

The WeldOne™ Concept

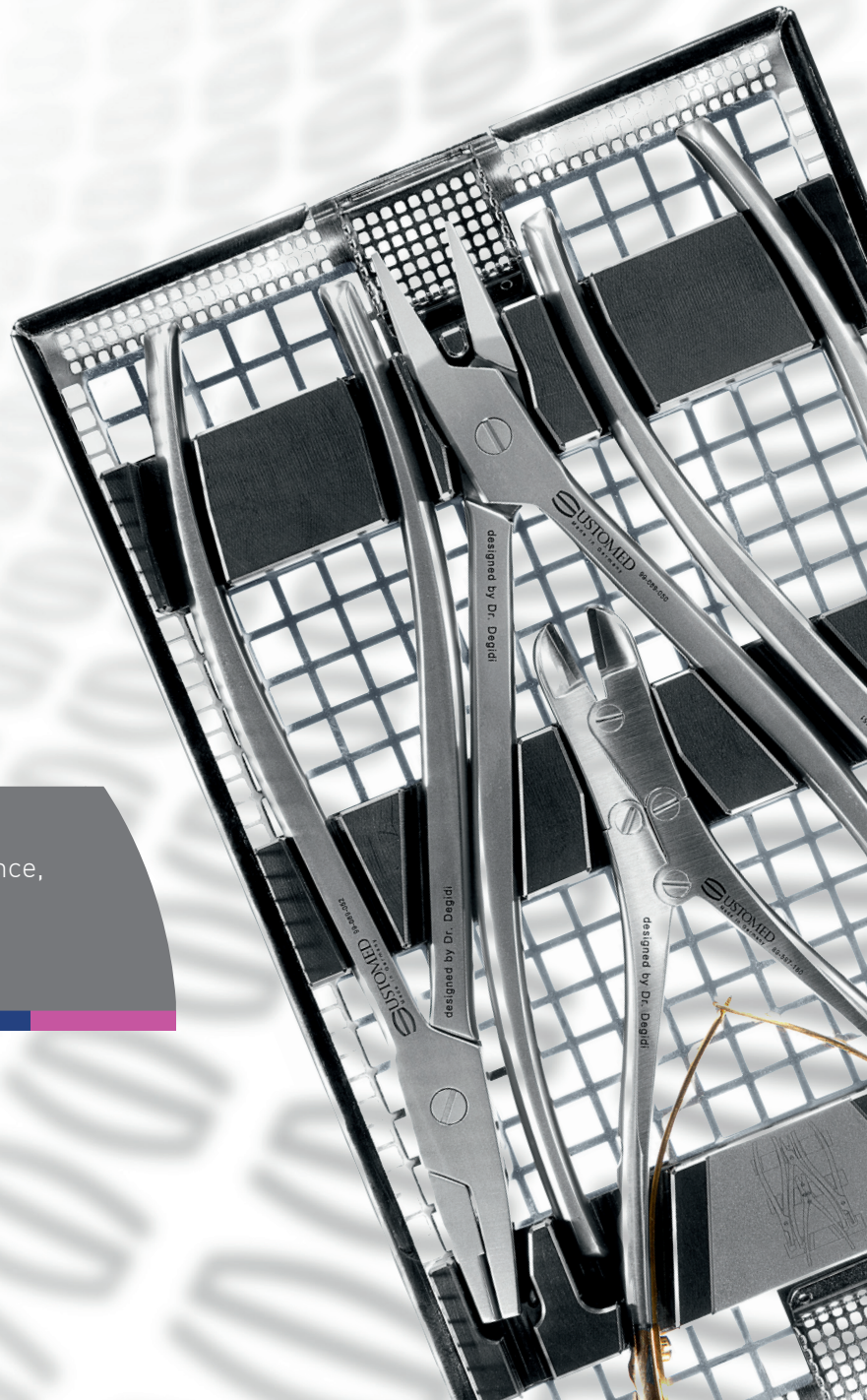
handcrafted excellence
in modern dentistry

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For those who believe that handcrafted excellence,
talent and inventiveness still have a role
in modern dentistry.



Competence in Instruments
MADE IN GERMANY



Preamble



Dr. Marco Degidi

Adjunct Professor, Postgraduate Program in Clinic Implantology and Biomaterials, University of Chieti. Adjunct Professor, Postgraduate Master in Clinic Implantology, University of Bologna.

