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# **2023 Project Review & 2024 Guide Book**

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# Contents.

## 2023 Project Review & 2024 Guide Book

Introduction of New Office.	Why HOIL & CEO Letter.	Business Model & R&D.	Innovation & Services.	Work Process & Bar Total Solutions.	2024 New Price & Service Price List.	ARUM NB Implant System.
Page	Page	Page	Page	Page	Page	Page
04	06	08	14	24	36	58



# Introduction.



## Hoil Dental New Office.

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New Hoil Dental office signifies a commitment to growth, innovation, and the pursuit of dental excellence.

Embarking on an exciting new chapter, our recently established office symbolises a pivotal moment in the journey of Hoil Dental.

With state-of-the-art facilities and a meticulously designed workspace, this office stands as a testament to our commitment to growth, innovation, and providing unparalleled service. Our new office is a hub of inspiration, a place where fresh ideas flourish, and where the next phase of Hoil Dental's success story unfolds.

As we conclude the renovation and gear up for the move in 2024, we envision a space that fosters collaboration, creativity, and a vibrant work culture. It is not merely a physical location; rather, it represents a strategic move towards expanding our capabilities, enhancing efficiency, and furthering our mission to redefine dental solutions.

We invite our team, partners, and clients to join us in celebrating this milestone, as together, we continue to shape the future of dental excellence.



Milling Centre



Lecture Room



Meeting Room

# Why HOIL?

How HOIL could benefit you?

**“We invest, you thrive.”**



“

**Success is the ability to go from one failure to another with no loss of enthusiasm.**

”

- by Winston Churchill

Since our inception eight years ago, driven by a spirit of innovation, we embarked on a journey to provide dental laboratories in the UK with the highest quality and swift service without the need to send dental jobs overseas to milling centres. Over the past eight years, we have successfully completed approximately 300,000 projects without a single failure, establishing ourselves as the No.1 milling centre in the UK.

Drawing upon our accumulated knowledge and expertise, we have been investing significantly in upgrading our production facilities and integrating automation to enhance service quality. We are delighted that our customers can currently enjoy the best services available and look forward to further improving your experience.

For our valued customers joining us on this journey towards new standards alongside Hoil Dental, we promise to never rest on our laurels, always staying prepared and proactive. Furthermore, we are committed to ensuring that our customers take pride in being associated with our company.

On behalf of the board of directors, I extend my heartfelt gratitude to you, our customers, partners, and stakeholders, for your ongoing support and trust in our organisation.

Sincerely,



**Hoil Choi**  
CEO



# Our Business Model.

## Core Value

We believe in upholding the highest standards of quality and affordability, constantly pushing the boundaries of innovation in dental solutions.

These core values are not just words; they are the pillars that support our mission to redefine the dental experience for our valued partners. By adhering to these principles, we strive to cultivate a culture where excellence is not just a goal but an inherent part of our commitment to delivering outstanding service and forging enduring relationships with our customers.

## Four strategic processes

### 1. Providing the best service through the steady investment and development.

We ensure quality service by consistently investing in and developing our offerings to meet the evolving needs of our customers.

### 2. High quality & know-how. **ISO 13485 Certification**

Since 2019, we uphold the highest standards of quality and regulatory practices. This guarantees that the products and services consistently align with and surpass customer expectations.



### 3. Fast turnaround & lifetime warranty.

We prioritise efficiency with a commitment to swift service delivery and stand behind our products with a lifetime warranty, ensuring lasting satisfaction for our customers.

### 4. Developing a strong brand identity & building strong relationships.

Building on a foundation of trust, we focus on developing a strong brand identity while nurturing enduring relationships with our customers, ensuring a meaningful and lasting connection.

## Customer Centric Dental Solutions





# Impact on Society.

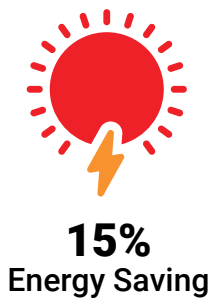
## At Hoil Dental Milling Centre,

we are proud to share with you our latest initiative that aligns with our core values – the installation of solar panels on our new office building.

### Why Solar Energy?

#### Reduced Environmental Impact

By harnessing the power of the sun, we’re significantly reducing our environmental impact. With climate change issues, our adoption of solar energy is a step towards a more sustainable future.



#### Resource Conservation

Solar panels help conserve natural resources and reduces our contribution to the depletion of non-renewable energy sources. By choosing solar power, we’re not only saving money but also making a long-term investment in a sustainable future.

#### Economic Benefits

Reduced energy costs and potential government incentives make solar energy an economically viable choice for us as a business. These savings can be reinvested in improving our products and services for our customers.

...  
**Social  
Responsibility**



### Investing in Your Success

*“Cost Savings Reinvested in Customer Benefits”*

Our efforts to harness solar energy not only reflect our concern for the environment but also exemplify our corporate ethos of delivering greater benefits to our customers through cost savings, especially in this era of rising expenses. It is another way we demonstrate our commitment to providing our customers with competitive pricing for our services.



#### Sustainability in Action

Our solar panel installation serves as a tangible demonstration of our commitment to responsible and sustainable business practices. It’s not just about words; it’s about taking action and making a real difference in the world.



#### Join Us in the Green Movement

Supporting businesses that prioritise sustainability and embrace renewable energy solutions is a powerful way to influence positive change. By working together, we can collectively make a significant impact on the environment and inspire others to follow suit.

# R&D.

The world widest implant systems available  
830+ by R&D team



Since 2015, we always strive to provide the best service through steady investment and R&D. Started from 150, with more than 830 available implant systems now, we cover the widest range of implant systems in the world and provide quality exceeding other milling centres.

At the core of our operations lies a profound dedication to our customers, and we continuously push the boundaries to proactively tackle tomorrow’s challenges head-on.

## 2023 Innovation Calendar

Jan.	Angulated Milling UK Exclusive License	Page 14
Mar.	All-on-Hoil	Page 15
Jun.	Premium Titanium Nitride Coating	Page 16
Aug.	3D Metal Laser Printing (SLM)	Page 18
Oct.	One-piece Locator Bar & Abutment	Page 20
Nov.	Surveyor Hand Milling	Page 22

## 2023 Development

Feb7

May2

Jun3

Jul1

Aug3

Sep2

Nov2

## Compatible 16 Implant Systems, 20 Sizes

MSDI Alef-Spiral Internal Hex 3.5/3.75/4.2/5.0/6.0  
EUROTEKNIKA Naturactis/Naturall+/Natea+ 3.0  
OXY Implant K1 Line/PSK Mini  
OXY Implant K1 Line/PSK Multi  
Noris Multi  
Rex implants Multi  
Osstem SS Octa Regular Multi

Straumann TLX NT  
Straumann Synocta NNC

iRES Internal Octagon Tissue Level 3.7/4.1/4.7  
Bio Comp Multi 4.0  
Bio Comp Internal Hex 4.0

iRES Internal Hex 2.5/3.7/4.1/4.7/5.2

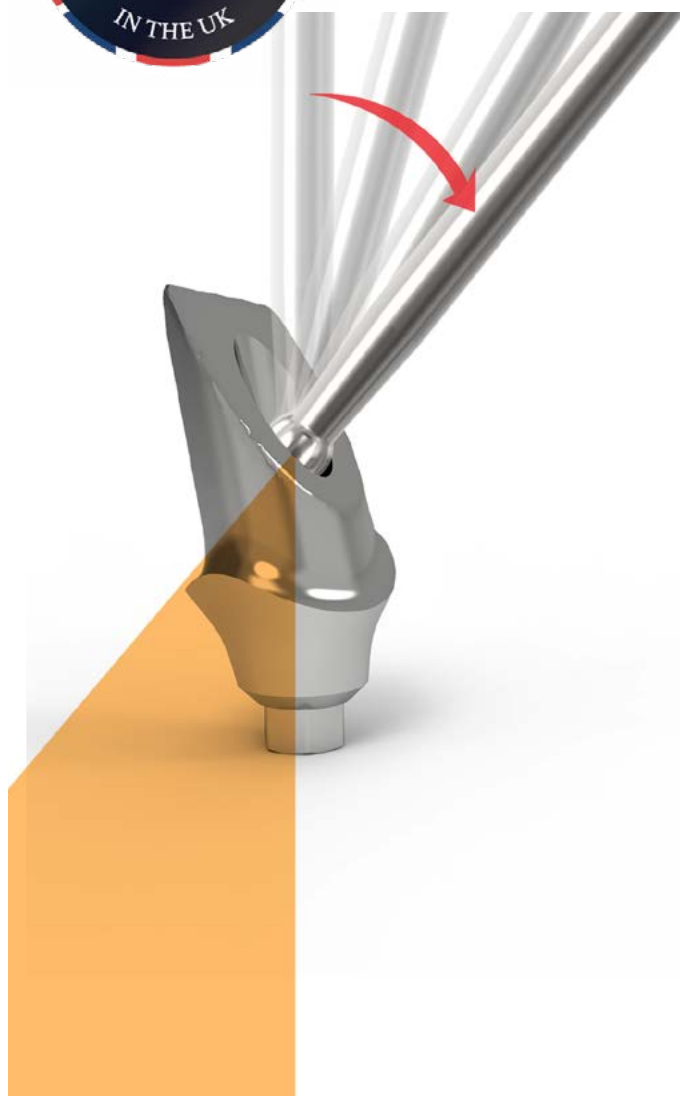
Megagen RC-MUA Multi  
BIO3 IMPLANT Conical Connection Standard 3.3/3.8  
J DENTAL CARE® JD Icon® Plus+ 3.7/4.3/5.0

SGS Dental® Internal Hexagon 3.5/3.75/4.2/4.5/5.0/6.0  
Nobel Biocare® N1™ NP 3.5 / RP 4.0/4.8

IPD® Multi-Unit  
IMPLANT SWISS® Multi-Unit 4.8

# Angulated Milling.

**Exclusive rights to Angulated Milling in the UK.**



## Legal Protection



The angulated screw channel milling process employed by Hoil Dental is patented and enjoys legal protection, granting our company exclusive rights to this technology in the UK through a contractual agreement with Kulzer GmbH. Consequently, any attempt to perform angulated milling independently or utilise milling services from other centres within the UK, without prior explicit authorisation from Hoil Dental, may result in legal repercussions.

