



CAD/CAM

D I G I T A L W O R K F L O W - S I M P L I F I E D



Simplify and streamline the complex process of fabricating restorations.



Scan Abutments.

3D bio-positioning pyramid allows
multi directional insertion

No scan powder necessary

Radio-opaque base to insure proper
seating

Easy placement secured by split pin.
No need for additional screw



Scan body optimized for intra-
oral and desktop scanner

Biocompatible peek cap

Titanium base (Ti-6Al-4V ELI)

Anti-rotational 2.45mm hex



The scan abutments are the first step in the digital work flow. The Ditron scan abutment is an impression post which can be used (intra-orally or by desktop scanner) to digitally capture the position to the CAD software. The Ditron scan abutments accurately capture the position, path and rotation, and register the implant position or multi-unit in relation to the remaining teeth and the soft tissue.

The Ditron scan body is firmly placed in the implant or analog via our unique spring pin for easy and accurate handling. The registered digital information is used to fabricate individual abutments, crown and bridge frameworks.

Key Features and Benefits:

- Biocompatible and autoclavable
- Single use scan body, X-ray detectable made of opaque material
- Two components: Titanium scan abutments for accurate long lasting use. Single use scan body with unique geometry for accurate and reliable transfer in CAD software
- Unique spring pin eliminating the need for screw based fixation
- Compatible with all Ditron internal hex implant lines and multi-units
- Compatible with:

exocad

 **dental wings**
coming soon

3shape 
coming soon

sirona
The Dental Company

Scan Abutments

Scan Abutment
Implant Level



SAIM-8201

Scan Abutment for
Multi-Unit Level



SCMU-8202

Ti-Base



Ditron's Ti-Base has a dual function serving as:

- 1. Adaptor** between the CAM manufactured restoration and the implants. For this purpose, a superstructure is glued on to the Titanium base, which can be individually adjusted in line with aesthetic and functional requirements. Depending on the superstructure design, the product glued to the Titanium base can be used as the abutment or a directly bolted crown.
- 2. Scan Body** - used for the digital acquisition of an implant position - The Titanium base is mounted on an implant or laboratory analog with the supplied abutment screw. The Ditron scan cap can be securely mounted and serve as a scan post for the acquisition system.

Each Ditron Ti-Base includes two identical abutment screws, one for laboratory use and one for the final restoration.

Key Features and Benefits:

- Ti-Base integrates a Moleculock™ connection insuring a tight seal between implant and abutment.
- Ti-Base allows the combination of high precision and individually machined superstructure supporting cemented and screw-retained restorations.
- Large glue surface for durable solid connection to the base.
- Supports single tooth (engaged) and bridge (non-engaged) restorations.
- Compatible with wide range of CAD/CAM systems.

exocad



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The Dental Company

Ti-Base

Ti-Base Hexagonal



TBHX-8230

Ti-Base Cylindrical



TBCL-8231

Ti-Base Multi-Unit



TBMU-8235

Scan Body



SBDY-8200

Pre-Milled Blanks

Holder interface for self
alignment and strong grip

Available in 9.0mm & 12.0mm

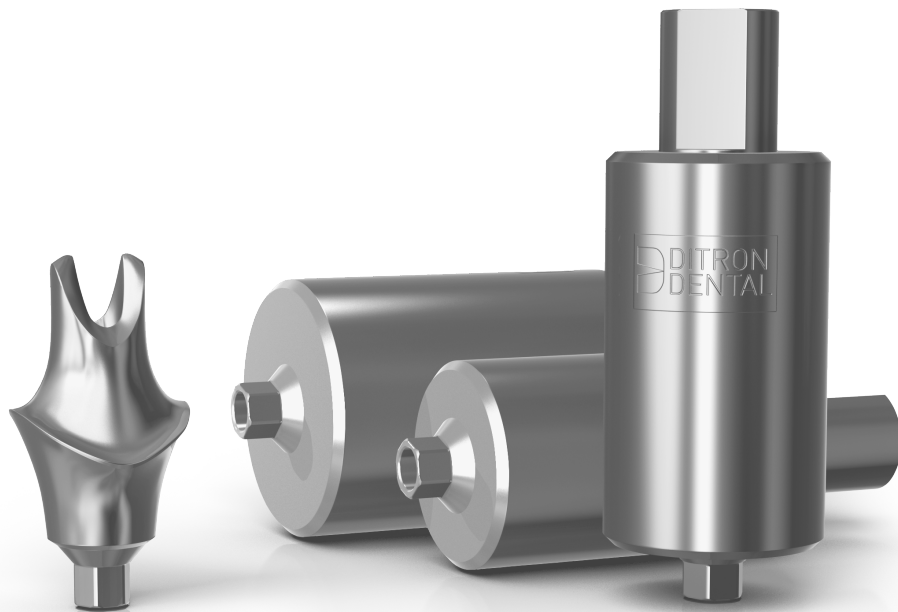
Highly precise pre-fabricated blank



Titanium base (Ti-6Al-4V ELI)

Interface protected in
safety zone during milling

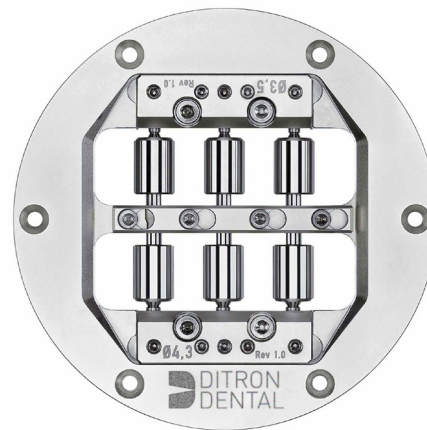
Moleculock™ 2.45mm Hex



Ditron's pre-milled abutment blanks are used to produce original Ditron one-piece customized Titanium abutments with milling equipment. Our pre-milled abutment blanks are used as a raw material for CAM fabrication of a single part (monolithic) Titanium abutment.

