EXCLUSIVE DISTRIBUTOR IN BRAZIL

ATTIS MEDICAL

MATHYS
European Orthopaedics

***Preservation** in motion*

Affinis Inverse

Bone Grafting Instruments

Building on our heritage
Moving technology forward
Step by step with our clinical partners
Towards a goal of preserving mobility

***Preservation** in motion*

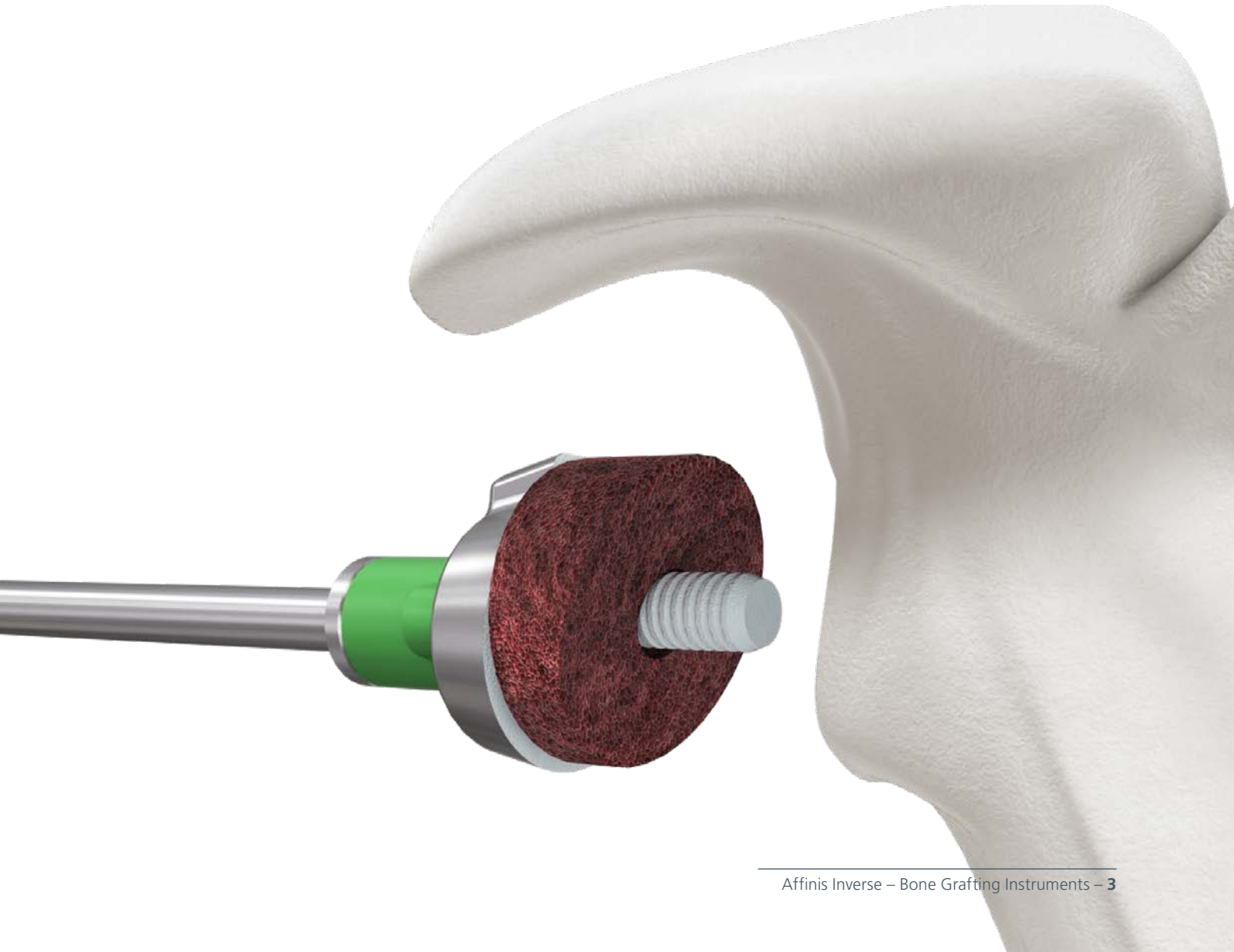
As a Swiss company, Mathys is committed to this guiding principle and pursues a product portfolio with the goal of further developing traditional philosophies with respect to materials or design in order to address existing clinical challenges. This is reflected in our imagery: traditional Swiss activities in conjunction with continuously evolving sporting equipment.