## Quality Management System

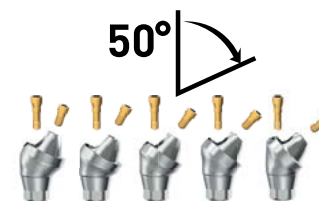


In accordance with ISO 13485 standards, our processing ensures that all products passing through our system receive legal protection, alleviating concerns for our customers. We offer a quality guarantee for all jobs involving angulation as well.



# All-on-Hoil

## Multi Convertible Abutment



### Angulated Adjustment up to 50 Degrees:

With the ability to rotate the implants up to 50 degrees, dental professionals can precisely tailor the implant placement to best suit the jaw structure and optimise the support for the fixed bar or bridge.



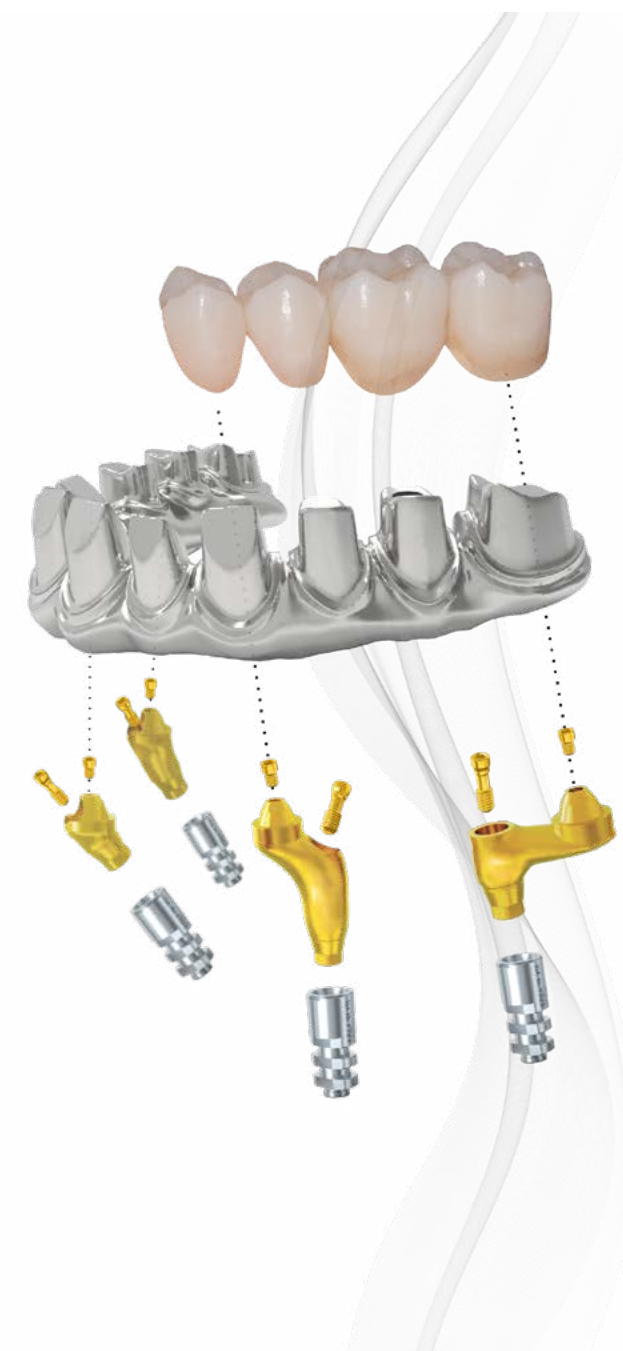
### Multi-Connection Position Adjustable:

This feature allows for the precise positioning of multiple implant connections, offering increased versatility in the design and placement of the dental restoration.



### Adjustable Gingival Height and Compression:

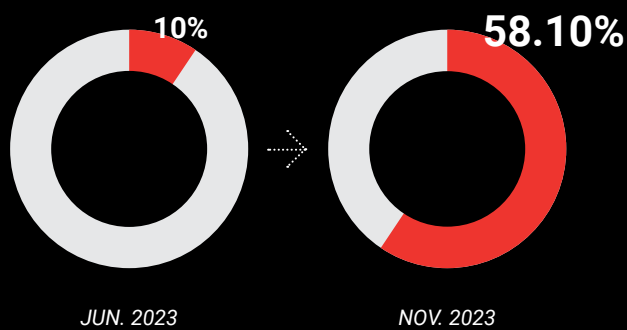
Adjustable gingival height allows to fine-tune the height of the gum tissue surrounding the implants. This ensures a seamless integration of the dental restoration with the natural gum line.





# Trend in 2024 Premium Titanium Nitride Coating

Nanohardness at least 5 times,  
Elasticity at least 3 times more than uncoated!



[ Service User Rate ]



Case	Price
Implant Bar (Anatomic bridge, Hybrid bar, Snap-in bar, Basic bar)	* Free *

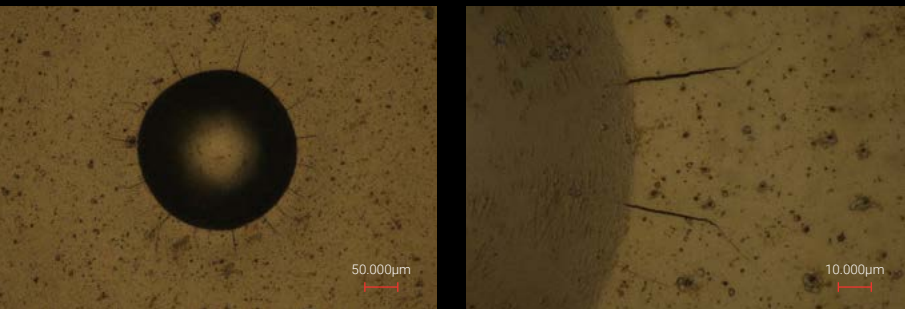
This year, we proudly introduced our Premium Titanium Nitride Coating service for our valued customers in the UK. Within just six months of its launch in June, more than 58% of discerning customers have availed themselves of our service, and the feedback from dentists has been exceptionally positive.

Our focus on offering **FREE Titanium Nitride Coating exclusively for bar jobs** reflects our commitment to actively serving patients, allowing them to experience numerous aesthetic benefits. We encourage our valued customers to take full advantage of our complimentary bar coating service.

## Efficacy of Titanium Nitride Coating

Through rigorous testing conducted by our specialised research laboratory, we have examined the Nanoindentation and fatigue characteristics of Custom Abutments before and after Titanium Nitride Coating application.

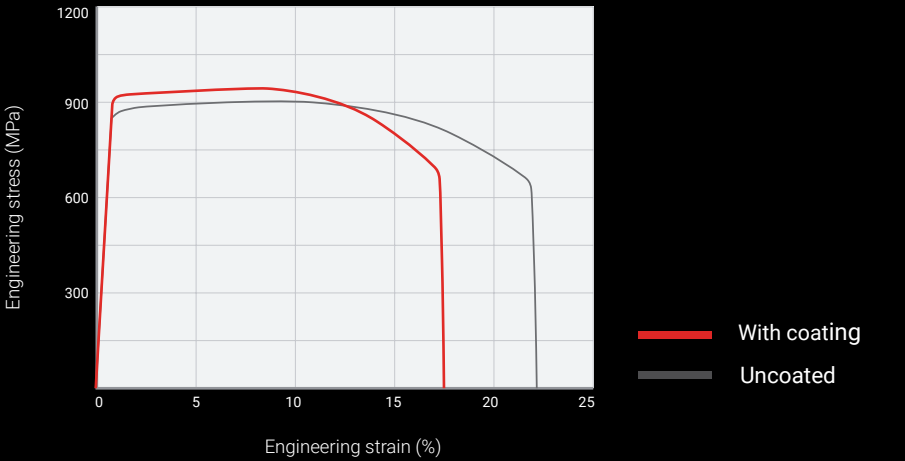
The results, as displayed in the table below, unequivocally indicate significant improvements in **surface hardness**, with an increase of at least **5-fold**. Additionally, the elasticity, as represented by **Young's Modulus**, has demonstrated a minimum **3-fold** enhancement.



