

WRIST & FOREARM SET



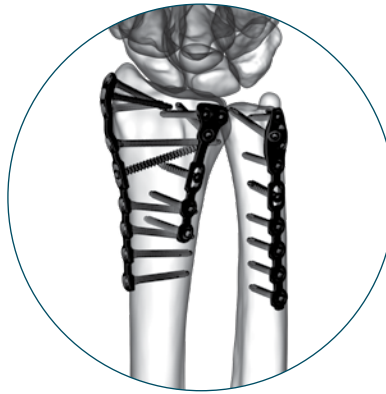
The complete wrist & forearm trauma solution

A comprehensive system for wrist & forearm trauma

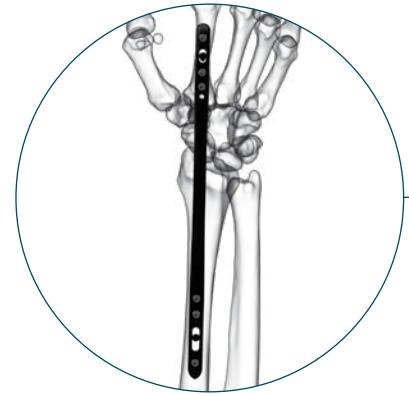
DISTAL RADIUS



GEMINUS®
distal radius system

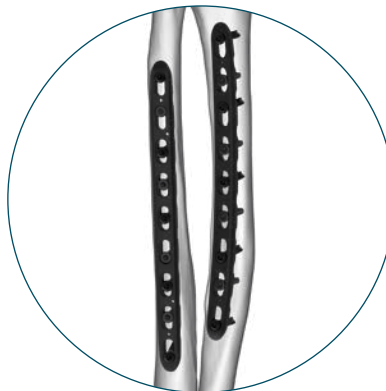


PROTEAN®
fragment plating technology



**DORSAL SPANNING
PLATE**

FOREARM TRAUMA

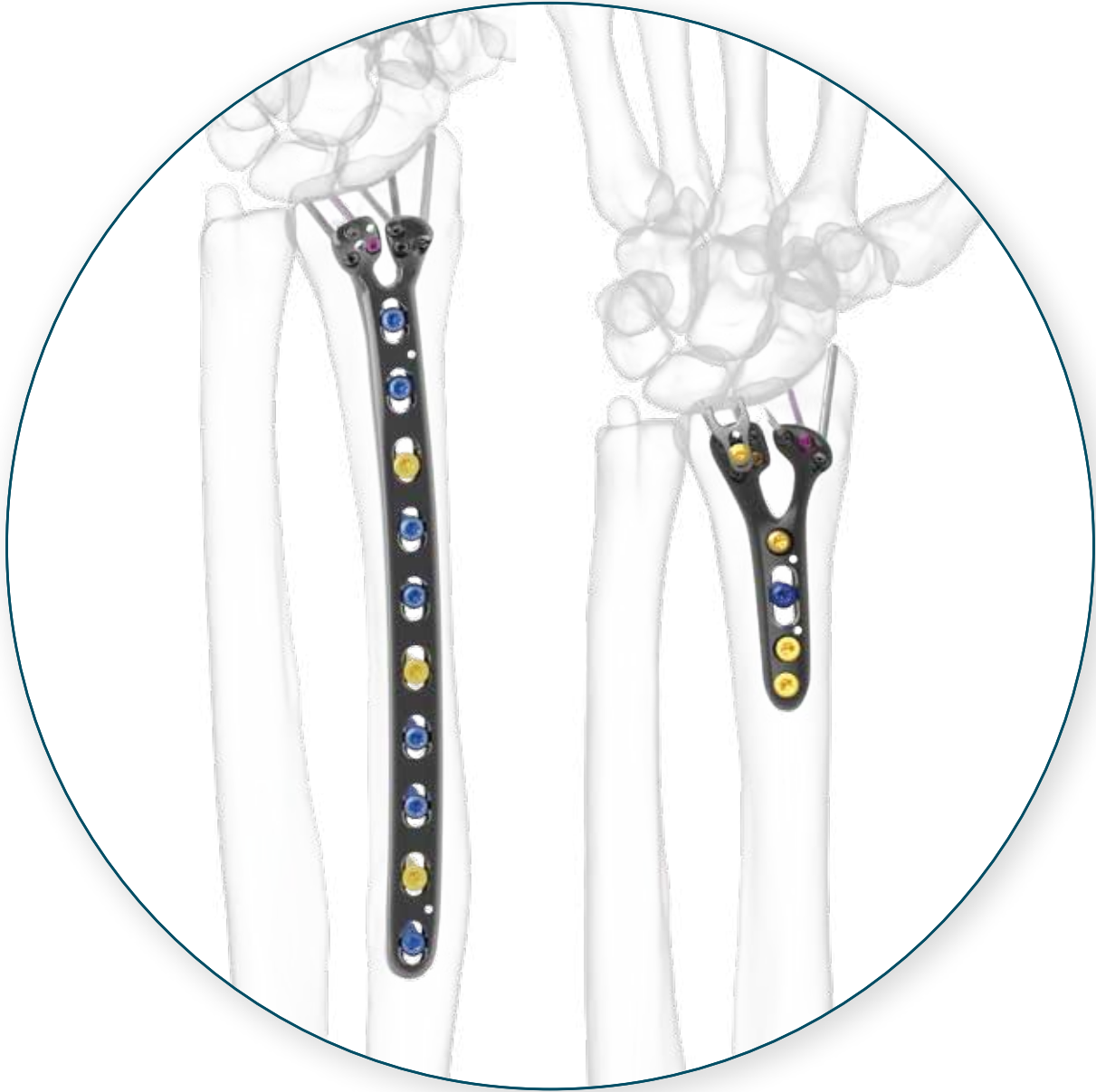


FREEFIX®
forearm plating system



GEMINUS[®]

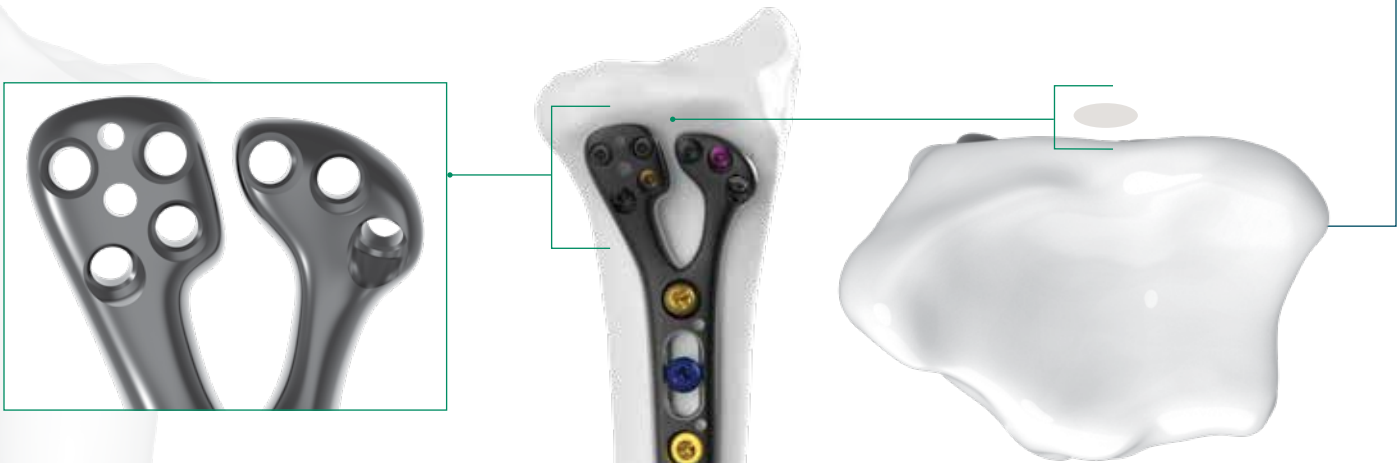
volar plating system



Two heads are better than one

Optimized subchondral support while minimizing the potential for soft tissue injury

Dual head design protects flexor tendons by providing the lowest profile at the watershed line¹



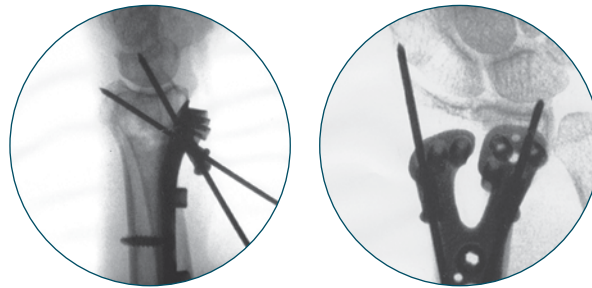
Screw trajectories designed to provide optimal subchondral support



Innovative tools to facilitate surgery

Ready, AIM, fire

AIMing Guides
Pre-inserted distal drill guides
to confirm reduction and
screw trajectories prior to
screw insertion



