



**shrill™**

**INSTRUMENT KIT**



**raybow®**



**META®**  
ADVANCED MEDICAL TECHNOLOGY



**ITL DENTAL**



**SURGISPON™**



**NOVABONE®**



**Edge Healthcare Pvt Ltd**

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shrill™ instruments are produced with high quality stainless steel and are thoroughly checked and inspected during all phases of production, in order to ensure that they correspond to the international standards. High quality instruments result only from the best materials and steel. Stringent materials and production controls secure the high level of quality of our products.

shrill™ instruments are highly appreciated by professionals due to corrosion resistance, hardness, safety against fracture, mechanical load, thermal stress, workability and mechanibility.



## IMPLANT KIT

- Cassette (15 instrument )
- Periosteal
- Scalpel Handle
- Suture Scissors
- Tissue Forceps
- Syringe, Aspirating
- Ridge Mapping (Bone) Instrument
- Retractor, Cheek
- Needle Holder
- Periotome
- Curette, Surgical
- Scissors, Tissue
- Bone Condenser
- Bone Harvester/Scraper
- Tissue Punch
- Probe, Periodontal
- Elevator, Luxating
- Retractor, Tongue



## EXTRACTION KIT

- Cassette (15 instrument)
- Mirror/Handle
- Scalpel Handle
- Periosteal
- Root Tip Elevators
- Curette, Surgical
- File, Bone
- Cotton/Dressing Pliers
- Syringe, Irrigation
- Retractor, Cheek
- Needle Holder
- Hemostat
- Scissors
- Rongeurs
- Tissue Pliers
- Elevators
- Forceps, Extraction



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## IMPLANT SINUS LIFT KIT

- Cassette (15 instrument )
- Suture Scissors (curved)
- Retractor, Cheek
- Scissors, Tissue (double-curved)
- Bone Mill (hand held)
- Tissue Forceps (straight)
- Syringe, Aspirating
- Retractor
- Needle Holder
- Periosteal
- Curette, Sinus Lift
- Bone Condenser
- Scalpel Handle
- Bone Harvester/Scraper



## IMPLANT OSTEOTOME KIT

- Cassette (15 instrument )
- Scissors,
- Needle Holder
- Scissors, Suture
- Syringe, Aspirating
- Periotome
- Mallet
- Retractor, Cheek
- Tissue Forceps
- Scalpel Handle (round)
- Rongeur
- Periosteal
- Osteotome 2.3mm straight convex
- Osteotome 2.6mm straight convex
- Osteotome 2.9mm straight convex
- Osteotome 3.2mm straight convex
- Osteotome 3.1mm offset concave
- Osteotome 3.8mm offset concave
- Osteotome 4.5mm offset concave



## DIAGNOSTIC KITS



### Exam Kit

- Cassette (5 instrument)
- Mirror/Handle
- Explorers
- Probe
- Cotton/Dressing Pliers

### Perio Exam. Kit

- Cassette (5 instrument)
- Mirror/Handle
- Explorers
- Probes
- Cotton/Dressing Pliers



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• Button to prevent accidental opening during use or at device disposal

**Autologous regenerative therapy**



Close-up view of a bone shaver being used.



The shaver of the handle and motor is connected by the drive shaft.



The built-in spring of the shaver allows for better device stability.



The graft positioned in the window for better course.



Harvesting at 1 month after surgery.



The graft integration with 3 months is shown for region placement.

Clinical case courtesy of Dr. P. D'Amico

**What is it?**

Safescraper<sup>®</sup> TWIST, the new version of Safescraper<sup>®</sup>, the most popular manual bone harvesting device worldwide

**What is it for?**

Safescraper<sup>®</sup> TWIST provides an easy method to obtain ideal autologous cortical bone for grafts in any type of defects with a minimally invasive technique

**When to use it?**

Easy to use, Safescraper<sup>®</sup> TWIST makes autologous bone always available in any condition, both for small and large harvests

**How it works?**

The exclusive cutting performance of the blade allows cortical shavings to be collected, while preserving maximum cell vitality, which is essential for graft integration. The bone collected is already combined with blood and ready to be positioned in the defect, or it can be temporary maintained in aseptic conditions in the transparent chamber

**Properties of the cortical graft**



**HIGH CELLS VITALITY**

The manual harvesting technique preserves the cellular component of the graft. The cortical shavings TWIST obtained by the Safescraper<sup>®</sup> blade contain living and well-preserved bone cells, particularly osteocytes (mean vitality: 45-72%), but also osteoblasts, osteoclasts and osteoprogenitor cells



**IDEAL MORPHOLOGY**

The mean size of the cortical shavings collected makes grafting similar to a bone transplant procedure. The cortical bone obtained with Safescraper<sup>®</sup> TWIST looks like a elongated and convoluted shaving of a mean length of 1.3 mm and thickness ranging between 150 and 250µm