## Effects on Custom Abutment

Property	Before Coating	After Coating
Nanohardness (Nanoindentation)	5.1 ± 1.1. GPa	27.1 ± 3.4 GPa
Young's Modulus (Elasticity)	141 ± 18 GPa	450 ± 49 GPa
Fatigue Characteristics (Fatigue Test Results)	21.9%	17.7%

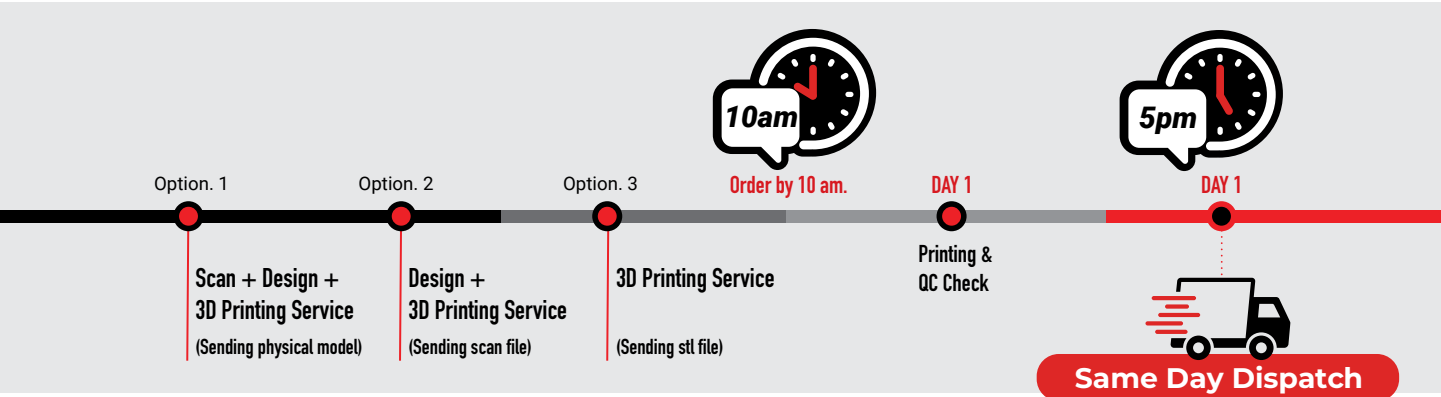
These findings not only underline the remarkable performance enhancement achieved through Titanium Nitride Coating but also highlight its potential to significantly reduce fatigue-related concerns in our products.



# Metal Laser Printing.

## SLM (Selective Laser Melting)

- ✓ **UK Top Quality** (by Top-Tier 3D Metal Printer - TruePrint 1000)
- ✓ **Affordable Price** (Price Freeze in 2024)
- ✓ **Same Day Dispatch** (Order by 10am - Fastest Turnaround in UK)
- ✓ **Experience Near Zero Post-Processing**  
(Save your working-off time compared to other companies)



“

E\*\*\*\*\* Dental Studio ★★★★★

### Save a significant amount of time

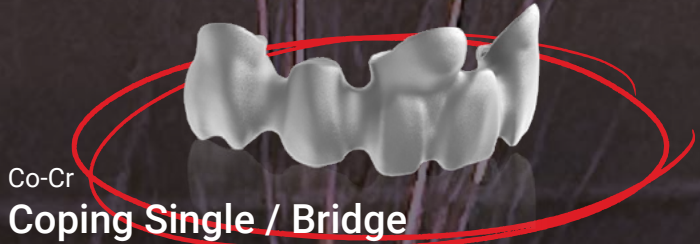
The cleanliness of Hoil's 3D metal printing significantly reduces the need for additional work, allowing us to save a substantial amount of time. I am pleased with the quality of the output, especially considering its affordability.

Dental \*\*\*\*\* Lab ★★★★★

### Fast Turnaround

Hoil's SLM service is a lot better than other companies' finished work and we're impressed with their fast turnaround. I definitely recommend this service.

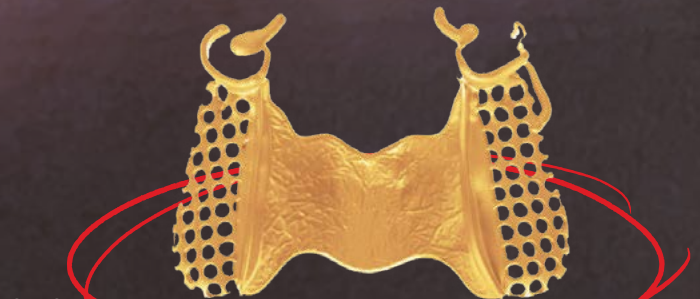
”



Co-Cr Coping Single / Bridge



Co-Cr Full Crown



Co-Cr i-ON Partial Framework



Best quality from the best!



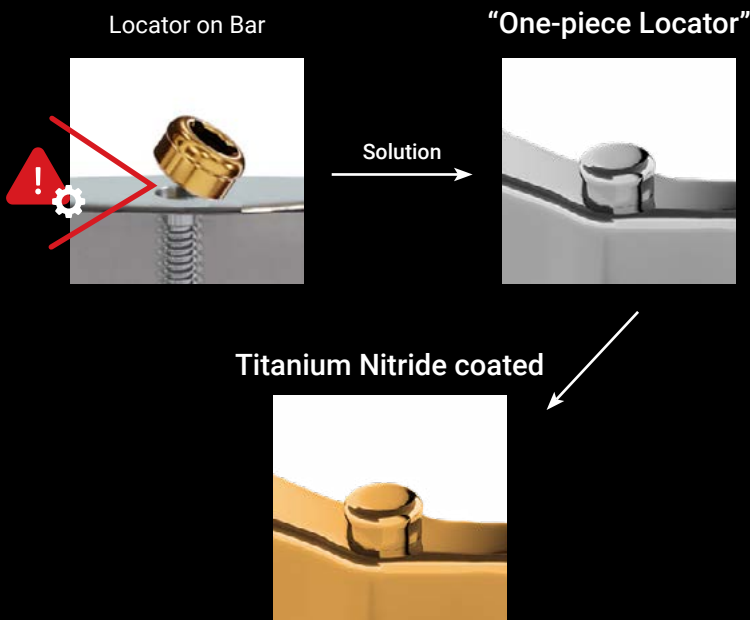
# One-piece Locator Bar & Abutment.

Titanium & Co-Cr

1. '0' Risk of Breakage

2. x 5 Hardness than uncoated

3. 61% Price Down than thread milling



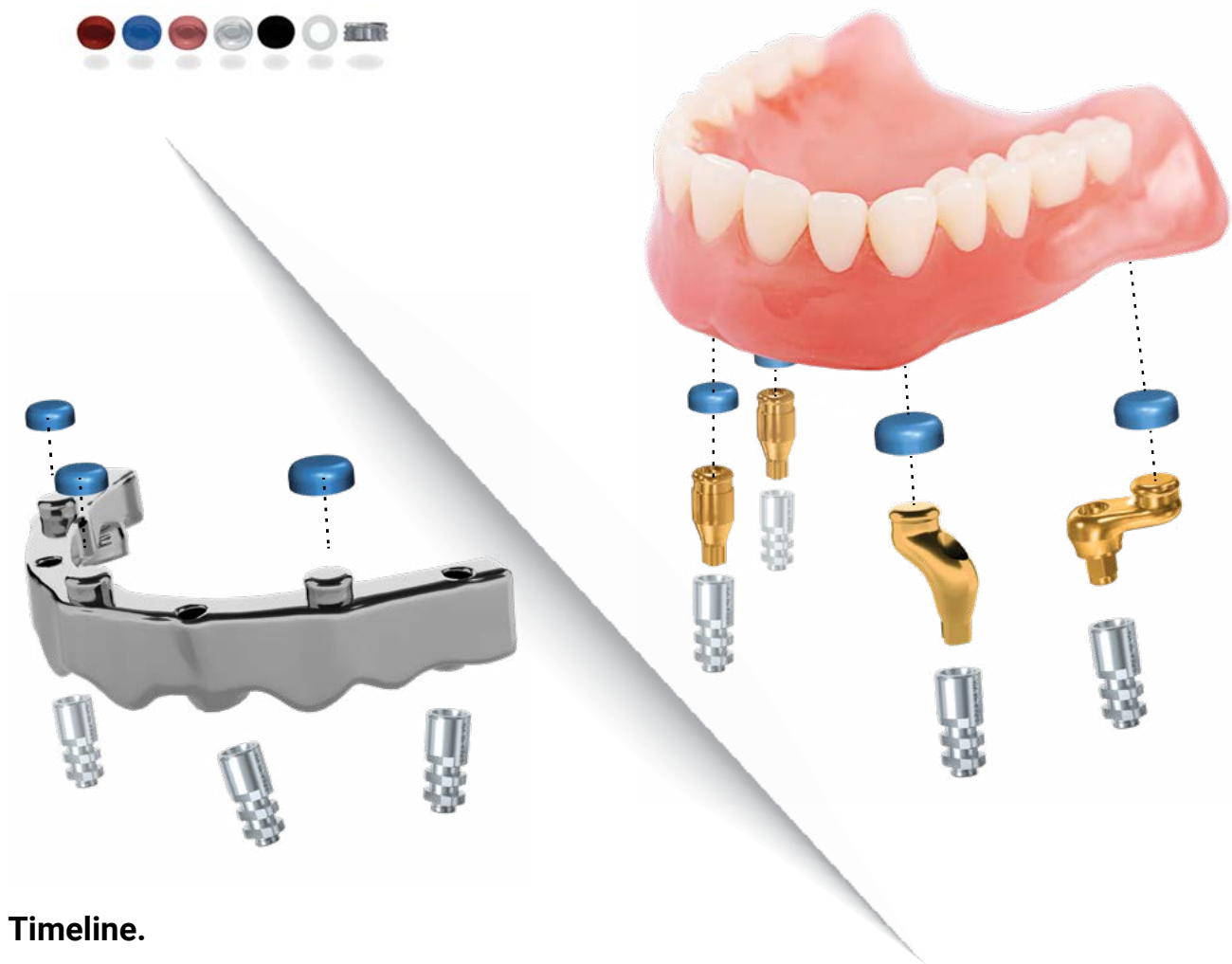
Product	Locator Price on Bar	One-piece Locator Solution
Thread Milling	£29.95	£60.00
LOC Bar Attachment	£80.00	
LOC Retention Kit up to 20°	£45.00	
Total Price	£154.95	£60.00



