

MRS-TITAN STANDARD AND MAXIMUM



THE COMBINATION OF
EXPERIENCE AND INNOVATION

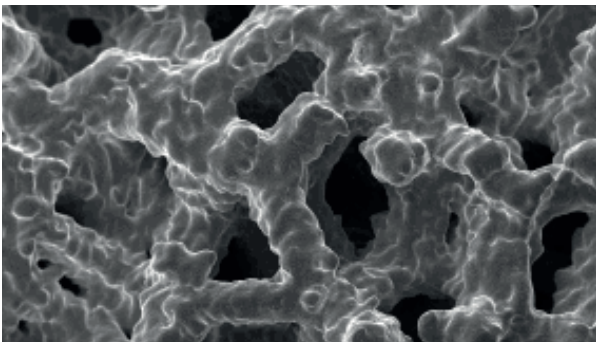
REVISION CUP SYSTEM

The cementless modular revision sup system with its innovative surface structure was developed on the basis of current scientific expertise to ensure the best possible treatment of the patient.

The system is suitable for the treatment of acetabular bone defects of types I through IIIb according to Paprosky. With its various sizes and implant versions (with or without anatomical strap), the system offers a high degree of flexibility in providing adequate solutions for defect management. The system's convenient handling and simple technique allow time-saving implantation.

Innovative surface structure




- I Open-pored, trabecular, and rough for high initial stability and long-term osseointegration
- I Additive manufacturing process (3D printing)



SEM image of the surface structure magnified 50 times
(Courtesy of IMA Materialforschung und Anwendungstechnik GmbH)

IMPLANT OPTIONS

In the setting of a defect-oriented indication, the modular iliac peg and the implant versions give the surgeon the flexibility necessary to adequately address the various bony acetabular defect situations.

		Defect classification according to Paprosky	Sizes
	MRS-TITAN Standard	Type I - IIb	\varnothing 48-76 mm, in 4 mm steps
	MRS-TITAN Maximum with anatomical strap R/L	Type IIc - IIIa	\varnothing 48-76 mm, in 4 mm steps
	MRS-TITAN Maximum with anatomical strap R/L and iliac peg in 3 lengths (30, 50, 70 mm)	Type IIIb	\varnothing 48-76 mm, in 4 mm steps

SIZES AND CHARACTERISTICS

Insert versions and sizes

- I UHMWPE inserts for head diameters 28 (48) and 32 mm (52-76)
- I Dysplasia 20°
- I Open

Implant characteristics

- I Cementless, modular
- I High rotational stability (oval)
- I High initial stability ensured by
 - I Innovative trabecular surface structure
 - I Press fit fixation
 - I Screw fixation
 - I Iliac peg
- I Proven biocompatible titanium alloy Ti6Al4V
- I Porosity $\geq 60\%$
- I Pore size 330-910 μm
- I No use of CMR substances (carcinogenic, mutagenic, reprotoxic)



ADVANTAGES

- | The system is suitable for a broad spectrum of indications as it covers a large range of bone defects (Paprosky types I - IIIb)
- | No use of CMR substances (carcinogenic, mutagenic, reprotoxic) requiring labelling
- | Modular iliac peg provides a high degree of flexibility
- | Optimized screw position with or without anatomical strap, with or without iliac peg
- | Screw holes can be sealed, reducing the risk of osteolysis due to polyethylene particulate wear
- | Clear intuitive technique with a few selected instruments
- | Fast surgical technique



The instructions for use and surgical technique must be observed.



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