GUIDED, EFFICIENT AND RESULT-ORIENTED

The Affinis Inverse Bone Grafting Instruments were developed in close design matching with the Metaglene CP for combined implantation of a bone graft with an inverse shoulder prosthesis. The fully guided surgical technique supports the harvesting and creation of a total of six differently shaped bone grafts from the humeral head. This allows the joint line of the glenoid to be corrected after glenoid erosion and osseous defects.

The Affinis Inverse Bone Grafting Instruments allow for easy handling with simple and logical workflows. In this way, the prosthesis can be implanted efficiently.

The instruments replenish the Affinis Inverse Shoulder System portfolio with an additional option for the treatment of patients with more complex glenoid morphology in cases of rotator cuff defect arthropathy or proximal humerus fracture.



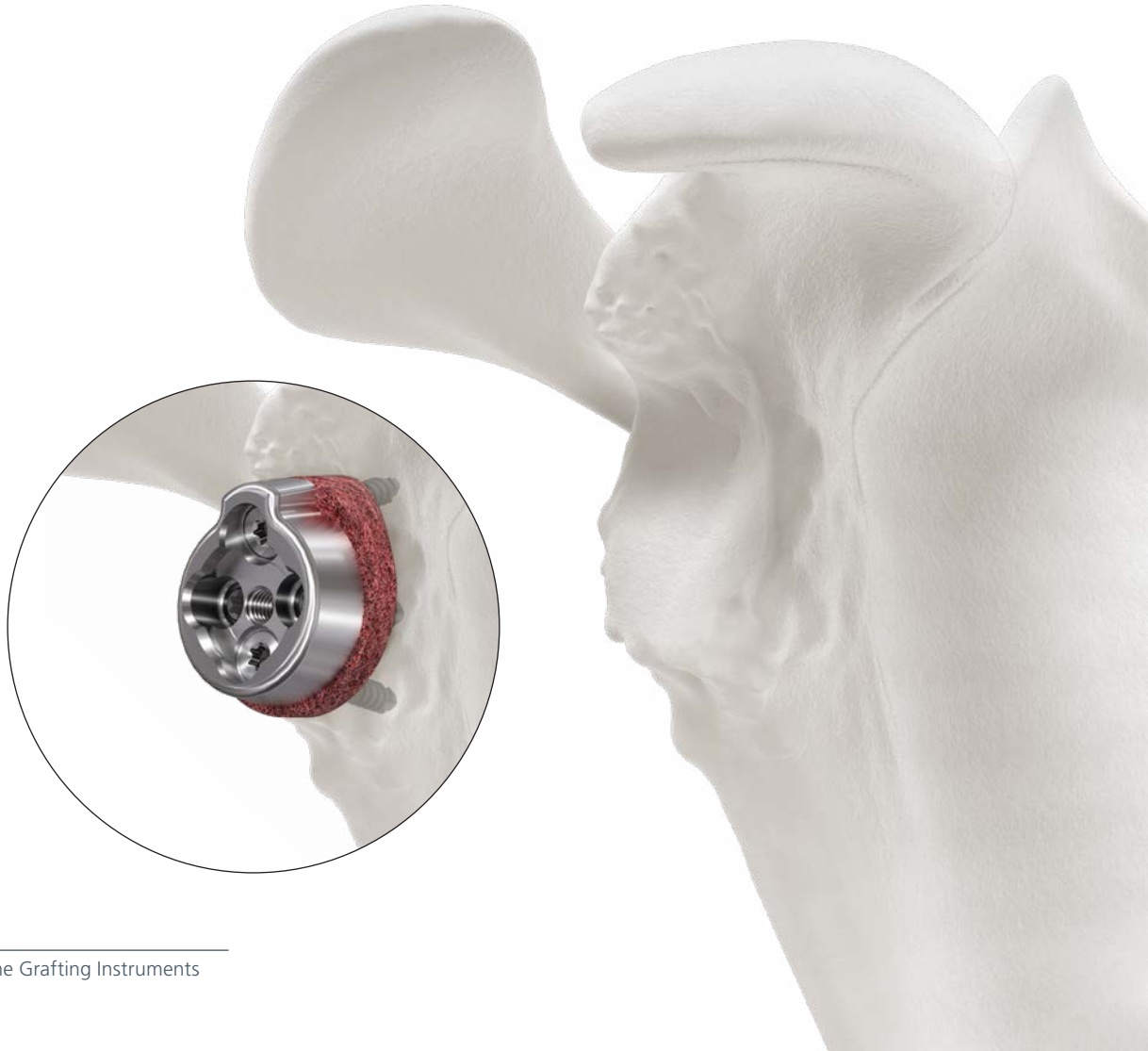
CLINICAL NEED

Patients with glenoid defects and simultaneous inverse shoulder prosthesis implantation account for a significant proportion of difficult-to-treat surgical patients.

For glenoid defect compensation, the Affinis Inverse Bone Grafting Instruments offer a fully guided surgical technique that supports harvesting of bone grafts from the humeral head. The Affinis Inverse Metaglene CP with its longer central peg can accommodate the bone graft and allows reconstruction of the anatomical joint line after glenoid erosion and osseous defects using an inverse shoulder prosthesis.

