

UP. EXTREMITY

TECHNICAL  
SHEET



# TELEGRAPH

EVOLUTION<sup>®</sup>

Cannulated humeral nail

GROUP  
**FH ORTHO**<sup>™</sup>  
AN OLYMPUS GROUP COMPANY



## Features

### TELEGRAPH EVOLUTION® nails enable:

- Proximally: the fixation of humeral head tuberosities in 4 different plans by 4 proximal screws. In case of porotic bone, a washer can be used on each proximal screw in order to optimize compression of the bone fragment and/or to allow the tuberosities sutures.
- Distally: static or dynamic fixation of the diaphysis by a distal screw and a slotted hole.

### TELEGRAPH EVOLUTION® range is composed of 2 models:

- Short nails of 150 mm length is dedicated to treatment of 2-, 3- and 4-part of proximal humeral fractures.
- Long nails of 210, 230, 250, 270 mm length (290 mm in option) is dedicated to diaphysis fracture including, or not, proximal fractures.

**Nails are available in 4 diameters: 7,8,9 and 10 mm. The range has a proximal diameter of 9 mm, except for the 10 mm nails (10 mm proximally and distally).**

**Nails are cannulated for a sterile single-use pin (or non-sterile) of diameter 2,5 mm and length 750 mm. Both short and long nails are lateralized right and left.**

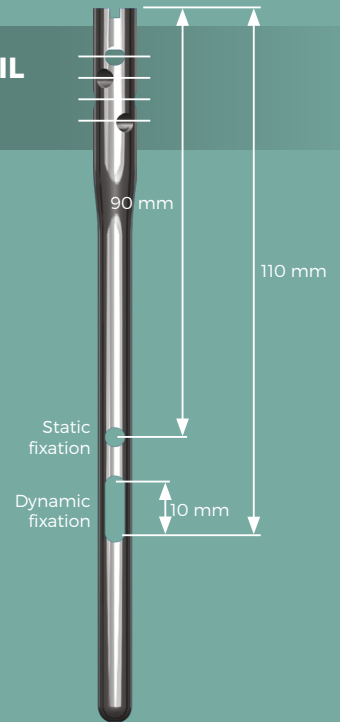
**Extreme sizes are optional: Ø7 to Ø10 / LG 290 mm**

### TELEGRAPH EVOLUTION® description:

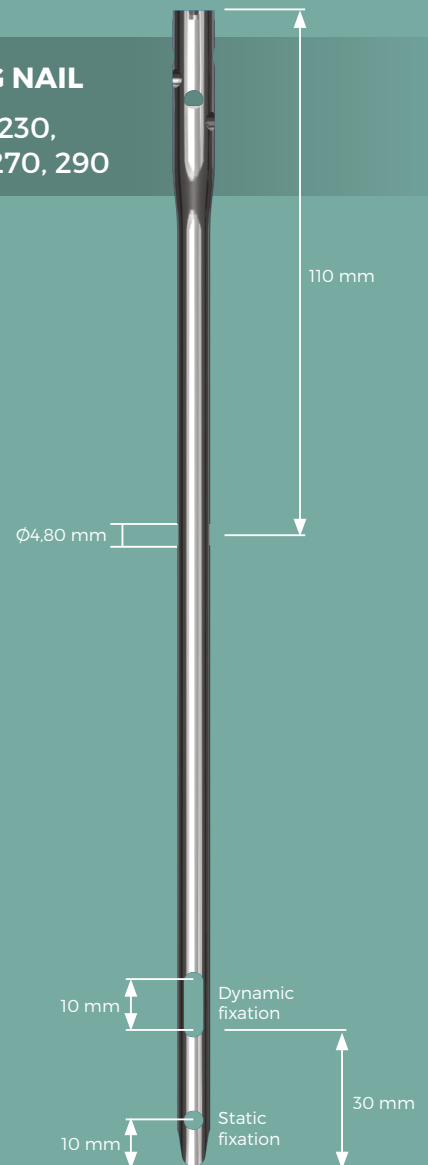
- Anodized titanium alloy (Ti6Al4V).
- Cannulated and designed to anterograde inception.

**The screws are self-tapping.**

### SHORT NAIL L150



### LONG NAIL L210, 230, 250, 270, 290



# Implants references



TELEGRAPH EVOLUTION®	
Short cannulated humeral nail - left	
Ref.	Designation
270 141	Ø7 L150
270 142	Ø8 L150
270 143	Ø9 L150
270 144	Ø10 L150



TELEGRAPH EVOLUTION®	
Short cannulated humeral nail - right	
Ref.	Designation
270 145	Ø7 L150
270 146	Ø8 L150
270 147	Ø9 L150
270 148	Ø10 L150



TELEGRAPH EVOLUTION®	
Proximal screw	
Ref.	Designation
270 169	Ø4 L25
270 170	Ø4 L30
270 171	Ø4 L35
270 172	Ø4 L40
270 173	Ø4 L45
270 174	Ø4 L50
270 175	Ø4 L55



