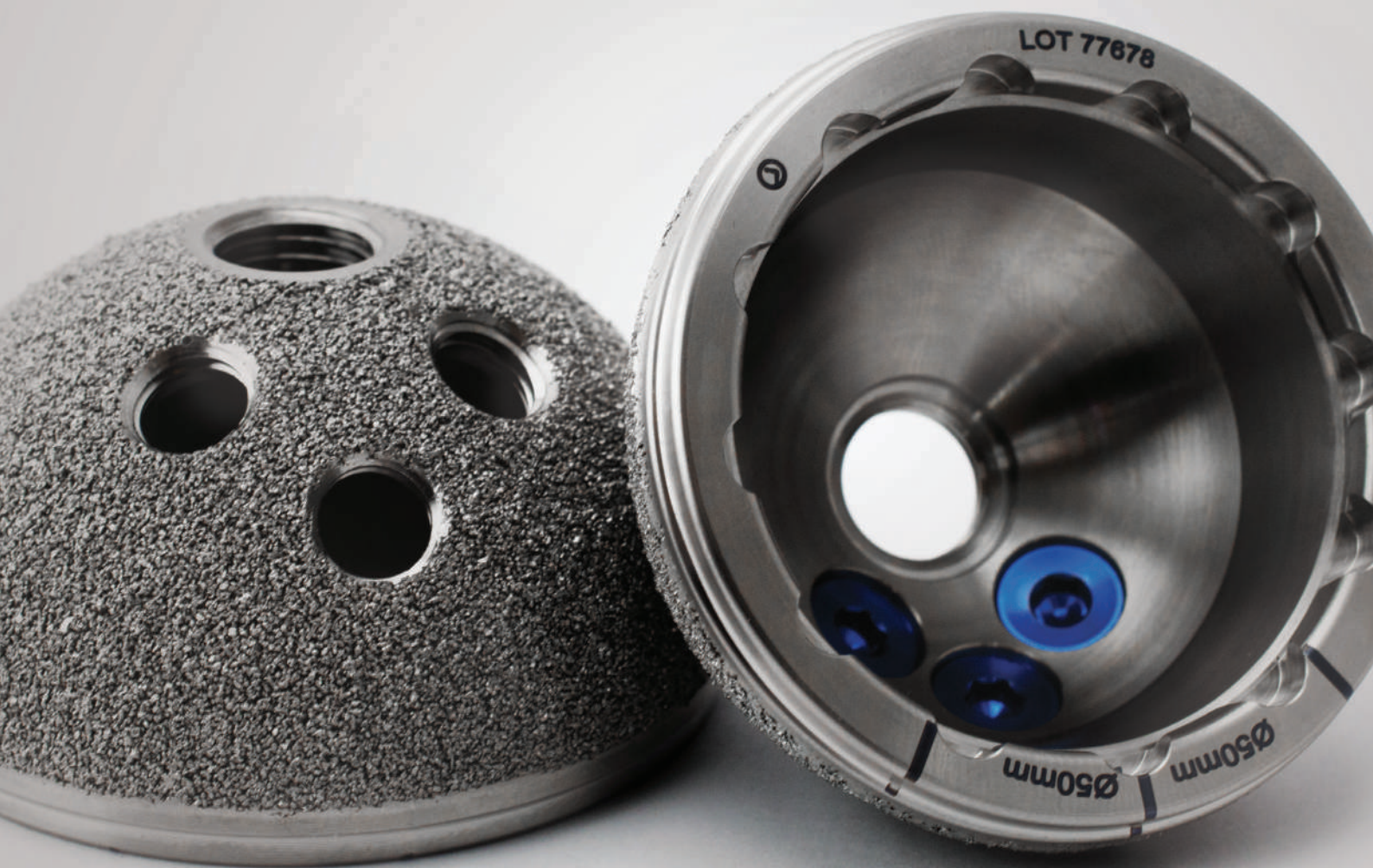


Logical™

Hip System



LOGICAL™ CUP LINER

Ceramic Liner (Not for sale in USA)

Commonly used Bioceramic material

ISO6474-2: Composite material based on a high-purity alumina matrix with Zirconia reinforcement

Polyethylene Liner

XLPE (UHMWPE).