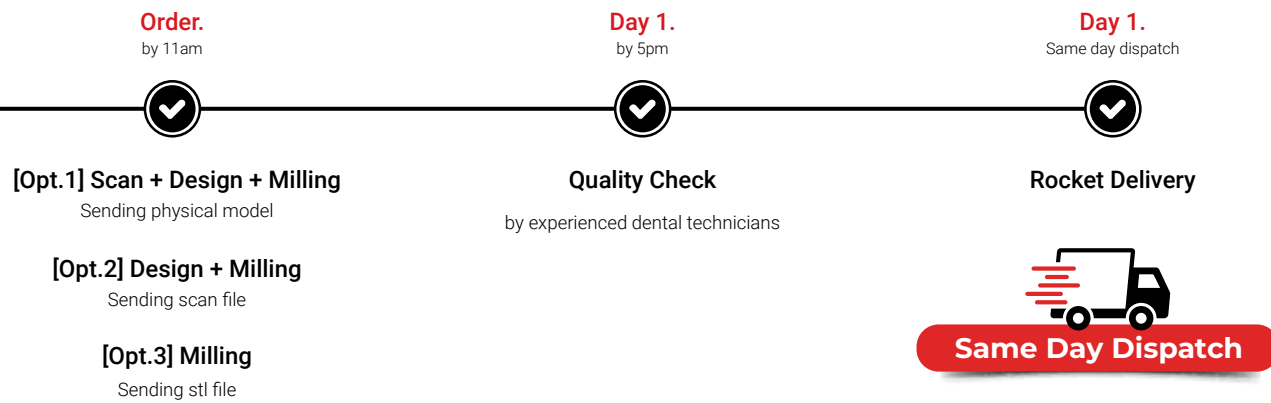
Adjust gingival height & compression

Free multi-connection position adjustable

Adjustable connection position



## Timeline.



# Additional Service.



## Ideal path of insertion and withdrawal for patient's comfort

Surveying typically involves precise measurements, careful planning, and the use of specific instruments to assess the anatomy of the patient's mouth and design the prostheses accordingly. This process is critical for the success of removable dental prostheses and for improving the overall quality of life for patients who require them.

### Purpose & Advantages

 <b>Desirable Path</b> To determine the most desirable path of placement that will minimise interference to placement and removal.	 <b>Guiding</b> To identify proximal tooth surfaces that are made parallel so that they act as guiding planes during placement and removal.	 <b>Measuring</b> To locate and measure areas of the teeth that may be used for retention.
 <b>Locating</b> To determine the most suitable path of placement that will permit locating retainers to the best aesthetic advantage.	 <b>Eliminate Undercut</b> To delineate the height of contour on abutment teeth and to locate areas of undesirable tooth undercut that are to be avoided or eliminated.	 <b>Accuracy</b> To permit an accurate charting of the mouth preparation to be made.





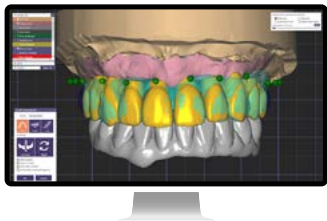
# Work Process.



- 01. Fast Turnaround
- 02. Quality Work
- 03. Technical Support

## 1 STL File + Milling

Sending STL File.



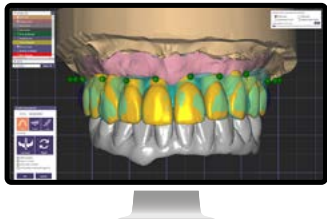
Order by 11 a.m.

Same day Dispatch

Milling

## 2 STL File + 3D Metal Printing

Sending STL File.



Order by 10 a.m.

Same day Dispatch

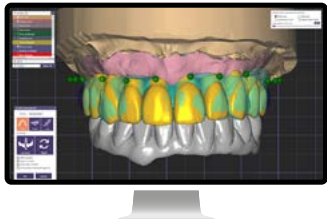
3D Metal Printing

## 3 Design + Milling or Design + 3D Metal Printing

Sending Models.



+



48-hr Dispatch

Milling / 3D Metal Printing



QC Check

Pack & Ship



# DESIGN + MILLING SERVICE

48hr Dispatch



## 1. Sending us your model

Send us your model with an order form **before 5 PM**. If it is **over 6-unit**, please send model with **denture setup or wax-up**.



## 2. Model scan

Scan the working model by using ARUM 3D scanner and ARUM scanbody. This stage is very important in order to get the best results.



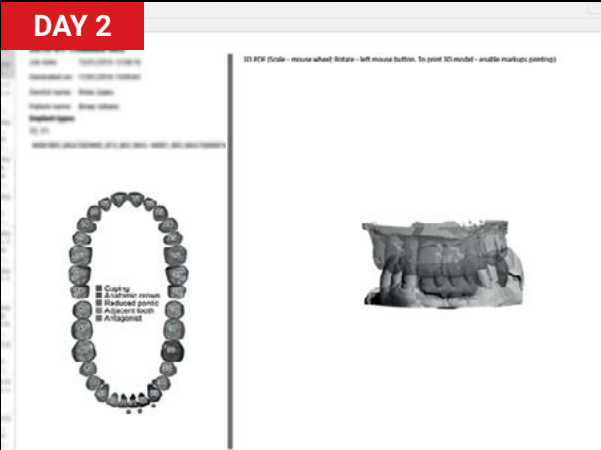
## 3. Designing

Design the dental restoration digitally with CAD software by experienced dental technicians.



## 4. Sending you design files

After designing, we will send design files of your job for confirmation the next day **before 10 AM**.



## 5. Design confirmation

Confirm our design approval email before milling stage. Please accept it or notify us anything further **by 11 AM**. If not, dispatch date will be delayed.



## 6. Milling

Once it is confirmed, we will mill the restoration using our state of the milling machines and Metal, Zirconia, PMMA, PEEK, Composite, etc., achieving high fidelity.



## 7. QC Check

Our experienced senior dental technicians check the final quality control.



## 8. Packing & Shipping

Pack your jobs carefully with an order slip, then ship to you with a trackable express courier service.



# Bar Total Solutions at Hoil Dental.

Fixed  
Prosthetics

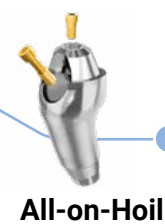
Removable  
Prosthetics

Complex  
Case

(up to 50°  
Angulation)

Additional  
Bar Options

ONLY AT  
HOIL



## Anatomic Bridge

p.40



**Ti, Co-Cr** Titanium Nitride Coating  
**Zir** On Ti-base

## Hybrid Abutment Bar (Toronto bar, Thimble crowns bar)

p.41



**Ti, Co-Cr** Titanium Nitride Coating  
**Zir, PEEK** On Ti-base

## Basic Implant Bar for Denture (wrap around)

p.42



**Ti, Co-Cr (Wrap around)** Titanium Nitride Coating  
**PEEK (Wrap around)** On Ti-base

## Snap-In Implant Bar

p.41



**Dolder Rigid**  
(Macro 2.2mm, Micro 1.6mm)  **Ti, Co-Cr**  
Titanium Nitride Coating  
**Dolder Resilient**  
(Macro 2.2mm, Micro 1.6mm)  **Ti, Co-Cr**  
Titanium Nitride Coating

## Basic Implant Bar for Removable Denture (primary bar)

p.42-43



**One-piece Locator Bar**  
**Ti, Co-Cr**  
Titanium Nitride Coating

p.50



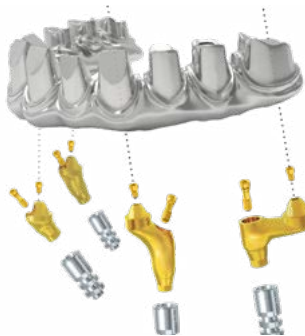
**Bar with threads for  
Locator attachments**  
**Ti, Co-Cr**  
Titanium Nitride Coating

## Basic Implant Bar for Secondary Structure (primary bar)

p.42-43



**Ti, Co-Cr** Titanium Nitride Coating/ Surveyor milling  
**Zir, PMMA, PEEK** secondary structure  
+ (for cementation)



p.15 / p.39

All type of bars available

p.43



**Aluminium Bar**  
(for implant verification Jig)

p.43



**Co-Cr Secondary Bar**  
(SLM Co-Cr)

# Bar Usability Guide. (1/3)

## HYBRID ABUTMENT BAR (TORONTO BAR, THIMBLE CROWNS BAR)



### Titanium

- Provides support for individual crowns, cemented on the bar. The gingiva area is built up in pink composite. Can be with polished metal on the lingual/bottom aspect.
- Allows Titanium Nitride Coating, composite opaque.
- High aesthetics.

### Co-Cr

- Provides support for individual crowns, cemented on the bar. The gingiva area is built up in pink composite or porcelain. Can be with polished metal on the lingual/bottom aspect.
- Allows Titanium Nitride Coating, composite opaque, porcelain opaque.
- High aesthetics.

### PEEK (on Ti-base)

- Provides support for individual crowns, cemented on the bar. The gingiva area is built up in pink composite. Can be with glazed/polished frame surface on the lingual/bottom aspect.
- Allows composite work directly on the frame, no need of masking dark surface.
- High aesthetics, light.

