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The Powder Manufacturing Leader



www.adlerortho.com

Tri-Por®

Powder Manufacturing
Technology

ADLER
ORTHO

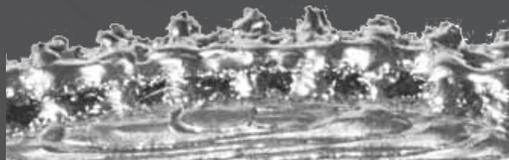


Powder Manufacturing Technology

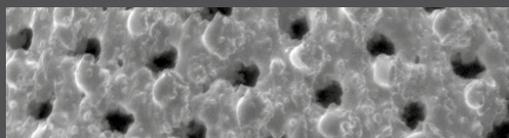
Implants are produced directly from a CAD model using metal powder and without using any traditional physical tools.



The implant is built by adding layer over layer of material to create a solid structure, ready for final finishing. This system allows manufacturing of very complex monolithic structures.



Powder technology produces a monolithic implant with an extremely rough and resistant 3D surface, designed to enhance implant primary stability and promote rapid bone ingrowth.



The **Ti-Por**® surface: section and magnification.

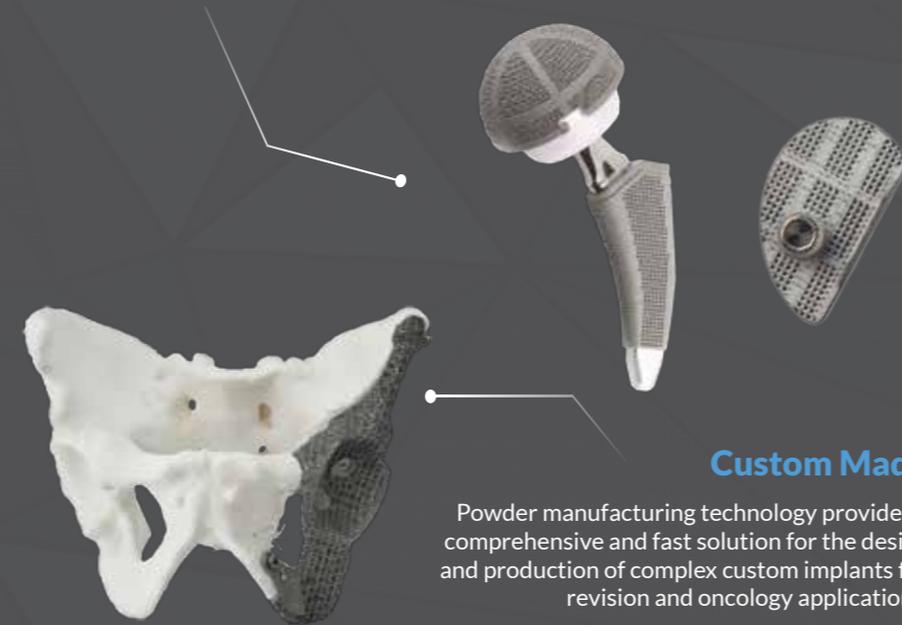
Tri-Por®

The Powder Manufacturing Leader

Powder Manufacturing technology can be applied to all the metal alloys commonly used for Orthopaedic applications.

Titanium Alloy

Adler Ortho® research and development pioneered manufacturing of uncemented hip implants and tibial base plates with the **Ti-Por**® monolithic tri-dimensional surface.



Custom Made

Powder manufacturing technology provides a comprehensive and fast solution for the design and production of complex custom implants for revision and oncology applications.

CoCrMo Alloy

Adler Ortho® employs Powder Manufacturing technology to also produce Hip and Knee Implants made of CoCrMo alloy. In this case implants feature the **Co-Por**® surface, homologous to **Ti-Por**®.



Stainless Steel

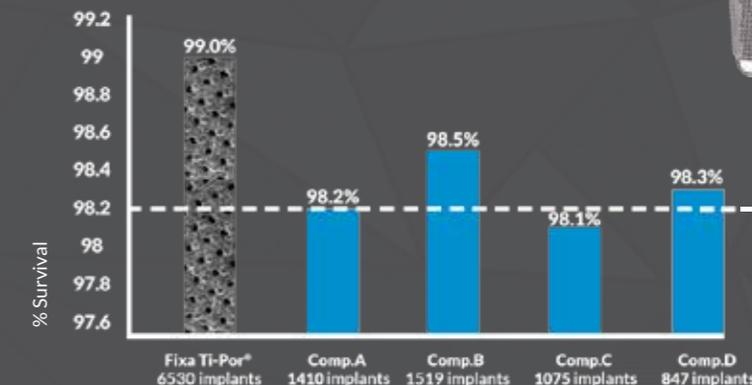
Powder Manufacturing technology also enables the accurate production of surgical instruments with complex shapes.

Clinical Results

Fixa Ti-Por® has been in successful clinical use since 2007. Parva, the first hip stem ever produced employing Powder Manufacturing was first implanted in 2009.

• Fixa Ti-Por® Cup:

The Fixa Ti-Por® cup showed a 99.0% survival rate at 5 years from a cohort of 6,530 implants*.

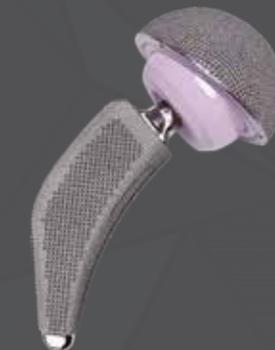


98.2%
Average uncemented cup survival at 5 years*

The British Orthopaedic Devices Evaluation Panel assigned a 5A* rating to the **Fixa Ti-Por**® cup. This is the highest degree of reliability for implants that passed the 5 years follow-up benchmark**.

• Parva Stem:

100 stems with a minimum follow-up of 42 months: 100% survival rate***



(*) RIPO Emilia Region Joint Registry, 2000-2013 results.

(**) www.odep.org.uk

(***) M. Schiraldi, "Femoral Neck Preservation with a novel cementless short hip stem. Results of the first consecutive 100 cases with minimum 42 months follow-up". 2015 Australian Orthopaedic Association Meeting.