

Protect the subacromial region
- tantum humeral Head Nail

RETRON)



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RETRON Humeral Head Nail System



The number and complexity of humeral head fractures increase with advancing age. A definite increase in incidents due to demographic changes can be expected. As a result of growing demands on physical activities, the tendency in favour of operative treatment for humeral head fractures will be observed.

The RETRON nail is suited to this development, given that, alternative procedures of treatment due to long physical-therapeutic follow-up treatment with only gradual improvement of the mobility, the patient's claim to untimely physical activity is partially unjust.

An implant system for this indication should include the possibility of:

- Prevention of the humeral head
- Minor invasive Operative procedure
- Protection of the subacromial region

The goal of treatment with the RETRON system is the stabilisation and conservation of the bone structure. Entry of the RETRON nail occurs laterally transdermal, underneath the onset of the Delta muscle. The joint is not opened.

The anchorage of the fragments is carried out with the cannulated screws, which are angle and slip stable though the implantation of the RETRON nail. This principle of intramedullary force conduction and cannulated screws creates good stabilisation of the fragments and reduces secondary dislocations.

This system is suitable for subcapital and pertubercullary humeral fractures.

The RETRON system offers young patients with good bone quality splendid support of the fracture. Protection of the subacromial region through lateral entry underneath the onset of the Delta muscle is an important prerequisite for good rehabilitation results especially with young patients.

For the treatment of older patients with increasing osteoporosis, the demand for anchoring the implant in the humeral head is escalated.

The subchondral region of the bone is used for a reliable fixation of the RETRON nail. The nail is guided in just to the cartilage and generates a good condition for a stable osteosynthesis due to its proximal thread.

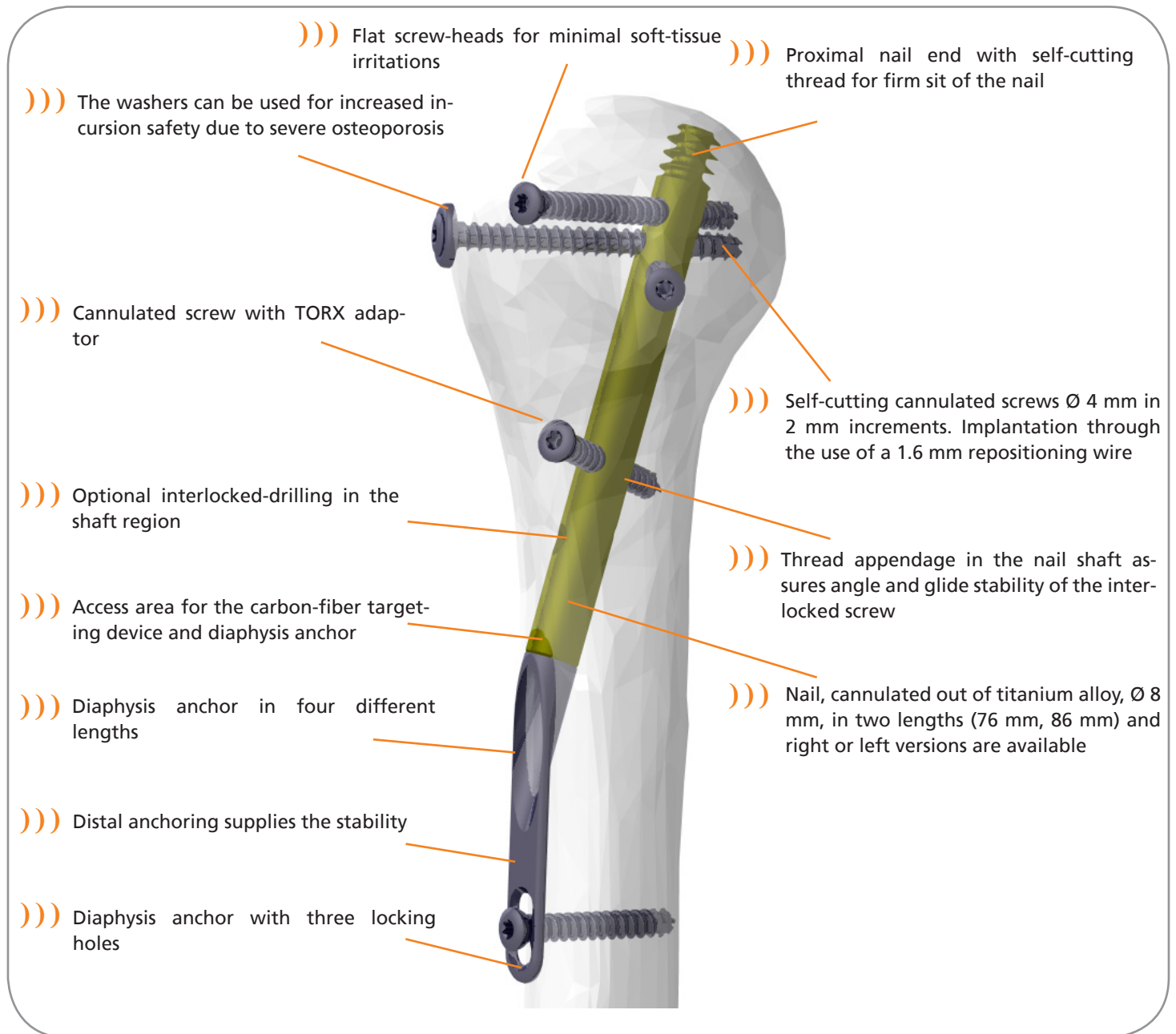
An additional advantage of the RETRON system is the complete preservation with all types of retraction.