TELEGRAPH EVOLUTION®	
Long cannulated humeral nail - left	
Ref.	Designation
270 149	Ø7 L210
270 150	Ø7 L230
270 151	Ø7 L250
270 152	Ø7 L270
270 153	Ø7 L290
270 154	Ø8 L210
270 155	Ø8 L230
270 156	Ø8 L250
270 157	Ø8 L270
270 158	Ø8 L290
270 159	Ø9 L210
270 160	Ø9 L230
270 161	Ø9 L250
270 162	Ø9 L270
270 163	Ø9 L290
270 164	Ø10 L210
270 165	Ø10 L230
270 166	Ø10 L250
270 167	Ø10 L270
270 168	Ø10 L290



TELEGRAPH EVOLUTION®	
Long cannulated humeral nail - right	
Ref.	Designation
270 350	Ø7 L210
270 351	Ø7 L230
270 352	Ø7 L250
270 353	Ø7 L270
270 354	Ø7 L290
270 355	Ø8 L210
270 356	Ø8 L230
270 357	Ø8 L250
270 358	Ø8 L270
270 359	Ø8 L290
270 360	Ø9 L210
270 361	Ø9 L230
270 362	Ø9 L250
270 363	Ø9 L270
270 364	Ø9 L290
270 365	Ø10 L210
270 366	Ø10 L230
270 367	Ø10 L250
270 368	Ø10 L270
270 369	Ø10 L290





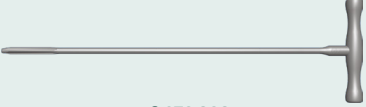

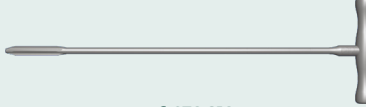

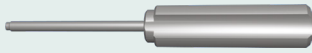




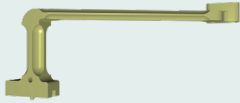














TELEGRAPH EVOLUTION®	
Distal screw	
Ref.	Designation
270 176	Ø4 L20
270 177	Ø4 L24
270 178	Ø4 L28
270 179	Ø4 L32



TELEGRAPH EVOLUTION®	
Washer Internal diameter 4 External diameter 11	
Ref.	Designation
270 180	Washer

OPTIONAL

# Instruments list

<p>ref. 270 803 Telegraph Evolution® case V1</p> <p>ref. 270 805 Telegraph Evolution® lid</p> <p>ref. 264 579 Telegraph IV case V1 (can replace case 270 803 + lid 270 805)</p>	 <p>ref. 270 806 Telegraph Evolution® cannulated trocar-tip awl</p>	 <p>ref. 270 807 Telegraph Evolution® protection sleeve Ø11</p>
 <p>ref. 270 808 Telegraph Evolution® rigid cannulated reamer Ø7</p>	 <p>ref. 270 809 Telegraph Evolution® rigid cannulated reamer Ø8</p>	 <p>ref. 270 810 Telegraph Evolution® rigid cannulated reamer Ø9</p>
 <p>ref. 270 811 Telegraph Evolution® rigid cannulated reamer Ø10</p>	 <p>ref. 270 812 Telegraph Evolution® cannulated connecting screw</p>	 <p>ref. 264 201 Telegraph IV nailing arm</p>
 <p>ref. 264 202 Telegraph IV left proximal guide</p>	 <p>ref. 264 203 Telegraph IV right proximal guide</p>	 <p>ref. 253 673 Telegraph left distal guide</p>
 <p>ref. 253 674 Telegraph right distal guide</p>	 <p>ref. 253 681 Telegraph M5 screw</p>	 <p>ref. 253 677 Drill sleeve for Ø2.5 drill bit</p>
 <p>ref. 253 678 Guide sleeve for tap</p>	 <p>ref. 236 844 Obturator</p>	 <p>ref. 250 855 Drill bit Ø2.5 L60 AO</p>
 <p>ref. 270 821 Telegraph Evolution® drill bit Ø3.1 AO connector</p>	 <p>ref. 270 822 Telegraph Evolution® drill sleeve for Ø3.1 drill bit</p>	 <p>ref. 233 339 Telegraph 2.5 Screwdriver</p>
 <p>ref. 266 428 Drill bit with stop Ø4.5 AO connector</p>	 <p>ref. 253 676 Telegraph intermediary obturator with tab</p>	 <p>ref. 253 675 Telegraph intermediary positioner</p>
 <p>ref. 257 010 Telegraph IV short guide sleeve</p>	 <p>ref. 253 679 Short guide sleeve (can replace ref 257 010)</p>	 <p>ref. 271 326 Non-sterile pin Ø2.5 LG 750 x2°</p>

\* It is recommended to exchange the pin after each surgery