Treatments are quick and have no side effects. I see improvement in my patients after two months and two sessions. I see improvement in skin texture, a younger look, better definition of eye lids, improvement in lines and texture of the neck. I usually see wrinkle reduction after three months of treatment.'

**- Dr Amy Patdu,**  
Manila, Philippines

'I find that my acne scar patients experience no down time and low pain even without topical anaesthesia and see no bleeding like other fractional devices. My patients experience quick healing with no side effects. Acne scars are smoother and are less visible after 1-2 months. Overall my patients have smoother healthier skin.'

**- Dr Rasya Dixit,**  
Bangalore, India



**BEFORE**



**AFTER 3 treatments**

*Courtesy Mark Joris, Belgium*



**BEFORE**



**AFTER 4 treatments**



**BEFORE**



**AFTER 3 treatments**

*Dr Artzi Ofir, Tel Aviv, Israel*



**BEFORE**



**AFTER 2 treatments**

*Courtesy Dr John Rakesh, Madurai, India*

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