



EXOMEDTM
SIMPLY NO STRESS.



Medesy is the embodiment of the huge know-how spread over **6 centuries** of Maniago smiths' art history, from the Renaissance to present-day. Surgical instruments are products whose "added value" is closely linked to the quality of the human resources. This value is the expression of the culture and passion of ingenious and industrious craftsmen, dedicated to their profession as if it were an expression of art.



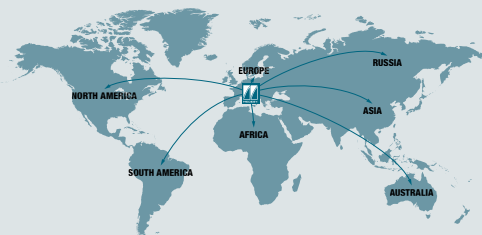
...and our
focus is still
on **QUALITY**



**Our 600 years of history are the best
guarantee for our customers**

A LEADER COMPANY FOCUSED ON THE FUTURE

Medesy enjoys an excellent reputation all over the world and is obtaining satisfactory results in many Countries, gradually enhancing its presence on new markets and collecting further appreciation in all professional circles. Medesy currently exports its instruments to more than 103 Countries.



OUR RESEARCH

From a daily contact with our customers and the special attention we confer to our partners' needs we draw the motivations and the suggestions to keep on improving our instruments. Medesy works in close cooperation with opinion leaders and professors of worldwide universities in order to design and produce the best innovative instruments, such as the Dr. F. Comella's drop shape mirror, the Gracey curette with new innovative handle and titanium tips and the Black Sharp scissors.



But our commitment to research is urging us to achieve even further goals:

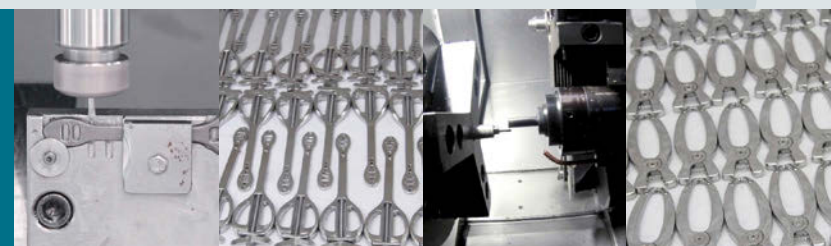
From our R&D department a new company has been created, **Medesy Engineering**, whose specific and unique mission will be to develop new materials and new products.

Exomed™ is the extraordinary result of **Medesy Engineering: Exomed™** is an instrument which allows the extraction of teeth and roots with minimal trauma: the periodontal and alveolar tissues remain fully undamaged after the extraction. No need of forceps and root elevators, nor to perform a luxation before extraction!

**EXOMED™, SIMPLY REVOLUTIONARY.
EXOMED™, SIMPLY NO STRESS.**



EXOMED™



EXOMED™

by  **MEDESYS**
Engineering

 **MEDESYS**
Engineering



Exomed™ is designed to perform extractions with minimal trauma.

Exomed™ is recommended to perform alveolar extractions of teeth with or without crown.

EXOMED™ KIT

- | | |
|----|-------------------------------------|
| 1 | BS – Supports |
| 2 | Extractor |
| 3 | RS 16 – Root screw \varnothing 16 |
| 4 | RS 18 – Root screw \varnothing 18 |
| 5 | COK – Kevlar cord |
| 6 | Pliers |
| 7 | PUEX – Universal tips |
| 8 | PRA – Prismatic tips for roots |
| 9 | EL & EC – Manual Root extractors |
| 10 | KL & KC – Screwdrivers |
| 11 | PRS – Bur extender |

The most remarkable advantages of Exomed™-extraction with minimal trauma:

- 1 The periodontal and alveolar tissues remain **fully** undamaged after the extraction, no lacerations, no huge bleeding, the neighboring tissues are practically perfect after the operation.
- 2 It is a fully reliable alternative technique allowing the immediate insertion of the implant in a perfect and undamaged alveolus.
- 3 No need to perform a luxation before the extraction.
- 4 Smaller in size than a forceps: no need for the patient to remain full open mouth as required with conventional techniques.
- 5 The extraction of **roots** and **damaged teeth** or **partially ruined teeth** is really easier and faster.
- 6 The extraction made with Exomed™ does not require any special high pulling force of the dentist.



