



C2

DESIGNED TO BE TRUSTED



DESIGNED FOR:

MAXIMUM STABILITY

Dual taper fixation technology combined with a rectangular cross-section ensure optimal stability for the widest range of femoral anatomies

IMPLANT LONGEVITY

Every design detail has been perfected to maximize long term results. Unique profile ensures even load distribution. Neck geometry optimizes joint mobility

DESIGNED TO BE TRUSTED

An implant with a 99.9% 8-year survival rate^[9]
is an implant you can trust



IMPLANT STABILITY

DUAL TAPER

design for outstanding axial stability of the stem and an optimal fit with the most common femoral anatomies

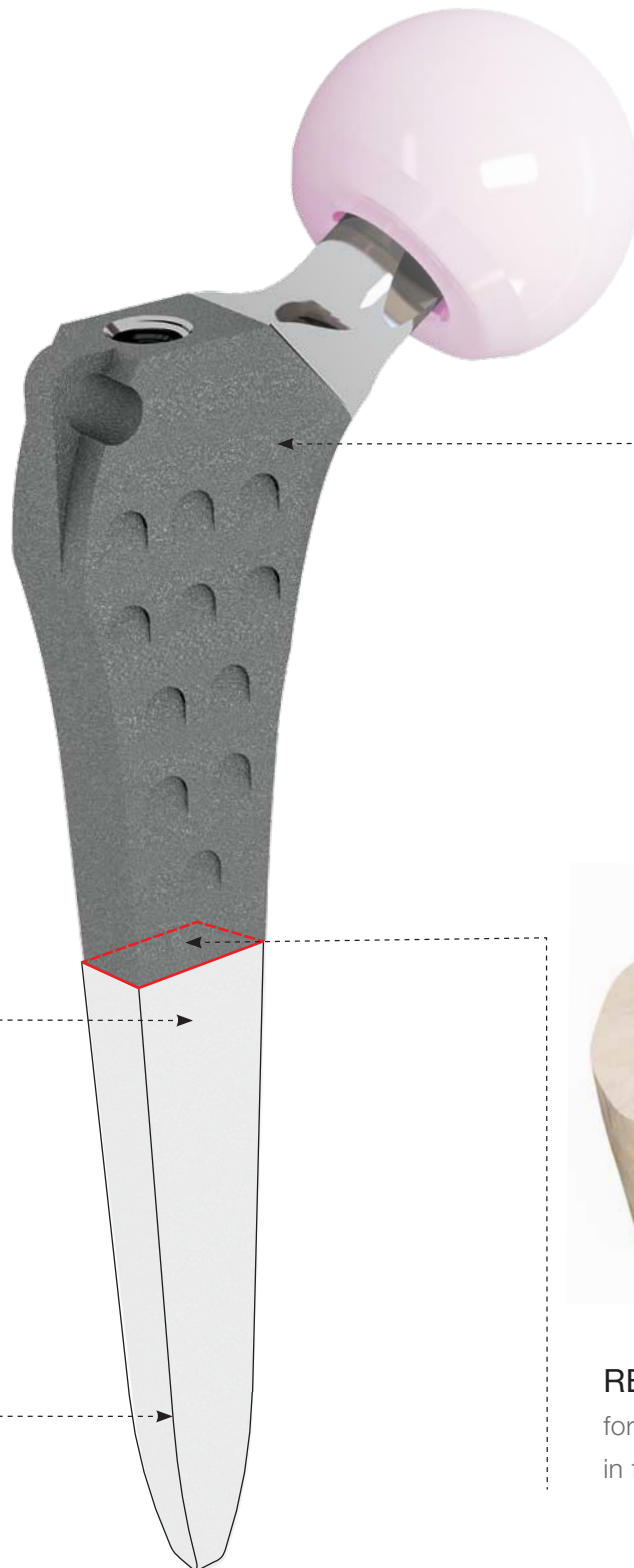
TEXTURED SURFACE

for effective osteointegration and enhanced long term implant stability ^[1]