**BIOLOGICAL PLASTICITY**

The tissue obtained with Safescraper<sup>®</sup> TWIST is collected and maintained in the sealed chamber in sterile conditions. A few minutes after collection, the graft takes on a high biological plasticity due to the presence of coagulated blood



**BONE TRANSPLANT**

The cortical shavings obtained with Safescraper<sup>®</sup> TWIST are recognised as a vital bone multi-transplant, the graft integrates into the surrounding tissue and takes part in the physiological remodeling process. At 9 months from grafting, a considerable new bone formation by apposition is visible and vital cells are still found in the grafted cortical portion



**VOLUME EFFECT**

The volume increase obtained with the typical curled shape of the shavings harvested with Safescraper<sup>®</sup> TWIST reduces the amount of bone necessary to fill the defect, and consequently reduces invasiveness for the patient. A graft of approximately 0.3 CC. of cortical shaving is sufficient to treat a defect that would require about 1 CC of bone obtained with other harvesting techniques or bone substitute

**Advantages of the disposable semicircular blade**

- Maximum cutting efficiency
- Accelerates the harvesting time
- 160 cutting area range
- Collects cortical bone shavings of appropriate size and thickness for the graft integration
- Effective on any bone surface (plane, concave, convex)
- Excellent control during the harvesting procedure
- No contamination due to the wear of the device



Curve version chamber capacity 2.5 cc

**Benefits of the device**

**READY TO USE:** the disposable device is presented in individual sterile packages. Its sterility in an undamaged package is guaranteed for 3 years

**MINIMALLY INVASIVE:** the manual harvesting technique is non-traumatic and well tolerated by the patient

**USEFUL:** cortical bone can be harvested from any intraoral site, including near to the bone defect

**VERSATILE:** it is the ideal device for both extensive and minor harvesting procedures. Its curved tip version facilitates access in all intraoral donor sites

**CONVENIENT:** allows only the necessary amount to be harvested, without any need to use further bone substitute

Description	Q.ty
Safescraper <sup>®</sup> TWIST - Curve version - Sterile - Disposable	PKG of 3



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# Micross



By using Micross the bone tissue is directly collected in the chamber inside the cannula and it gets an excellent biological plasticity, due to the presence of coagulated blood.

The volumizing effect, due to the curly morphology of the collection, reduces the quantity of bone needed to fill the defect and as a consequence it minimizes invasiveness for the patient.



Chamber capacity 0.25cc

The experience META has acquired in developing bone harvesting systems - Safescraper<sup>®</sup> has allowed the realization of Micross: a throwaway minimally invasive disposable device indicated in case of manual cortical bone harvesting. The excellent cutting performance, due to Micross exclusive micro-blade, allows an easy autologous collection even in narrow and hard to reach areas, near to the bone defect. The manual harvesting technique warrants the best preservation of cell vitality of the cortical tissue, a fundamental characteristic that allows the best graft integration and reduces reabsorption activity.



#### Advantages of the disposable semicircular blade

- Maximum cutting efficiency
- Collects cortical bone shavings of appropriate size and thickness for the graft integration
- Excellent control during the harvesting procedure
- Effective on any bone surface (plane, concave, convex)
- No contamination due to the wear of the device



#### The only instrument for the Tunnel harvesting technique

Micross is the only bone harvesting device specifically studied for tunnel surgical techniques that minimize post-operation discomfort. The external diameter of the cannula is  $\varnothing$  5mm and due to its particular shape the instrument can be inserted in tissue tunnels in the intraoral area as the external oblique line, the cortical palatine and the zygomatic process.

## CLINICAL APPLICATION

Micross allows the harvest of the strictly necessary measure of bone tissue for the treatment of minor periodontal and peri-implant defects, permitting to avoid the use of bone substitutes

### Periodontal defect



### Peri-implant defect



### Post-extraction defect



Clinical cases courtesy of Dr. F. D'Avella (Italy)



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# NOVABONE®



## NovaBone Dental Putty®

NovaBone Dental Putty is a new, next generation Calcium-Phosphosilicate bone graft material based on NovaBone's bioengineered technology platform that offers enhanced handling characteristics with unparalleled performance.

- Dental Putty truly revolutionizes bone graft substitutes with its proven ability to accelerate bone regeneration.
- No special preparation required
- No refrigeration required
- Great adaptability
- Does not set like a cement
- Can be formed into various shapes and sizes



## Package to Placement

NovaBone Putty does not necessitate any mixing prior to placement. It is dispensed in a pre-mixed state and can be placed directly into the defect site from the package. It can be mixed with Allograft/Autograft but by using a "sandwich" technique so as not to lose the consistency of the graft material.

NovaBone Putty significantly simplifies bone graft handling and delivery.

