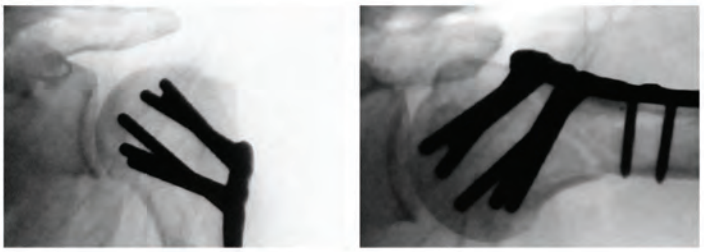
S3™ PROXIMAL HUMERUS PLATE

The New Standard in Shoulder Plating Systems

Spatial Subchondral Support

First we set the standard for distal radius fractures...
Now we've set our sights even higher.



WITH F.A.S.T. GUIDE™ TECHNOLOGY

Fixed Angle Screw Targeting

HAND INNOVATIONS
RAISING EXPECTATIONS

8905 SW 87th AVENUE, SUITE 220, MIAMI, FL 33176 : 1.800.800.8188 : WWW.HANDINNOVATIONS.COM

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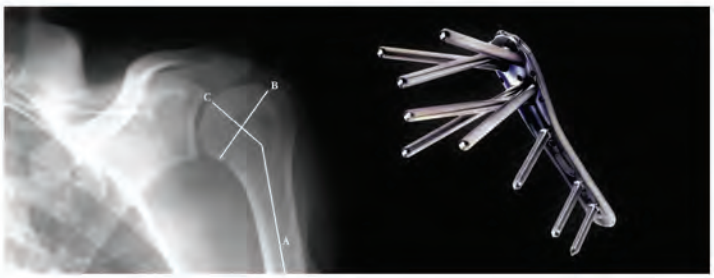
Spatial Subchondral Support

Restoration of the Natural Anatomy

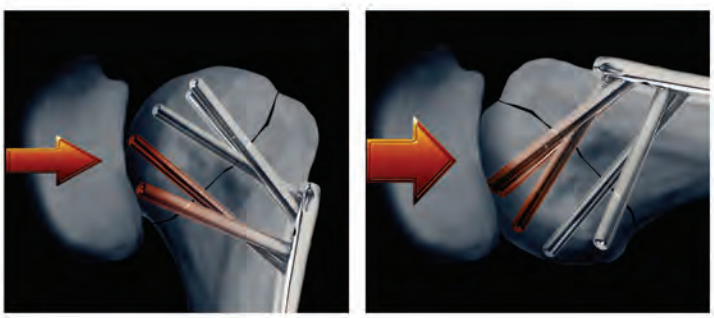


- Precisely contoured plates match the complex shape of the proximal humerus
- S³ is designed to act as a reduction template to restore the natural anatomy
- Multiple 4.0 mm subchondral support pegs & screws maintain fracture reduction

Low Risk of Subacromial Impingement

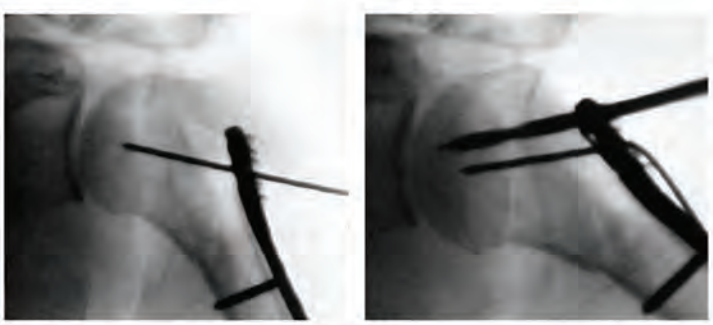
- S³ is designed to be positioned approximately 3.0 cm distal to the greater tuberosity preventing subacromial impingement
- Anatomically contoured undersurface aids in restoring proper humeral head rotation

Strong and Stable Construct



- Precise fixed angle peg distribution provides spatial subchondral support to resist varus forces throughout the full range of motion
- Proximal and distal locking screws and pegs ensure the strongest possible interface for a secure and stable construct
- Blunt-tipped subchondral support pegs provide improved stability while preventing protrusion through the articular surface

Predictable & Reproducible Results



- Central guiding K-wire provides visual confirmation for optimal plate positioning
- Manually inserted blunt-tipped drill bits provide protection against the potential perforation of the articular surface
- Predetermined peg trajectories ensure a consistent spatial distribution within the humeral head

Simplified Soft Tissue Fixation

- Uniquely designed suture holes allow tuberosity repairs after humeral head fixation
- Suture holes are designed to accomadate multiple passes for extensive soft tissue fixation

F.A.S.T. Guide™ Technology

- Pre-loaded single use disposable drill guides
- No intraoperative assembly required resulting in significant time savings
- F.A.S.T. Guides are color coded for easy plate identification: Red=Right / Lime=Left

Surgical Technique Overview

Patient Position:	Supine or Beach Chair
Approach:	Deltopectoral
Radiographs:	AP, Lateral and Axial

Through a 12 cm to 14 cm incision, develop the deltopectoral interval.

