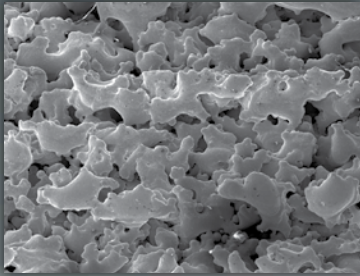


EXACTECH | HIP

Revision Acetabular System

Developed for revision and complex primary procedures, InteGrip® shares the features of Novation Crown Cup® with additional enhancements.



Comprehensive testing qualifies InteGrip as a three-dimensional, porous ingrowth material. Pore size, count and porosity are optimized to enable adequate ingrowth and maximize material strength properties.¹

Achieving initial mechanical stability is important to enable long-term biologic fixation.² InteGrip features a 1mm uniform press-fit across the acetabulum similar to Crown Cup.²



Electron Beam Melting (EBM) integrates the porous and solid substrate versus a porous coating adhered to a solid surface. During testing, no detachment of InteGrip from the substrate was observed. The integrated material provides high shear/tensile strength.³

InteGrip®

PUBLICATIONS

Influence of electron beam melting manufactured implants on ingrowth and shear strength in an ovine model.*

Bertollo N, Da Assuncao R, Hancock NJ, Lau A, Walsh WR.

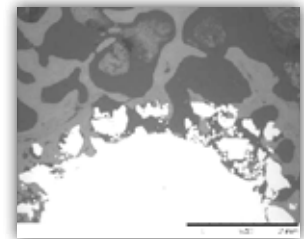
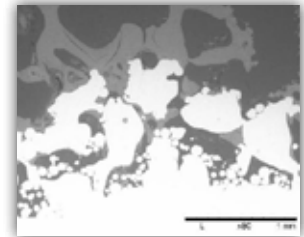
Source

Surgical and Orthopaedic Research Laboratories, University of New South Wales, Prince of Wales Clinical School, Sydney, Australia.

Abstract

Arthroplasty has evolved with the application of electron beam melting (EBM) in the manufacture of porous mediums for uncemented fixation. Osseointegration of EBM and plasma-sprayed titanium (Ti PS) implant dowels in adult sheep was assessed in graduated cancellous defects and under line-to-line fit in cortical bone. Shear strength and bony ingrowth (EBM) and ongrowth (Ti PS) were assessed after 4 and 12 weeks. Shear strength of EBM exceeded that for Ti PS at 12 weeks ($P = .030$). Ongrowth achieved by Ti PS in graduated cancellous defects followed a distinctive pattern that correlated to progressively decreasing radial distances between defect and implant, whereas cancellous ingrowth values at 12 weeks for the EBM were not different. Osteoconductive porous structures manufactured using EBM present a viable alternative to traditional surface treatments.

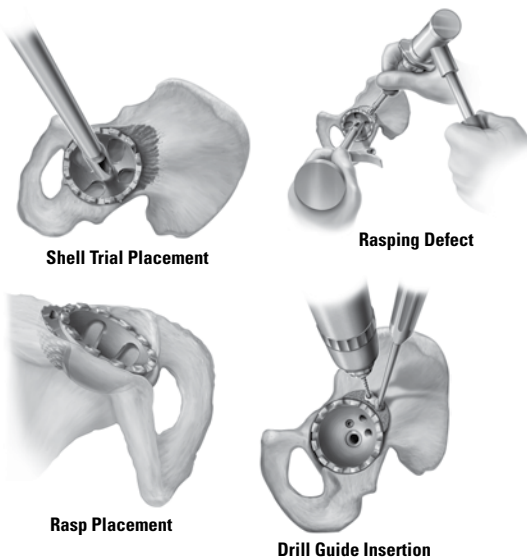
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Above images represent cancellous ingrowth at 4 and 12 weeks respectively. White area is InteGrip; lighter gray is bone.

OPERATIVE TECHNIQUE HIGHLIGHTS

These images provide highlights of the efficient technique for preparing a defect for augment use. Achieving stability is important to enable long-term biologic fixation.²



SCOPE

InteGrip Shell, Cluster Hole

Size	Catalog Number
48mm	186-01-48
50mm	186-01-50
52mm	186-01-52
54mm	186-01-54
56mm	186-01-56
58mm	186-01-58
60mm	186-01-60
62mm	186-01-62
64mm	186-01-64
66mm	186-01-66
68mm	186-01-68

InteGrip Augment, Cemented

Size	Group	Catalog Number
8mm	Small Group 1	186-01-08
11mm	Medium Group 1	186-01-11
13mm	Large Group 1	186-01-13
8mm	Small Group 2	186-02-08
11mm	Medium Group 2	186-02-11
13mm	Large Group 2	186-02-13
8mm	Small Group 3	186-03-08
11mm	Medium Group 3	186-03-11
13mm	Large Group 3	186-03-13
8mm	Small Group 4	186-04-08
11mm	Medium Group 4	186-04-11
13mm	Large Group 4	186-04-13
8mm	Small Group 5	186-05-08
11mm	Medium Group 5	186-05-11
13mm	Large Group 5	186-05-13

REFERENCES

- Bertollo N, et al. Influence of electron beam melting manufactured implants on ingrowth and shear strength in an ovine model. *J Arthroplasty*. 2012 Sep;27(8):1429-36. doi: 10.1016/j.arth.2012.02.025. Epub 2012 Apr 11.
- Data on file at Exactech. TR-2010-021 Implant Fixation in an Ovine Model (EBM, DMPS, Plasma)
- Data on file at Exactech. TR-2010-006 InteGrip (EBM Porous Ti-Alloy) Material Qualification.

*Laboratory test results may not necessarily be indicative of clinical performance.

Exactech, as the manufacturer of this device, does not practice medicine, and is not responsible for recommending the appropriate surgical technique for use on a particular patient. Prior to use of this system, the surgeon should refer to the product package insert for comprehensive warnings, precautions, indications for use, contraindications and adverse effects.

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