### Zirconia (on Ti-base)

- Provides support for individual crowns, cemented on the bar. The gingiva area is directly layered with pink porcelain or stain/glaze. Can be with glazed/polished frame surface on the lingual/bottom aspect.
- Allows porcelain work directly on the frame, no need of masking dark surface.
- High aesthetics, same material as the crowns.



## BASIC IMPLANT BAR FOR DENTURE (WRAP AROUND)



### Titanium

- Provides a frame to support the acrylic/composite wrap around work. Can be with polished metal on the lingual/bottom aspect.
- Suitable screw retained solutions with enough space to accommodate that bar.
- Allows Titanium Nitride Coating, composite opaque.
- High aesthetics, high stability, the lowest price option.

### Co-Cr

- Provides a frame to support the acrylic/composite wrap around work. Can be with polished metal on the lingual/bottom aspect.
- Suitable screw retained solutions with enough space to accommodate that bar.
- Allows Titanium Nitride Coating, composite opaque, porcelain opaque.
- High aesthetics, high stability.

### PEEK (on Ti-base)

- Provides a frame to support the acrylic/composite wrap around work. Can be with glazed/polished frame surface on the lingual/bottom aspect.
- Suitable screw retained solutions with enough space to accommodate that bar.
- Allows composite work directly on the frame, no need of masking dark surface.
- High aesthetics, light.



# Bar Usability Guide. (2/3)

## BASIC IMPLANT BAR FOR SECONDARY STRUCTURE (PRIMARY BAR)



- Ti primary bar for secondary Zir, PMMA, PEEK structure
- Provides a frame to support the Zir, PMMA, PEEK structure, that is being cemented in the bar. Can be with polished metal on the lingual/bottom aspect.
  - Suitable screw retained solutions with enough space to accommodate that bar. The bar is providing the strength support for the secondary structure and ensures the passive fit. It eliminates the risk of zirconia breaking due to non-passive fit.
  - Allows Titanium Nitride Coating, surveyor hand milling available.
  - High aesthetics, high stability.

Zir secondary structure

- One material for the teeth and the gingiva. Perfect for final restoration.

PMMA secondary structure

- One material for the teeth and the gingiva. Perfect for final and long-term restoration.

PEEK secondary structure

- Provides perfect bond for denture teeth and teeth and the gingiva material. Perfect for final restoration.

Co-Cr

- Milling available for primary bar for secondary Zir, PMMA, PEEK structure.



## SNAP-IN IMPLANT BAR FOR REMOVABLE DENTURE



- Titanium
- Dolder Rigid - macro and micro sizes**
- Provides support for removable dentures. The retention is provided by various components (clips, riders) with various strength.
  - Suitable for limited space situations. Perfect solution when screw retained is not possible, and when the implants/MUA are visible (the denture is covering the metal from view).
  - Allows Titanium Nitride Coating.
  - High hygiene, high stability.

- Dolder Resilient - macro and micro sizes**
- Provides support for removable dentures. The retention is provided by various components (riders) with various strength. Allows the denture to have movement on the lingual / buccal axis.
  - Suitable for limited space situations. Perfect solution when screw retained is not possible, and when the implants/MUA are visible (the denture is covering the metal from view).
  - Allows Titanium Nitride Coating.
  - High hygiene, high flexibility.

Co-Cr

- Milling available by request.

# Bar Usability Guide. (3/3)

## BASIC IMPLANT BAR FOR REMOVABLE DENTURE (PRIMARY BAR)



### Titanium

#### Bar with threads for Locator attachments

- Provides support for removable dentures. The retention is provided by Locators that are screws on the bar.
- Perfect solution when screw retained is not possible, and when the implants/MUA are visible (the denture is covering the metal from view). Requires enough space to accommodate the bar with the locators and the secondary sleeve if required.
- Allows Titanium Nitride Coating.
- High hygiene, high stability.



#### One-piece Locator Bar

- Provides support for removable dentures. The retention is provided by Locators that are milled together with the bar.
- Perfect solution when screw retained is not possible, and when the implants/MUA are visible (the denture is covering the metal from view). Requires enough space to accommodate the bar with the locators and the secondary sleeve if required. Provides more versatility regarding the locators position.
- Allows Titanium Nitride Coating.
- High hygiene, high stability with 0% risk of breakage, cheaper than the Bar with threads for Locator attachments.

### Co-Cr

- Milling available for both Locator bars.



+



+



+



FREE for all bars

Inc. FREE i-ON Screw

## ALUMINIUM BAR FOR IMPLANT VERIFICATION JIG



- Verification of the plaster model.
- Verification of the printed model.
- Verification of the intraoral scan.
- Checking the insertion for diverging implants.
- Can be used for location jig (for analogue repositioning).

## CO-CR SECONDARY BAR



- Provides support for the removable denture.
- Allows using attachment and various degrees of friction for the retention on the primary bar.
- SLM manufacturing.

## ANATOMIC BRIDGE



### Titanium

- Anatomically designed framework in Titanium for composite, ceramic build-up.

### Co-Cr

- Anatomically designed framework in Cobalt Chrome for composite, ceramic build-up.

### Zirconia (on Ti-base)

- Allows porcelain work directly on the frame, no need of masking dark surface.
- High aesthetics, same material as the crowns.





Dear Valued Customers,

Hope all is well with you.

We are always striving to provide you with the best products and services while ensuring value for your investment. As part of our ongoing efforts to maximise benefits for our customers, we have actively pursued various initiatives aimed at improving productivity and reducing costs through R&D throughout the past year.

As a result of these efforts, at a time when many are raising prices, we are delighted to announce another significant decision to lower our prices.

Even in these challenging times, Hoil Dental is committed to more than just adjusting our pricing policies based on market trends and economic conditions, unlike some of our competitors. Instead, we thoroughly analyse, evaluate, and implement solutions to determine what efforts we can genuinely undertake to benefit our customers. We always have specific goals in our plan to enable our customers to enjoy the benefits of our investment in equipment and improved productivity.

The changes will be applied from **1st of January 2024** and you will see these automatically applied to the invoices from this date onwards.

Product	Price	2024 New Price	Price Down	Rate
Ti Custom abutment (*Offered)	£54.95	£47.95	£7.00	13% ↓
Ti Basic Bar	£270.00	£230.00	£40.00	15% ↓
Ti Hybrid Bar	£550.00	£430.00	£120.00	22% ↓
Co-Cr Basic Bar	£340 - £810	£340.00	Max £470.00	Max 58% ↓
Co-Cr Hybrid Bar	£700 - £1,125	£600.00	Max £525.00	Max 47% ↓

We aim to relieve our customers from unnecessary individual investments and associated risks, allowing them to operate their businesses more efficiently. We will continue to strive for this goal.

Thank you very much for your support.

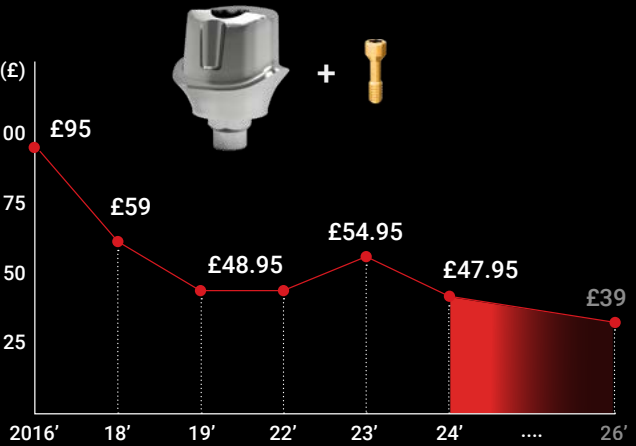
Sincerely,  
Hoil Dental Milling Centre Team

# ELEVATING VALUE, LOWERING PRICE

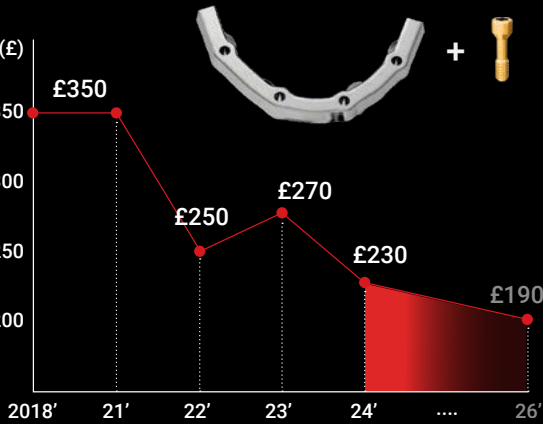


During our board meeting, we decided to implement a price reduction strategy for the next few years, emphasising our commitment to delivering premium quality while enhancing affordability for our UK customers through the development of an automation system.

Our goal is to provide customers with the assurance to utilise our services without concerns about pricing, empowering them to ultimately deliver the highest quality to their patients.



Custom abutment milling  
target price



Basic bar milling  
target price

# 2024

## Service Price List








### Free i-ON Screw for Your Milling Order only at HOIL DENTAL.

Hoil Dental is proud to offer screws with pioneering Titanium Nitride Coating for your milling orders, setting new standards in the dental milling industry.

- 1. **Significantly Reducing the Risk of Screw Fracture:** **Nanohardness** at least **x 5**, **Elasticity** at least **x 3** more than uncoated.
- 2. **Significantly Prevents Screw Loosening:** by reducing the coefficient of friction.
- 3. **Enhanced Antibacterial Properties:** Titanium Nitride Coating provides screws with an anti-bacterial gold coating, reducing bacterial adhesion and promoting oral hygiene.
- 4. **Improved Durability:** The coating results in an extremely resistant surface, reducing wear and enhancing screw retention, ensuring long-term stability.


