WRIST & FOREARM SET



The complete wrist & forearm trauma solution

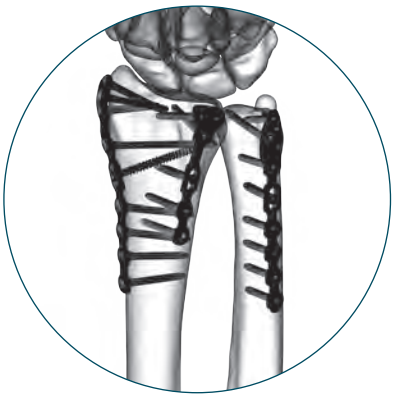
skeletal dynamics®

A comprehensive system for wrist & forearm trauma

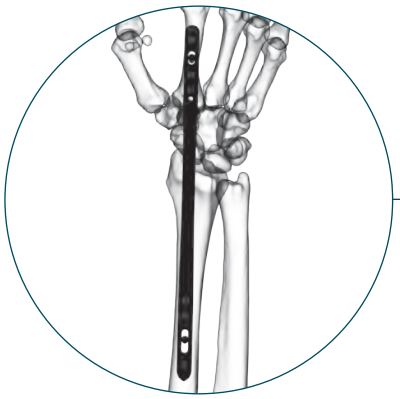
DISTAL RADIUS



GEMINUS®
distal radius system

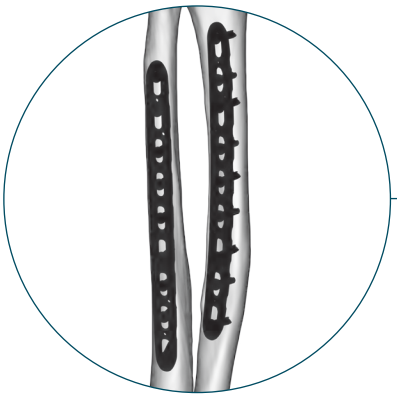


P R O T E A N®