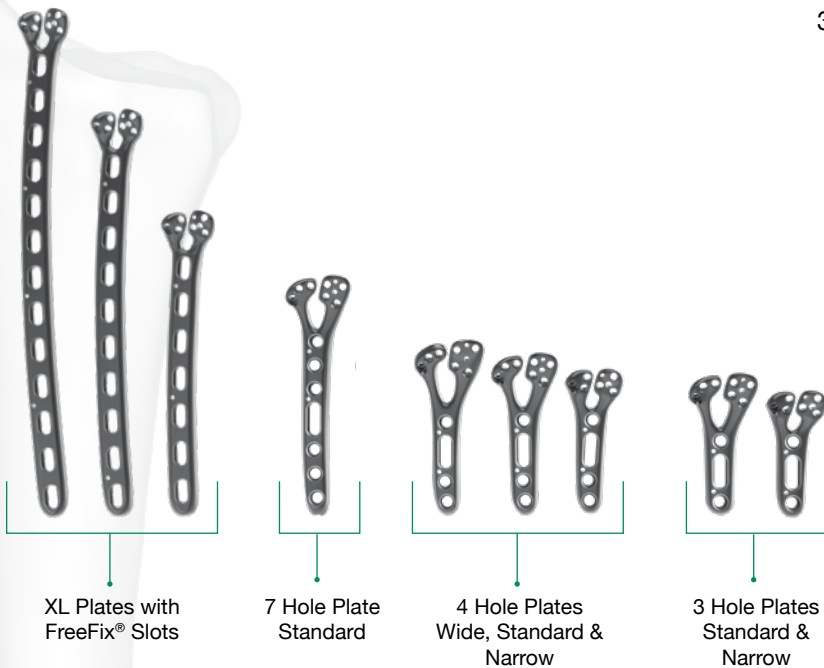
Don't let your case be *marginal-ized*

Hook Plate Option
extends fixation to secure
volar marginal fragments



Customize your construct

Multiple implant options



3.5mm Cortical Compression
Non-Locking Screw



3.5mm Cortical
Locking Screw



2.7mm Compression
Non-Locking Screw



2.0mm Smooth
Locking Peg



2.3mm Threaded
Locking Screw



2.5mm Cannulated
Polyaxial Locking Screw



2.7mm High Compression
Locking Screw

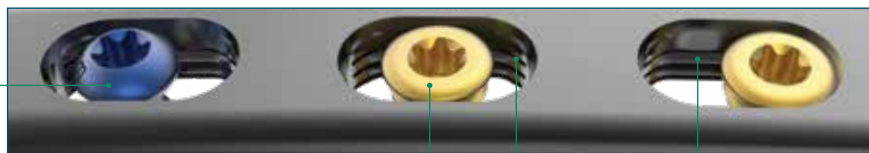


9 PLATE LENGTHS
46mm - 200mm

3 PLATE WIDTHS
Narrow, Standard, Wide

7 SCREW OPTIONS
1mm Increment Lengths

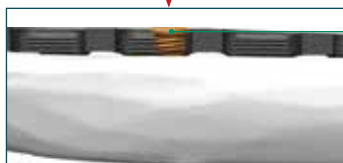
FreeFix® technology allows the fracture to dictate screw placement



Both compression and locking screws can be inserted in any position in FreeFix® slots

Patented horizontal thread pattern allows dynamic compression with locking screws

Head of the eccentrically placed screw engages the plate, compressing the fracture

