



CELEBRATING  
**25**  
YEARS

# INTERNAL HEX

Southern Implants introduces state-of-the-art simplicity with the M-Series (Internal Hex) implant and prosthetic range. The implant features an internal hex connection system with a single platform size, simplifying inventory requirements, while incorporating numerous advanced features from leading-edge clinical research.

## Precision connection

The M-Series (Internal Hex) interface offers the benefits of one of the most popular implant connection systems: the internal bevel and the internal hex. The internal hex is precision-machined for maximum rotational stability, and provides excellent tactile sensibility during placement and connection of prosthetic parts.

## Reverse crestal taper

Diameter Ø4.2mm and Ø5.0mm M-Series (Internal Hex) implants feature a 3° reverse-taper on the implant neck. This feature is scientifically proven to ease lateral stresses on the cortical bone, enhancing osseointegration. It has also been reported to assist in maintaining the biologic width, necessary for optimal soft tissue preservation.

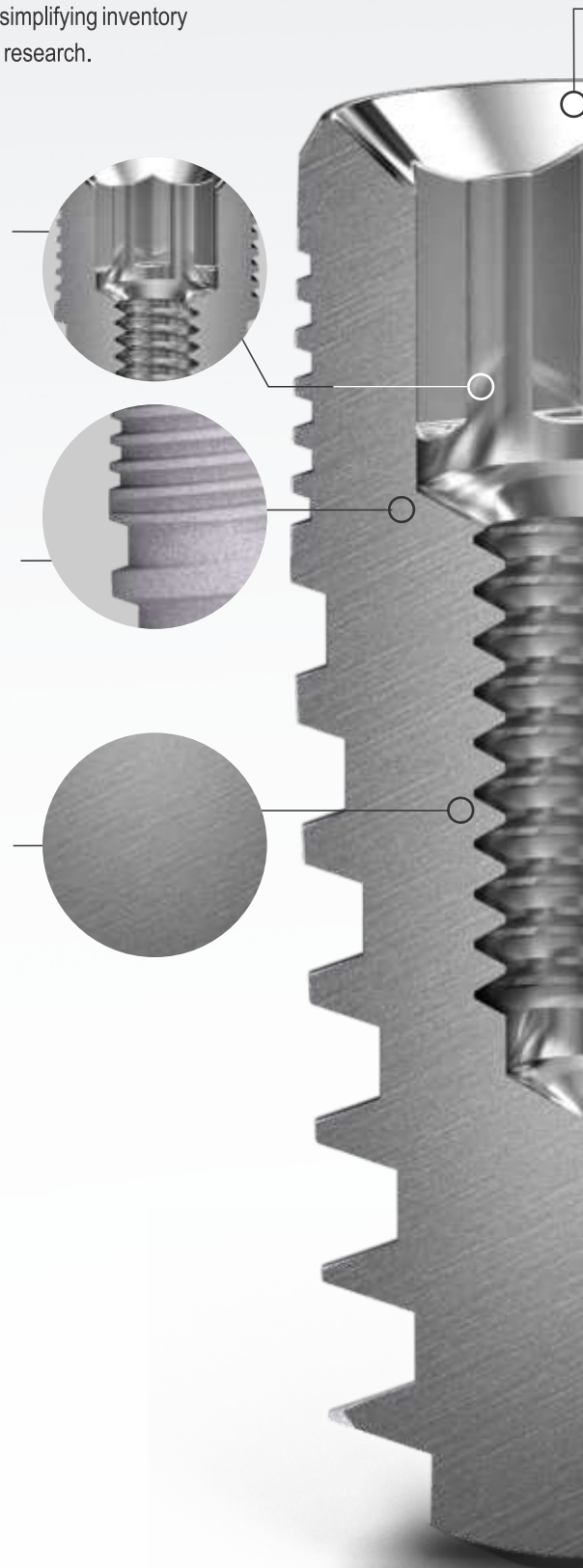
## Material

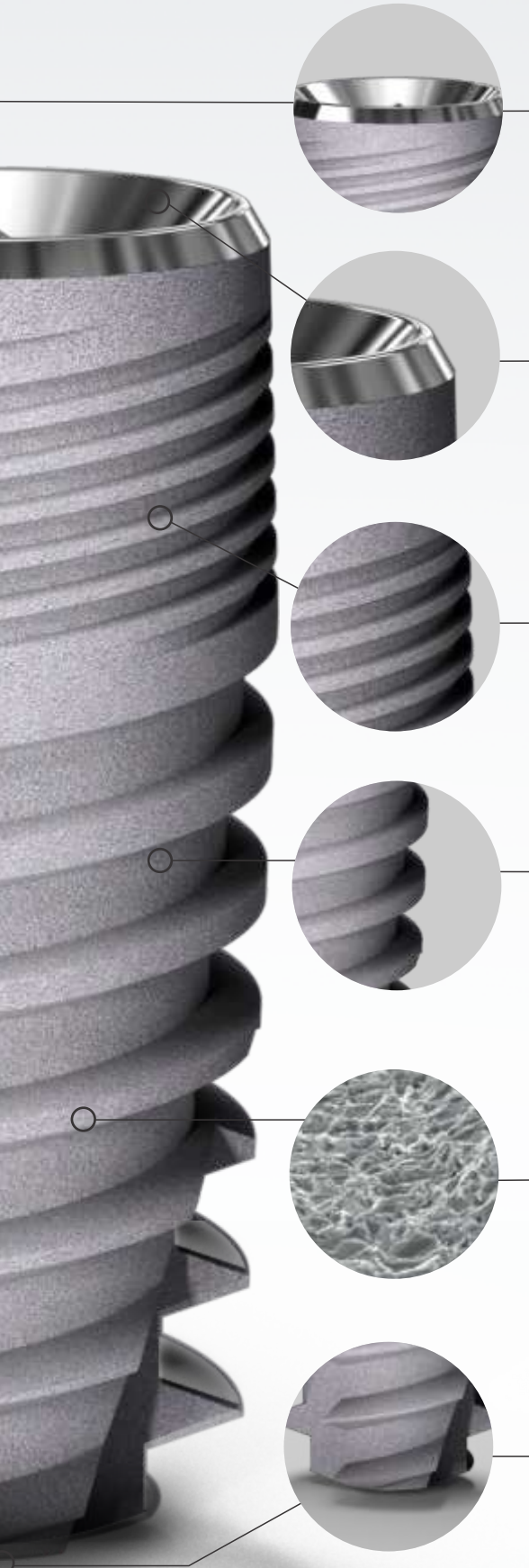
All M-Series (Internal Hex) implants are manufactured from certified Grade 5 titanium alloy (Ti6Al4V), which is the norm for implants with this connection system.

## Co-Axis™



The unique angulated-platform implant design, the Co-Axis, is also available in the M-Series (Internal Hex) range. With a built-in platform angulation of 12°, this design enables tilting of the implant without compromising the prosthetic emergence angle. This results in a greater volume of facial soft tissue and facilitates screw retained prosthetics. The M-Series (Internal Hex) Co-Axis implant is available in diameter Ø4.2mm, supplied with a fixture mount, and requires no other special componentry.





### ▲ **One size platform**

Regardless of its diameter, the diameter 3.75mm to 5.0mm M-Series (Internal Hex) implants feature the same size connection, meaning any abutment will fit any implant. This drastically reduces clinician inventory requirements, and ensures compatibility with a variety of existing tooling.

### ▲ **Smooth collar**

Each implant features a machined-surface collar to minimize plaque and bacterial adhesion to the crest of the implant. The collar is bevelled in the Ø4.2mm and Ø5.0mm implants, providing a built-in platform shift, which enables preservation of the biologic width and further decreases risk of soft tissue recession and peri-implantitis.