fragment plating technology



DORSAL SPANNING PLATE

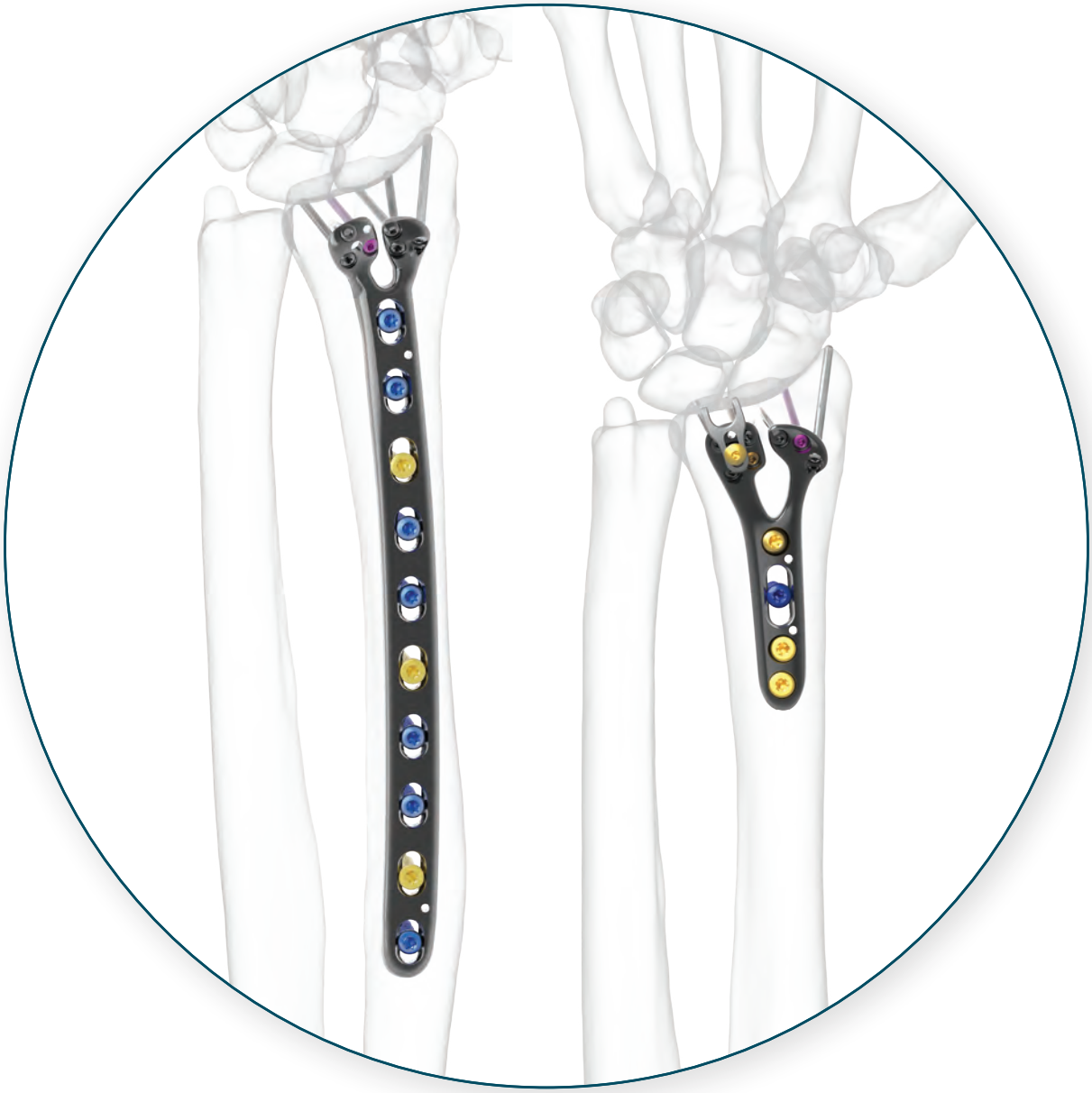
FOREARM TRAUMA



F R E E F I X®
forearm plating system

GEMINUS®

volar plating system



Two heads are better than one

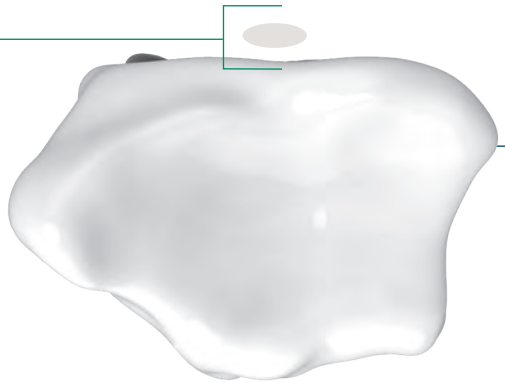
skeletal dynamics®

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 line[1]



