

SensiTiNTM DM CONVERTER

COBALT-FREE MODULAR DOUBLE MOBILITY



Brochure

Joint

Spine

Sports Med

SensiTiN[®] DM CONVERTER

Instability remains a major challenge and a significant issue for both primary and revision total hip arthroplasties, and **Double Mobility (DM)** devices can provide a viable solution.^[1,2,3]

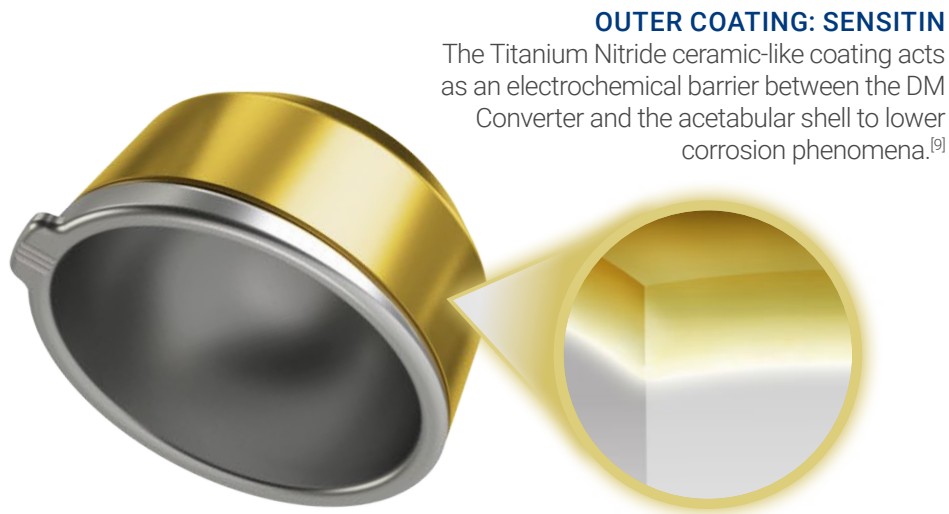
To date, most of the Double Mobility Converters on the market are made of **Cobalt-Chromium alloy**, with several papers reporting **corrosion of the taper connection**.^[4,5]

Medacta's focus on improving the **patient's well-being** through **innovative solutions** has led to the development of the **SensiTiN Double Mobility Converter**, a High Nitrogen Stainless Steel, completely **cobalt-free**, modular DM device with an outer Titanium Nitride coating to **improve corrosion resistance**.



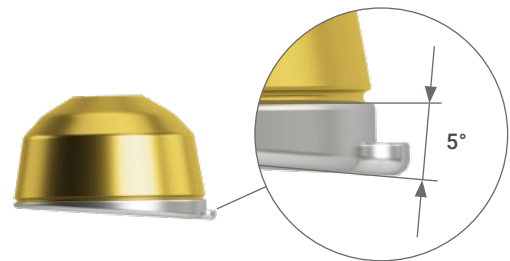
1 ADVANCED MATERIALS

BULK MATERIAL: HIGH NITROGEN STAINLESS STEEL
With over 50 years of successful clinical history in Double Mobility, this bulk material provides for a completely Cobalt-free device, eliminating any potential issues of elevated Cobalt and/or Chromium ion serum levels, which have been shown to cause: soft tissue necrosis, osteolysis and pseudotumor formation.^[6,7,8]



2 OPTIMIZED STABILITY

The **5° raise** provides **185°** of liner coverage, **further increasing the Jumping Distance**, thus **reducing the risk of luxation**.^[9]
The **5° raise** is based on the **successful experience** with Versafitcup DM and Mpcat DM.

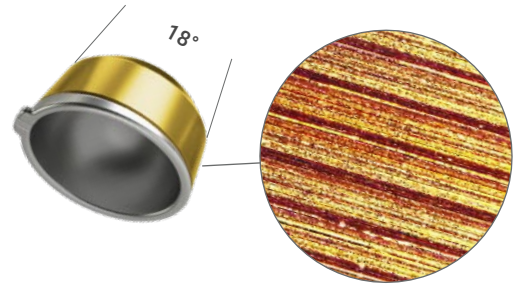


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3 FIRM LOCKING MECHANISM

The effective locking system of the SensiTiN DM Converter liner **minimizes micromotions** at the shell-converter interface^[9] and features:

- An **18° taper**, a **clinically and mechanically proven** connection system widely and successfully used on the market
- Micro-threads on the tapered surface to further increase **converter stability** within the shell



4 EXTENSIVE COMPATIBILITY

The **SensiTiN DM Converter** has been optimized to be **fully compatible** with **all** of the **Medacta fixed-bearing acetabular cups**, further enriching the current Medacta personalized offering.

