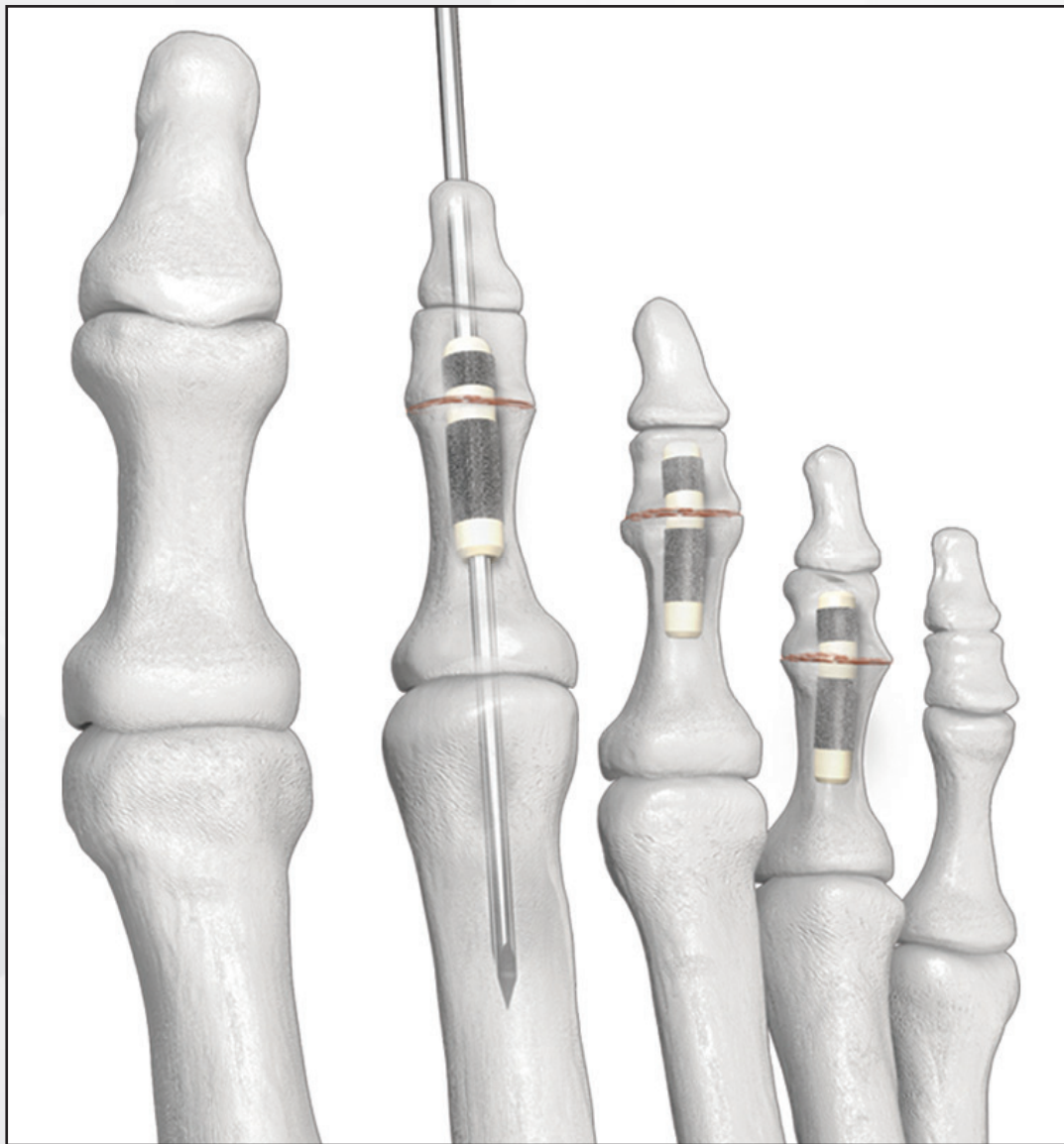


HAMMERTUBE[®] SYSTEM

HammerTube[™] System



The HammerTube™ System is intended for use in the fixation of hammertoe correction including fusion, reconstruction, and revision procedures.