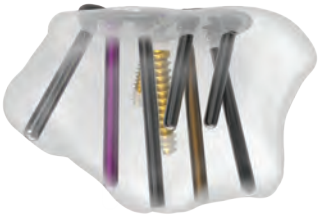




Screw trajectories designed to provide optimal subchondral support











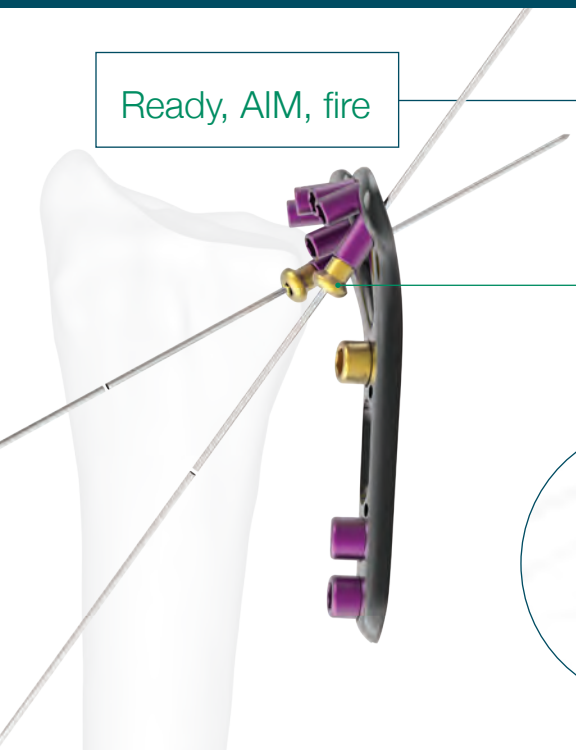






Innovative tools to facilitate surgery

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



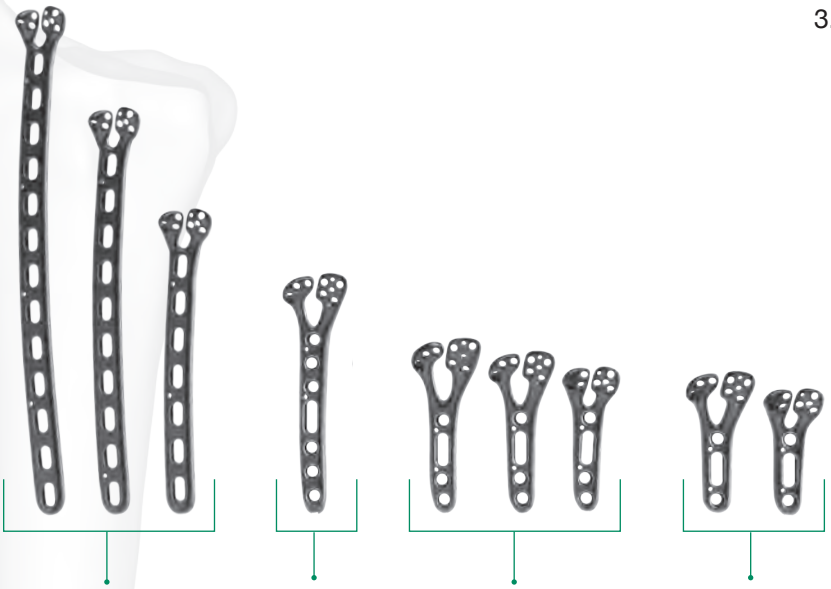






Customize your construct

Multiple implant options



XL Plates with FreeFix® Slots

7 Hole Plate Standard

4 Hole Plates Wide, Standard & Narrow

3 Hole Plates Standard & Narrow

3.5mm Cortical Compression Non-Locking Screw



3.5mm Cortical Locking Screw



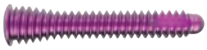
2.7mm Compression Non-Locking Screw



2.0mm Smooth Locking Peg



2.3mm Threaded Locking Screw



2.5mm Cannulated Polyaxial Locking Screw



2.7mm High Compression Locking Screw

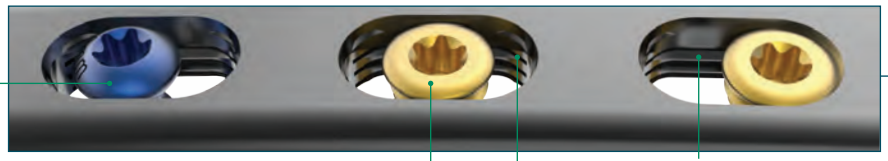


9 PLATE LENGTHS
46mm - 200mm

3 PLATE WIDTHS
Narrow, Standard, Wide

7 SCREW OPTIONS
1mm Increment Lengths

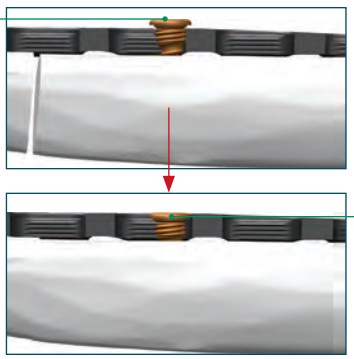
FreeFix® technology allows the fracture to dictate screw placement



