

# VANCO GENX- SPACE® KNEE ATS

Simplified  
Stability



**TECRES**

ADVANCING HIGH TECHNOLOGY

Distributed by

**Summit**  
Medical 

# Vancogenx-Space® Knee ATS

Born from Tecres technology and innovation we are proud to present Vancogenx-Space® Knee ATS.

Vancogenx-Space® Knee ATS is a preformed knee spacer component that offers an augmented tibial stem (ATS) for an enhanced stability and mechanical strength\*. It is intended to be used always together with Vancogenx-Space® Knee, in case of patient with a severe tibial bone defect.

Vancogenx-Space® Knee ATS coupled with the tibial component of Vancogenx-Space® Knee is designed to create a tibial modulus that fills the bone defect, generating a knee spacer with a thicker tibial component plus a short stem, that enhances the strength and stability of the implant\*.



**33**

Peer Reviewed Clinical  
Papers in 28 centers  
worldwide

**1,525**

cases reported

**91.2%**

eradication rate

**56.5**

months average  
follow-up

Two-stage revision data using Tecres Spacer Line

## A perfect fit every time

Tecres provides the surgeon with an easy way to increase the tibial thickness in cases of severe tibial defects. Vancogenx-Space® Knee ATS is intended to optimize the fit of the device to the patient's anatomy and facilitate proper device positioning during surgical procedures. Positioning may be challenging in certain patients where the tibial bone defect is wide. Using a large quantity of bone cement to fill the gap would make it more difficult to obtain the correct positioning and the optimal coupling with the femoral component. Vancogenx-Space® Knee ATS coupled with the tibial component of Vancogenx-Space® Knee is designed to create a tibial modulus that optimally fills the bone defect. Vancogenx-Space® Knee ATS is available in 2 thickness options and 2 width options to guarantee a perfect fit every time.

## Unique design for enhanced stability\*

The device presents a stem which is designed to act as a guide during placement to facilitate positioning and reduce the risk of dislocation during application and reduction. The combination between Vancogenx-Space® Knee ATS and Vancogenx-Space® Knee generates a knee spacer with a thicker tibial component plus a short stem. From the mechanical point of view this combination is much more resistant as compared to Vancogenx-Space® Knee alone. When connected, corrugated surface and notch from ATS and keyhole from tibial component of Vancogenx-Space® Knee, are engineered for increased fixation, improving the overall mechanical strength of the implant.

## Safe and effective AB release

Vancogenx-Space® Knee ATS is engineered with the same PMMA technology of our Vancogenx-Space® Line. This means that from the pharmacological point of view the combined antibiotic release of Gentamicin and Vancomycin is safe and effective. Release performances are known and reproducible, making Vancogenx-Space® Knee ATS a reliable and safe choice. Two-stage exchanges with the use of Tecres Spacer Line have shown eradication rates greater than 91% in more than 1,500 cases reported.<sup>1</sup>

## Synergistic Antibiotics Action

When combined, Gentamicin and Vancomycin have a synergistic action against bacteria.<sup>2,3,4</sup> Their range of action covers approximately 90% of the pathogenic agents generally isolated in surgical infections.<sup>5</sup> The Gentamicin and Vancomycin combination is the most commonly used and published combination in cases of concomitant treatment of orthopaedic infections.<sup>6,7</sup>

\*compared to using the Vancogenx®-Space Knee alone

	GRAM+					GRAM-	
	MRS Methicillin Resistant Staphylococci	MSS Methicillin Susceptible Staphylococci	Enterococci	Streptococci	Cutibacteria	Enterobacteriaceae	Pseudomonas spp
Gentamicin	Medium	Low	Medium		-	Medium	
Vancomycin	High				Medium	-	-
Gentamicin and Vancomycin	Synergistic			High	Medium		

## + Advantages

### EASY TO USE

- Preformed and ready to use
- Fast and easy implantation
- 4 different size options for a perfect fit every time
- Stem complemented by fins, designed to act as a guide to facilitate positioning and reduce the risk of dislocation during application and reduction