Biological reconstruction of the defect using autografts has proven a suitable technique to compensate for bone loss at the glenoid – especially in single-stage procedures, if adequate fixation of the central metaglene peg and good fixation with fixed-angle screws in the native scapula are possible. [1]

According to a retrospective study by Harmsen et al., in cases with pronounced glenoid bone deficit excellent clinical and radiological results with low complication rates can be achieved in the short to medium term with individually adapted autologous glenoid reconstruction and inverse shoulder prostheses. [2]



PLANNING

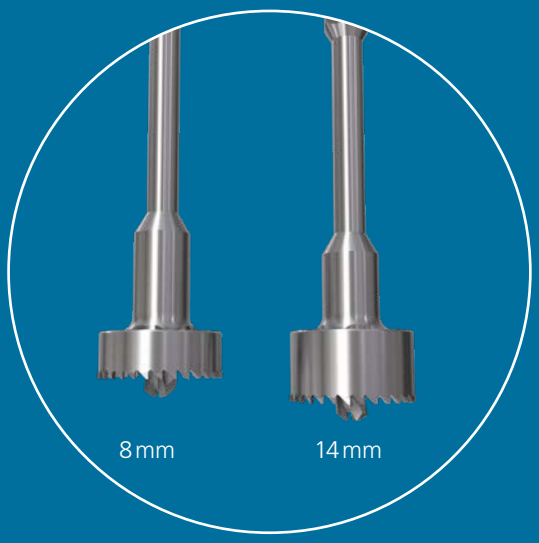
For preparation of a surgery with the Affinis Inverse Metaglene CP in combination with a bone graft, Mathys offers the 3D planning by MediCAD and Affinis Architec. Both support the operating surgeon in visualising the planning of the required bone graft as well as the placement of the implant, and increase the efficiency of the procedure.

GRAFT HARVESTING

The fully guided surgical technique supports the harvesting and creation of a total of six differently shaped bone grafts from the humeral head. Neither allografts from the bone bank nor additional surgical steps for obtaining an autograft from the iliac crest are required. This reduces the operating time, the risk of infection, and the pain for the patient.

15°/8 mm | 7.5°/8 mm | 0°/8 mm | 15°/14 mm | 7.5°/14 mm | 0°/14 mm

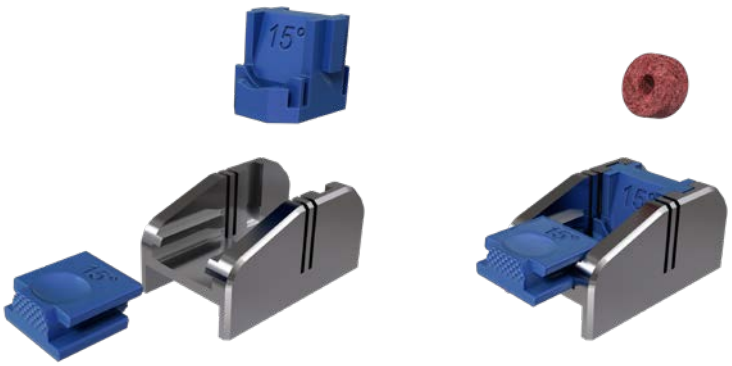
The bone graft is obtained during humeral head preparation by means of a core drill having a thickness of 8 mm or 14 mm. It is immediately available and allows bone augmentation for correction of the joint line of the glenoid as well as optimal soft tissue balancing after glenoid erosion and osseous defects.