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



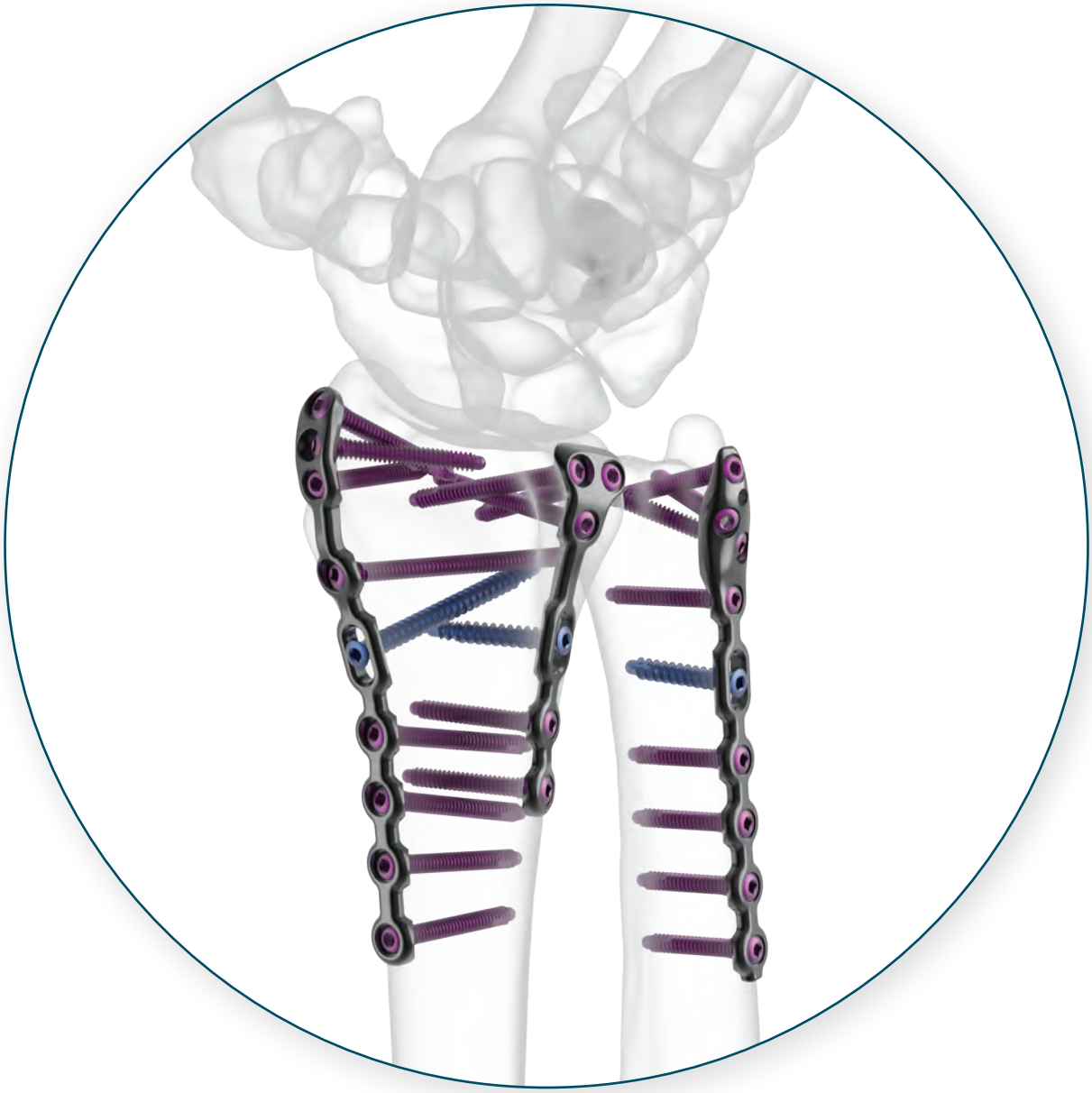
Locking screw engages the patented, horizontal threads, locking the screw into the plate





PROTEAN®

fragment plating technology



Custom contouring

skeletal dynamics®

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:

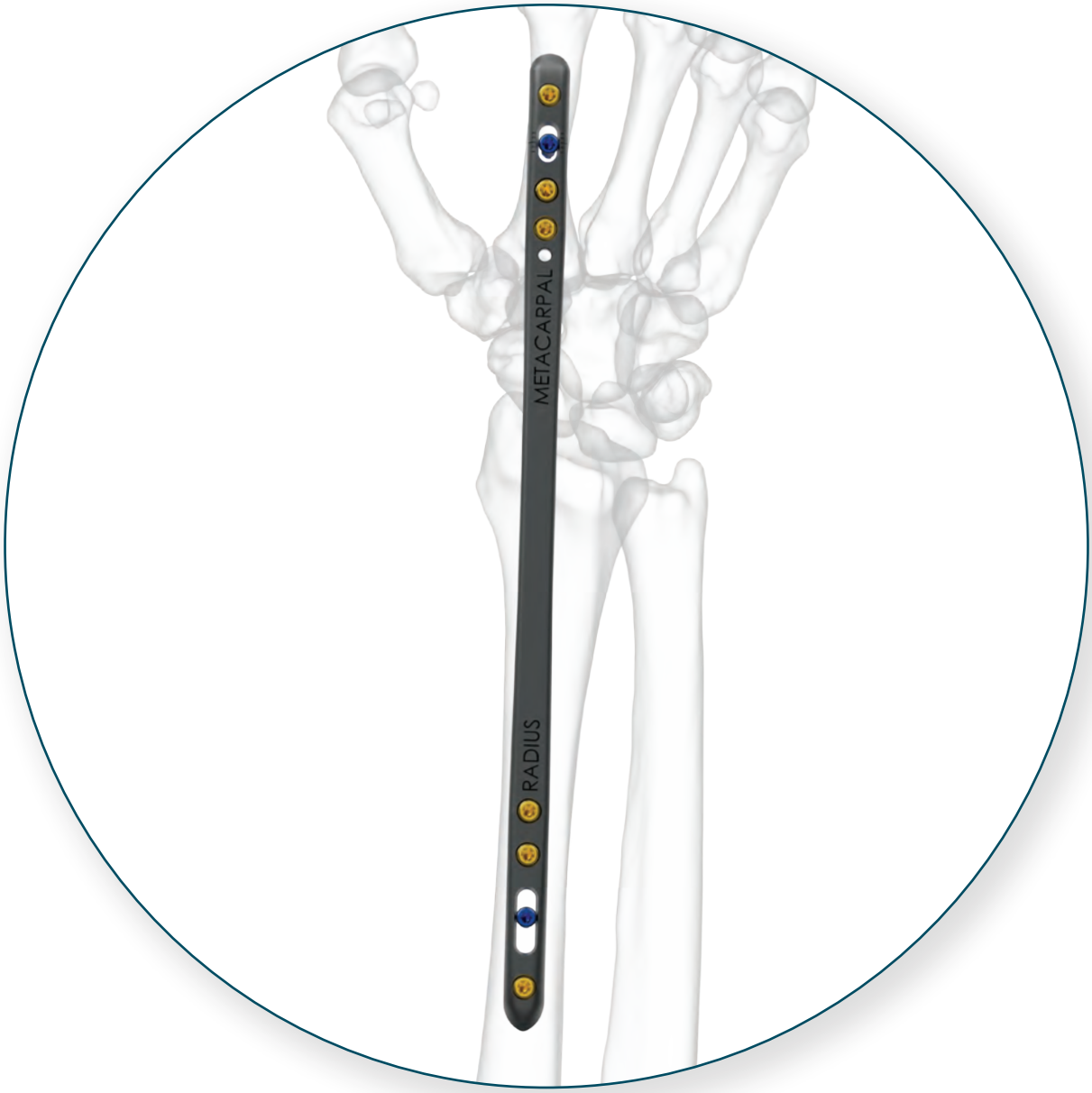


Double Hockey Stick



Y - Straight

DORSAL SPANNING PLATE

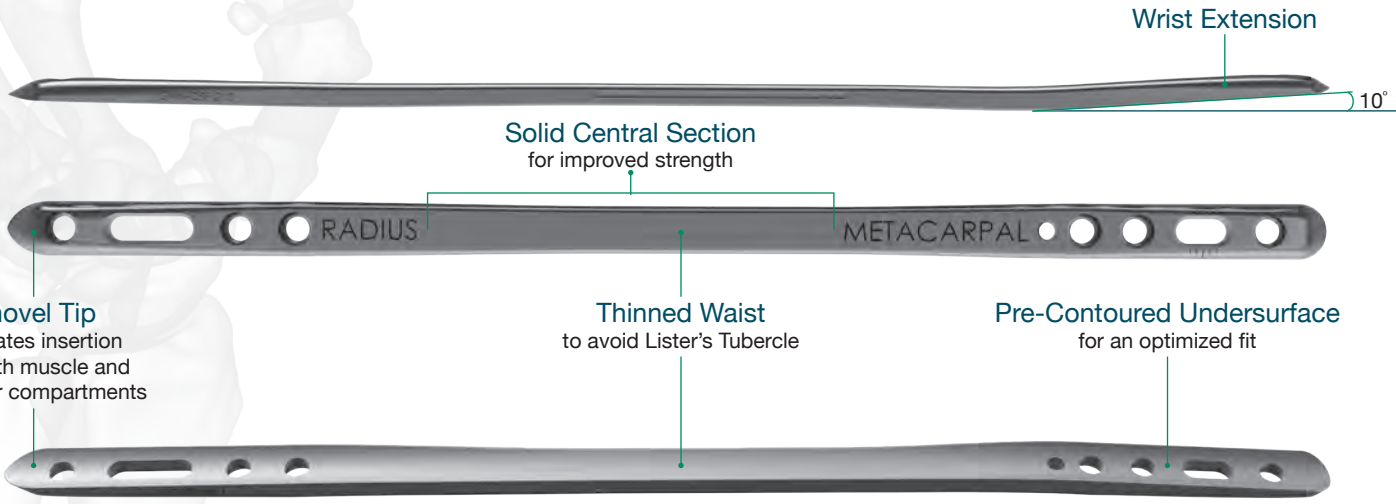


Anatomically designed bridge plate
facilitates insertion and improves reduction

skeletal dynamics®