Base resin: GUR1020.

Stock Forming: Compression moulded.

Cross Linking: Gamma irradiation at 7.5 Mrads.

Thermal Stabilisation: Remelting.

Sterilisation: ETO.

Available in Neutral, 10 Hooded, Lateralised and Constrained variations.

Acetabular Cup

Hemispherical geometry, material (Ti6Al4V) and Ti porous coating.

Available in 3 Hole, multi hole and no hole options.

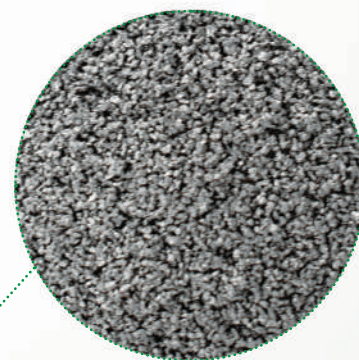
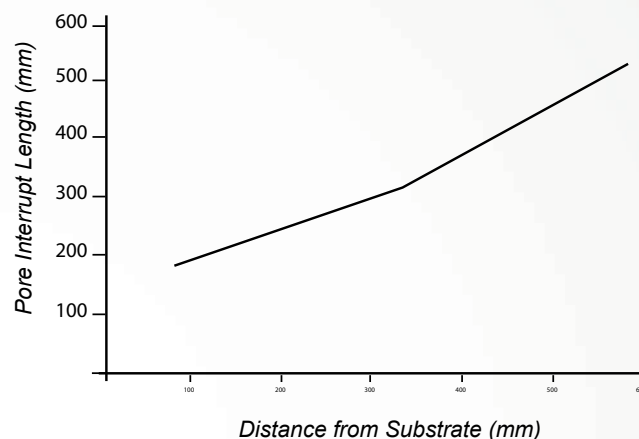
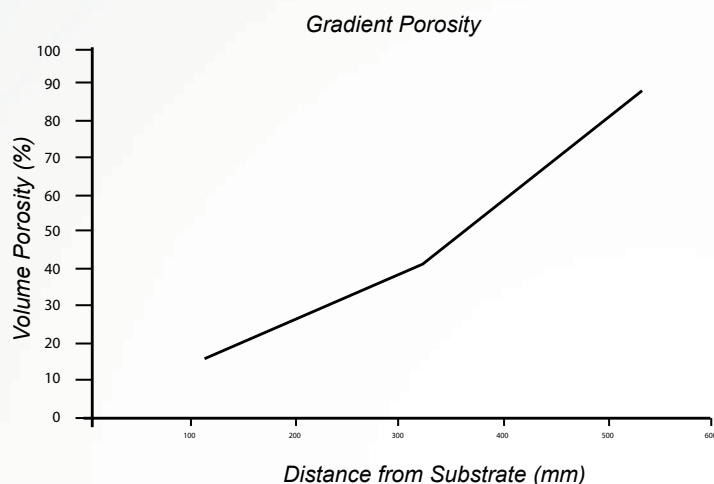


LOGICAL™ CUP LINER



LOGICAL™ EXTERNAL DESIGN FEATURES

The **LOGICAL™ G-Series** sintered Ti Coating has an average pore size of **100-300um**, which is considered in literature to be within the optimal pore range of **40 to 500um** to allow for tissue growth onto the implant.¹²



Optimal Porosity
through proprietary
processing

1. S. C. P. Cachinho and R. R. Correia, "Titanium scaffolds for osteointegration: mechanical, in vitro and corrosion behaviour," J. Mater. Sci. Mater. Med, Vol 19, no 1, pp. 451-457, 2008

2. J. D. Bobyn, R. M. Pilliar, H. U. Cameron, and G. C. Weatherly, "The optimum pore size for the fixation of porous-surfaced metal implants by the ingrowth of bone," Clin. Ortho. Relat. Res, no. 150, pp. 263-270, 1980

LOGICAL™ INTERNAL DESIGN FEATURES

1 - Internal Geometry

- Machined
- Taper transitioning to a dome

2 - Poly Locking Mechanism

Axial :