Key Features and Benefits:

- Original pre-milled Moleculock™ implant connection. Moleculock™ connection is fabricated with the exact manufacturer's tolerances, insuring a reliable implant-abutment connection.
- Fits nt-holder fixture.
- Available in 9.0mm and 12.0mm diameters.
- Abutment screw is included.



Pre-Milled Blanks

Ti-Blank
Ø9.0mm



BLKT-8220-9

Ti-Blank
Ø12.0mm



BLKT-8220-12

Ti-Blank Multi-Unit
Ø6.0mm



BLKMU-8220-6

Digital Analogs

The Ditron Digital Analog was specifically designed for a 3D printed model. The Digital Analog is an integral part of the fully digital procedure, from intra-oral scanning, to virtual implant planning, placement and digital restoration printing.

Designed with geometry providing optimal precision, the analog ensures exact positioning in a 3D printed model. This leads to accurate restoration planning and simulation.



Key Features and Benefits:

- Implant or multi-unit analog for digital model manufacturing via 3D printer.
- Two-piece design allows reposition of implant or multi-unit analog.
- For model manufacturing in digital workflow.
- Compatible with wide range of CAD/CAM systems.
- Stainless Steel.

exocad

 **dental wings**
10 YEARS
coming soon

3shape 
coming soon

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Digital Analogs

Digital Analog for
Printed Model
Implant Level



IDA-2030

Digital Ananlog for
Printed Model
Multi-Unit Level



MUDA-2040

Digital Analog
Screw



SDA-8040

Guidelines for use

General Terms and Conditions

Technical/Clinical results are subjected to many variants dictated by the different systems and technologies participating in the process. Therefore, strict observance to instructions for use, indications, and technical limitations suggested by all parties involved is crucial for obtaining the required results. The parts are subjected to further development, therefore, we reserve the right to carry out any product modification without prior notice. Dental skills and know how of dental CAD/CAM use are required.

Storage and Handling

The products have to be inspected prior to usage. Devices should be stored at room temperature. Special care should be taken with the handling of the scan bodies to avoid any mechanical damage. Store scan bodies separately to avoid crushing.

Procedural Precautions

All products are provided in a non-sterile condition. Before use, sterilize in an autoclave, subject to the manufacturer's instructions, at a temperature of 132°C or 7 minutes and then dry for another 10 minutes.

Titanium Bases:

- Suggested workflow: Titanium bases act as an adhesive base for manufacturing individual abutments combined with copings, crowns and superstructures made of dental ceramics such as Zirconia.
- Suitable for engaging (single tooth).
- Bases are used for implant level restoration.
- Suitable for use only with matching platform.
- Bases are indicated for single use only, Scan abutments are for multi-use.
- Recommended final restoration closing torque: 30 Ncm when fixing the bases on internal hex connection implants.

Contra-indication:

- Insufficient oral hygiene.
- Insufficient space available.
- Bruxism.
- For restorations with angulation correction of more than 25° to the implant axis.
- For individual tooth restorations with free end saddle.
- For restorations with excessive cantilever.

Scan Abutments

- Made of Titanium, scan abutments are used intra-orally or via desktop scanner to digitally capture the position of the implant.
- A scan abutment should be securely mounted on the implant or multi-unit for scanning.
- Ditron Dental scan abutments are intended for use only with Ditron Dental's Ti-Bases.

Suggested workflow:

1. Scan intra-orally or on your model.
2. For scanning, use Ditron Dental's scan abutments or Ti-Bases and scan body.
3. In your CAD software library, choose Zimmer tapered screw vent 3.5mm platform for internal hex platform. Follow Sirona's standard instructions for CAD design of your restoration. Use standard blocks or the equivalent for milling your abutment.
4. Cement Ditron Dental's original Ti-Base to the milled and sintered block using the manufacturer's cementation instructions.

Product List

Scan Abutments



- Scan Abutment Implant Level.....SAIM-8201
- Scan Abutment for Multi-Unit Level.....SCMU-8202

Pre-Milled Blanks



- Ti-Blank Ø9.0mm.....BLKT-8220-9
- Ti-Blank Ø12.0mm.....BLKT-8220-12
- Ti-Blank Multi-Unit Ø6.0mm.....BLKMU-8220-6

Ti-Base



- Ti-Base Hexagonal.....TBHX-8230
- Ti-Base Cylindrical.....TBCL-8231
- Ti-Base Multi-Unit.....TBMU-8235
- Scan Body.....SBDY-8200

Digital Analogs



- Digital Analog for Printed Model.....IDA-2030
Implant Level
- Digital Analog for Printed Model.....MUDA-2040
Multi-Unit Level
- Digital Analog Screw.....SDA-8040



Ditron Dental Ltd.
P.O.B 5010 Ashkelon 7815001. Israel
Tel: +972.8.6711884
Email: info@ditrondental.com