- Osteostimulative
- Completely resorbable
- Fully synthetic
- Antimicrobial-transient, local
- Clot stabilization
- Superlative handling characteristics
- Unique Applications/indications
- Consistent results
- Abundant research

# SURGISPON™

Absorbable Haemostatic Gelatin Sponge



## What is Surgispon?

Surgispon™ is non-toxic, non-allergenic, non-immunogenic, and non-pyrogenic. Surgispon™ is already gamma-sterilized, and thus does not need to be re-sterilized. It is available in a convenient, ready to tear sterile blister/envelope. Surgispon™ unlike many haemostatic agents, does not require special storage conditions. The uniform porosity of Surgispon™ guarantees a favorable haemostasis. When implanted in vivo, it is completely absorbed within 3-4 weeks, with no residue and no encapsulation.

## How does it work?

Surgispon™ adheres to the bleeding site and absorbs approximately 45 times of its own weight of blood. It has a porous structure which activates the thrombocytes at the moment blood comes in contact with the matrix of the sponge. This causes the thrombocytes to release a series of substances which promote their aggregation at the same time as their surfaces change character, thus enabling them to act as a catalyst for the formation of the fibrin, which stops the bleeding. When implanted in the tissues, it is absorbed within 3-4 weeks.

## How safe is it?

- Surgispon™ is non-toxic, non-allergenic, non-immunogenic, and non-pyrogenic.
- No cholesterol, pure gelatin, no preservatives, BSE free.
- Safety & excellent tolerability
- No reactions or interactions with drugs or other food ingredients.
- Extremely stringent manufacturing protocols.
- Hardly any swelling on use, PH neutral.
- Due to its low molecular structure, it is totally resorbed, leaves no residue.



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## An Alternative to Osteotomes

Bone expander drills are an alternative to osteotomes for the expansion and condensing of the atrophic mandible and maxilla in preparation for dental implant insertions. Expanders are also an alternative to the maxillary sinus elevation technique.

## Surgical Trauma Decreased

Expanders are driven into the bone with a ratchet wrench or low speed hand piece. This decreases the surgical trauma of osteotomes. Bone expanders improve the clinical success by improving stability, maintaining bone density and increasing fixation.

## What the Kit Includes

The Bone Expander Kit from ITL Dental Includes 5, bone expanders a ratchet wrench, a pilot drill, a ratchet wrench connector, a hand piece, connector and a thumb knob for finger usage. The kit is autoclavable and is one of the most economical expander kits

## Bone Collector



### Features

- ✓ Unique design.
- ✓ Bone collecting capacity is substantial.
- ✓ Extremely user friendly instrument.
- ✓ Easy to use and collect the bone.
- ✓ Can be connected to all type of suction systems.

## ITL Bone Collector

Autogenous Bone is considered as the best material for the bone transplants and autogenous Bone is the Gold standard for grafting procedure, it has unparalleled osteogenic potential –Live cells, Better assimilation, Greater regeneration. ITL bone collector is one of the best collection systems available in the market



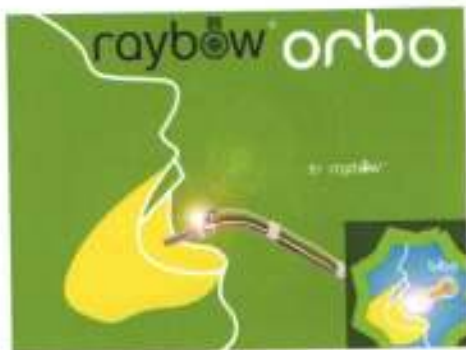
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**A REVOLUTIONARY LED LIGHT SOURCE FOR ALL DENTAL PROCEDURES**

- SIMPLE APPLICATION
- INNOVATIVE DESIGN
- STERILIZED AT 135°C (275°F)
- 22,000 LUX
- ABOUT 50,000 HOURS OF LIFETIME



**orbo**

is a powerful LED-light source for full illumination of the oral cavity during a surgical procedure over the existing extraction system.

- CONTROL-PACK with induction pack to charge
- CONTROL-PACK with hose belt fixed on suction hose
- CONTROL-PACK & LED CLIP-ON with metal cleaner



**INNOVATIVE LED -BITE BLOCK FOR USING ON ALL DENTAL APPLICATIONS**

- SIMPLE APPLICATION
- INNOVATIVE DESIGN
- STERILIZED AT 135°C (275°F)
- 22,000 LUX
- ABOUT 50,000 HOURS OF LIFETIME

**APPLICABLE FOR:**

- ORTHODONTISTS
- DENTAL HYGIENE
- SURGERY



**bibo**

is a powerful LED-bite block to complete the illumination of the oral cavity during a dental procedure.

- CONTROL-PACK with induction pack to charge
- SILICON-BITE BLOCK small & big
- CONTROL-PACK WITH SILICON-BITE BLOCK



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