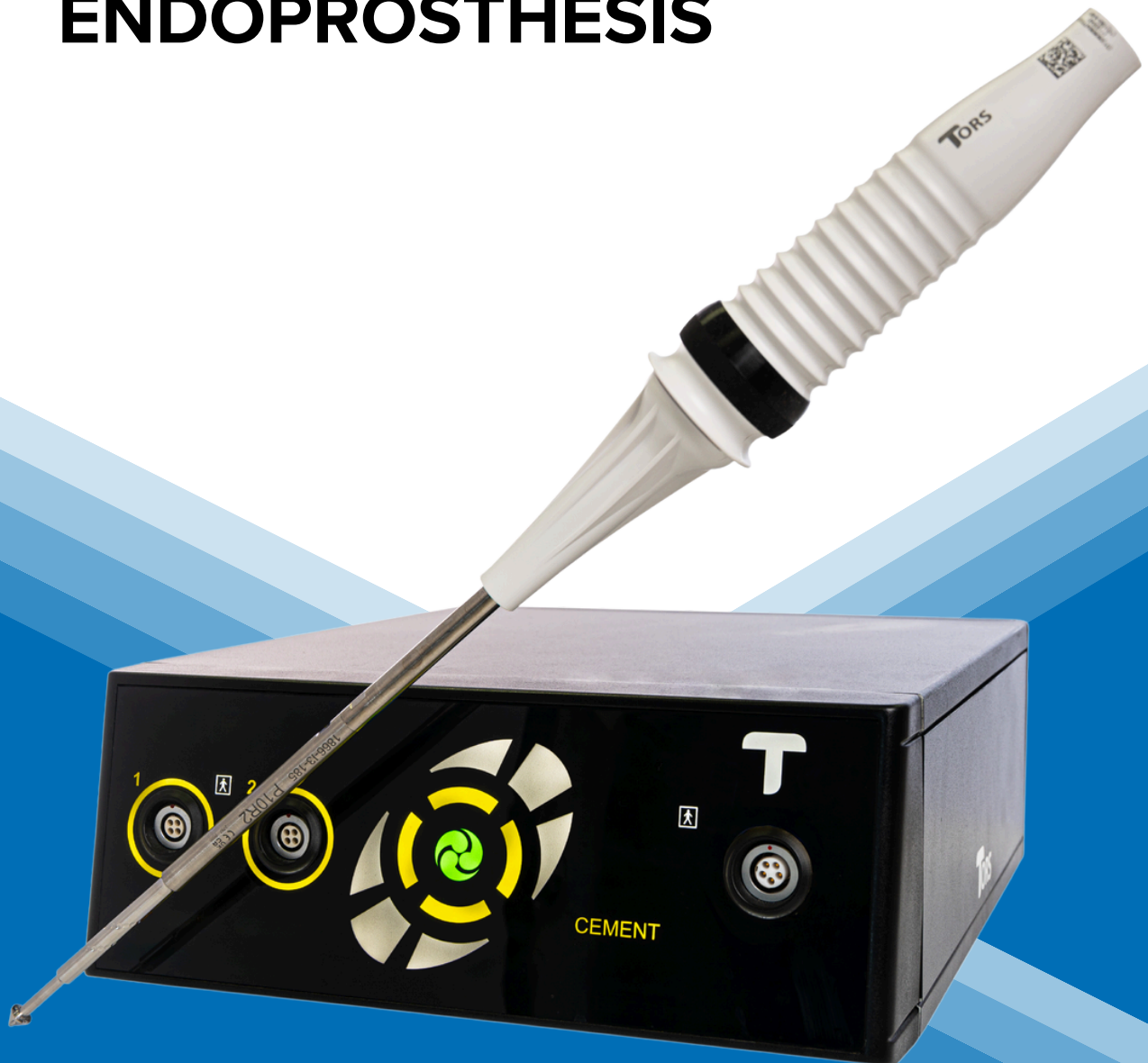


TORS

TORSIONAL ORTHOPAEDIC REVISION SYSTEM

DUAL MODE ULTRASOUND FOR REVISION OF CEMENTED ENDOPROSTHESIS



ULTRASONIC PMMA CEMENT REMOVAL



IN REVISION ARTHROPLASTY

“Efficient and safe cement removal is critical in revision arthroplasty. Conventional manual cement removal by hand or power-driven instruments can be time-consuming, require osteotomy, and be associated with complications such as cortical perforation, fracture, or bone loss.