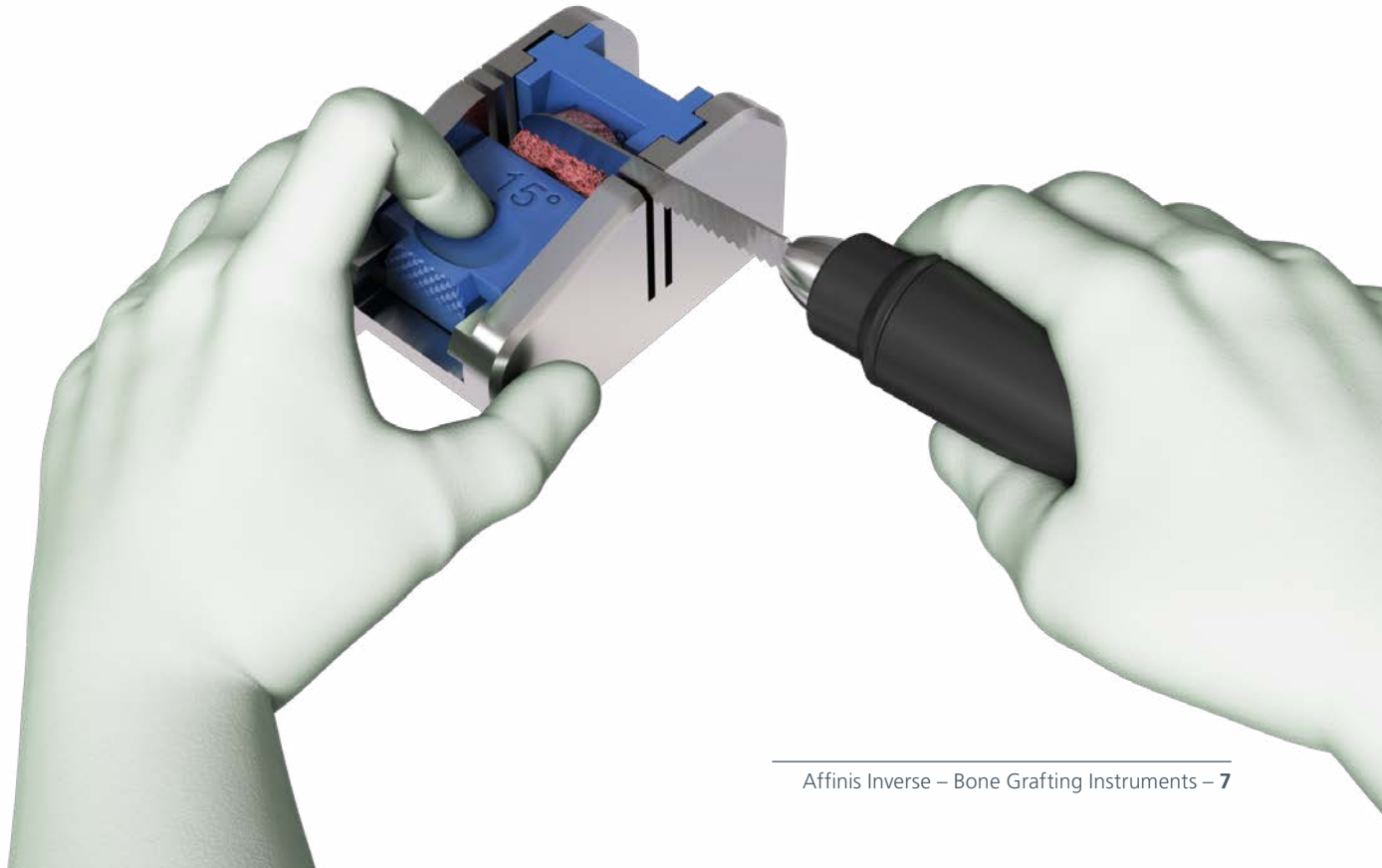


GRAFT PREPARATION

The Affinis Inverse Bone Grafting Back Table Instrument was developed for preparation of the harvested bone graft. The smart instrumentation allows guided preparation of the autograft with a few simple and logical steps if angulation is desired. After harvesting, the bone graft can be left cylindrical at 0° or adapted to 7.5° or 15°, depending on the desired lateralisation, retroversion or inclination of the reconstruction.

All steps for bone harvesting and preparation of the bone graft are fully instrument-guided, which obviates the need for freehand manipulation and allows reproducible results.





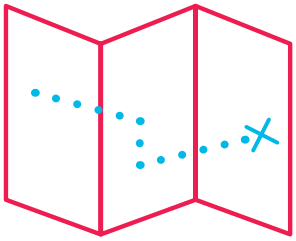
AFFINIS INVERSE METAGLENE CP

The Affinis Inverse Bone Grafting Instruments were developed for compatibility and application with the Affinis Inverse Metaglene CP. The Affinis Inverse Metaglene CP with its longer central peg allows stable primary fixation in native bone, is suitable for use in rotator cuff defect arthropathy as well as for proximal humerus fractures, and allows reconstruction of the anatomical joint line after glenoid erosion and osseous defects using Affinis Inverse or Affinis Fracture Inverse. This gives the operating surgeon more treatment options for a wider range of glenoid morphologies.

