

INNOVATIVE TECHNOLOGY FOR THE SURGICAL TREATMENT

Features and benefits

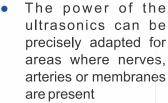
Safebone is an ultrasonic surgical system equipped with hand pieces and the tips accessible to all surgical areas for cutting cortical bones D1, D2, D3 types. It can be used for osteotomy, osteoplasty, decorticating, drilling, shaping, and smoothing of bones in a variety of surgical procedures including orthopaedic, maxillofacial, oral, hand, foot, neurosurgical, spine, plastic, head & neck reconstructive and other surgeries causing minimal damage to the arteries, soft tissues, membranes, vessels and nerves.

Sterilizable LED hand piece

- 100 Lux Powerful LED enhances vision at the operative site for efficient osteotomies.
- No heat generation and vibration free
- Attached cable
- Complete autoclavable headpiece with internal irrigation and with attached cable.
- Straight Hand piece facilitates desired/non-linear/transverse oscillations.

Multifunction Foot Pedal

• Activation/adjustment of irrigation and of ultrasonic power according to the anatomical constraints encountered.



 Total control of the console through the foot pedal, which allows hand free operation in the sterile field, With out touching the console screen



Control System

- No loss of power regardless of the mode/function and / or treatment performed
- Active only on mineralized tissue, with minimal risk to soft tissue
- Minimum pressure required, resulting in higher precision and less hand fatigue for the clinician
- Four power setting modes: 3 for bone cutting based on bone density and 1 for soft tissue detachment

Cutting tips

- No heat generation, minimizes the risk of necrosis
- Entire range for highly precise bone surgery procedures
- Broad range of applications
- Resuable & Sterilizable (ask for detailed catalogue for tips)

Console

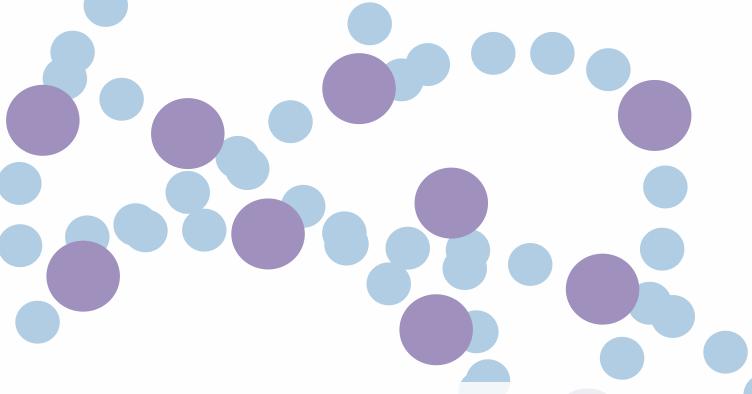
- User-friendly touchsensitive LCD screen for ease of operation
- Compact generator with digital display of power, irrigation, vibration and other settings
- Cable connectors for up to t w o h a n d p i e c e s eliminating the need to change cutting tips during procedures (second optional)
- Two integrated peristaltic pump housings (second optional)
- Two brackets for irrigation solution

Accessories

- Reusable Surgical Tips
 (Right &Left Tips, Angled Tips, Cutting Tips, Non Cutting Tips, Smoothing/Finishing Tips, Scaling Tips)
- Irrigation Sets (dis.)
- Directed Airing System mrt 440
- Autoclavable container for Tips
- Wrench
- Autoclavable container for accessories
- Irrigation Pole
- Real time B.M.D assessment with the help of Multi Vital Parameters Analyzer







TECHNICAL DATA

Technical Characteristics

Manufacturer: MRTSRL Italy

Distributor: regional

Device name: Safebone mrt135

Electrical power supply

Voltage: 100 VAC to 230 VAC Frequency: 50 Hz/60 Hz

Rated power: 150 VA at 230 VAC

Function Operation

Intermittent service: 10 min. ON/5 min. OFF

Output characteristics

No-load voltage: 250 volts

(nominal value without handpiece) Ultrasonic Frequency: 25 Khz to 35 Khz

Irrigation flow rate: 10 to 120 ml/min. steps (nominal

Adjustment in 10 ml/min. steps (nominal value) Flush flow rate: 120 ml/min. (nominal value)

Tip Vibrations: 40 to 250 micron

Protection

Electrical equipment class: Class 1

Electrical safety class: BF

Safety devices

Safety shut off if internal malfunction 2 fuses (power receptacle):

5 mm x 20 mm/2 AT for 100 VAC to 230 VAC 1 internal fuse not accessible to the user Reference F1: 5 mm x 20 mm - 10 AT/250 VAC

TIPS

Resuable & Sterilizable (ask for detailed catalogue for tips)

Overall dimensions

Control unit

Width: 472.9 mm Height: 149.5 mm

Heigh with bracket: 471.1 mm

Depth: 339.9 mm

Weight: 5 kg without accessories

Handpiece cable

2.9 meters

Temperatures

Operation: +10°C to +30°C Storage: -20°C to +70°C

Humidity

Operation: 30% to 75%

Storage: 10% to 100% including

condensation

Atmospheric pressure

Between 500 hPa and 1060 hPa

WITH RESPECT TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL60601-1 AND CAN / CSA C22.2 No. 601.1

MRTSRL

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