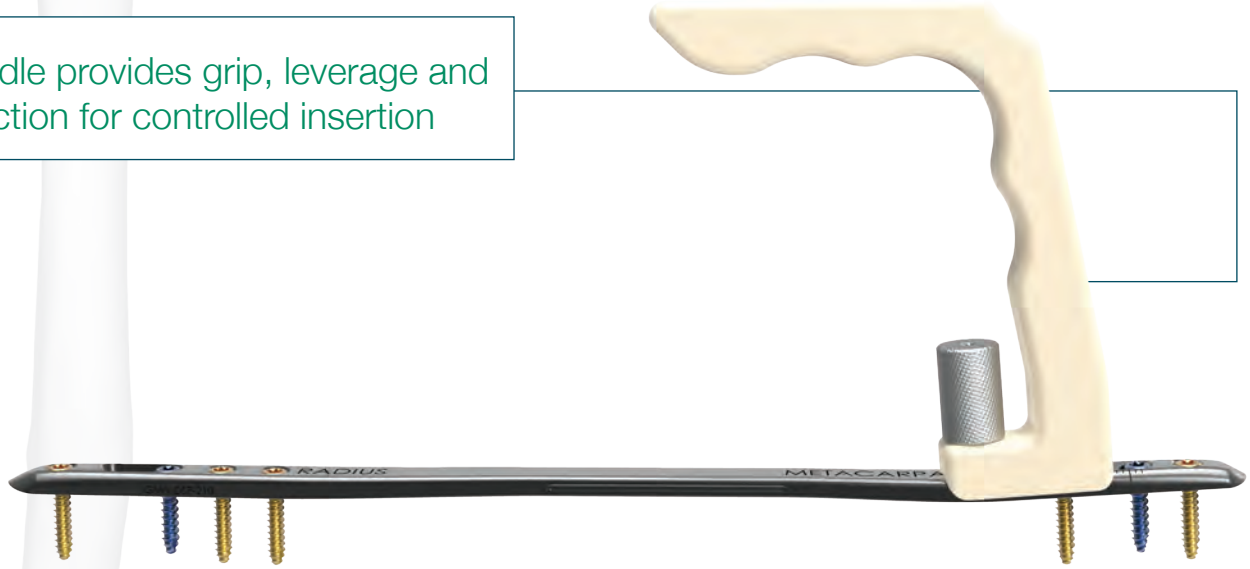
Designed to improve the intraoperative and postoperative experience

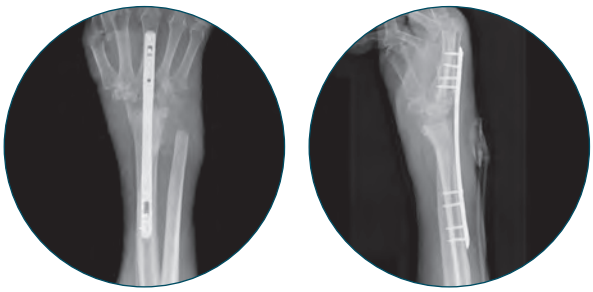
10° of volar apex angulation places the hand in a position of improved function



2 LENGTHS
160mm, 210mm

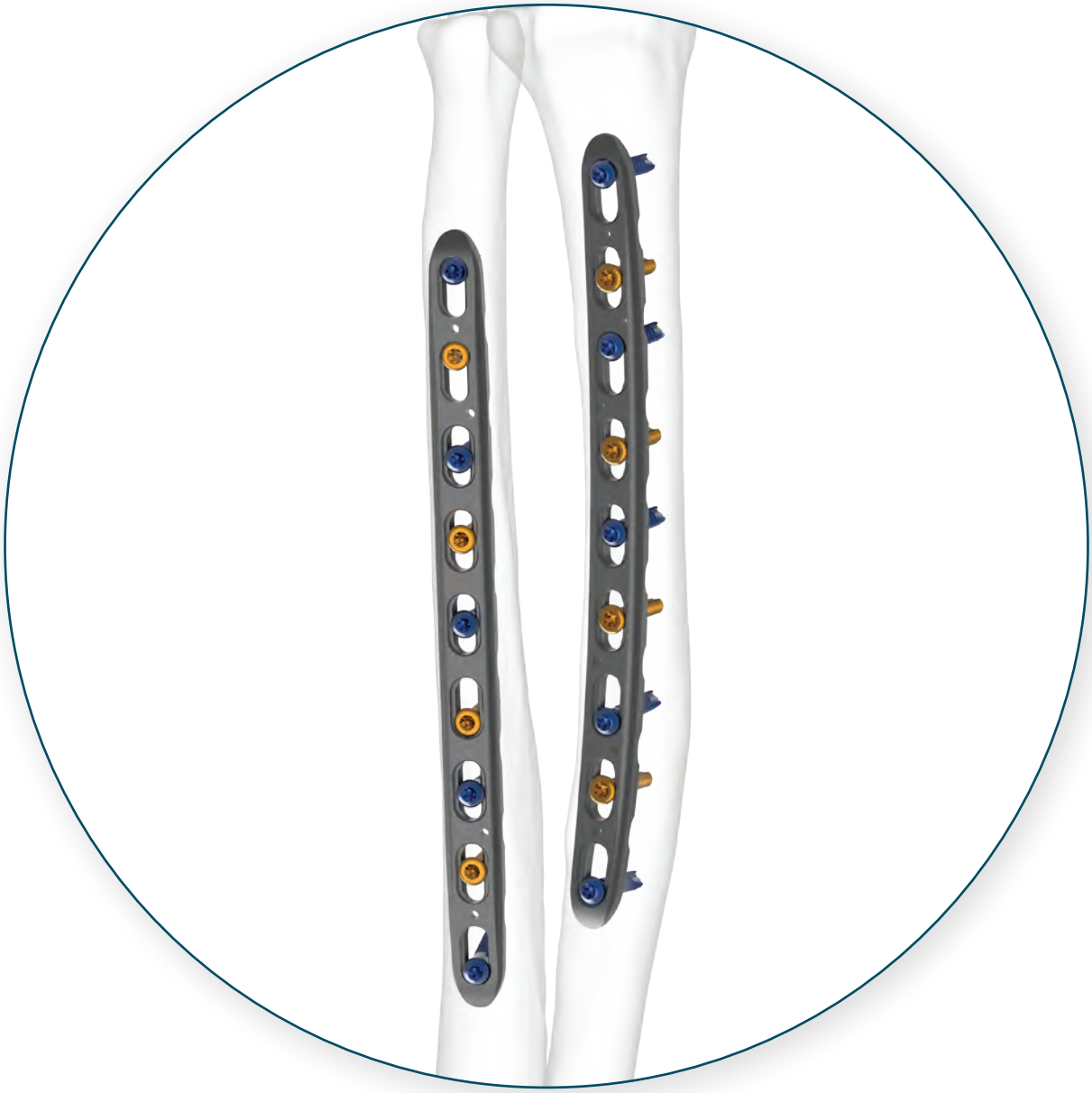
Handle provides grip, leverage and direction for controlled insertion