The **SHARP EDGES** allow cortical fixation preserving endosteal bone

RECTANGULAR CROSS SECTION

for rotational stability of the stem in flexion and extension



UNIQUE DESIGN

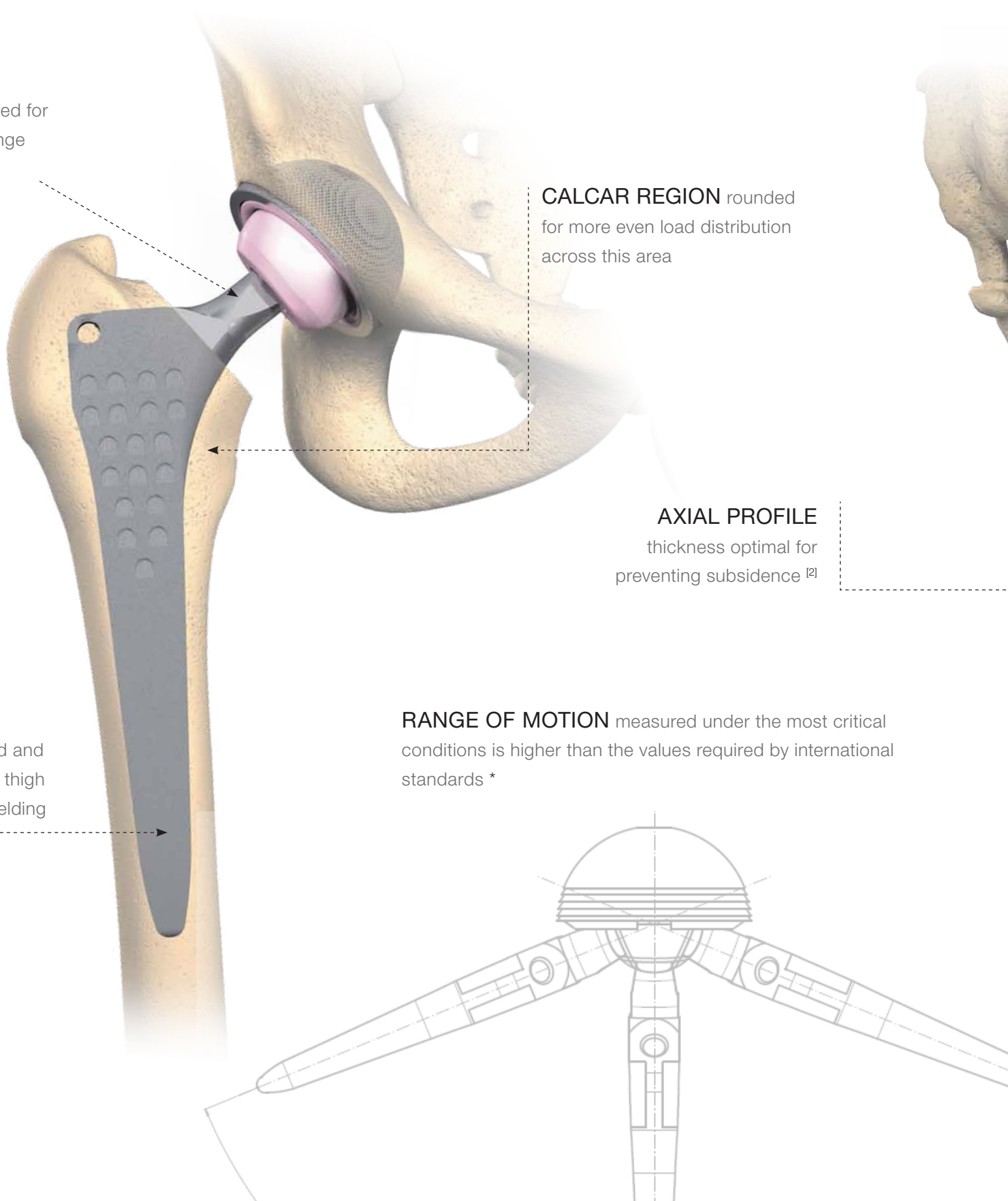
NECK tapered for enhanced range of motion

CALCAR REGION rounded for more even load distribution across this area

AXIAL PROFILE
thickness optimal for preventing subsidence [2]

DISTAL CROSS SECTION tapered and rounded to prevent thigh pain and stress shielding

RANGE OF MOTION measured under the most critical conditions is higher than the values required by international standards *



CLINICAL RESULTS

99.9%

SURVIVAL

R.I.P.O. analyses evidence excellent 8-year survival rates [3, 3a]

14 years post-op

CLINICAL HISTORY

The C2 stem is supported by many years of clinical success: introduced in 1996, today it remains one of Lima's most successful stems.