Ultrasonic devices offer an alternative method of cement removal by converting mechanical vibrations into thermal energy, liquefying the cement.”

References: Goldberg SH, Studders EM, Cohen MS. Ultrasonic cement removal in revision arthroplasty. Orthopedics. 2007 Aug;30(8):632-5. doi: 10.3928/01477447-20070801-20. PMID: 17727019.

PERFORMANCE EASE OF USE RELIABILITY



TORS - ultrasonic system for PMMA bone cement removal

- Latest patented technology in ultrasonic cement removal
- A range of probe geometries
- Ergonomic handpiece with 360° annular switch
- Reliable and effective performance
- Simple set up



Application:



Hip



Knee



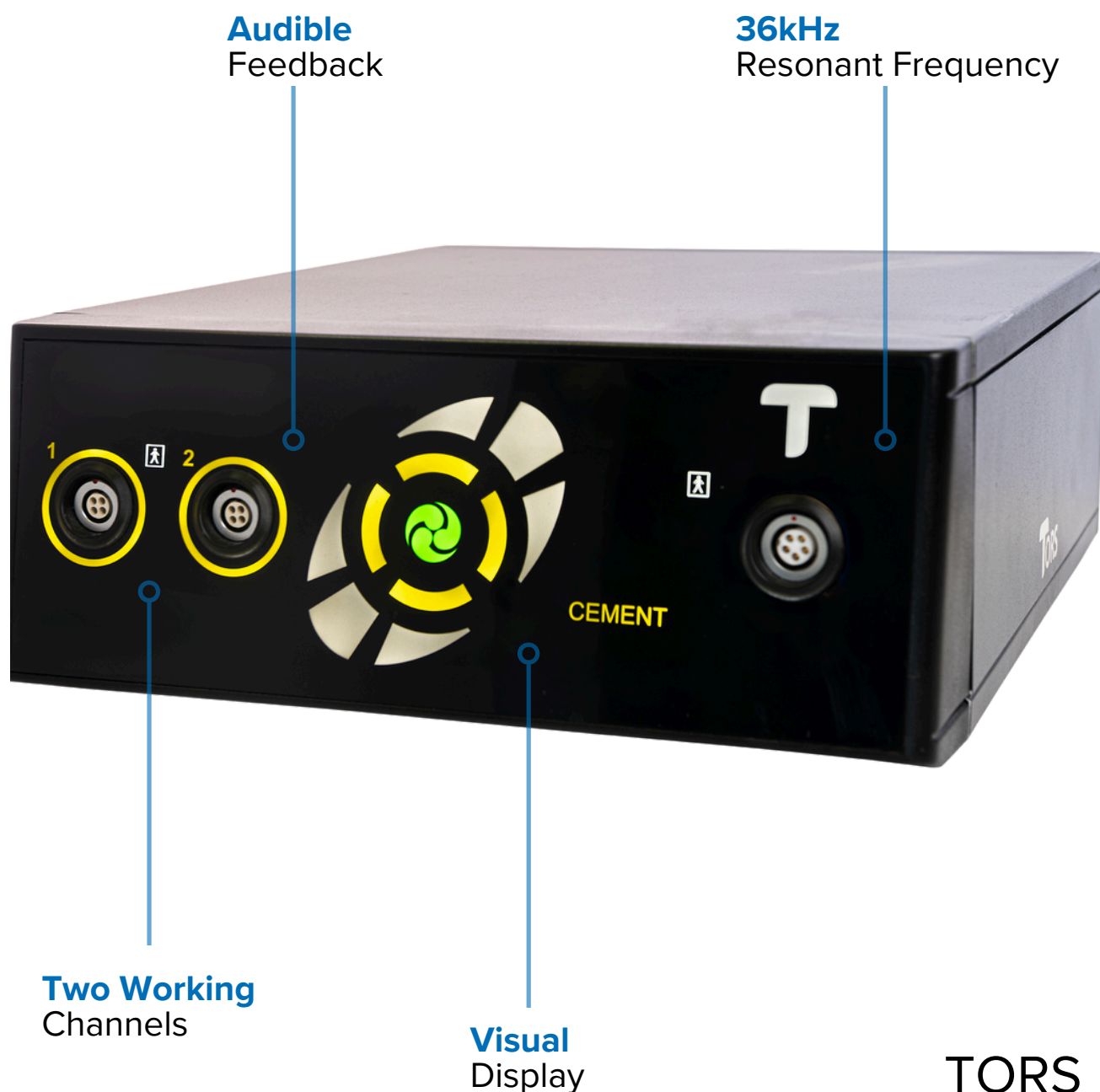
Elbow



Shoulder

SYSTEM OVERVIEW

TORS
TORSIONAL ORTHOPAEDIC REVISION SYSTEM



TORS
GENERATOR