# Metal Materials.

Milling Service	STL File Entry
	<div>Titanium Custom Abutment Inc. Screws <i>Applied for 'offer' implant systems</i></div>
	<div>Hoil i-ON Abutment Inc. Screws <i>Applied for 'offer' implant systems</i></div>
	<div>Titanium Custom Abutment <i>from Disc Milling</i> Inc. Screws</div> <div><div>1. Non-engaging</div><div>2. Designed by using the other library (non Hoil Dental library)</div><div>3. Angled screw channel</div><div>4. Exceptional implant connections</div></div>
	<div>Co-Cr Screw Retained Abutment Inc. Screws</div>
	<div>All on Hoil - Multi Convertible Abutment (Each) Inc. 2 Screws + Thread Milling + Scan + Design</div> <div><div>Opt. 1 - Free angle adjustment up to 50 degrees</div><div>Opt. 2 - Adjustable gingival height &amp; compression</div><div>Opt. 3 - Adjustable multi-connection position</div></div>



Hoil Premium Medical Nitride Coating

Titanium Nitride Coating technology serves to prevent framework contamination, significantly boosting **surface strength by 5 times** and extending **fatigue life by 3 times** compared to uncoated surfaces, as well as enhancing the products with an excellent quality finish.



Case

Single Abutment (Ti, Co-Cr)

Coping and Crown (Ti, Co-Cr)

Implant Bar  
(Anatomic bridge, Hybrid bar, Snap-in bar, Basic bar)





Milling Service



**Titanium One-piece Locator Abutment**  
Inc. Screws & LOC Retention Kit




**Co-Cr One-piece Locator Abutment**  
Inc. Screws & LOC Retention Kit

STL File Entry

	Titanium Coping	Titanium Coping Single
		Titanium Coping Bridge
	Co-Cr Coping	Co-Cr Coping Single
		Co-Cr Coping Bridge
	Titanium Anatomic Bridge	Pontic Position
	Anatomically designed framework in Titanium for composite, ceramic build-up Inc. Screws	Implant Position
	Co-Cr Anatomic Bridge	Pontic Position
	Anatomically designed framework in Cobalt Chrome for composite, ceramic build-up Inc. Screws	Implant Position

Milling Service

STL File Entry

	Titanium Hybrid Abutment Bar Inc. Screws	3 implants
		4 implants
		5 implants
		6 implants
		7 implants
		8 implants
	Co-Cr Hybrid Abutment Bar Inc. Screws	9 implants
		3 implants
		4 implants
		5 implants
		6 implants
		7 implants
	Titanium Snap-In Implant Bar for removable prosthetics Inc. Screws without Clips	8 implants
		2 implants
		3 implants
		4 implants
		5 implants
		6 implants
		7 implants
		8 implants

Design Service Entry

We are offering design service **from single unit to full arch**. If it is more than 6 units, please send us the model with denture setup or wax-up. After designing, we will send you confirmation email.

Implant Case




Case
Implant position (per unit)
Pontic position (per unit)

Non-Implant Case

Case
Per unit




Milling Service

STL File Entry

 <p><b>Titanium Basic Implant Bar for denture</b> Inc. Screws</p>	2 implants
	3 implants
	4 implants
	5 implants
	6 implants
	7 implants
	8 implants
	 <p><b>Titanium One-piece Locator Bar</b> Inc. Screws &amp; LOC Retention Kit</p>
3 implants	
4 implants	
5 implants	
6 implants	
7 implants	
8 implants	
 <p><b>Co-Cr Basic Implant Bar for denture</b> Inc. Screws</p>	
	3 implants
	4 implants
	5 implants
	6 implants
	7 implants
	8 implants








Milling Service

STL File Entry

 <p><b>Co-Cr One-piece Locator Bar</b> Inc. Screws &amp; LOC Retention Kit</p>	2 implants
	3 implants
	4 implants
	5 implants
	6 implants
	7 implants
	8 implants
	 <p><b>Secondary Bar</b></p>
Co-Cr	
 <p><b>Aluminium Bar for implant verification Jig: Up to 4 implant positions</b> Inc. Screws</p>	Additional implant position Inc. Screws









# SLM Metal Printing.

Printing Service	STL File Entry	
 	<b>Co-Cr Screw Retained Abutment</b> Inc. Screws <i>Only Try In</i>	
 	<b>Co-Cr Screw Retained Anatomic Bridge</b> Inc. Screws <i>Only Try In</i>	Implant Position
		Pontic Position
	<b>Co-Cr Coping</b> Cement Retained	SLM Non-precious Single
		SLM Non-precious Bridge up to 16 units
	<b>Co-Cr Full Crown</b> Cement Retained	Single
		Bridge up to 16 units
	<b>SLM Single / i-ON Partial Framework</b>	Upper
		Lower

## Design Service Entry




Implant Case	Non-Implant Case
Case	Case
Implant position (per unit)	Per unit
Pontic position (per unit)	
<b>Denture</b>	
SLM Denture Framework	
Co-Cr Secondary Structure	

Printing Service	STL File Entry	
 	<b>Co-Cr Verification Jig</b> Inc. Screws <i>Only Try In</i>	Up to 4 implants
		5 implants
		6 implants
		7 implants
		8 implants
	<b>Co-Cr Secondary Structure</b>	
	<b>Co-Cr Dental Post</b>	
	<b>Polishing</b>	
	<b>Gold Coating</b>	

# Soft Materials.

## Milling Service

## STL File Entry

	<b>Single or Up to 6 Unit Bridge</b> Zirconia	Zr-I
		Supreme Symphony
		Smile Symphony
		Hyperion
	<b>7 or More Unit Bridge</b> Zirconia	Zr-I
		Supreme Symphony
		Hyperion
	<b>Zirconia Hybrid Abutment Bar</b> excl. Ti-base	3 implants
		4 implants
		5 implants
		6 implants
		7 implants
		8 implants
		9 implants

## Design Service Entry

We are offering design service **from single unit to full arch**. If it is more than 6 units, please send us the model with denture setup or wax-up. After designing, we will send you confirmation email.

### Implant Case






Case
Implant position (per unit)
Pontic position (per unit)

### Non-Implant Case

Case	Scan + Design	Design
Per unit		

## Milling Service

## STL File Entry

	<b>PEEK Hybrid Bar + Anatomically designed framework</b> Inc. Ti-base	Pontic Position
		Implant Position
	<b>PMMA</b>	Multi-Layer PMMA Temporary Crown
		Multi-Layer PMMA Temporary Crown Bridge
	<b>Composite Crown</b>	Composite Crown
		Composite Crown Bridge
	<b>Pink Painting of the Zirconia</b>	
	<b>PEEK Partial Denture</b> Inc. Design	Upper
		Lower



# 3D Printing.

Printing Service

STL File Entry



Designing for Model Print



3D Printed Partial Arch

Upper

Lower



3D Printed Full Arch

Upper

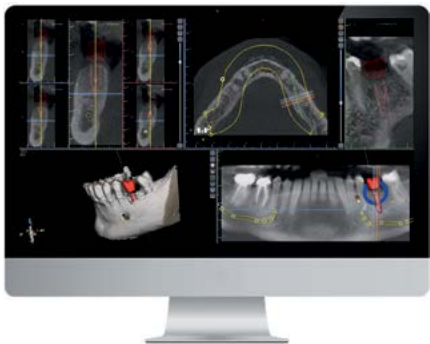
Lower



3D Printed Gum per Unit



3D Printed Single Die per Unit



Printing Service

STL File Entry



Surgical Guide Partial Arch  
Inc. Design  
without Metal Sleeve

1 implant

2 implants

3 implants

4 implants



Surgical Guide Full Arch  
Inc. Design  
without Metal Sleeve

Up to 4 implants

5 implants

6 implants

7 implants






8 implants





9 implants



Surgical Guide Sleeves  
Prices may vary

# Additional Service.

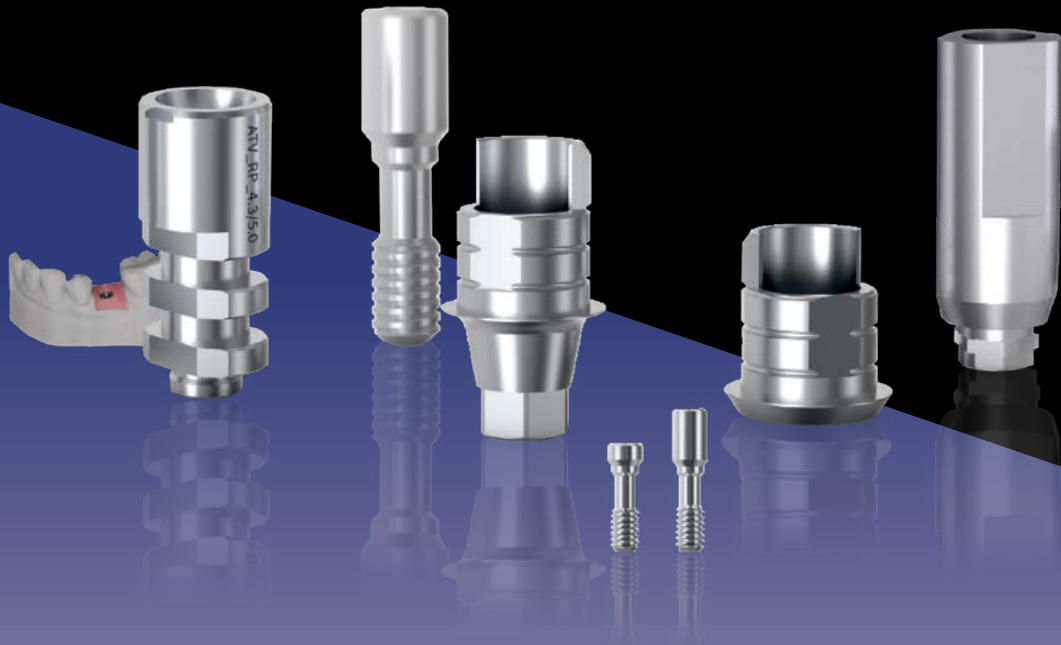
Additional Service	STL File Entry
<div></div> <div>Angulated Screw Channel for Metal Work</div> <div></div> <div>Angulated Screw Channel for Zirconia Work</div>	
<div></div> <div>Thread Milling for Bar</div>	
<div></div> <div>One-piece Locator (Customs Locator) Inc. LOC Retention Kit</div>	
<div></div> <div>Locator</div>	LOC Bar Attachment
<div></div>	LOC Retention Kit up to 20°