Affinis Inverse

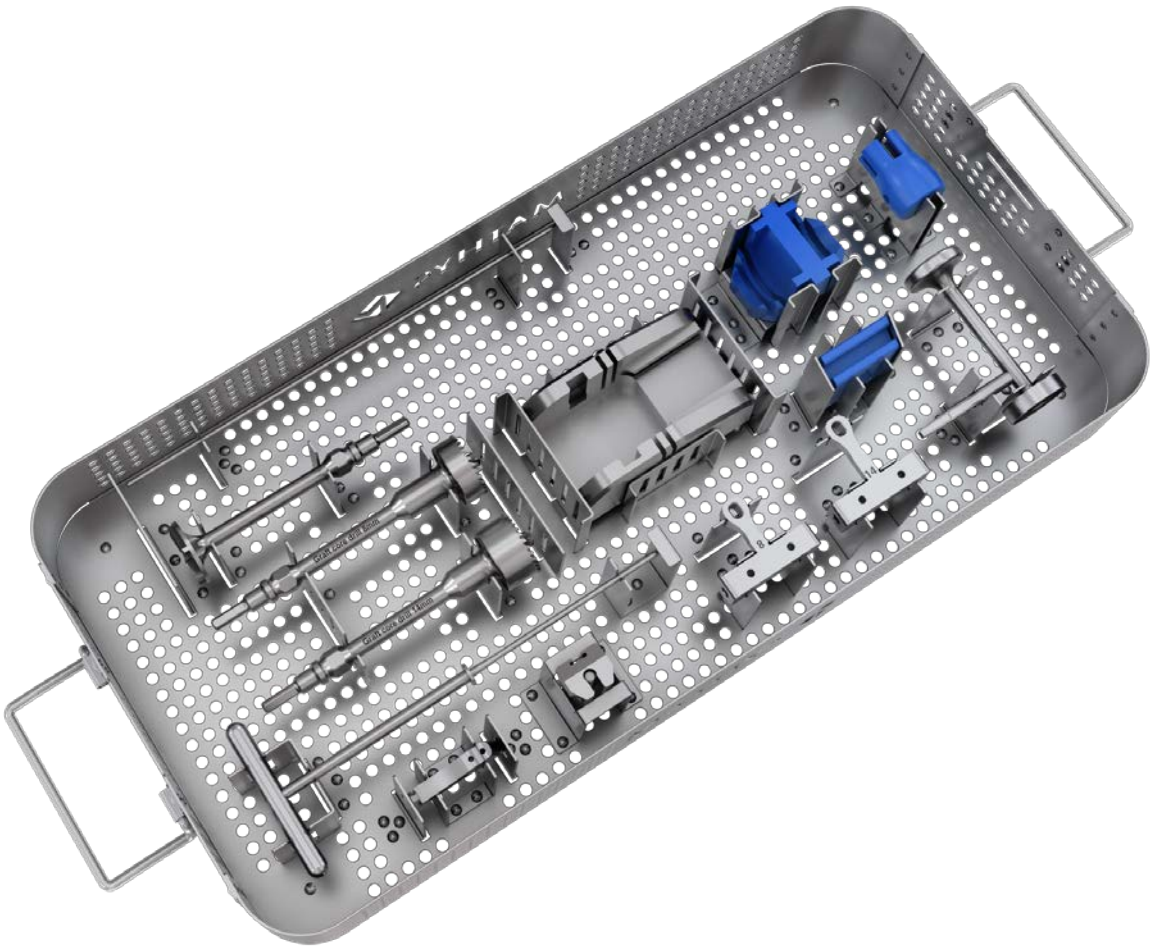
Affinis Fracture Inverse

SMART INSTRUMENTATION



The Affinis Inverse Bone Grafting Instruments allow simple and logical workflows as well as efficient implantation of the prosthesis thanks to its easy handling.

The bone grafting instruments are arranged in their own clearly laid-out tray, which can be seamlessly integrated into the existing tray landscape for Affinis Inverse or Affinis Fracture Inverse if desired, in order to keep an overview of the entire instrumentation at all times.



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2 Harmsen S, Casagrande D, Norris T. «Shaped» humeral head autograft reverse shoulder arthroplasty: Treatment for primary glenohumeral osteoarthritis with significant posterior glenoid bone loss (B2, B3, and C type). Der Orthopade. 2017;46(12):1045-54.

MATHYS
European Orthopaedics

Australia
Mathys Orthopaedics Pty Ltd
Artarmon, NSW 2064
Tel: +61 2 9417 9200
info.au@mathysmedical.com

Austria
Mathys Orthopädie GmbH
2351 Wiener Neudorf
Tel: +43 2236 860 999
info.at@mathysmedical.com

Belgium
Mathys Orthopaedics Belux N.V.-S.A.
3001 Leuven
Tel: +32 16 38 81 20
info.be@mathysmedical.com

France
Mathys Orthopédie S.A.S