Speaker in many national and international seminars, congresses and courses; many national and international publications.

Active member of AO, EAO, ICOI and SIO.

Private Practice in Bologna, restricted to implant surgery & prosthetic.



Mr. Gianluca Sighinolfi

In 1989 Gianluca was awarded his diploma from the Villaggio del Fanciullo in Bologna, Italy. He immediately began work in an important dental lab in Bologna, later to become a partner.

He has had extensive specialist training and conducted courses both in Italy and internationally. Since 1996 Gianluca has collaborated with Dr. Marco Degidi and Prof. Piattelli on immediate loading research, contributing to the development of new surgery protocols and numerous articles on this subject that have been published in leading international reviews and journals.

Speaker in many national and international seminars, congresses and courses; many national and international publications.

surgery and prosthetics clinic, he knows exactly what he's talking about: perfection in practice means perfection for the patient.

detailed information:

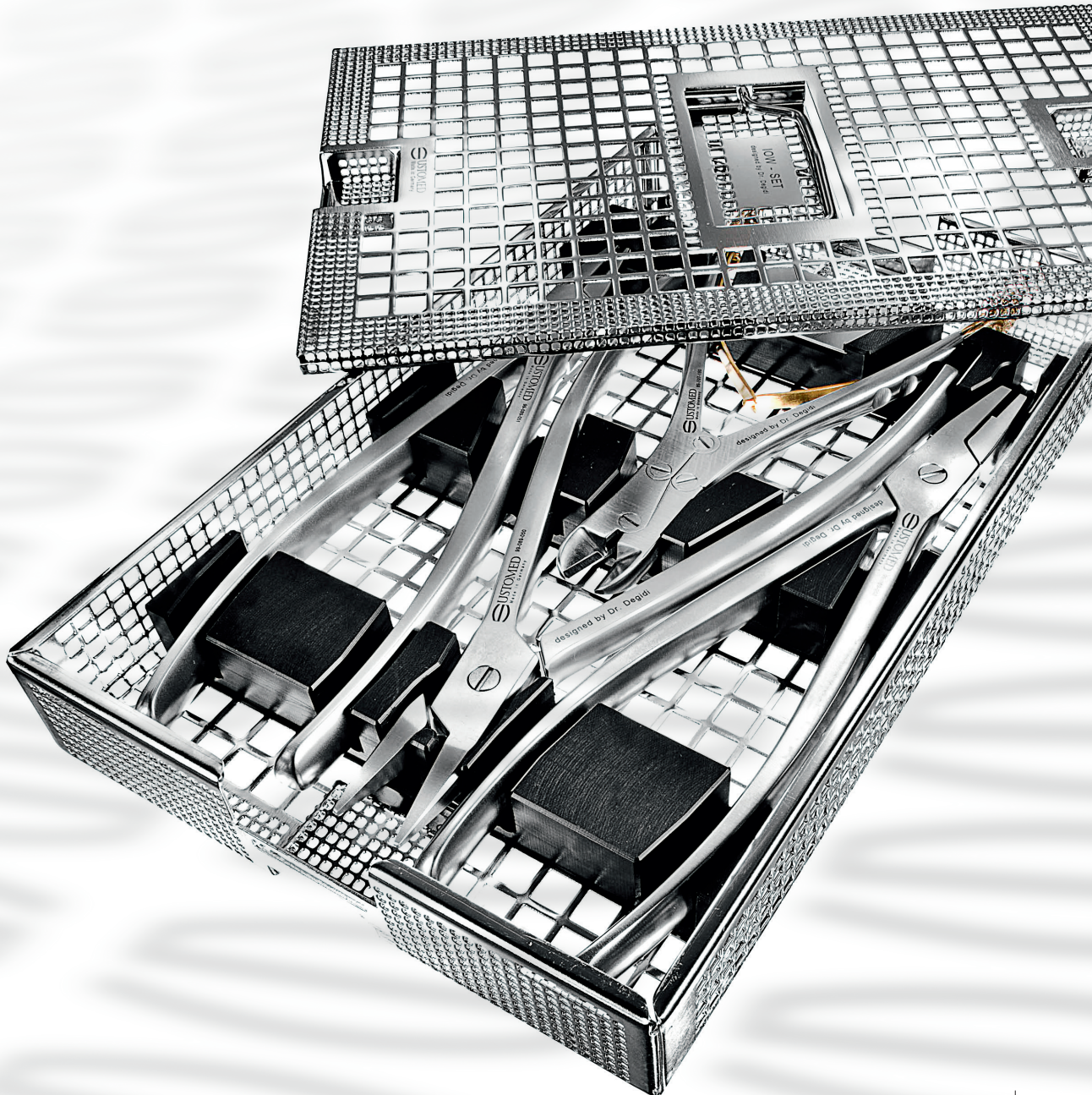
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WeldOne™ – The Kit