Additional Service	STL File Entry
<div></div> <div>Polishing</div>	
<div></div> <div>Laser Welding for Co-Cr and Titanium (Each welding)</div>	
<div></div> <div>Surveyor Hand Milling</div> <div>Metal milling process only from model</div> <div>Metal Bar + Zirconia Bar full package milling process from model</div> <div>* Please send us the model, this service is available when we start from scan and design.</div>	
<div></div> <div>i-ON Screw</div>	



# Hoil Dental Shop







The largest consumable system range in the world  
with the exceptional quality.



## Try Our Implant Prosthetic Components

[www.hoildentalshop.com](http://www.hoildentalshop.com)

# Consumables.

Consumables	Single	Pack
 <p><b>Digital Analog</b> 500+ free library setup Stone / 3D printed model</p>	£10.00	Pack of 10 £79.95 (£7.99 per each)
 <p><b>Screw</b> Raw Material: Ti 6Al-4V ELI (Grade 5) Same as the original screw design</p>	£8.85	Pack of 10 £69.54 (£6.95 per each)
 <p><b>Intraoral / Model Scanbody</b> 830+ free library setup by remote support</p>	£25.00	Pack of 5 £120.00 (£24.00 per each)
 <p><b>Angled Ti-base</b> Raw Material: Ti 6Al-4V ELI (Grade 5) Inc. 2 screws - Straight &amp; angled screw</p> <ul style="list-style-type: none"><li>Up to 500+ Implant connections</li><li>2 screws straight / angulated - using in 2 ways</li><li>Straight screws design same as original</li></ul>	£29.95	 Straight Screw Same as original screw design  Angled Screw

VAT. Excluded.







Hoil iPen Lab Driver (NEW)

Screw Driver Tips: 830+ Implant system available  
Analog Insertion Tips: 810+ Implant system available  
For the detail guidance of iPen tips, please visit our online shop, [www.hoidentalshop.com](http://www.hoidentalshop.com).





Scan for the full 830+ system!













iPen Lab Driver	Price
 iPen Base	£38.00
 iPen Handle	£32.00
 Driver Tip	£26.00
 Analog Tip	£26.00

VAT. Excluded.

For the detail guidance of Clinical driver, please visit our online shop, [www.hoidentalshop.com](http://www.hoidentalshop.com).

Type	Implant System	Recommend Torque
 Hex	1. Some of angled screws of ARUM Ti-Base (screw head size is less than 2.1mm) 2. ARUM Scanbody Screw	15 Ncm
 Torx	1. Most of angled screws of ARUM Ti-Base (screw head size is more than 2.1mm) 2. All implant system for disk angulated screw channels	15 Ncm

Clinical Ball Screw Driver	Price
  Driver Ball Hex - 15mm Ti-base Angled Screw / Scanbody	£32.00
  Driver Ball Hex - 22mm Ti-base Angled Screw / Scanbody	£32.00
  Driver Ball Torx - 15mm Ti-base Angled Screw / Angled Milling Screw	£25.00
  Driver Ball Torx - 22mm Ti-base Angled Screw / Angled Milling Screw	£32.00
  Driver Tip Ball Hex - 25mm Ti-base Angled Screw / Scanbody	£25.00
  Driver Tip Ball Torx - 25mm Ti-base Angled Screw / Angled Milling Screw	£25.00

VAT. Excluded.

# Available Milling Implant System.

**A series** compatible with

ADIN® CLOSEFIT™/ TOUAREG™ S&OS / Multi-Unit®  
ALPHA-BIO TEC® Internal Hex / CONCIAL / Multi-Unit®  
ANTHOGYR® Axiom® BL / Axiom® TL / AnthoFit® OI / Multi-Unit®  
ASTRA TECH™ OsseoSpeed™ / EV™ / EV™ PROFILE / Multi-Unit® / EV™ Multi-Base  
AVINENT® OCEAN

**B series** compatible with

B&B DENTAL Conexa® / Multi-Unit®  
BEGO® Internal / Multi-Unit®  
BICON®  
BIO3 CONICAL® Conical Connection  
BIO COMP DENTAL INTERNAL HEX / Multi-Unit®  
BIOHORIZONS® External® / Internal® / Multi-Unit®  
BIOMET 3i® External® / Certain® / Multi-Unit®  
BIONER IMPLANT  
BIOTECH® BIS 3.6 EXTERNAL / BIS Octagone Interne / Kontakt / Multi-Unit®  
BrainBase Corporation® MYTIS® Arrow Implant  
BREDENT Medical SKY® / Copa SKY® / Multi-Unit®  
BTI® INTERNA® / EXTERNA® / Multi-Unit®  
BTK® Multi-Unit®

**C series** compatible with

CAMLOG® CAMLOG® / Multi / iSy®  
CONELOG® CONELOG® / Multi  
CHAMPION Multi  
CLC conic™  
CONEXAO® HI  
CORTEX® CORTEX® / Multi-Unit®  
CORVENT Internal Hex  
COWELLMEDI® INNO Internal  
C-TECH® Bone level / Esthetic Line / Multi-Unit

**D series** compatible with

DEEP®  
DENTIS® s-clean / i-clean / Save / Multi-Unit®  
DENTAURUM® TIO  
DENTIUM® SuperLine / SimpleLine / NR LINE / Multi-Unit®  
DENTSPLY® Ankylos® / Ankylos® Blance base / Xive® / Xive® Multi-Unit®  
DIO® SM / SS / UF / UF Multi-Unit  
DYNA® PUSHIN Octalock®

**E series** compatible with

EBI®  
EDISON MEDICAL® Clicq Multi-Unit®  
EUROTEKNIKA™ Aesthetica / Naturactis/Naturall+/Natea+ / Multi-Unit

**G series** compatible with

GC Aadva™  
Global D® Tekka® In-kone / Multi-Unit®

**H series** compatible with

HIOSSEN® ET / SS / Multi-Unit  
HumanTech RATIO®

**I series** compatible with

IPD Multi-Unit  
IMPLANT DIRECT® Legacy™/ InterActive™/ Swish Active™/ Swish Plus™/ Tri-Lobe™/ Multi-Unit®  
IMPLANT SWISS® Bone Level / Multi-Unit 4.8  
INTRA LOCK GOLD & BLUE  
iRES® Internal Hex 2.5mm / Internal Octa Tissue / Multi-Unit

**J series** compatible with

J DENTAL CARE® JD Evolution® / JD Evolution® Plus+ / JD Icon® / JD Icon® Plus+ / JD OCTA® / Multi-Unit

We are updating the available implant list every month.  
To get the most resent version of implant list, please visit our website, [www.hoildental.com](http://www.hoildental.com).

**K series** compatible with

KENTEC®  
KEYSTONE® Prima Connex®  
KYOCERA® FINESIA® Bone Level / Poiox

**L series** compatible with

LASAK Bioniq® / Multi-Unit  
LEADER Italia® Mores Connection

**M series** compatible with

Medentis Medical® ICX® Active Master / ICX® / ICX® Multi-Unit  
MEGAGEN® Anyridge / AnyONE / Exfell / EZ Plus / MINI / MegaFix / RESCUE / Multi-Unit®  
MIS® C1 / V3 / Internal Hexagon / Multi-Unit / Multi-Unit (New)  
MSDI Alef-Spiral Internal Hex

**N series** compatible with

NEOBIOTECH® IS SYSTEM / IT SYSTEM / IS ACTIVE SCRP  
NEODENT® CM / GM / External / CM Conical / GM Conical  
NEOSS Pro Active® / Access®  
NOBEL BIO CARE® Active™ / Branemark® / Replace Select™ / Multi-Unit™ / Multi-Unit™ AESTHETIC/ N1™  
NORIS® INTERNA HEX / Multi-Unit  
NUCLE® OSS T6 BONELEVEL

**O series** compatible with

OSSTEM® GS(TS) / SS / SS OCTA Multi-Unit / US / Multi-Unit  
OSTEOCARE Internal Hex  
OXY IMPLANT® K1 LINE / PSK  
OXY K1 LINE / PSK Multi-Unit  
OXY FIXO Multi-Unit