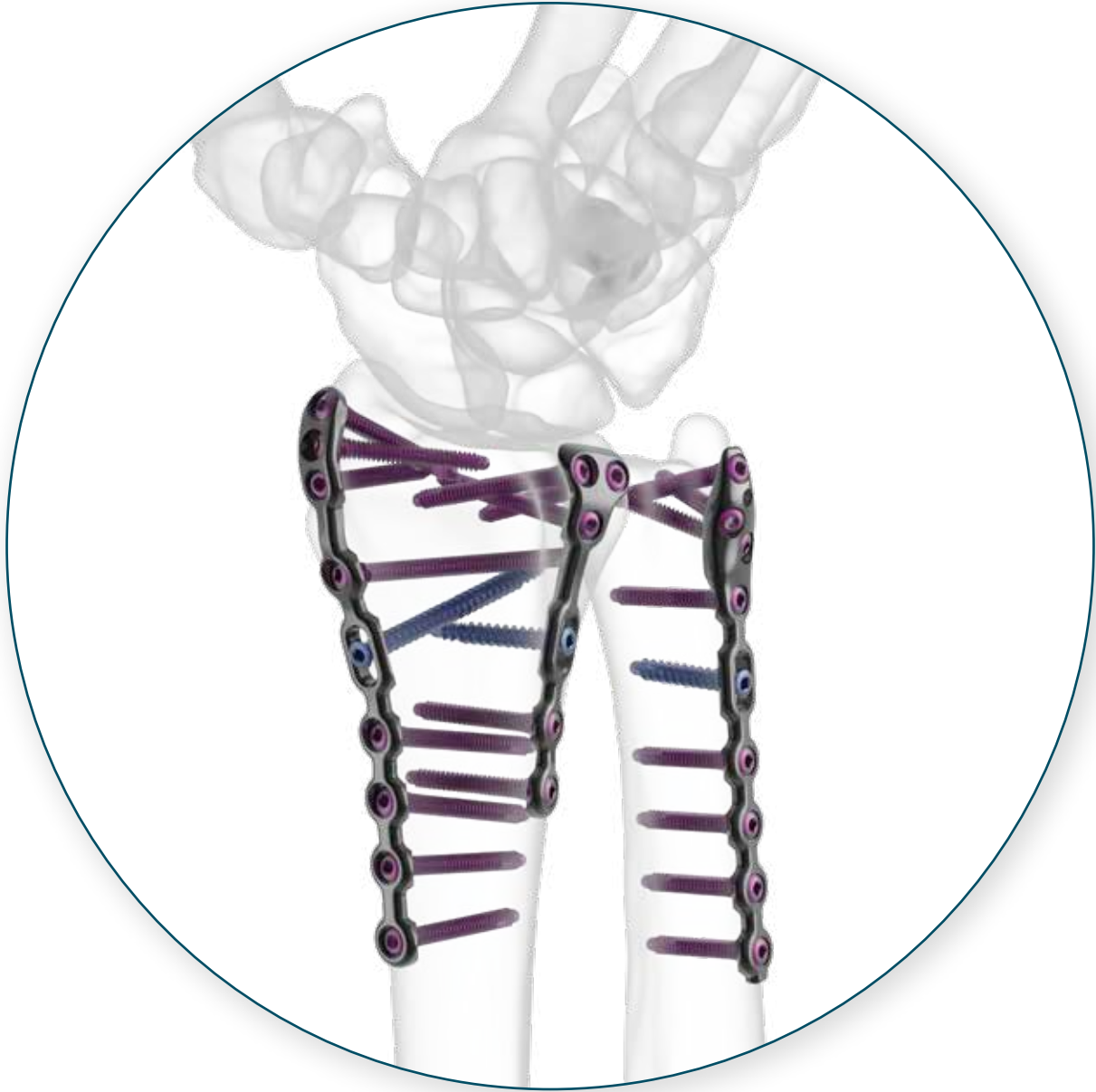


Locking screw engages the patented, horizontal threads, locking the screw into the plate



PROTEAN[®]

fragment plating technology

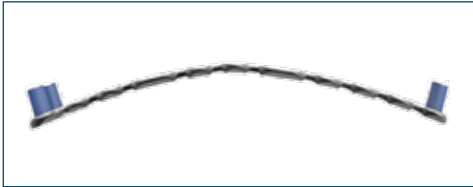


Custom contouring

True in-situ contouring after screw insertion

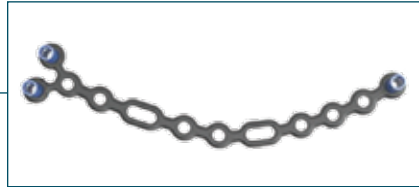
Malleable in three planes

Vertical Plane



20° PER NODE

Horizontal Plane



5° PER NODE

Transverse Plane

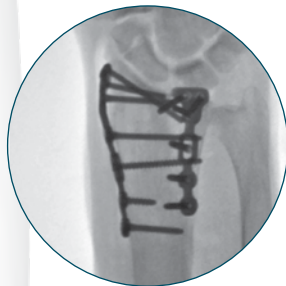


30° PER NODE

Low profile, indication specific options designed for optimal subchondral support



Radial Column



Central Column



Distal Ulna

Additional fragment plating options:



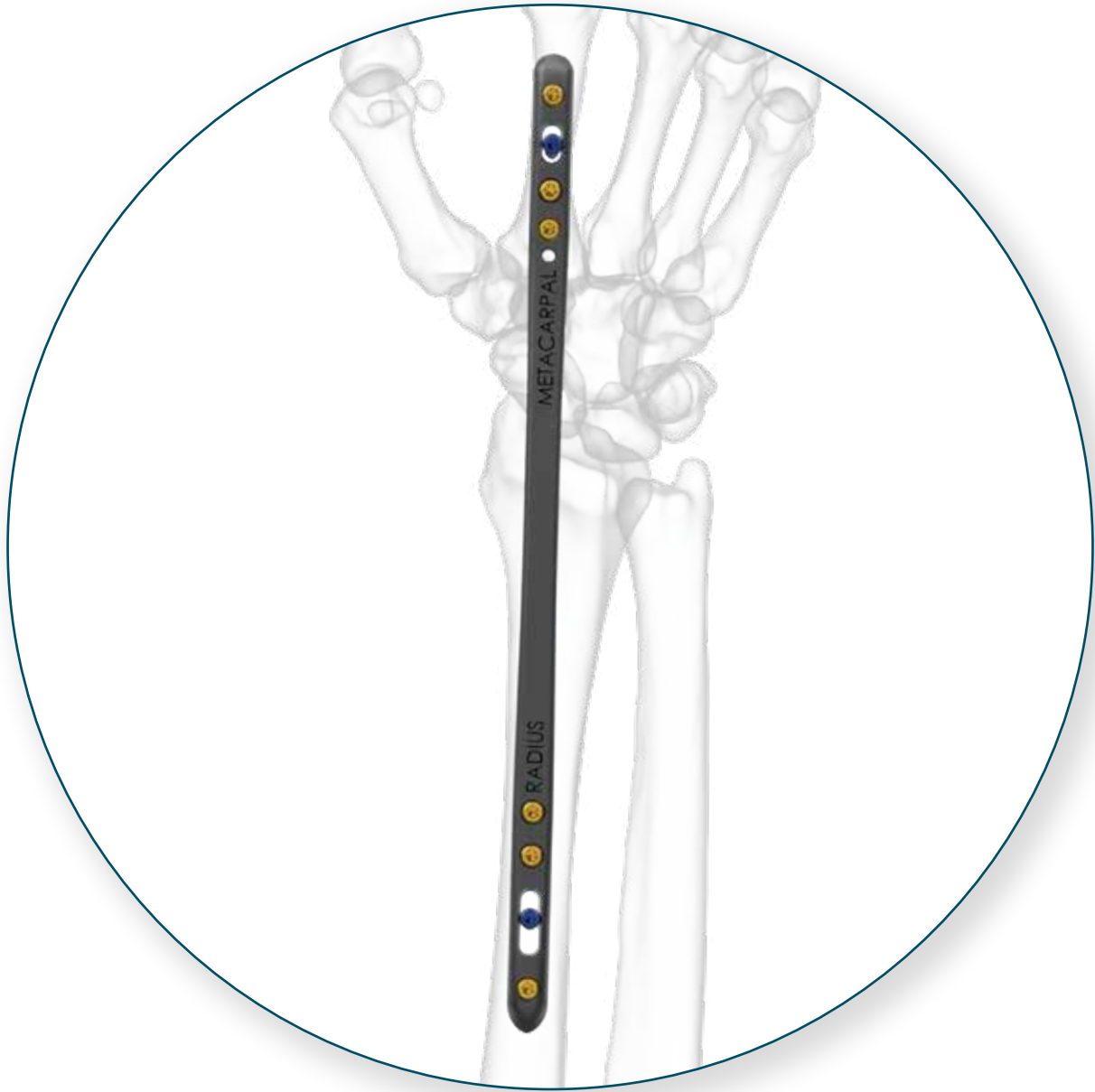
Double Hockey Stick



Y - Straight



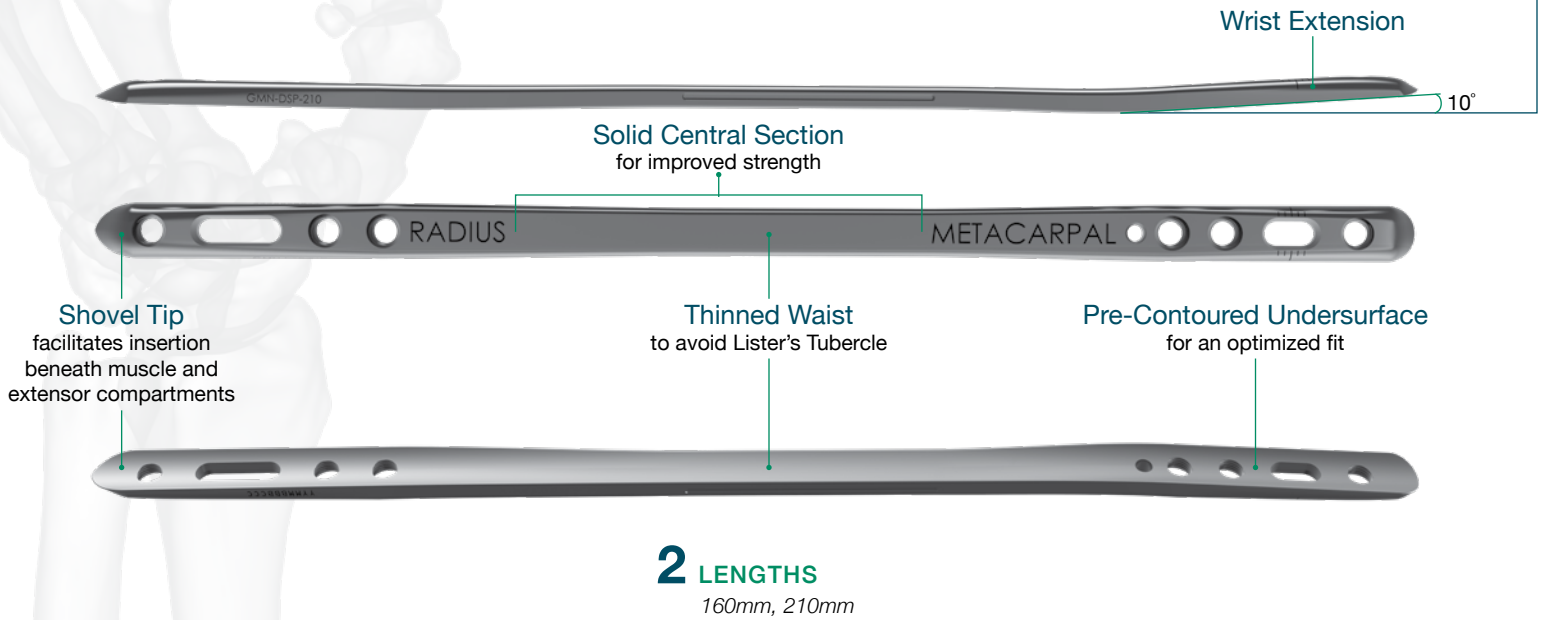
DORSAL SPANNING PLATE