### ▲ **Microthreads**

The neck of the implant features microthreads that lead seamlessly into the body thread of the implant. These microthreads maximize bone-implant contact and optimally distribute load in the critical cortical region.

### ▲ **Double start thread**

The body thread of the implants features a double start, enabling a more aggressive thread pitch without compromising bone-implant contact area. This results in higher primary stability, even in soft bone.

### ▲ **Surface**

With 15 years of clinical results, the moderately rough Southern Implants Alumina-blasted surface and chemically conditioned has shown consistently excellent results in both early osseointegration and longevity.

### ▲ **Rounded apex**

All M-Series (Internal Hex) implants feature a domed apex, mitigating the risk of harm to anatomical structures such as the sinus membrane in the maxilla, or the mandibular canal.

## Reduced inventory

Through careful design, the M-Series (Internal Hex) range offers clinicians the freedom to choose the right components for the case, without needing a stockpile of abutments and tools of various sizes. A single connection interface size means that all abutments, copings, analogues and tools guarantee a precise fit with any size implant, reducing inventory.



## Streamlined componentry

With the M-Series (Internal Hex), Southern Implants introduces the ICT, a novel all-in-one abutment that can function as a fixture mount, impression coping and titanium prosthetic cylinder. This versatile component saves both clinician and patient time and money, and further reduces stock requirements.



## Innovative solutions

As with all Southern Implants ranges, the M-Series (Internal Hex) abutment range includes standard components such as cover screws, healing abutments and prosthetic cylinders, as well as a number of innovative prosthetic solutions, designed to overcome commonly encountered restorative challenges.

Passive abutments assist in compensating for misalignments in superstructures, that may be incurred during the prosthetic manufacturing processes. This drastically reduces unwanted stresses induced by prosthetic misfit.

Compact conical abutments allow the elevation of the restorative platform to an equi-gingival level, and conversion of the connection interface to the external cone, which is the most proven abutment interface for bridgework.

Custom abutment bases (CABs) and PEEK scanning flags enable the M-Series (Internal Hex) to be used with most recognized CAD/CAM software packages.