The Intra Oral Welding technique was the brainchild of Dr. Marco Degidi and dental technician Gianluca Sighinolfi; Intra Oral Welding makes it possible to intraorally manufacture a titanium framework chair side.

It is essential to use the following custom built tools manufactured by Ustomed to achieve the best result. This handful of simple tools allows you to create a defect-free framework with a few simple steps.



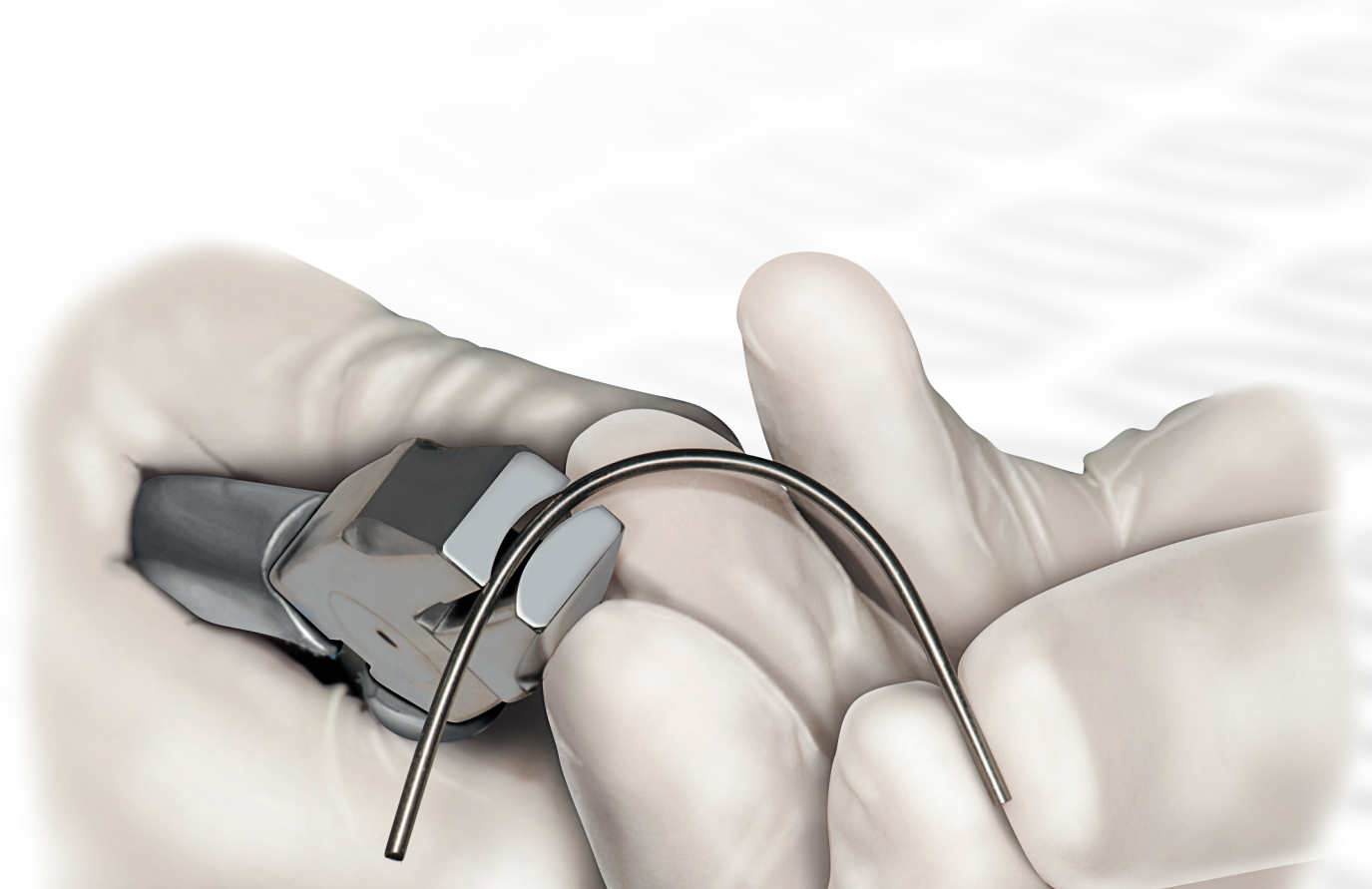
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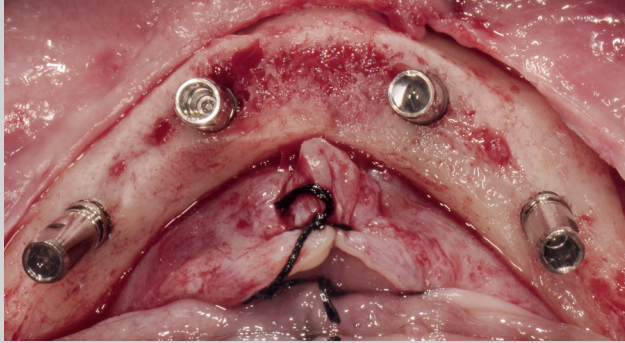
The Intra Oral Welding technique