Instructions for use

EXOMED™ is utilized in a manual way and no other additional tool is required for its functioning.

Step_01

Selection of the supports

Evaluate the neighboring areas of the tooth/root to be removed and choose the correct type of supports. The long axis of the extractor must be positioned as much as possible parallel to the occlusal plane. Hence the need to choose exactly the supports which may offer you the best adjustment both horizontally and vertically.



Tooth/Tooth



Tooth/Gum

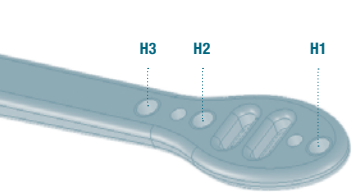


Gum/Gum

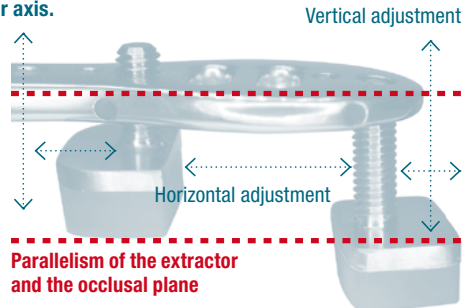
The Supports can be installed in holes H1, H2 or H3 of the Extractor depending on the chosen area of support, the aim is to obtain the best distribution of the load.

The positioning of the supports can be regulated *vertically* through their screws, and *horizontally* by adjusting the distance between the supports themselves. This can be done by selecting the most suitable hole among a scale of three holes outfitted on the extractor.

To obtain the full and precise adjustment of the distance rotate the supports on their axis.



3 holes (H1, H2 e H3) for adjustment of the length

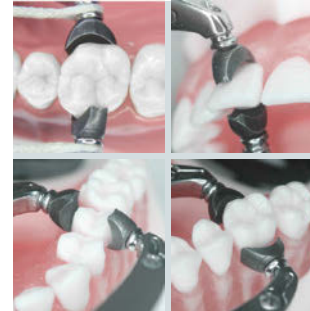


Incisal and occlusal areas	Edentulous area	Third lower molar	Upper third molar
Use holes H1, H2 or H3	Use holes H1, H2 or H3	Use only hole H1	Using only hole H1
 Support 01 Support 02	 Support 03 Support 04	 Support 05	 Support 06

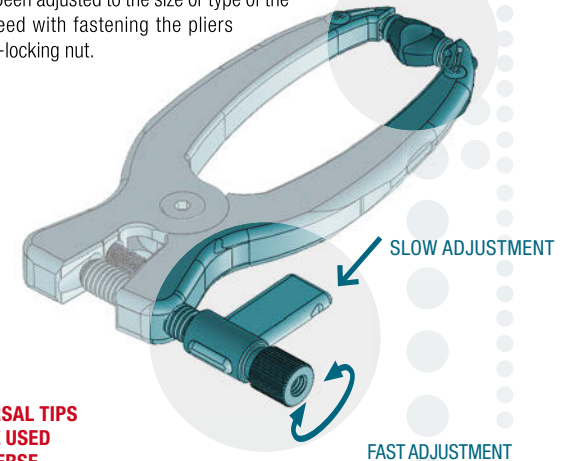
Step_02

Positioning of the Universal tips for teeth

The Universal Tips are so defined since they adapt to all the different teeth. Once the Universal tips have been adjusted to the size or type of the tooth to be extracted, proceed with fastening the pliers by rotating clockwise the end-locking nut.



Examples of positioning of universal tips for teeth



UNIVERSAL TIPS CAN BE USED IN REVERSE DIRECTIONS

Fast adjustment: use the fast adjustment only until you can feel that the tips are starting to be anchored to the tooth.