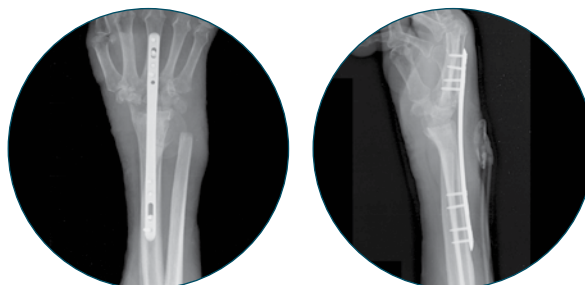
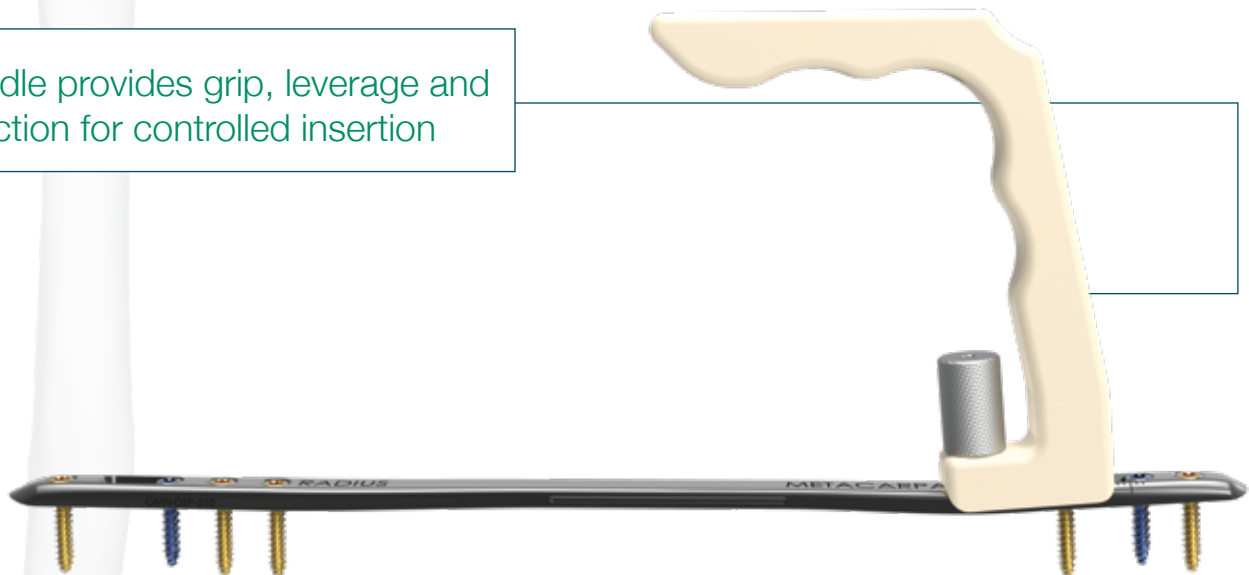
Anatomically designed bridge plate
facilitates insertion and improves reduction