HAMMERTUBE™ FEATURES

Implant Composition

- ▶ Constructed from PEEK (Polvetheretherketone)
 - More elastic than titanium and stainless steel; less likely to broach bone if bone comes in contact with a hard surface
- ▶ Coated with a titanium plasma spray
 - Spray amounts have been optimized to be coarse and aid in the stick fit of the implant
 - Limits the chance of spray becoming loose during insertion
 - Limits the chance of spray being left behind in patient in the case of removal
- Titanium plasma spray is absent at the joint (pure PEEK joint) to facilitate removal
 - For removal, only PEEK material should be sawed through




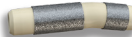


Shape and Sizing

- ▶ Tapered ends allow for ease of insertion and press fit
- ▶ Offered in Ø2.75 mm and Ø3.50 mm diameters
- ▶ Straight and angled offerings

Packaging and Instrumentation

- ▶ Instrumentation in the system is cannulated to accommodate either a trocar or guidewire
 - Allows for a standard direct drilling and insertion or retrograde insertion technique
- ▶ Implants sterile packed to allow for traceability and to maintain implant integrity

IMPLANT OFFERINGS

	HAMMERTUBE™ SYSTEM IMPLANTS			
	Available in four different configurations			
	2.75 HammerTube™ Straight	2.75 HammerTube™ Angled	3.50 HammerTube™ Straight	3.50 HammerTube™ Angled
				
Diameter	Ø2.75 mm	Ø2.75 mm	Ø3.50 mm	Ø3.50 mm
Length	14 mm	14 mm	16 mm	16 mm
Angle	0°	10°	0°	10°

HAMMERTUBE™ SYSTEM SCIENCE

Titanium Plasma Spray

The HammerTube implant is coated both proximally and distally with a porous titanium spray to increase mechanical fixation on either side of the joint when compared to uncoated implants.

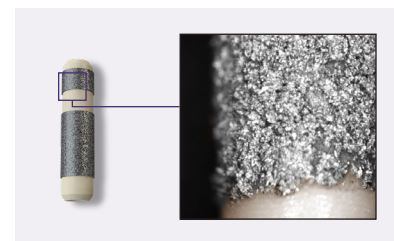
Shear Strength of Titanium Plasma Spray to PEEK vs. Bone

Internal testing has demonstrated the adherence strength of the titanium plasma spray to the surface of the PEEK implant exceeds that of the titanium plasma spray to bone. This helps to ensure that in the case of removal the spray will remain fixed to the implant—not the patient.²

Drill to Plasma Spray Outer Diameter Ratio

Internal testing was completed to determine the appropriate drill diameter to prepare bone for the implant with a given plasma spray diameter.

In order to achieve this optimum outer diameter of spray and ensure enough spray to allow for bone on-growth while minimizing the chance of broaching, a limited amount of the titanium plasma spray was inset into the PEEK portion of the implant.³



HAMMERTUBE™ PACKAGING AND INSTRUMENTATION



Inserter

- ▶ Intended to control the depth to which the implant will be placed
- ▶ Press release mechanism which frees the implant from the inserter at the appropriate depth
- ▶ May be reprocessed reducing waste associated with each case



Planer

- ▶ Fluted tip to aid in preparation of either side of the joint space
- ▶ Trocar insert to limit skiving during reaming

HAMMERTUBE[®] SYSTEM

HammerTube™ System


References:

¹Kurtz S, Devine J, PEEK Biomaterials in Trauma, Orthopedic, and Spinal Implants. Biomaterials. 2007. Nov 28 (32): 4845-4869.

²Test Report 17011702

³Test Report 17011703

HTUB-01 Rev F
2023-09-18

Paragon 28[®], Inc. 
14445 Grasslands Dr.
Englewood, CO 80112 USA
(855) 786-2828

Paragon 28[®] Medical Devices Trading Limited
First Floor Block 7 Beckett Way
Park West Business Park
Dublin 12
D12 X884
Ireland
+353 (0) 1588 0350

Exclusively foot & ankle **28**
Paragon[®]

www.Paragon28.com

[™]Trademarks and [®]Registered Marks of Paragon 28[®], Inc.
© Copyright 2023 Paragon 28[®], Inc. All rights reserved.
Patents: www.paragon28.com/patents

For the contraindications, potential complications and adverse reactions, warnings and precautions associated with this device, please refer to the device specific instructions for use at <http://www.paragon28.com/ifus>