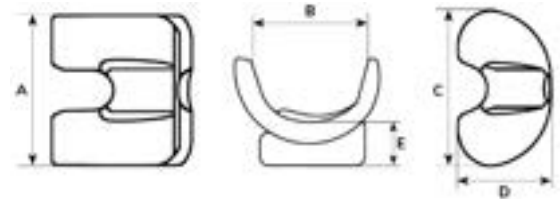
### SAFE AND EFFECTIVE

- Enhanced stability for patients with severe tibial defects\*
- Two thickness options to address bone defects and lack of stability
- Enhanced mechanical strength, thanks to the engineered combination with Vancogenx-Space® Knee that increases fixation

### DUAL ANTIBIOTIC SYNERGY

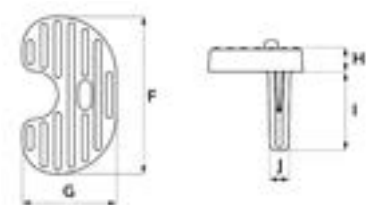
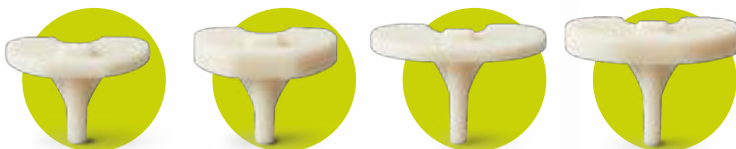
- Safe and effective antibiotic release
- Synergistic action of exclusive antibiotic combination Gentamicin and Vancomycin
- Eradication rate greater than 91% in two-stage revision using Tecres Spacer Line

## Vancogenx-Space® Knee



Ref.	Size	Dimensions (mm)					Gentamicin base	Vancomycin base
		A	B	C	D	E		
SPK0030	Small (S)	54	40	60	36	16	0,9 g	0,9 g
SPK0130	Medium (M)	64	47	70	42	17	1,3 g	1,3 g
SPK0230	Large (L)	74	54	80	48	18	1,8 g	1,8 g
SPK0330	Extra Large (XL)	84	61	90	54	19	2,7 g	2,7 g

## Vancogenx-Space® Knee ATS



Ref.	Vancogenx-Space® Knee pairing	Dimensions (mm)					Gentamicin base	Vancomycin base
		F	G	H	I	J		
SPK0430	S or M	60	36	7	32	11	0,3 g	0,3 g
SPK0530	S or M	60	36	12	32	11	0,5 g	0,5 g
SPK0630	L or XL	80	48	7	40	11	0,5 g	0,5 g
SPK0730	L or XL	80	48	12	40	11	0,8 g	0,8 g

## Bibliography

1. **Data on file**
2. Watanakunakorn C, Bakie C. **Synergism of vancomycin-gentamicin and vancomycin-streptomycin against enterococci.** *Antimicrob Agents Chemother.* 1973 Aug;4(2):120-4.
3. Watanakunakorn C, Tisone JC. **Synergism between vancomycin and gentamicin or tobramycin for methicillin-susceptible and methicillin-resistant Staphylococcus aureus strains.** *Antimicrob Agents Chemother.* 1982 Nov;22(5):903-5.
4. E. Bertazzoni Minelli, T. Della Bora, A. Benini. **Different microbial biofilm formation on polymethylmethacrylate (PMMA) bone cement loaded with gentamicin and vancomycin Anaerobe.** 2011 Dec; 17(6): 380-3
5. Trampuz A, Zimmerli W. **Prosthetic joint infections: update in diagnosis and treatment.** *Swiss Med Wkly.* 2005 Apr 30;135(17-18):243-51. Review.
6. Masri BA, Duncan CP, Beauchamp CP. **Long-term elution of antibiotics from bone-cement: an in vivo study using the prosthesis of antibiotic-loaded acrylic cement (PROSTALAC) system.** *J Arthroplasty.* 1998 Apr;13(3):331-8.
7. Anagnostakos K, Fink B. **Antibiotic-loaded cement spacers - lessons learned from the past 20 years.** *Expert Rev Med Devices.* 2018 Mar;15(3):231-245.

Distributed by:



Bourton Industrial Park, Bourton on the Water, Gloucestershire, GL54 2HQ, United Kingdom

Tel: +44 (0)1451 821311

Email: [info@summit-medical.co.uk](mailto:info@summit-medical.co.uk)

Web: [www.summit-medical.co.uk](http://www.summit-medical.co.uk)



**TECRES**  
ADVANCING HIGH TECHNOLOGY