FREEFIX®

forearm plating system

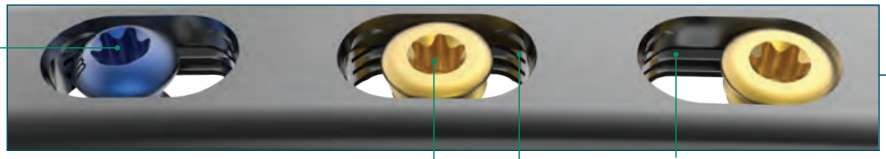


The next generation of locking plate design

skeletal dynamics®

Designed with flexibility in mind

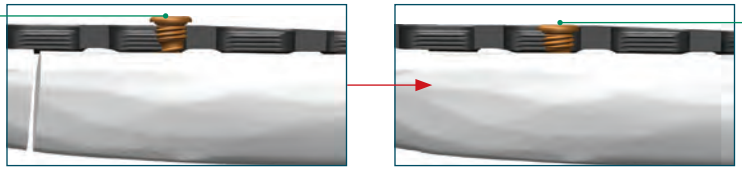
FreeFix® technology allows the fracture to dictate screw placement



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

Patented horizontal thread pattern allows dynamic compression with locking screws

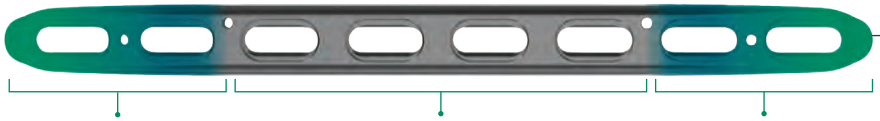
Head of the eccentrically placed screw engages the plate, compressing the fracture



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

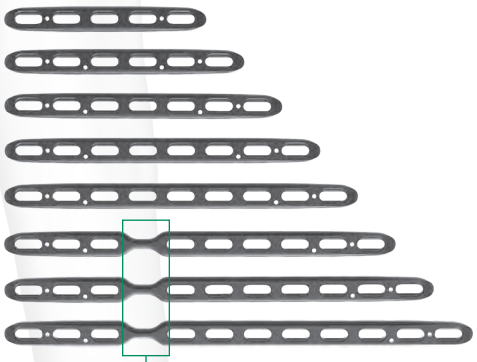
Callomimetic design mimics callus formation

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

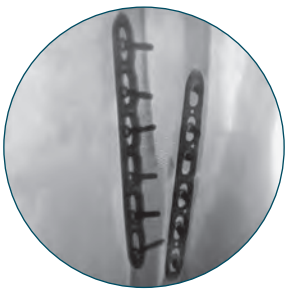


Percentage of plate strength

Indication specific options for the radius and ulna

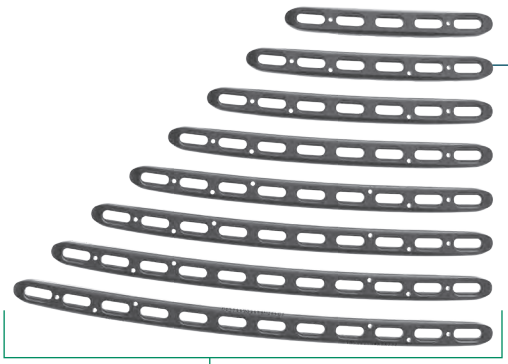


Midshaft Ulna Plate:
81mm - 188mm



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®

[1]Limthongthang 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

[2]Salas 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

[3]Orbay 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

[4]Orbay 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

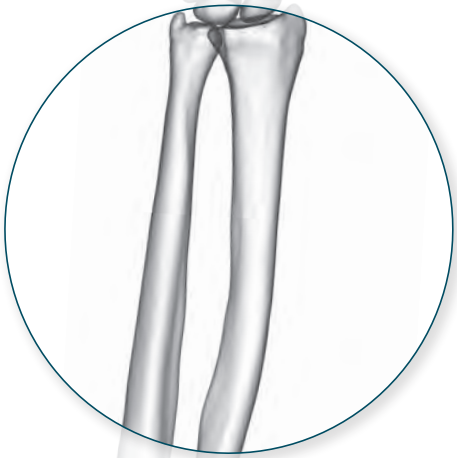
[5]Orbay JL, Badia A, Indriago IR, Infante A, Gonzalez E, Fernandez DL. (2001) The Extended Flexor Carpi Radialis Approach: A New Perspective for the Distal Radius Fracture. *Tech Hand Up Extrem Surg*, 5(4): 204-211. DOI: 10.1097/00130911-200112000-00004

[6]Orbay 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

skeletal dynamics®

UNDERSTANDING THE UPPER EXTREMITY







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