When used at implant level, these frameworks support extremely reliable temporary restorations, and rigidly stabilize immediately loaded implants, resulting in a dramatic improvement in implant success rates.

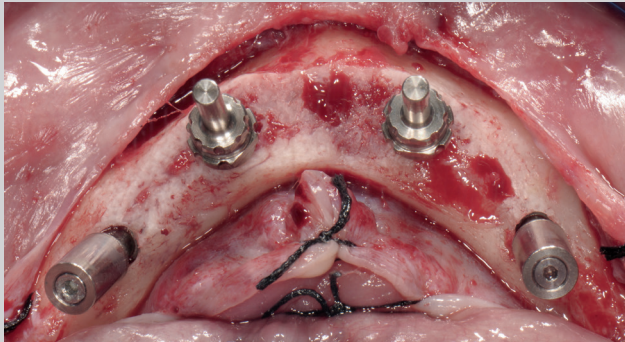
When used at abutment level with purpose-designed DENTSPLY Implants Manufacturing GmbH components, Intra Oral Welding makes it possible to manufacture extremely high quality and durable prosthetics with enormous precision.

The key to the Intra Oral Welding technique is an ingenious welding unit that was developed by the authors in collaboration with DENTSPLY Implants Manufacturing GmbH; the unit makes it possible to create a framework from a series of welds which join abutments to a connecting titanium bar. This quick and simple procedure is completely risk free for both surgeon and patient. There is absolutely no possibility of excessive heat and the procedure causes no discomfort of any sort to the patient. The very high quality of the weld obtained using this form of electrical resistance welding is comparable and often superior to traditional methods (laser, TIG, etc).

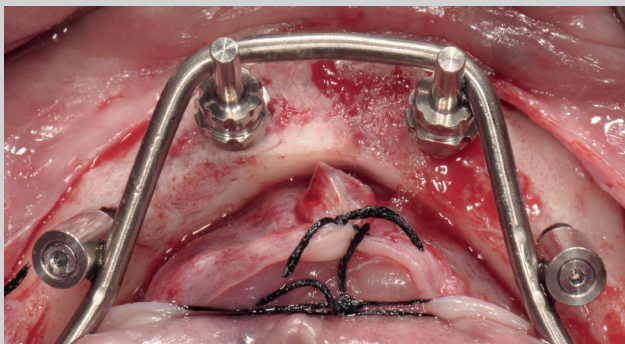




Four implants are placed in the intraforaminal region.



Welding abutments in position.



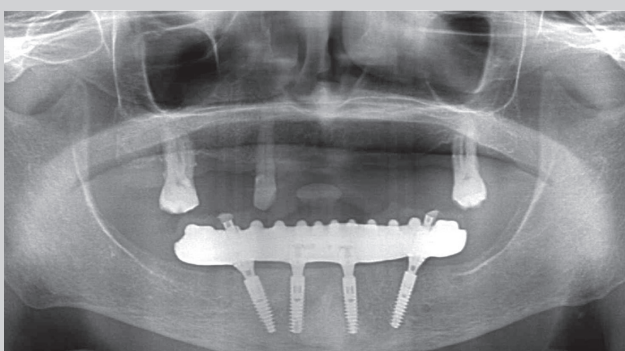
Intra-orally welded framework.