**P series** compatible with

PALTOP® INTERNAL HEX / Multi-Unit  
PHIBO® TSH  
PLATON® PL-SUB

**Q series** compatible with

Q IMPLANT® QZA

**R series** compatible with

REX Piezol Implant TL 1.8 External / Multi-Unit

**S series** compatible with

SGS DENTAL® INTERNAL HEXAGON / Multi-Unit  
SHINHUNG® LUNA  
SIC Invent® / Multi-Unit®  
SIN® INTERNAL  
SNUCONE Internal Submerged / Multi-Unit  
SOUTHERN IMPLANTS® DEEP Conical / External / M-Series™/ IT Connection™ / Tri-Nex™ / Multi-Unit®  
STRAUMANN® ANGLE Multi-Unit / BLX® / TLX® / Conical Bone Level® / synOcta® / Screw Retained Abutment® / Multi-Unit®  
Sweden&Martina® CSR / Prama / Shelta / Premium Straight/SP Premium Kohno / Premium One / P.A.D.r Multi-Unit

**T series** compatible with

THOMMEN SPI®  
TITANIUM FIX EXTERNA  
TISMART2®  
TRATE® Internal / Multi-Unit  
TRI® Narrow / Octa / Vent / Multi-Unit

**W series** compatible with

WARANTEC® Oneplant

**Z series** compatible with

ZIACOM® ZIACOM® / External  
ZIMMER® Eztetic™ / Swiss Plus™/ Spline™ A / Spline™ B / Paragon™/ Tapered Screw-Vent® / Universal Abutment Multi-Unit / Tapered Screw-Vent® Multi-unit

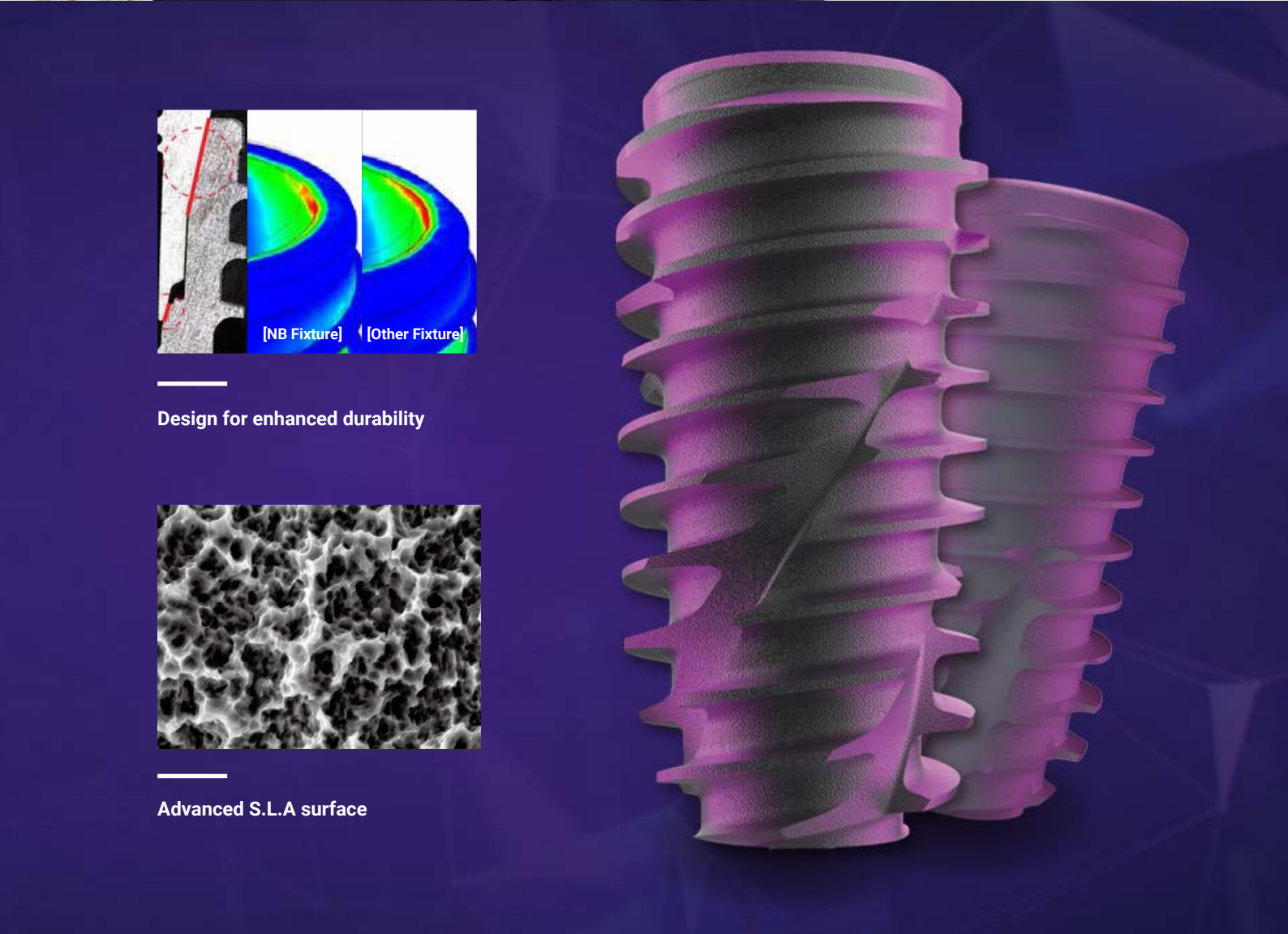
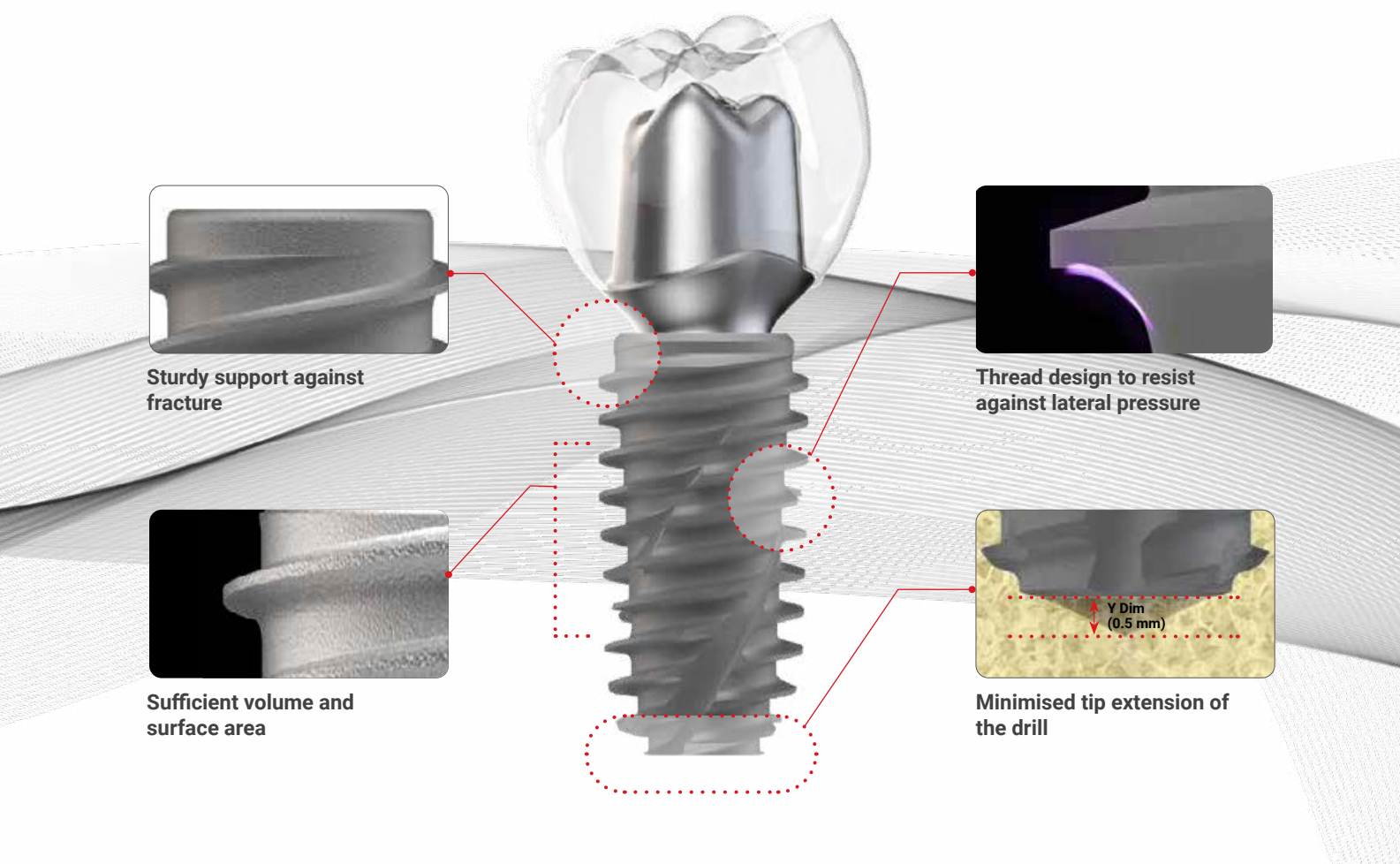


# ARUM NB Implant System.



Building on our technical expertise and know-how, which have enabled us to successfully process approximately 300,000 milling cases over the past 8 years without a single failure, **we are excited to announce the upcoming launch of ARUM in-house developed implant system, the ARUM NB Implant, in the 4th quarter of 2024.** Our commitment to innovation drives our continuous growth, pushing us beyond boundaries to establish new standards.

## Features of Implants





**Impossible = I<sup>3</sup> m possible.**

## **Hoil Dental Milling Centre**

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info@hoildental.com

**Website :**

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[www.hoildentalshop.com](http://www.hoildentalshop.com)

