Custom Made



RECONSTRUCTIVE ORTHOPAEDICS



From project design to 3D prosthesis





Powder technology for custom made 3D prostheses

A team of specialists working in close partnership with the surgeon

www.adlerorthocustommade.com

Introducing a new web based custom process platform from Adler Ortho®; a company driven by innovation and highly experienced in the production of custom made 3D printed implants.

- Web portal provides interactive link between the surgeon and Adler custom specialist team.
- Processing, data exchange and 3D prototype visuals stored on portal.
- **3)** Forms an archive for completed projects.





Fixation versatility:

"MODULAR" PRESS-FIT TECHNIQUE

A custom augment fills the bone defect and restores the integrity of the acetabular cavity. A conventional cup is then implanted in the reconstructed acetabulum

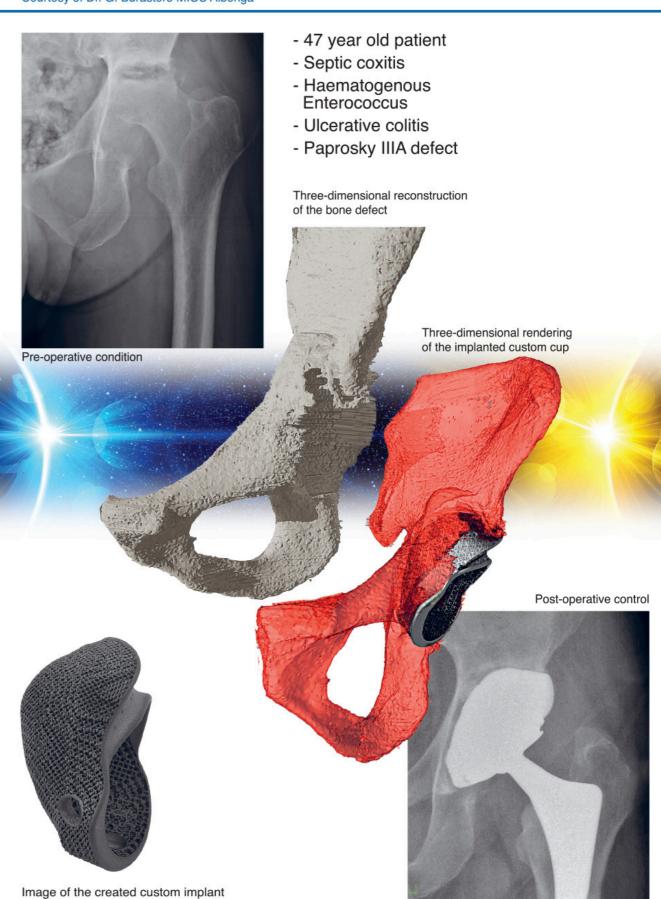
Courtesy of Dr. G. Burastero MIOS Albenga - 77 year old patient - 4 previous interventions - Rheumatoid arthritis - Septic loosening - Paprosky IIIB defect Intraoperative photo of custom augment fixation Three-dimensional reconstruction of the bone defect Pre-operative condition Three-dimensional rendering of the custom augment fixed with a screw in the pubic and ilium areas Post-operative control Intra-operative photo Final cup implant in the recreated acetabular cavity.

Fixation versatility:

"PURE" PRESS-FIT TECHNIQUE

When the type of defect permits, it is possible to use the press-fit technique to fix the custom implant like a first implant cup

Courtesy of Dr. G. Burastero MIOS Albenga



Fixation versatility:

BULK TECHNIQUE

Acetabular reconstruction using a custom implant to completely fill defect

Courtesy of Dr. G. Giordano Toulouse

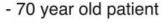
Simple, flexible, safe: POWDER TECHNOLOGY

Construction of single-piece, three-dimensional, custom-made structures

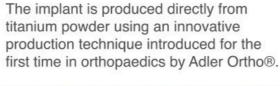




Pre-operative X-ray



- Previously underwent two revisions of prior hip prostheses
- Septic loosening
- Paprosky IIIB defect





The custom implant is produced in a single piece.

Powder technology makes it possible to modulate the three-dimensional structure of the implant with complete freedom, adapting it to the load and functional needs of the various areas.

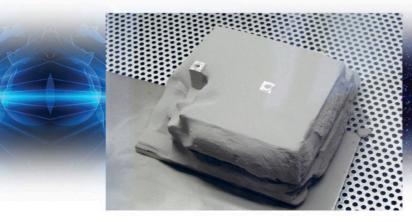
Simple

Implants are modelled on the three-dimensional reconstruction of the patient's CT image.

Flexible

Powder technology permits the construction of even very complex structures adapting the implant to the anatomy of the patient, and not vice versa.





Rear view of the custom implant designed to fill the bone defect

completely



It is possible to produce single-piece three-dimensional structures, impossible to create with other methods.



Safe

The implant is designed and produced in close collaboration with the surgeon. The procedure, controlled at every stage, also provides for the production of specific, disposable, surgical instruments to guarantee maximum precision during the intervention.



Intra-operative photo

Post-operative X-ray

Three-dimensional rendering of the implanted custom cup



ADLER ORTHO srl Nucleo Produttivo -Uffici Direzionali Via dell'Innovazione 9 20032 Cormano (Mi) Tel. +39 02 6154371 Fax +39 02 615437222

www.adlerortho.com

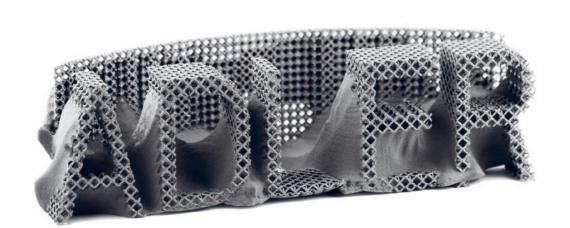
ADLER ORTHO UK Unit A2, Beech House Oaklands Office Park Hooton-Cheshire CH66 7NZ United Kingdom

Tel: +44 (0)151 329 0427 FAX: +44 (0)151 329 0496

Giugno 2016

B0062-E







Adler Ortho® design platform for the production of 3D custom prostheses

www.adlerorthocustomade.com