Welded framework removed and reinforced.



Final restoration.



Post-op X-ray.

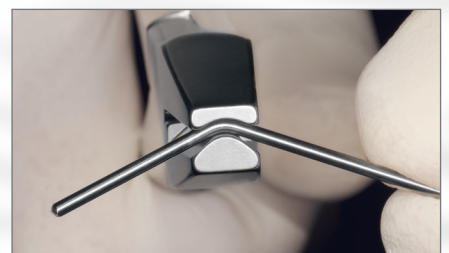
02 The Tools

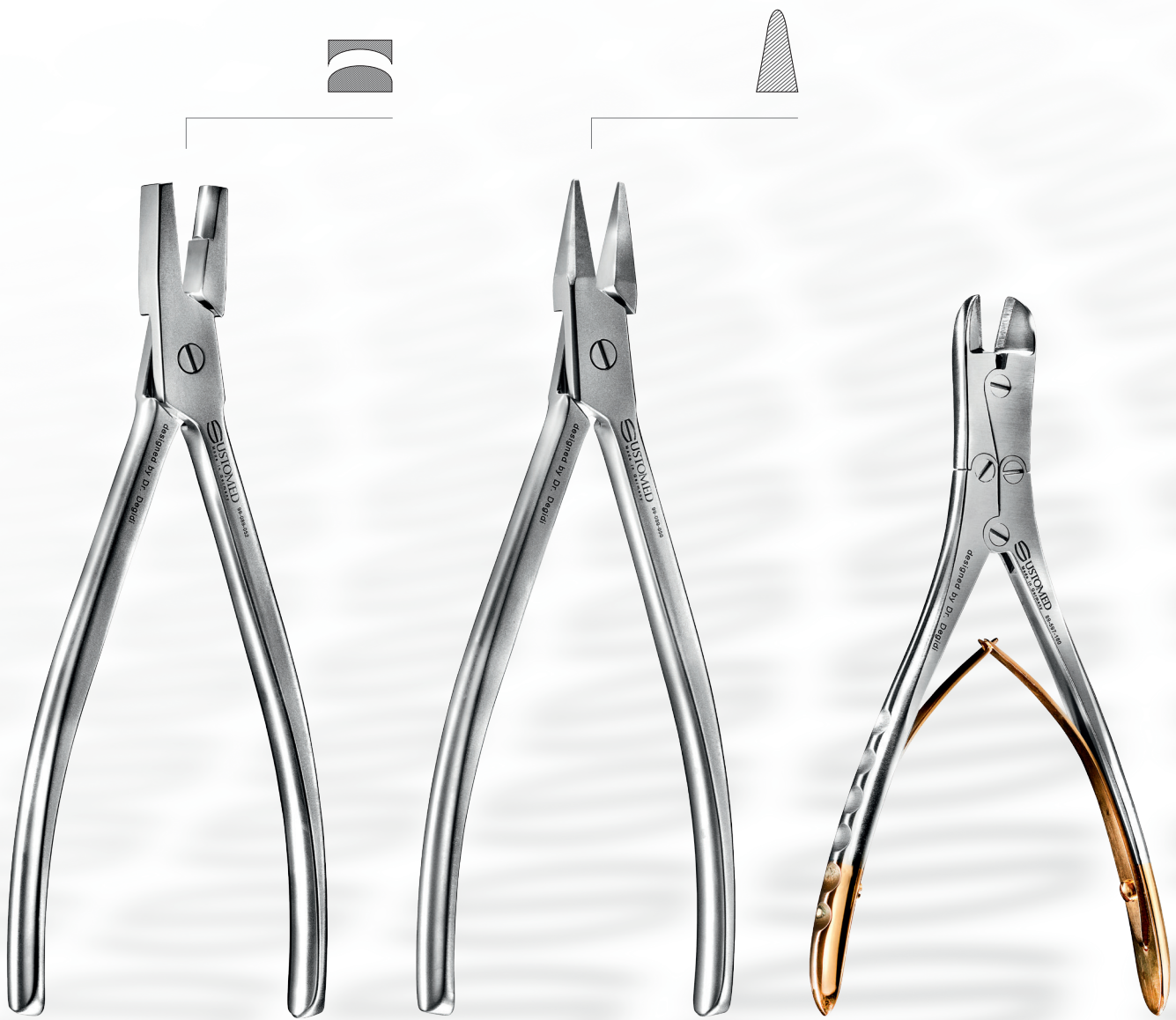
These purpose built instruments guarantee you achieve the best possible results with the technique, as they facilitate shaping the bar in the correct fashion, with the minimum number of steps.