Designed to improve the intraoperative and postoperative experience

10° of volar apex angulation places the hand in a position of improved function

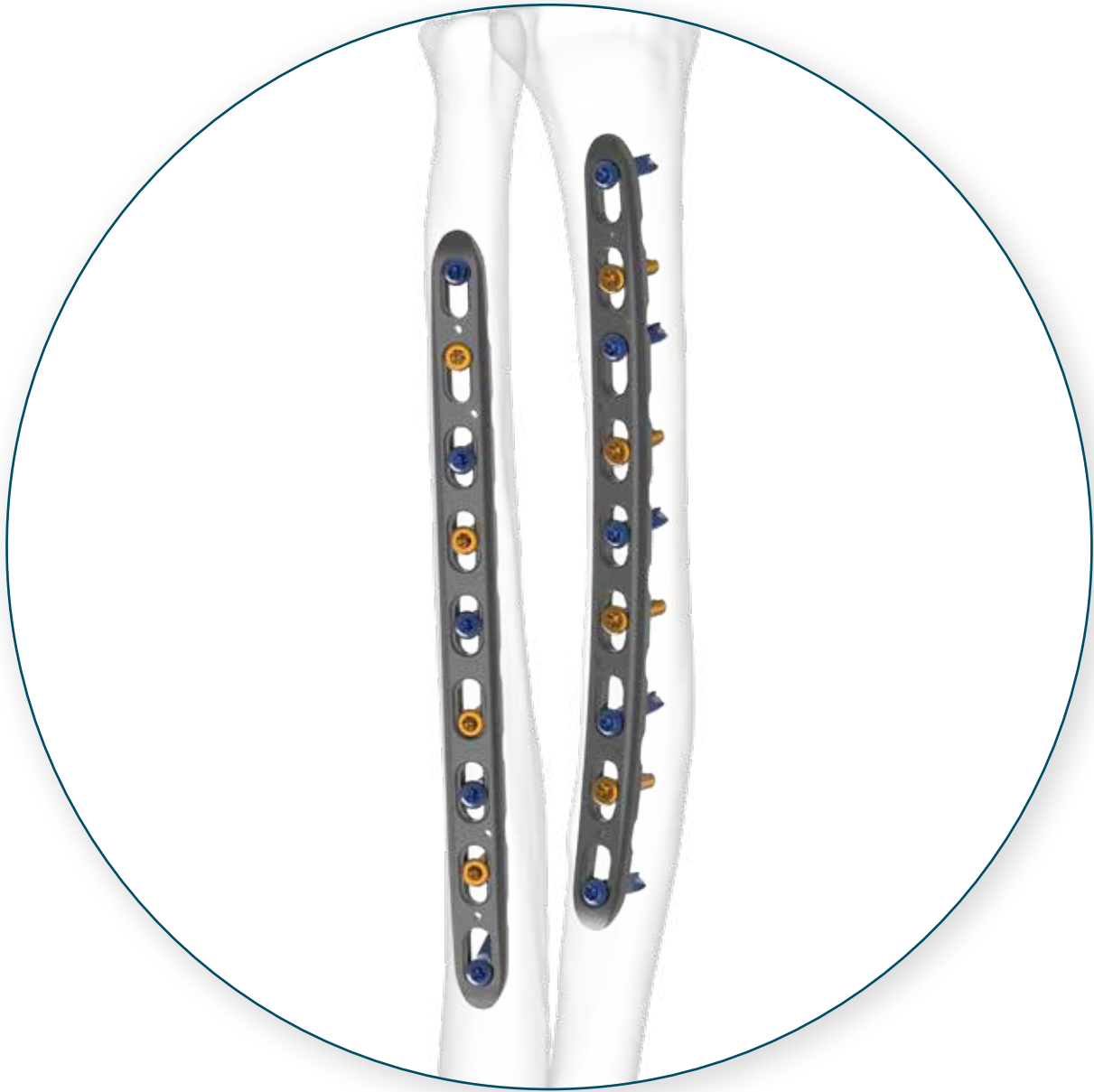


Handle provides grip, leverage and direction for controlled insertion



FREEFIX[®]

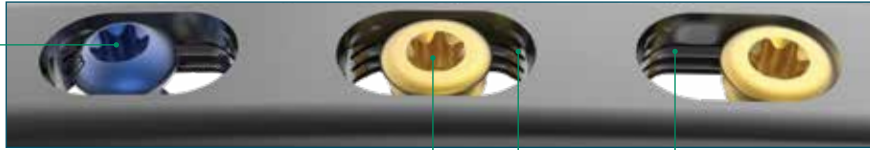
forearm plating system



The next generation of locking plate design

Designed with flexibility in mind

FreeFix® technology allows the fracture to dictate screw placement



Both compression and locking screws can be inserted in any position in FreeFix® slots

Patented horizontal thread pattern allows dynamic compression with locking screws

Head of the eccentrically placed screw engages the plate, compressing the fracture

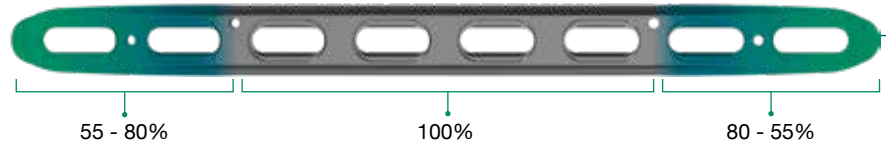


Locking screw engages the patented, horizontal threads, locking the screw into the plate



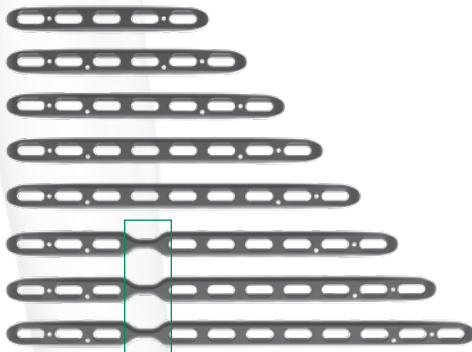
Callomimetic design mimics callus formation