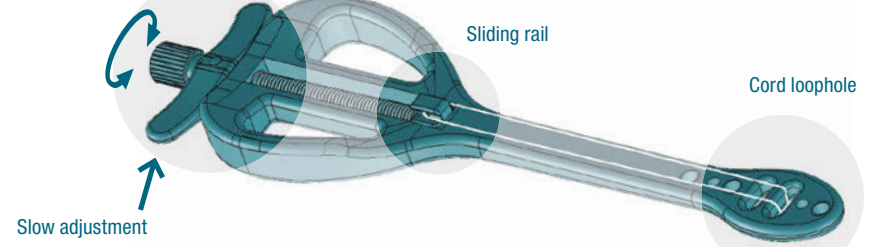
Slow adjustment: the slow adjustment permits a further rotation which is needed to fully anchor the instrument to the tooth.

Step_03

Positioning of the cord

Once the pliers are correctly fixed on the tooth to be extracted, proceed by passing the cord through the Cord Loophole and lock it into the sliding rail.

Fast adjustment



Fast adjustment: use the fast adjustment until the point of tension of the cord.

Slow adjustment: use the wings of the slow adjustment as a finger support during the extraction and rotate clockwise until you can feel the traction of the cord: it's the beginning of the extraction.

Instructions for use

Step_04 Extraction with minimal trauma

The interval of 10 seconds between every half-turn rotation of the cord is necessary to allow the periodontal ligament to absorb the stress. This procedure aiming at *relaxing the ligaments* prevents and eliminates the huge lacerations and copious damages on the tooth site. This gradual and regular rotating motion guarantees an extraction with minimal trauma. Furthermore in this lapse of time the space between the tooth and the alveolus is filled with air reducing the risk of complications associated to embolism.

Exomed™ allows a fully natural extraction and eliminates the risk of damaging the alveolus and the neighbouring tissues.



Step_05 Extraction of a tooth without crown

Use the root screws and screwdriver in order to extract a tooth without crown. A diamond bur (high rotation) is needed to drill the hole for the insertion of the root screw. If the dental bur cannot be used because of insufficient space then assemble it to the supplied bur extender.



Drilling of the hole for the screw, the bur extender is not required.

In this case the use of the bur extender is compulsory in order to perform a correct drilling.

Once the perforation is completed, you may proceed with the screwdriver.

The extraction of the roots by means of screws requires the utilization of the prismatic tips, remove the universal tips from the pliers and replace them with the prismatic tips.



IMPORTANT

Once the screw is inserted into the root, the pliers, regularly fit up with the prismatic tips for roots, must be positioned at the base of the screw and anchored onto it.

Step_06 Extraction of residual roots

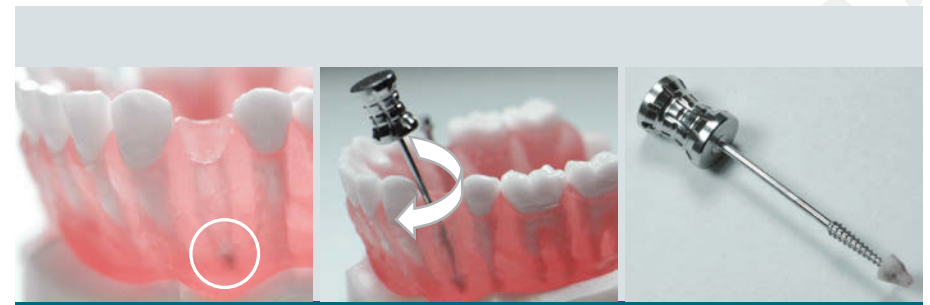
In case of remaining root fragments (<6 mm), use one of the two supplied manual root extractors. Check and select the most suitable area on the root where to insert the root extractor. The root extractor must be inserted manually through clockwise rotations. Choose the root extractor considering the depth of the root and the room which is available for further manipulation.

IN THIS CASE THE EXTRACTION IS PERFORMED MANUALLY, NOT WITH EXOMED™.

In case of impossibility to apply the Root extractor it is advisable to use a bur to prepare the canal.



Manual root extractors



SUGGESTIONS OF MAINTENANCE

TAKE CARE OF YOUR EXOMED™

The instrument is supplied 'NON-STERILE': it must be properly washed, rinsed and sterilized before using it.

