



# THE HEART

## OF THE THOMMEN IMPLANT SYSTEM

The implant-abutment connection is paramount to the reliability of an implant inserted in tissue, and thereby determines the clinical longevity and esthetics of the reconstruction. The unique Thommen implant connection has proven itself with exceptional properties through 30 years of clinical practice. It combines the most important features of an ideal connection between the implant and abutment:

- The stabilization ring and the internal hexagon ensure optimal mechanical stability and a precise fit.
- The world's smallest abutment screw allows maximum prosthetic flexibility and design freedom for the superstructure.
- The clever design of the abutment screw provides protection against excessive mechanical force.

The components of the Thommen implant connection, manufactured with Swiss precision, play an important role in the optimal integration of soft tissue and stability of marginal bone.

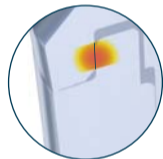
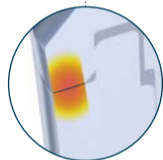


# PERFECTION

## IN TECHNOLOGY – THE ADVANTAGES FOR YOUR CLINICAL PRACTICE

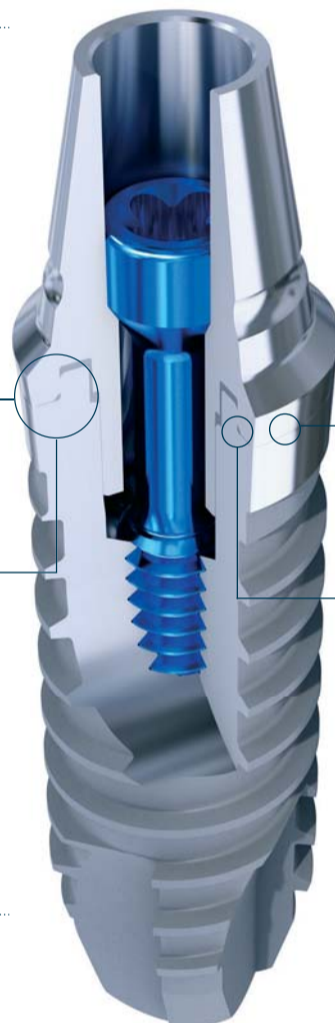
### Stabilization in the axial direction

A axial discrepancy, which can occur with conical connections, is reliably prevented by the precise axial placement of the abutment on the implant shoulder.



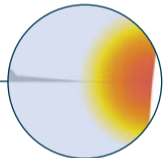
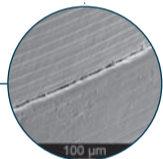
### Stabilization in the lateral direction

The stabilization ring ensures optimal mechanical stability and minimizes micro-movement at the bone and soft tissue level.



### Smooth transition between abutment and implant neck

The highly precise fit of the abutment and implant facilitates problem-free probing. Also, it ensures optimal cleansability by leaving no niche or ledge for bacteria.



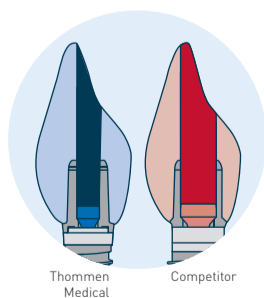
### High surface pressure

The slightly angled contact of the abutment ensures high surface pressure in the marginal area (focused compression), providing the best possible seal against bodily fluids.



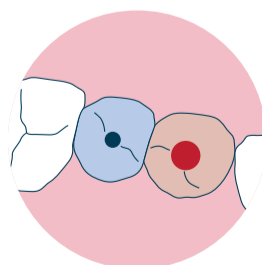
# THE SMALLEST

## IN COMBINATION WITH THE WORLD'S SMALLEST ABUTMENT SCREW, THE THOMMEN IMPLANT CONNECTION OFFERS MANY ADVANTAGES



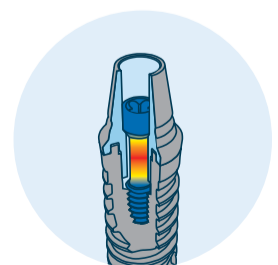
### • More material for prosthetic flexibility and strength

Because more of the abutment material is available for the design of the superstructure, the Thommen implant connection allows greater prosthetic flexibility, even in narrow spaces.



