

UP. EXTREMITY

TECHNICAL
SHEET



TELEGRAPH

EVOLUTION[®]

Cannulated humeral nail

GROUP
FH ORTHO[™]



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.

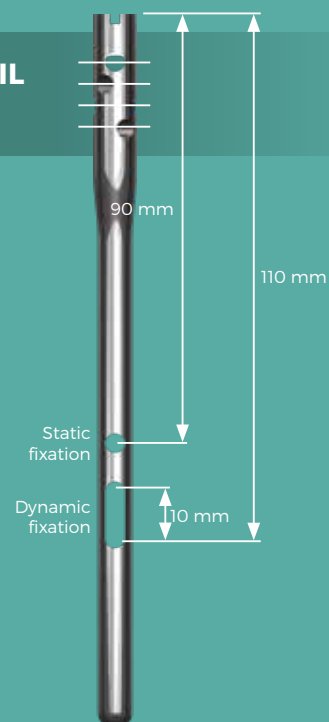
Extreme sizes are optional:
Ø7 to Ø10 / LG 290 mm

TELEGRAPH EVOLUTION® description:

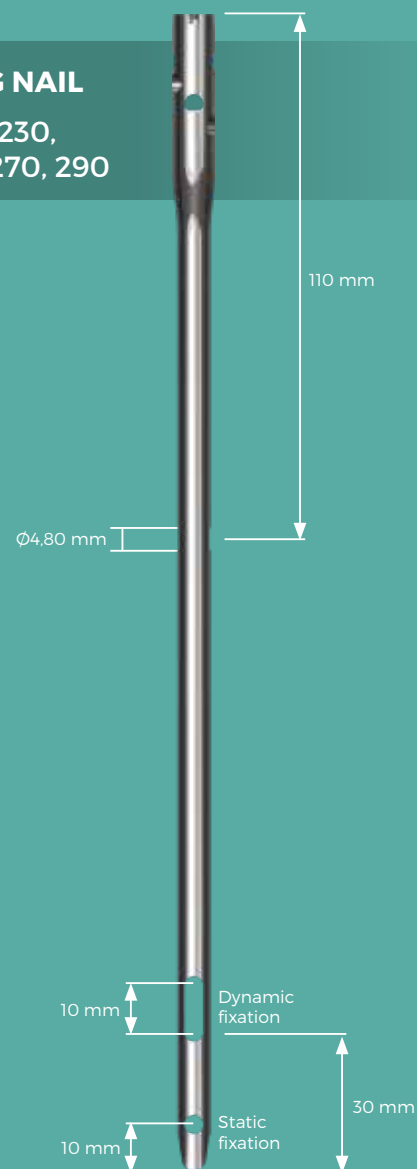
- Anodized titanium alloy (Ti6Al4V).
- Cannulated and designed to anterograde inception.

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.	Length	Ø prox.	Ø dist.
270 141	L150	9	7
270 142	L150	9	8
270 143	L150	9	9
270 144	L150	10	10



TELEGRAPH EVOLUTION®			
Short cannulated humeral nail - right			
Ref.	Length	Ø prox.	Ø dist.
270 145	150	9	7
270 146	150	9	8
270 147	150	9	9
270 148	150	10	10



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.	Length	Ø prox.	Ø dist.
270 149	L210	9	7
270 150	L230	9	7
270 151	L250	9	7
270 152	L270	9	7
270 153	L290	9	7
270 154	L210	9	8
270 155	L230	9	8
270 156	L250	9	8
270 157	L270	9	8
270 158	L290	9	8
270 159	L210	9	9
270 160	L230	9	9
270 161	L250	9	9
270 162	L270	9	9
270 163	L290	9	9
270 164	L210	10	10
270 165	L230	10	10
270 166	L250	10	10
270 167	L270	10	10
270 168	L290	10	10



TELEGRAPH EVOLUTION®			
Long cannulated humeral nail - right			
Ref.	Length	Ø prox.	Ø dist.
270 350	210	9	7
270 351	230	9	7
270 352	250	9	7
270 353	270	9	7
270 354	290	9	7
270 355	210	9	8
270 356	230	9	8
270 357	250	9	8
270 358	270	9	8
270 359	290	9	8
270 360	210	9	9
270 361	230	9	9
270 362	250	9	9
270 363	270	9	9
270 364	290	9	9
270 365	210	10	10
270 366	230	10	10
270 367	250	10	10
270 368	270	10	10
270 369	290	10	10