- Ring-and-groove
- Taper

Rotational :

- Anti-rotation lugs in 30° increments

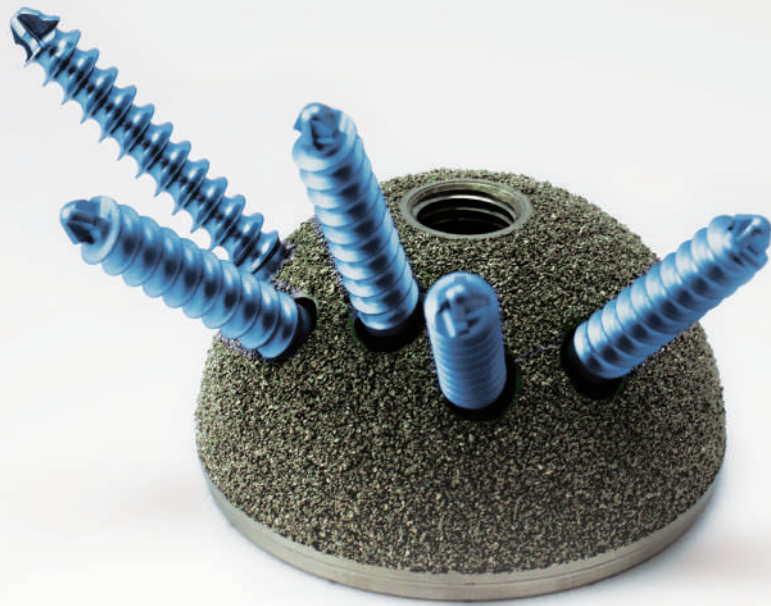
3 - Threaded Screw Holes

- For Optional Locking Screws:
- Screw holes come sterile-packed with hole covers in-situ (these can be unscrewed for screw placement)

4 - Threaded Insertion Hole



LOGICAL™ MULTI-HOLE REVISION SHELL



Multiple screw holes for best bone fixation

Superiorly, posterior-superiorly, and posterior-inferiorly

Locking and non-locking screw options in each hole

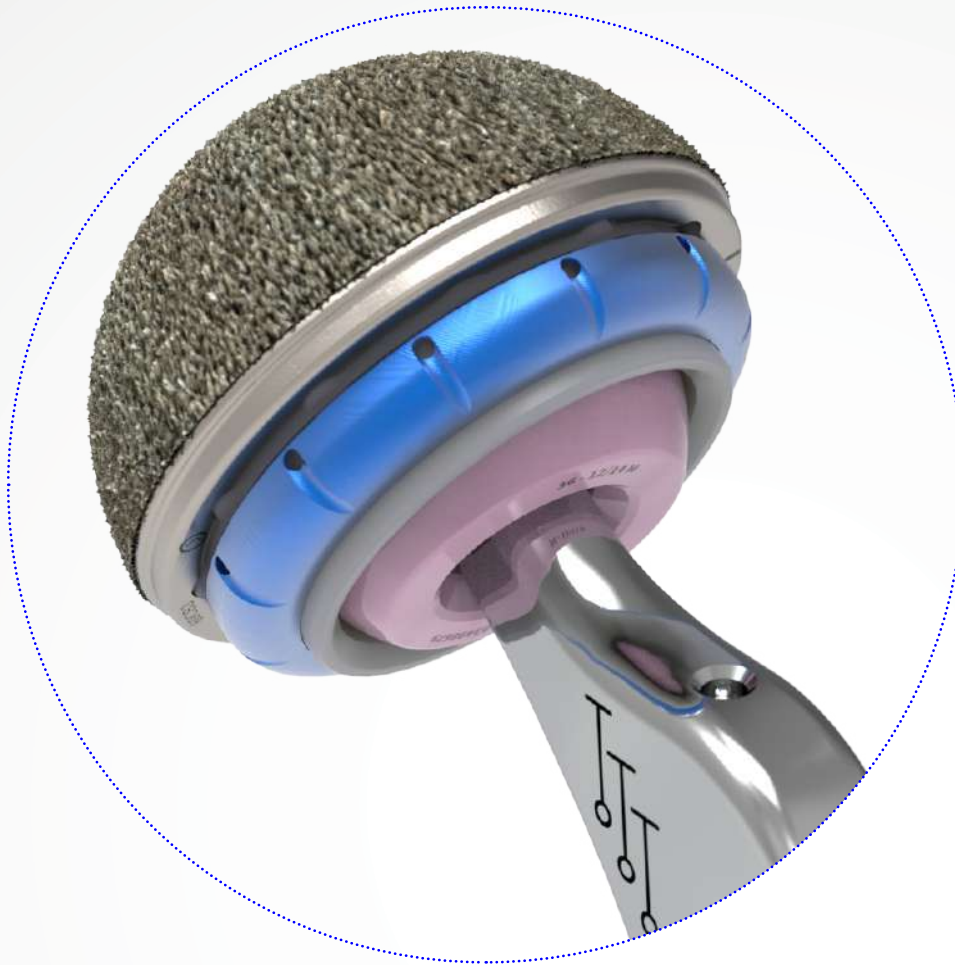
Screw holes are threaded for locking screws