Plate strength is decreased over the length of the plate to address stress shielding by unloading stress to the bone



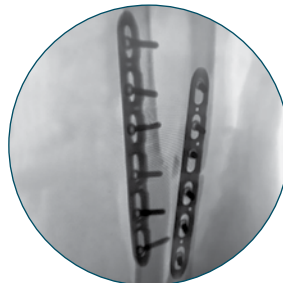
Percentage of plate strength

Indication specific options for the radius and ulna

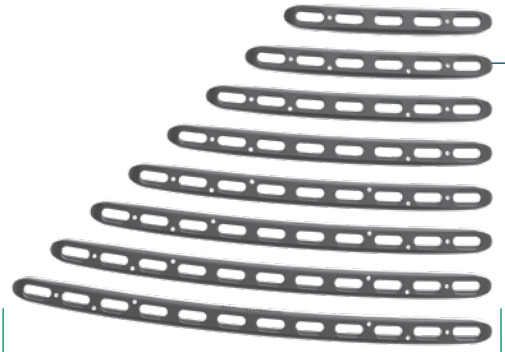


Midshaft Ulna Plate:
81mm - 188mm

Thinned waist allows contouring for more proximal indications



Curved to fit the anatomy of the radius



Midshaft Radius Plate:
81mm - 188mm



PUBLISHED CLINICAL DATA

GEMINUS®

¹Limthongthang R, Bachoura A, Jacoby SM, Osterman AL. (2014) Distal Radius Volar Locking Plate Design and Associated Vulnerability of the Flexor Pollicis Longus. *J Hand Surg Am*, 30(5): 852-860. DOI: 10.1016/j.jhsa.2014.01.038

²Salas C, Brantley JA, Clark J, Reda Taha M, Myers OB, Mercer D. (2018) Damage in a Distal Radius Fracture Model Treated With Locked Volar Plating After Simulated Postoperative Loading. *J Hand Surg Am*, 43(7): 679.e1-679.e6. DOI: 10.1016/j.jhsa.2017.12.019

³Orbay JL, Rubio F, Vernon LL. (2016) Prevent Collapse and Salvage Failures of the Volar Rim of the Distal Radius. *J Wrist Surg*, 5(1): 17-21. DOI: 10.1055/s-0035-1570745

TECHNIQUE RELATED

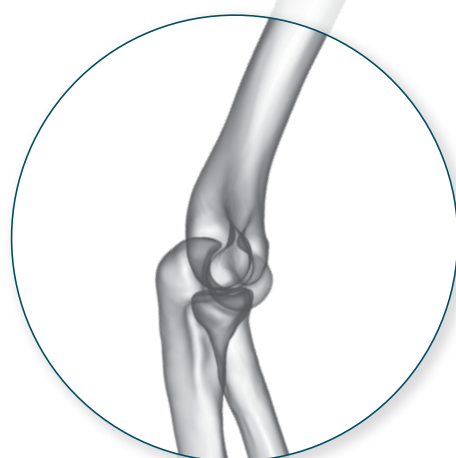
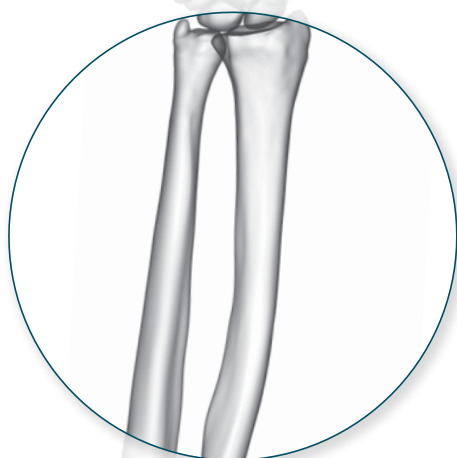
⁴Orbay JL, Gray R, Vernon LL, Sandilands SM, Martin AR, Vignolo SM. (2016) The EFR Approach and the Radial Septum- Understanding the Anatomy and Improving Volar Exposure for Distal Radius Fractures: Imagine What You Could Do With an Extra Inch. *Tech Hand Up Extrem Surg*, 20(4): 155-160. DOI: 10.1097/BTH.0000000000000139

⁵Orbay JL, Badia A, Indriago IR, Infante A, Gonzalez E, Fernandez DL. (2001) The Extended Flexor Carpi Radialis Approach: A New Perspective for the Distal Radius Fracture. *Tech Hand Up Extrem Surg*, 5(4): 204-211. DOI: 10.1097/00130911-200112000-00004

⁶Orbay J, Shah A, White BD, Patel A, Vernon L. (2016) Volar Plating as a Treatment for Distal Radius Fractures. *Plast Reconstr Surg Glob Open*, 4(9): e1041. DOI: 10.1097/GOX.0000000000001041



UNDERSTANDING THE UPPER EXTREMITY



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