1. Check the instrument and all its parts
 2. We recommend to clean the instrument fully and accurately before each sterilization session. If the instrument is not perfectly cleaned the result of the sterilization may be jeopardized.
 3. After each washing session verify that all the Exomed™ parts are intact and without any alteration that may compromise its usage.
 4. We recommend an autoclave sterilization: each cycle should not exceed the duration of 7 minutes, with a temperature of 134°C and a pressure of 2,1 bar. (However check the specific advices provided by the manufacturer of the autoclave). We suggest to regularly lubricate all the joined parts of the instruments, a simple procedure which ensures a perfect performance and longer duration of the product.
- Exomed™ case is fully autoclavable: arrange the Exomed™ components on it and proceed with required sterilization.

IMPORTANT

Exomed™ is an instrument designed for extractions by alveolar angle; its use is not indicated in case of ankylosed teeth and insufficient tuberosity of the wisdom teeth; in case of divergent roots proceed with the separation of the roots before using the Exomed™.

Clinical cases

On this brochure we present only few of the numerous cases carried out successfully using the Exomed™ device: visit the website www.exomed.it to see an additional selection of clinical cases performed with Exomed™!

Clinical Case nr. 01

Extraction of central incisive tooth and immediate insertion of the implant

Dr. S. Jayme



Incisive central tooth.



Selection of the supports and of the best suitable supporting area for the positioning of the supports. Anchorage of the tooth with the universal tips.



Positioning of the extractor with the supports, insertion of the cord and its tension phase.



Extraction of the crown obtained by the slow adjustment of the extractor's cord.



Once the crown is extracted you can proceed to extract the root. Using a diamond bur prepare the canal to introduce the screw.



Insertion of the screw in the pierced canal.



The prismatic tips tightly anchored on the screw start the extraction of the screw and automatically of the root itself.



Extraction of the root.



Extracted root.



Post-operation: absence of traumas, alveolus and papilla are fully intact.



Insertion of the implant.



Implant with prosthetic portion.

Clinical Case nr. 02

EXTRACTION OF THE TOOTH 36 (1ST INFERIOR MOLAR)

Dr. A. L. Scur



X-ray PRIOR and POST extraction, highlighted is the internal bone which is fully intact and above all the ALVEOLE SITE is PERFECTLY and TOTALLY UNDAMAGED.



Clinical Case nr. 03

EXTRACTION OF THE TEETH 14 & 24 (1ST PREMOLAR)

Dr. E. Levy



Post extraction: THE GUM IS ABSOLUTELY INTACT!



Clinical Case nr. 04

EXTRACTION OF THE ROOT 1ST PREMOLAR (TOOTH 14)

Dr. P. Benazzato
Dr. A. L. Scur



Focus on the perfectly NEAT ALVEOLE and ABSOLUTELY UNDAMAGED and FULLY INTACT GUM.



Clinical Case nr. 05

EXTRACTION OF THE EIGHTH INFERIOR (TOOTH 38)

Dr. E. Levy



EXTRACTED TOOTH, ABSOLUTELY INTACT.



Gökçen-Röhlig, B; Meriç, U e Keskin, H.

Clinical and radiographic outcomes of implants immediately placed in fresh extraction sockets.

Istanbul. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2010;109:e1-e7.

Yalcin, S; Aktas, I; Emes, Y; Kaya, G; Aybar, B; Atalay, B.

A Technique for Atraumatic Extraction of Teeth Before Immediate Implant Placement Using Implant Drills.

Implant Dentistry: December 2009 - Volume 18 - Issue 6 - pp 464-472

Al-Khateeb, T H e Alnahar, A.

Pain experience after simple tooth extraction.

American Association of Oral and Maxillofacial Surgeons J Oral Maxillofac Surg 66:911-917, 2008

Regev, Lustmann, and Nashef.

Extraction in Bisphosphonate-Treated Patients.

J Oral Maxillofac Surg. 66:1157-1161, 2008

Exomed™ is a perfect device projected and developed to ensure a smooth and efficient application, its usage is extremely easy and rapid, nevertheless as attested for all new techniques the optimal degree of ability and rapidity can be reached only through regular utilization.

Once you have purchased Exomed™ use it as often as you can, constant and frequent training will give you the necessary skill and expertise and will allow you to fully benefit from the many advantages which this valuable instrument truly offers.

Medesy is at your complete disposal for all your questions, queries and for detailed explanations, please contact us at exomed@medesy.it

Patent pending.

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