Neutral, hooded, lateralised, ceramic, and constrained liner options

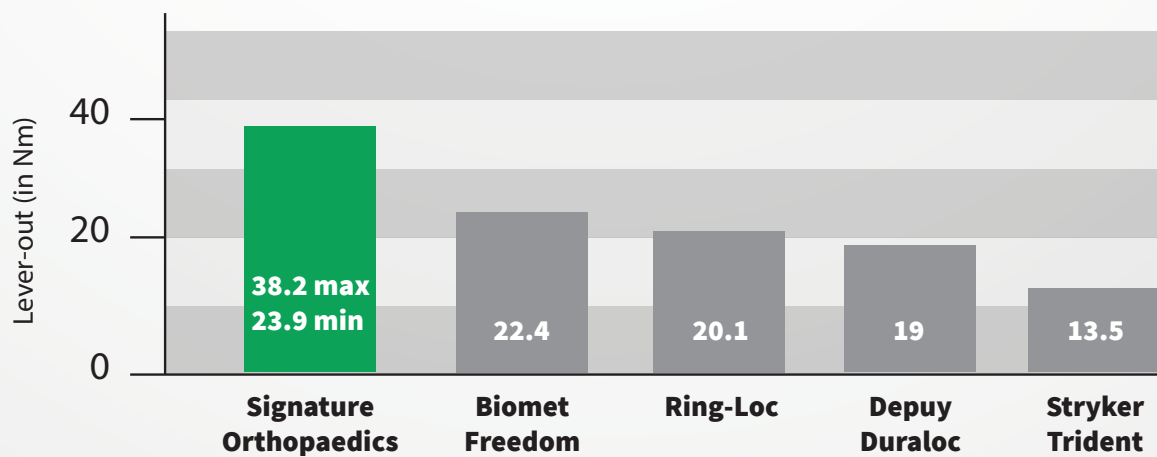
One instrument tray – the same instruments as for the primary Logical™ shell