Sharp Curver

bends the bar into more acute angles for single abutments.





Soft Curver

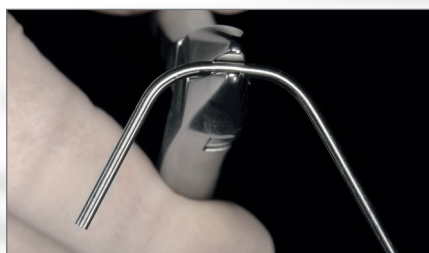
bends the titanium bar along the curve of the arch.

Holder

grasps and holds the titanium bar firmly in place during the welding process.

Cutter with tungsten carbide inserts

easily and efficiently cuts off excess material.



Dr. Degidi has published 111 articles, 12 of which on these Technique:

1. Degidi M, Gehrke P, Spanel A, Piattelli A.

Syncrystallization: a technique for temporization of immediately loaded implants with metal-reinforced acrylic resin restorations.

Clin Implant Dent Relat Res. 2006;8(3):123-34

2. Degidi M, Nardi D, Piattelli A.

Immediate loading of the edentulous maxilla with a final restoration supported by an intraoral welded titanium bar: a case series of 20 consecutive cases.

J Periodontol. 2008 Nov;79(11):2207-13

3. Degidi M, Nardi D, Piattelli A.

Immediate rehabilitation of the edentulous mandible with a definitive prosthesis supported by an intraorally welded titanium bar.

Int J Oral Maxillofac Implants. 2009 Mar-Apr;24(2):342-7

4. Degidi M, Nardi D, Piattelli A.

Prospective study with a 2-year follow-up on immediate implant loading in the edentulous mandible with a definitive restoration using intra-oral welding.

Clin Oral Implants Res. 2010 Apr;21(4):379-85

5. Degidi M, Nardi D, Piattelli A.

A comparison between immediate loading and immediate restoration in cases of partial posterior mandibular edentulism: a 3-year randomized clinical trial.

Clin Oral Implants Res. 2010 Jul;21(7):682-7

6. Degidi M, Nardi D, Piattelli A.

Immediate definitive rehabilitation of the edentulous patient using an intraorally welded titanium framework: a 3-year prospective study.

Quintessence Int. 2010 Sep;41(8):651-9

7. Degidi M, Nardi D, Piattelli A.

Immediate loading of the edentulous maxilla with a definitive restoration supported by an intraorally welded titanium bar and tilted implants.

Int J Oral Maxillofac Implants. 2010 Nov-Dec;25(6):1175-82.

8. Degidi M, Dapri G, Piattelli A.

Implants Inserted with Low Insertion Torque Values for Intraoral Welded Full-Arch Prosthesis: 1-Year Follow-Up.

Clin Implant Dent Relat Res. 2012 May;14 Suppl 1:e39-45

9. Degidi M, Nardi D, Piattelli A.

Immediate loading of zygomatic implants using the intra-oral welding technique: a 12 months case series.

Int J Periodontics Restorative Dent. 2012 Oct;32(5):e154-61

10. Degidi M, Nardi D, Sighinolfi G, Piattelli A.

Immediate rehabilitation of the edentulous mandible using Ankylos SynCone telescopic copings and intraoral welding: a pilot study.

Int J Periodontics Restorative Dent. 2012 Dec;32(6):e189-94.

11. Degidi M, Nardi D, Piattelli A.

Infrared thermographic evaluation of heat propagation pathway during intra-oral welding of titanium implants.

Infrared Physics & Technology. 2012; 55: 279-283

12. Degidi M, Nardi D, Piattelli A.

Prospective five-years follow-up of immediate definitive rehabilitation of the edentulous patient using an intraoral welded titanium framework.

Z Zahnarzt Impl. 2012;28(4)



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