The **SensiTiN DM Converter** further **expands** the **current Medacta Double Mobility portfolio**, creating a **COMPLETELY COBALT-FREE DM SYSTEM**.

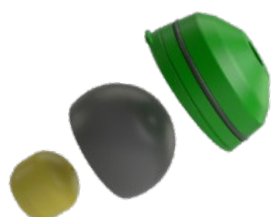
With the **SensiTiN DM Converter**, the surgeon can select the right implant for each specific patient, safely addressing instability and risk of dislocation in a wide range of patients, from primary to revision.



SensiTiN™ DM CONVERTER

SMART INSTRUMENTATION

One tray is enough! To implant the SensiTiN DM Converter, only **one single-level tray** is needed. This tray is combined with each of Medacta's acetabular cup standard sets.



A complete **trial system** is available in any standard set to intraoperatively check for hip stability and length.

A **removal hook**, to easily disengage the DM Converter from the shell, easily connects to the generic multi-function handle for a quick and straightforward liner disengaging procedure.



PERSONALIZED SOLUTIONS IN HIP REPLACEMENT

The Medacta Hip Offering embraces a **Personalized Medicine Vision** with a comprehensive platform for a personalized care experience through a **Holistic Approach**. **Innovative implants, surgical techniques** and **technologies** offer value throughout the **entire patient journey**.



REFERENCES

[1] <https://aoanjr.sahmri.com/annual-reports-2020>. [2] F. Farizon, R. de Lavison, J. J. Azoulai, G. Bousquet. Results with a cementless alumina coated cup with a dual mobility: a twelve years follow-up study. *Int Orthop*. 1998; 22(4) : 219-224. [3] C. Batailler, C. Fary, R. Verdier, T. Aslanian, J. Caton, S. Lustig. The evolution of outcomes and indications for the dual mobility cup: a systematic review. [4] M.S. Abdelal, E. Zachwieja, P.F. Sharkey. Severe Corrosion of Modular Dual Mobility Acetabular Components Identified During Revision Total Hip Arthroplasty. *Arthroplasty Today* 8 (2021) 78-83. [5] R. Civinini, A. Cozzi Lepri, C. Carulli, F. Matassi, M. Villano, M. Innocenti. Patients Following Revision Total Hip Arthroplasty With Modular Dual Mobility Components and Cobalt-Chromium Inner Metal Head are at Risk of Increased Serum Metal Ion Levels. *The Journal of Arthroplasty* 35 (2020) S294-S298. [6] J.M. Kolz, C.C. Wyles, D.W. Van Citters, R.M. Chapman, R.T. Trousdale, D.J. Berry. In Vivo Corrosion of Modular Dual-Mobility Implants: A Retrieval Study. *The Journal of Arthroplasty* 2020; 35 (11): 3326-3329. [7] K.A. Sonn, R.M. Meneghini. Adverse Local Tissue Reaction due to Acetabular Corrosion in Modular Dual-Mobility Constructs. *Arthroplasty Today* 6 (2020) 976-980. [8] W.C. Witzleb, J. Ziegler, F. Krummenauer, V. Neumeister, K.P. Guenther. Exposure to chromium, cobalt and molybdenum from metal-on-metal total hip replacement and hip resurfacing arthroplasty. *Acta Orthopaedica* 2006; 77:5, 697-705. [9] I. De Martino, G.K. Triantafyllopoulos, P.K. Sculco, T.P. Sculco. Dual mobility cups in total hip arthroplasty. *World J. Orthop* 2014; 5(3): 180-187.

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This document is intended for the US market.

Please verify registration status and availability of the devices described in this document with your local Medacta representative.

swiss
made



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