LOGICAL™ CONSTRAINED LINER



Lever-out Strength²



LOGICAL™ SIZING TABLE

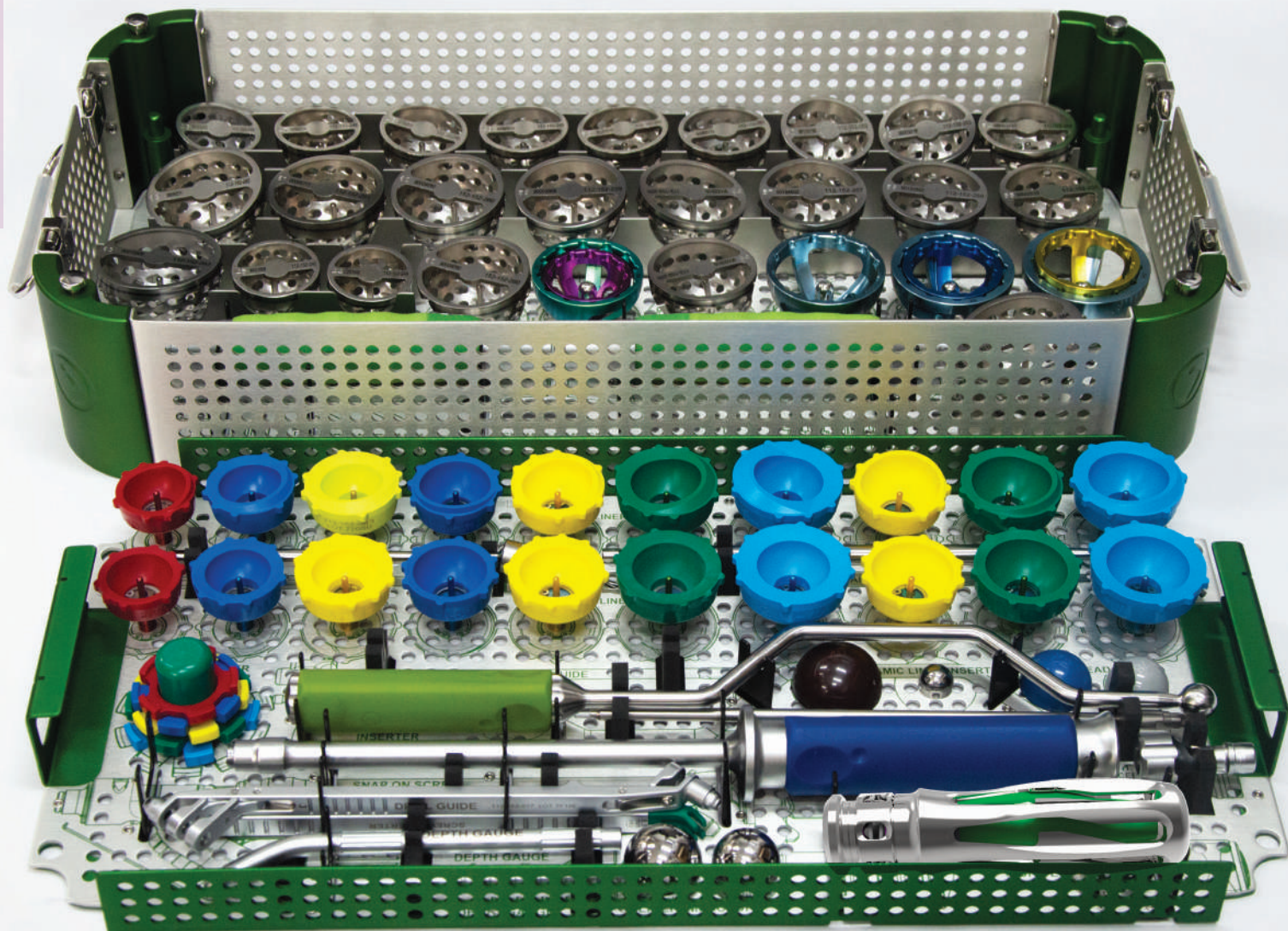
		 22*	 28	 32	 36	 40
Size 44 46  A		Dual Mobility* Constrained	Neutral Hooded Ceramic Lateralised			
Size 48 50  B		Dual Mobility*	Neutral Hooded Ceramic Constrained Lateralised	Neutral Hooded Ceramic Lateralised		
Size 50* 52 54  C			Neutral Hooded Ceramic Dual Mobility* Lateralised	Neutral Hooded Ceramic Lateralised Constrained	Neutral Hooded Ceramic Lateralised	
Size 56 58  D			Dual Mobility*	Neutral Hooded Ceramic Lateralised	Neutral Hooded Ceramic Lateralised Constrained	Neutral Hooded Ceramic Lateralised
Size 60 62 64 66 68 70  E			Dual Mobility*	Neutral Hooded Ceramic Lateralised	Neutral Hooded Ceramic Lateralised	Neutral Hooded Ceramic Constrained Lateralised
Size 54*  S						Neutral

LOGICAL™ INSTRUMENTS

ONE PAN OF INSTRUMENTS

Outer Tray

(Reamers, Reamer Handles + Trial Shells)



Removable Inner Tray

(Most Instruments + Trial Liners)

The secondary tray that is required only for very small and large statured patients not shown.



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