A popular choice for its unrivalled reliability and simplicity

MORE THAN **60.000**
IMPLANTS

The C2 stem is used in 15 countries world-wide, and has been implanted more than 60,000 times

IMPLANT VERSATILITY

The C2 stem is compatible with all DELTA cups and can therefore be used in all joint coupling solutions: ceramic, metal and polyethylene

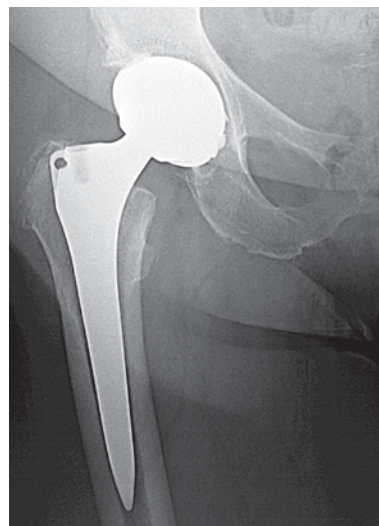


CLINICAL CASES



CASE I: Pre-op

Female, 78 years old, normal lifestyle, presenting bilateral coxarthrosis and right epiphyseal osteonecrosis, reporting excruciating pain and limited functionality.



Courtesy of C. Callea, Casa di Cura Giovanni XXIII, Monaster (Treviso)

CASE I: 5 years post-op

Treatment with standard C2 stem and DELTA ST-C cup, ceramic-ceramic coupling, postero-lateral approach.

At 5-year follow-up, the implant was stable, well osteointegrated, and with no evidence of stress shielding. The patient reported very good functionality and was completely pain free.



CASO II: Pre-op

Female, 51 years old, normotype, on cortisone treatment for COPD, reporting right hip pain for one year, significant functional limitation and joint stiffness. Harris Hip Score: 55.



Courtesy of M. Cremonese, Ospedale di Cittadella (Padova)

CASO II: 8 years post-op

Treatment with standard C2 stem and SPH PEG acetabular cup, ceramic-ceramic coupling, Watson-Jones approach.

At 8-year follow-up, the implant was stable, with no signs of osteolysis or radiolucency. The patient was pain-free and satisfied with her high joint functionality. Harris Hip Score: 100.

Bibliography

- [1] Schwartz Z., Raz P., Zhao G., Barak Y., Tauber M., Yao H., Boyan B. D. Effect of Micrometer-Scale Roughness of the Surface of Ti6Al4V Pedicle Screws in Vitro and in Vivo. J Bone Joint Surg [AM], 90: 2485-2498, 2008
- [2] Seral F., Villar J. M., Esteller A., Vivar F. G., Abad I., Grande M. M., Jorda E., Espinar E. Five-year Follow-Up Evaluation of the Noncemented Press-Fit Titanium Hip-Joint Endoprosthesis. Current Orthopaedic Practice, 283: 49-56, 1992
- [3] R.I.P.O. Registro Implantologia Protesica Ortopedica, Dati Complessivi Interventi di Protesi d'Anca, di Ginocchio e di Spalla in Emilia Romagna, 2000-2008
- [3a] Park Y. S., Park S. J., Lim S. J. Ten-Year Results After Cementless THA With A Sandwich-Type Alumina Ceramic Bearing. ORTHOPEDICS, 33(11): 796, 2010
- ★ EN ISO 21535:2007
Non-active surgical implants. Joint replacement implants. Specific requirements for hip-joint replacement implants

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