Intra Oral Welding
handcrafted excellence in modern dentistry

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

Competence in Instruments
MADE IN GERMANY

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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.

iOW – 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.
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).
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:


