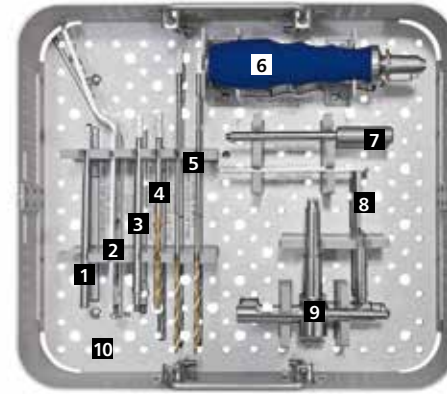


# Simple instrumentation

Contours PHP application has been created to be easy and fast thanks to a simple instrumentation and a straightforward technique.

## INSTRUMENTATION TRAY

Code	Description
1) TP3106	Quick connect Screwdriver for hexagonal head
2) TP1145	Ruler
3) TP3102	3.5mm quick connect Screwdriver
4) 1-TP3107	Cannulated Drill Bit (Ø 4.8mm) quick connect
5) 1-TP1104	Drill Bit (Ø 3.2mm) quick connect
6) TP3150	Handle (soft touch) quick connect
7) TP3108	Plate Holder
8) TP1100	Drill Guide (Ø 3.2mm)
9) TP1101	Locking T-Wrench
10) TP3995	Tray empty



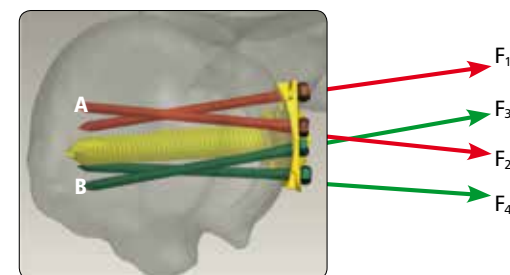
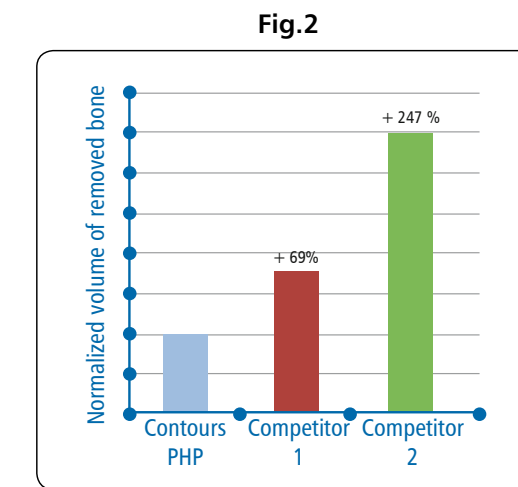
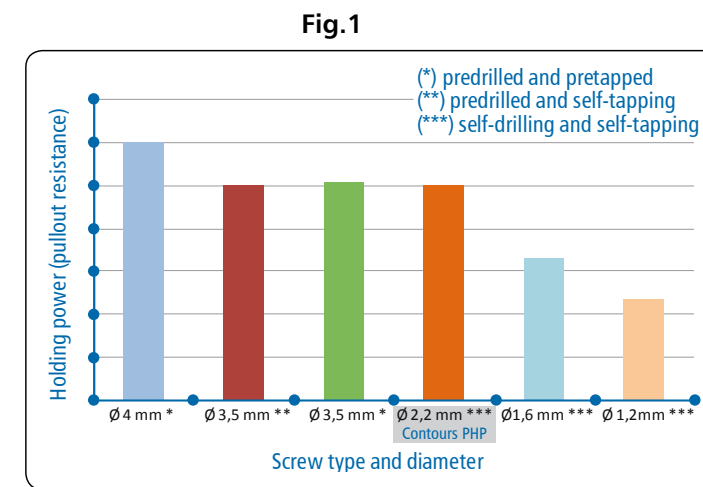
## STERILE-PACKED ITEMS

Part Number	Description
99-TP3000	Proximal Humeral Plate right
99-TP3001	Proximal Humeral Plate left
99-TP1640	Main Locking Screw (Ø 6.0mm) L. 40mm
99-TP1645	Main Locking Screw (Ø 6.0mm) L. 45mm
99-TP1650	Main Locking Screw (Ø 6.0mm) L. 50mm
99-TP1655	Main Locking Screw (Ø 6.0mm) L. 55mm
99-TP1660	Main Locking Screw (Ø 6.0mm) L. 60mm
99-TP1422	Diaphyseal Screw (Ø 4.5mm) L. 22mm
99-TP1424	Diaphyseal Screw (Ø 4.5mm) L. 24mm
99-TP1426	Diaphyseal Screw (Ø 4.5mm) L. 26mm
99-TP1428	Diaphyseal Screw (Ø 4.5mm) L. 28mm
99-TP1430	Diaphyseal Screw (Ø 4.5mm) L. 30mm
99-TP1432	Diaphyseal Screw (Ø 4.5mm) L. 32mm
99-TP1434	Diaphyseal Screw (Ø 4.5mm) L. 34mm
99-TP1436	Diaphyseal Screw (Ø 4.5mm) L. 36mm
99-TP1526	Revision Screw (Ø 6.5mm) L. 26mm
99-TP1528	Revision Screw (Ø 6.5mm) L. 28mm
99-TP1530	Revision Screw (Ø 6.5mm) L. 30mm
99-TP1532	Revision Screw (Ø 6.5mm) L. 32mm
99-TP1534	Revision Screw (Ø 6.5mm) L. 34mm
99-TP1720	Fine Threaded Screw (Ø 2.2mm) L. 120/20mm (pack of two)
99-TP1725	Fine Threaded Screw (Ø 2.2mm) L. 120/25mm (pack of two)
99-TP1730	Fine Threaded Screw (Ø 2.2mm) L. 120/30mm (pack of two)
99-TP1735	Fine Threaded Screw (Ø 2.2mm) L. 120/35mm (pack of two)
99-TP1740	Fine Threaded Screw (Ø 2.2mm) L. 120/40mm (pack of two)
99-TP1745	Fine Threaded Screw (Ø 2.2mm) L. 120/45mm (pack of two)
99-TP1750	Fine Threaded Screw (Ø 2.2mm) L. 120/50mm (pack of two)
99-TP1755	Fine Threaded Screw (Ø 2.2mm) L. 120/55mm (pack of two)
99-TP1111	K-Wire (Ø 2mm) L. 200mm (pack of four)
99-1-TP3107	Cannulated Drill Bit (Ø 4.8mm) quick connect (sterile)
99-1-TP1104	Drill Bit (Ø 3.2mm) quick connect (sterile)