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



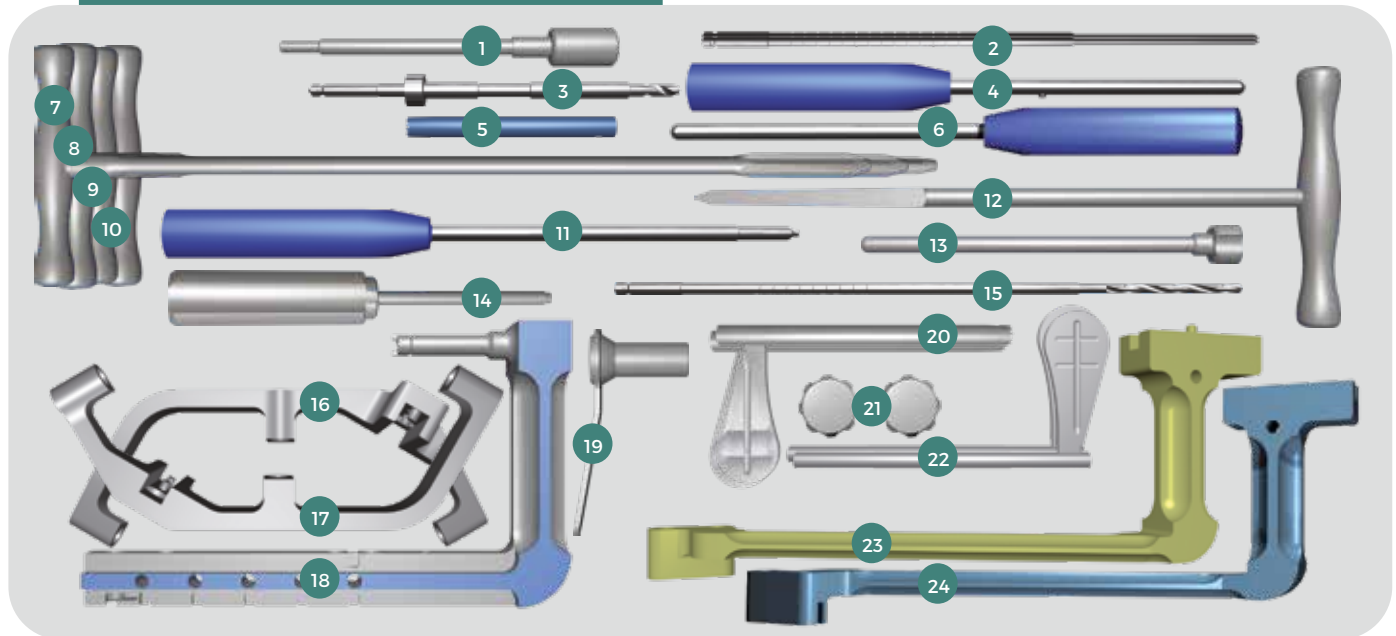
TELEGRAPH EVOLUTION®	
Washer Internal diameter 4 External diameter 11	
Ref.	Designation
270 180	Washer

SUTURES	
Ref.	Designation
271 635	FH LOOP USP 2 (black)
271 203	FH LINK
271 637	FH TAPE 1,4 mm (blue/black)

OPTIONAL

Instruments list

ref. 270 803
Telegraph Evolution® case V1
ref. 270 805
Telegraph Evolution® lid
ref. 264 579
Telegraph IV case V1
(can replace case 270 803 + lid 270 805)



- | | |
|---|--|
| 1. Telegraph intermediary positionerref. 253 675 | 13. Telegraph Evolution® drill sleeve for Ø3.1 drill bitref. 270 822 |
| 2. Drill bit Ø2.5 L60 AOref. 250 855 | 14. Telegraph Evolution® cannulated connecting screwref. 270 812 |
| 3. Drill bit with stop Ø4.5 AO connector.....ref. 266 428 | 15. Telegraph Evolution® drill bit Ø3.1 AO connectorref. 270 821 |
| 4. Telegraph intermediary obturator with tabref. 253 676 | 16. Telegraph IV left proximal guideref. 264 202 |
| 5. Telegraph IV short guide sleeve.....ref. 257 010 | 17. Telegraph IV right proximal guide.....ref. 264 203 |
| or Short guide sleeve (can replace ref 257 010)ref. 253 679 | 18. Telegraph IV nailing armref. 264 201 |
| 6. Obturatorref. 236 844 | 19. Telegraph Evolution® protection sleeve Ø11.....ref. 270 807 |
| 7. Telegraph Evolution® rigid cannulated reamer Ø7.....ref. 270 808 | 20. Guide sleeve for tapref. 253 678 |
| 8. Telegraph Evolution® rigid cannulated reamer Ø8ref. 270 809 | 21. Telegraph M5 screwref. 253 681 |
| 9. Telegraph Evolution® rigid cannulated reamer Ø9ref. 270 810 | 22. Drill sleeve for Ø2.5 drill bitref. 253 677 |
| 10. Telegraph Evolution® rigid cannulated reamer Ø10 (option) ...ref. 270 811 | 23. Telegraph right distal guideref. 253 674 |
| 11. Telegraph 2.5 screwdriver.....ref. 233 339 | 24. Telegraph left distal guideref. 253 673 |
| 12. Telegraph Evolution® cannulated trocar-tip awl.....ref. 270 806 | |

ref. 271 326
Non-sterile pin Ø2.5 LG 750 (x2)

Take note the instrument set is delivered with 2 non-sterile pins (above).



The pin must be exchanged after each intervention.



DISTRIBUTEURS
DISTRIBUTORS

GRUPE
FH ORTHO™

FR, FH ORTHO SAS
3 rue de la Forêt - Zone Industrielle
BP 50009
68990 Heimsbrunn CEDEX - FRANCE
Tél. +33 (0)3 89 81 90 92
Fax : +33 (0)3 89 81 80 11
info@fhortho.com
www.fhortho.com

USA, FH ORTHOPEDICS INC.
OrthoEx
7327 E Tierra Buena Lane
Scottsdale, Arizona 85260 - USA
Phone: +1 (412) 965-0950
customerservice@fhortho-us.com
www.fhortho.com

PL, FH ORTHO POLSKA
Ul. Garbary 95/A6,
61-757 Poznan - POLSKA
Phone: +48 61 863 81 27
Fax: +48 61 863 81 28
biuro@implants24.pl
www.fhortho.com



FABRICANT
MANUFACTURER

FR, FH INDUSTRIE
6 rue Nobel, Z.I. de Kernevez
29000 QUIMPER - FRANCE
Tél. +33 (0)2 98 55 68 95
Fax : +33 (0)2 98 53 42 13
contact-fhi@fhortho.com
www.fhortho.com