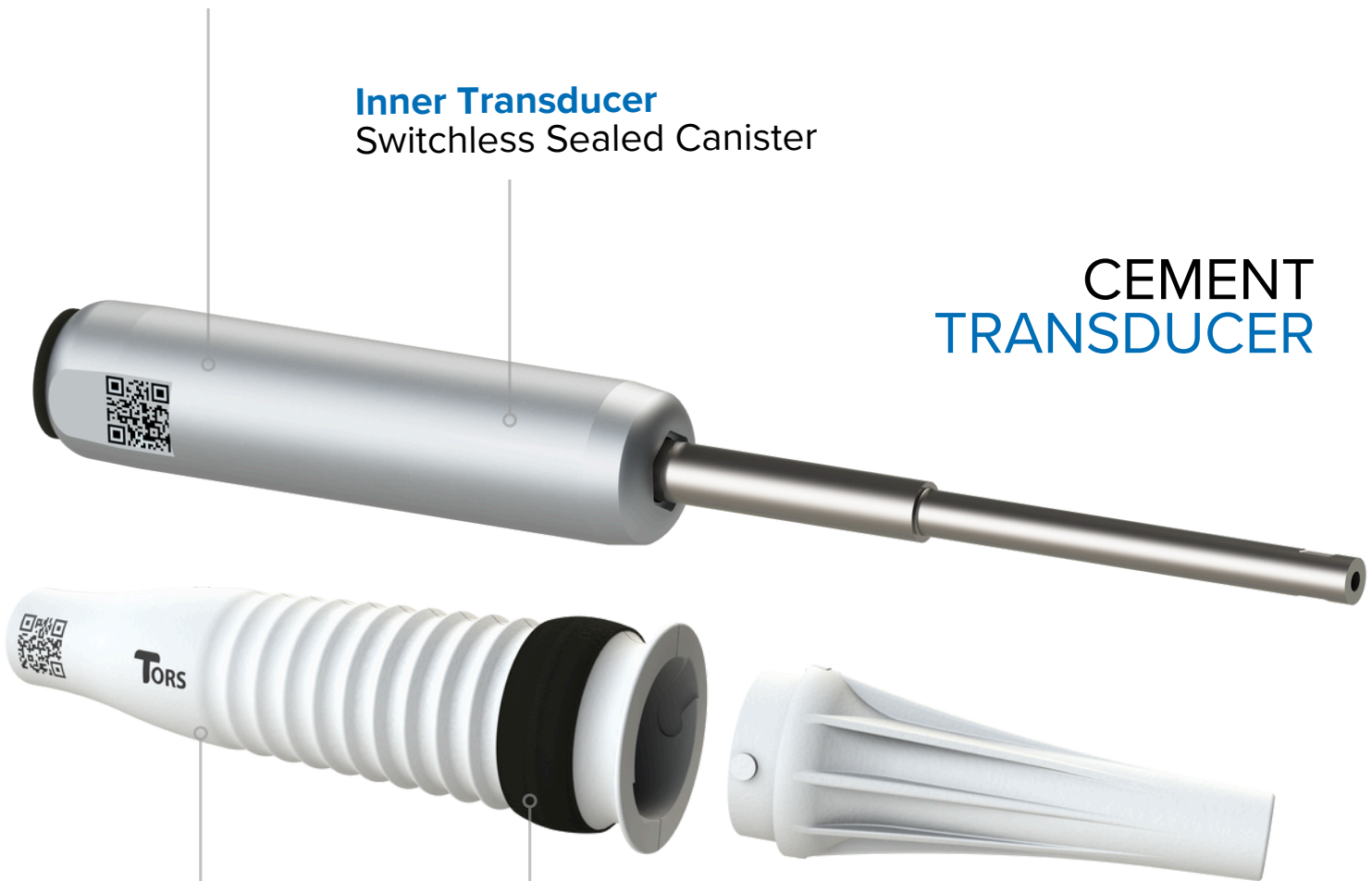
SYSTEM OVERVIEW

Cement Transducer

4 Piezo-Electric Crystals

Inner Transducer
Switchless Sealed Canister

CEMENT
TRANSDUCER



360°
Annular Hand Switch

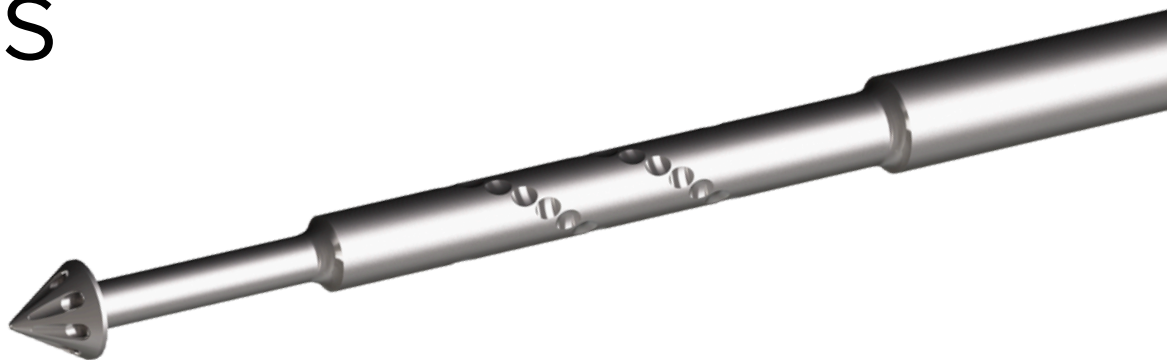
Ergonomic Handpiece
Protects Cement Transducer

AXIAL
HANDPIECE

SYSTEM OVERVIEW PROBES

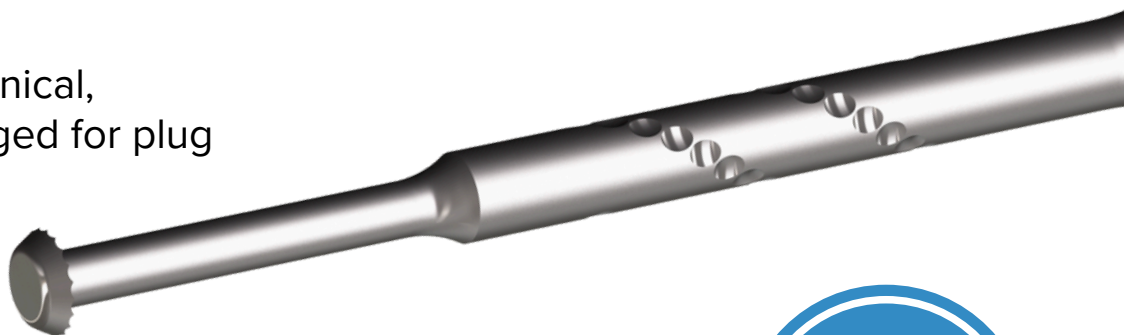
PIERCERS

- 6, 8, 10mm, conical,
- 4mm non-flanged for plug



SCRAPERS

- 6, 8, 10mm
- with serrated flange, designed for retrograde cement removal



Made from
Ti6-4 Titanium

Custom-made
options
available

EXTENSION BAR

- 70mm (short), 130mm (long)
- straight or curved to facilitate distal cement removal



TORS Kit

T1G
TORS Generator



T1CT
TORS Cement Transducer



T1CC
TORS Cement Cable



T1FC
TORS Cement Footswitch



Probes 200mm

P4R2
TORS Cement 200 Ø4
Piercer Probe



P6R2
TORS Cement 200 Ø6
Piercer Probe



P8R2
TORS Cement 200 Ø8
Piercer Probe



P10R2
TORS Cement 200 Ø10
Piercer Probe



Probes 100mm

P6R1
TORS Cement 100 Ø6
Piercer Probe



P8R1
TORS Cement 100 Ø8
Piercer Probe



S6R1
TORS Cement 100 Ø6
Scraper Probe



S8R1
TORS Cement 100 Ø8
Scraper Probe



Consumables

T1AH
TORS Axial Handpiece



T1CW
TORS Cleaning Cell

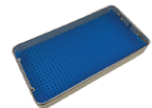


Accessories

T1S
TORS Spanner



T1AT
TORS Instrument Tray



S6R2
TORS Cement 200 Ø6
Scraper Probe



S8R2
TORS Cement 200 Ø8
Scraper Probe



S10R2
TORS Cement 200 Ø10
Scraper Probe



Extension Bars

ESR1
Straight Extension Bar
Short



ESR2
Straight Extension Bar
Long



ECR1
Curved Extension Bar
Short





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