# Evidence Based Medicine

Biomechanical tests demonstrate that, in cancellous bone, Ø 2.2mm self-drilling and self-tapping titanium Fine Threaded Screws have a great pull out resistance considering their smaller diameter (see fig.1)<sup>1</sup>. In-vivo animal tests demonstrate that the fine thread screws design retains higher level of osteointegration when compared to other commercial cortical screws<sup>2</sup>.

“Avascular necrosis is initiated by the fracture pattern, that almost unavoidably damages the delicate blood supply of the humeral head”<sup>3</sup>. Contours PHP has been designed to decrease the invasiveness in terms of metallic content in the humeral head (see fig.2) and reduce further damages of the vascularity.



**FINE THREADED SCREWS WITH DIFFERENT CROSSING ANGULATIONS (A AND B) BLOCK FORCES COMING FROM DIFFERENT DIRECTIONS (F1, F2, F3 AND F4)**

**RESULT: ROTATIONAL STABILITY THROUGH TRACTION**

<sup>1</sup> Gausepohl T, Möhring R, Pennig D, Koebe J “Fine thread versus coarse thread. A comparison of the maximum holding power” Injury 32 2001  
<sup>2</sup> Lawes TJ and Goodship AE. Biological response to fine pitch and hydroxyapatite coated bone pins. Internal report  
<sup>3</sup> Karataglis D, Stavridis SI, Petsatodis G, Papadopoulos P, Christodoulou A “New trends in fixation of proximal humeral fractures: a review” Injury 2011 Apr 42 (4): 330-8

**CONTOURS PHP™**  
Proximal Humeral Plate

# Innovative Contours for Maximum Stability

Manufactured by:  
**ORTHOFIX Srl**  
 Via Delle Nazioni 9, 37012 Bussolengo (Verona), Italy  
 Telephone +39 045 6719000, Fax +39 045 6719380  
**www.orthofix.com**

YOUR DISTRIBUTOR IS:

Innovative plating system designed for...

# Great Stability

# Reduced risk of impingement

# Ease and Flexibility of fragment capture

## Design is not just what it looks like. Design is how it works!

(Steve Jobs)

### LOW ANATOMIC CONTOURS

Designed to reduce the risk of impingement

### MAIN FRONTAL STABILITY

Through the Main Locking Screw inserted in the calcar area

### BONE STOCK PRESERVATION

Engineered to decrease the invasiveness in terms of metallic content in the humeral head and reduce further damages of the vascularity

### ROTATIONAL STABILITY

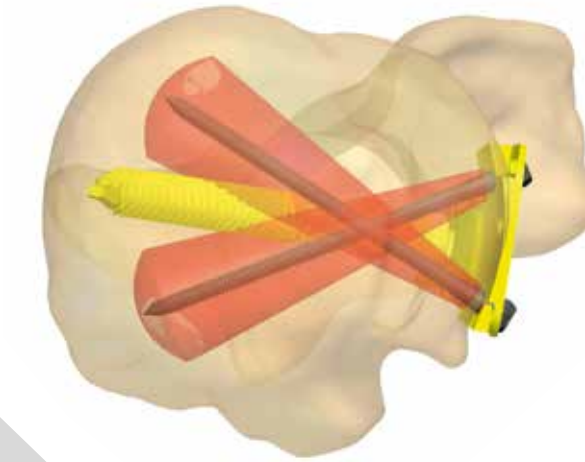
Through the crossing configuration and enhanced osteointegration<sup>1,2</sup> of the angular stable Fine Threaded Screws.

### LARGE GROOVES OF THE SUTURE HOLES

For easy needle insertion

### LOW CONTACT DISTAL PROFILE

Designed to preserve the periosteal blood supply



### Main Locking Screw



- Ø 5.6 - 6.0mm cannulated conical screw for load transfer to the diaphysis
- Self-cutting tip • Anti-migration collar

### Fine Threaded Screw



- Ø 2.2mm thread
- +/- 15° free angulation for fragment capture and stabilization • Automatic breakaway
- Hexagonal head for easy removal

### Diaphyseal Screw



- Ø 4.5mm thread for distal locking

### Revision Screw



- Ø 6.5mm thread for poor quality bone