### • Optimal design of chewing surfaces

The world's narrowest screw channel facilitates an optimal design of the chewing surfaces, as only little must be filled.



### • Integrated protection from excessive mechanical force

The Thommen implant connection protects the implant from damage and excessive mechanical force (e.g. in the event of an accident).



# EXCEPTIONAL PROPERTIES

## WELL DOCUMENTED

“BRILLIANT CLINICAL RESULTS AND MINIMAL ALVEOLAR BONE LOSS AFTER 5 YEARS.”

GHOLAMI H, MERICSKE-STERN R, KESSLER-LIECHTI G, KATSOU LIS J. RADIOGRAPHIC BONE LEVEL CHANGES OF IMPLANT-SUPPORTED RESTORATIONS IN EDENTULOUS AND PARTIALLY DENTATE PATIENTS: 5-YEAR RESULTS. INT J ORAL MAXILLOFAC IMPLANTS 2014; 29 (4): 898-904.

“EXCELLENT CLINICAL RESULTS OF ELEMENT RC IMPLANTS AFTER 5 YEARS IN CLINICAL PRACTICE.”

JAQUIÉRY C, ILGENSTEIN B, JUNGO M, RÜEGER K, CHENAUX S, PAPADIMITROPOULOS A, JÄGER K. CLINICAL AND RADIOLOGICAL OUTCOME OF TITANIUM IMPLANTS IN CLINICAL PRACTICE: A 5 YEAR, PROSPECTIVE, MULTICENTER CASE SERIES. DENTISTRY JOURNAL 2014; 2: 106-117.

“EXCELLENT RESULTS FOR THOMMEN MEDICAL IMPLANTS WITH THE SUPERHYDROPHILIC INICELL® IMPLANT SURFACE IN AN EARLY LOADING PROTOCOL.”

HICKLIN SP, SCHNEEBELI E, CHAPPUIS V, JANNER SF, BUSER D, BRÄGGER U. EARLY LOADING OF TITANIUM DENTAL IMPLANTS WITH AN INTRA-OPERATIVELY CONDITIONED HYDROPHILIC IMPLANT SURFACE AFTER 21 DAYS OF HEALING. CLINICAL ORAL IMPLANTS RESEARCH 2015; 0: 1-9.

“DUE TO THIS PERFECT CONNECTION WE NOTICE EXTREMELY STABLE BONE CONDITIONS.”

GRUNDER U. IMPLANTATE IN DER ÄSTHETISCHEN ZONE - EIN BEHANDLUNGSKONZEPT STEP BY STEP. 2015 QUINTESSENZ VERLAGS-GMBH, BERLIN, ISBN: 978-3-86867-244-2.



### THOMMEN MEDICAL AG

Neckarsulmstrasse 28 | 2540 Grenchen | Switzerland  
Tel. +41 32 644 30 20 | Fax +41 32 644 30 25  
info@thommenmedical.com

### SUBSIDIARIES/NATIONAL DISTRIBUTORS

#### CANADA

Thommen Medical Canada Inc.  
1100 Burloak Dr. | Suite 300 | Burlington, ON L7L 6B2 | Canada  
Tel. +1 (905) 336 8966 | Tel. +1 877 242 6012 (North America)  
Fax +1 (905) 332 3007 | Fax +1 877 242 6013 (North America)  
info@thommenmedical.ca

#### USA

Thommen Medical USA L.L.C.  
1375 Euclid Avenue | Suite 450 | Cleveland OH 44115 | USA  
Tel. +1 866 319 9800 (toll free) | Fax +1 216 583 9801  
info.us@thommenmedical.com



“IT’S ALL ABOUT THE STRIKING FIT!”

PROF. MARKUS HÜRZELER,  
MUNICH



SWISS CRAFTSMANSHIP FOR DENTAL PROFESSIONALS  
www.thommenmedical.com



# THE THOMMEN IMPLANT CONNECTION



“DUE TO THE IDEAL INTERNAL CONNECTION, WE OBSERVE EXTREMELY STABLE BONE SITUATIONS.”

DR. UELI GRUNDER,  
ZÜRICH-ZÖLLIKON



SWISS CRAFTSMANSHIP FOR DENTAL PROFESSIONAL