Debride then reduce the fracture through traction and manipulation.

Position the plate approximately 3.0 cm distal to the greater tuberosity and just lateral to the bicipital groove.

Secure the plate to the humeral shaft using a 3.8 mm multidirectional cortical screw through the oblong hole of the plate.

While maintaining the reduction, place a 2.0 mm guide wire through the central hole at the head of the plate.

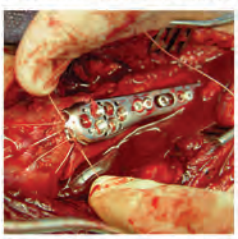
Advance slowly and verify its trajectory under fluoroscopic imaging until it reaches 2-3 mm below the subchondral bone.

Using the short 4.0 mm drill bit, drill under power through the F.A.S.T. Guides across the near cortex until the mechanical safety stop of the drill is reached.

Manually advance the appropriate 4.0 mm long drill bit through the F.A.S.T. Guides under fluoroscopic imaging until 2-3 mm below the subchondral bone.

Be sure to torque the proximal plate pegs so that they are fully seated. The head of a properly seated peg should sit beneath the surface of the plate.

Using the end of the drill guide labeled "90°", drill the remaining shaft screws. Then use a locking setscrew with each 90° locking shaft screw.



Repair the tuberosities to the plate through the side loading suture attachment points.

Evaluate the humerus under fluoroscopy to assess the final reduction and to confirm proper peg positioning.

Peg and Screw Options:

STP, STPT Series available in 30.0 mm - 65.0 mm Lengths (2.5 mm Steps)

NL, MD Series available in 20.0 mm - 38.0 mm Lengths (2.0 mm Steps)

Item Description	
a. Smooth Peg, Locking	Provides Spatial Subchondral Support
b. Threaded Peg, Locking	Help to capture and lag the humeral head
c. 90° Cortical Screws, non-locking	Provide bi-cortical fixation while locking to the plate using the NL-SS setscrews
d. Multi-directional Cortical Screws, non-locking	Provide multi-directional fixation when used through the oblong hole
e. 90° Locking Setscrew	Secures the 90° lock distal screws to the S^3

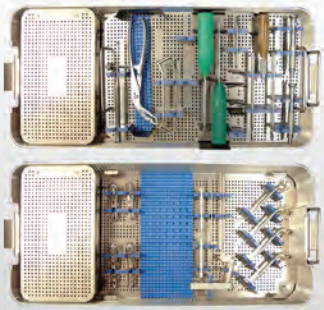
Plate Options:

Item Description	Head Width	x	Shaft Width	x	Overall Length
a. S^3 Proximal Humerus Plate	16.0 mm	x	11.8 mm	x	70.0 mm
b. S^3 Proximal Humerus Plate	17.0 mm	x	12.3 mm	x	87.1 mm
c. S^3 Proximal Humerus Plate	17.0 mm	x	17.0 mm	x	110 mm

$S^{3™}$ Modular Tray:

New fully modular tray system that offers intra-operative flexibility.

- Multiple Indications
- Reduced O.R. Clutter
- Improved Workflow



Product Family:

DNP™ Anatomic: a unique, less invasive solution for extra articular distal radius fractures. The low profile design minimizes tendon irritation.

SBFS™: Percutaneous locking I.M. nail systems for fractures. Comes in a procedure specific, single use kit with cost effective replacement nails available.

UHP: An ideal solution to address both primary and revision ulnar head arthroplasty. Ceramic & CoCr head options as well as various press fit stem options are fully modular for intra-operative flexibility.

DVR™ Anatomic: Newly designed, this system offers the same features and benefits as the original DVR; however, there were a few significant changes that made it even easier than before.

Fragment Plates: Our unique fragment plates provide you with additional treatment options. Includes locking & non-locking screw options.

HBS: An easy solution for fixation of small bones. The HBS is available in multiple size options with two levels of compression and is cannulated for percutaneous placement.

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