63360 Gerzat
Tel: +33 4 73 23 95 95
info.fr@mathysmedical.com

Germany
Mathys Orthopädie GmbH
«Centre of Excellence Sales» Bochum
44809 Bochum
Tel: +49 234 588 59 0
sales.de@mathysmedical.com

«Centre of Excellence Ceramics» Mörsdorf
07646 Mörsdorf/Thür.
Tel: +49 364 284 94 0
info.de@mathysmedical.com

«Centre of Excellence Production» Hermsdorf
07629 Hermsdorf
Tel: +49 364 284 94 110
info.de@mathysmedical.com

Italy
Mathys Ortopedia S.r.l.
20141 Milan
Tel: +39 02 4959 8085
info.it@mathysmedical.com

Japan
Mathys KK
Tokyo 108-0075
Tel: +81 3 3474 6900
info.jp@mathysmedical.com

New Zealand
Mathys Ltd.
Auckland
Tel: +64 9 478 39 00
info.nz@mathysmedical.com

Netherlands
Mathys Orthopaedics B.V.
3001 Leuven
Tel: +31 88 1300 500
info.nl@mathysmedical.com

P. R. China
Mathys (Shanghai) Medical Device Trading Co., Ltd
Shanghai, 200041
Tel: +86 21 6170 2655
info.cn@mathysmedical.com

Switzerland
Mathys (Schweiz) GmbH
2544 Bettlach
Tel: +41 32 644 1 458
info@mathysmedical.com

United Kingdom
Mathys Orthopaedics Ltd
Alton, Hampshire GU34 2QL
Tel: +44 8450 580 938
info.uk@mathysmedical.com

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Mathys Ltd Bettlach • Robert Mathys Strasse 5 • P. O. Box • 2544 Bettlach • Switzerland