



**REDEFINING BETTER
IN ORTHOPAEDICS
AND NEUROSURGERY**

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Medacta Shoulder System
Technical Design Features

ref: 99.81MSS.11TDF
rev. 01

Last update: July 2018

MEDACTA SHOULDER SYSTEM

COMPLETE, CONVERTIBLE, INNOVATIVE



Technical Design Features

Joint

Spine

Sports Med





ANATOMIC

① HUMERAL DIAPHYSIS

Rectangular-like cross section
Self-centering, Self-orienting shape
MectaGrip with proximal HA coating
11 sizes (87 to 105.5mm length)
Sandblasted distal portion

①A HUMERAL DIAPHYSIS SHORT

Rectangular-like cross section
MectaGrip with HA proximal coating
11 sizes (54.1 to 66.5mm length)
Sandblasted distal portion

② ANATOMIC METAPHYSIS

128°, 135° and 142° neck angle^[1]
MectaGrip with HA proximal coating
Provides adequate space for conversion from Anatomic to Reverse
Medial and lateral suture holes for tuberosity reattachment
Connection through press-fit peg and security screw*

③ HUMERAL HEAD & DOUBLE ECCENTER

10 sizes: from 40mm to 58mm
Head height: 0.8 x head radius (Ø 50mm – H 20mm)
From 0mm to 5mm eccentricity
2.5mm (head) + 2.5mm (double ecenter)
Connection through press-fit peg and security screw*

④ CEMENTED GLENOID

Highly cross-linked polyethylene
10 sizes provide a wide range mismatch (recommended 6mm, cleared 2 to 10mm)
4 to 5 barbed pegs (size dependent)

REFERENCES

[1] Hertel R., Knothe U., Ballmer FT: Geometry of the proximal humerus and implications for prosthetic design. *Journal Shoulder and Elbow Surgery*, 2002 Jul-Aug [2] Baumann A., Zander A.: Ti6Al4V with Anodization Type II: Biological Behavior and Biomechanical Effects. *Technical Paper (Unpublished)* 2005 [3] Data on file at Medacta

* Security screws coating: anodization type II to prevent cold-welding and ensure easy untightening in case of conversion^[2]

REVERSE

⑤ REVERSE METAPHYSIS

37.5mm Ø Inlay tray with HA coating
0 and +9mm height, 15mm of total buildup with PE liner options
Version +/- 20°
Contoured suture sleeves
Connection through press-fit peg and security screw*

⑥ PEGGED BASEPLATE

HA coated, 8mm press-fit peg
3 diameters: 22, 24.5 and 27mm
3 peg lengths: 15, 25 and 35mm
2 or 4 screw holes, size dependent

⑦ THREADED BASEPLATE

MectaGrip backing, 10.4mm monoblock screw
2 diameters: 24.5 and 27mm (4 screw holes)
3 monoblock screw length: 25, 30 and 35mm

⑧ REVERSE LINER

Highly cross-linked polyethylene
145° and 155° inclination option
0, +3mm and +6mm option
Dish 20% of the glenosphere diameter

⑨ GLENSPHERE

4 diameters: 32, 36, 39 and 42mm
4mm lateralized COR & 2mm inferior offset

⑩ POLYAXIAL LOCKING SCREW

14 to 50mm length (4mm increments)
Ø 4.5mm, cortical profile
15° angulation in any direction
Innovative locking mechanism^[3]

⑪ POLYAXIAL NON-LOCKING SCREW

14 to 50mm length (4mm increments)
Ø 4.5mm, cortical profile
15° angulation in any direction