All in all, the RETRON system complies with the accustomed tantum principle: The system is an innovative product, of the best quality, to economic conditions.

Indication

Subcapital and pertubercullary multiple fragment fractures of the humeral head up to Habermeyer type II, in individual cases up to type III.

))) Features and benefits at a glance



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RETRON Implants

Humeral Nail



Material: Ti6Al4V (ISO 5832-3)

Size	Side	Cat no.	
		non sterile	sterile
Ø 8, L 76	left	105-141	105-161
Ø 8, L 86	left	105-142	105-162
Ø 8, L 76	right	105-145	105-165
Ø 8, L 86	right	105-146	105-166

Diaphysis Anchor



Material: Ti6Al4V (ISO 5832-3)

Size	Cat no.	
	non sterile	sterile
I (0 mm)	105-151	105-171
II (2.5 mm)	105-152	105-172
III (5.0 mm)	105-153	105-173
IV (7.5 mm)	105-154	105-174

Connection Screw

Material: Ti6Al4V (ISO 5832-3)



Size	Cat no.	
	non sterile	sterile
SW 4, L 16	105-150	105-170

Washer, plain

Material: Ti6Al4V (ISO 5832-3)



Size	Cat no.	
	non sterile	sterile
SW 4, L 16	105-130	105-180

Cannulated Screws



Material: Ti6Al4V (ISO 5832-3)
 Connection: TORX
 Wire Diameter: 1.6 mm
 Material: Ti6Al4V (ISO 5832-3)

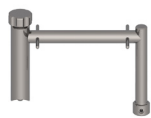
Size	Cat no.	
	non sterile	sterile
Ø 4, L 20, T15	101-530	101-560
Ø 4, L 22, T15	101-531	101-561
Ø 4, L 24, T15	101-532	101-562
Ø 4, L 26, T15	101-533	101-563
Ø 4, L 28, T15	101-534	101-564
Ø 4, L 30, T15	101-535	101-565
Ø 4, L 32, T15	101-536	101-566
Ø 4, L 34, T15	101-537	101-567
Ø 4, L 36, T15	101-538	101-568
Ø 4, L 38, T15	101-539	101-569
Ø 4, L 40, T15	101-540	101-570
Ø 4, L 42, T15	101-541	101-571
Ø 4, L 44, T15	101-542	101-572
Ø 4, L 46, T15	101-543	101-573
Ø 4, L 48, T15	101-544	101-574
Ø 4, L 50, T15	101-545	101-575
Ø 4, L 52, T15	101-546	101-576
Ø 4, L 54, T15	101-547	101-577
Ø 4, L 56, T15	101-548	101-578
Ø 4, L 58, T15	101-549	101-579
Ø 4, L 60, T15	101-550	101-580

The Fig.s are schematic and do not correspond with the original dimensions. Subject to technical changes. Revision Feb. 09

RETRON Instruments



204-115 RETRON Positioning Guide



204-116 Attachment for Positioning Guide

204-116A Indicator L76 f. Positioning Guide

204-116B Indicator L86 f. Positioning Guide

202-130 Guide Sleeve Ø 7, Ø 3

203-142 Drill with AO Coupling Ø 3, L 235

204-143 Fixing Screw for Position Guide Ø 4, L 30, T15



201-148 Screwdriver cannulated T 15

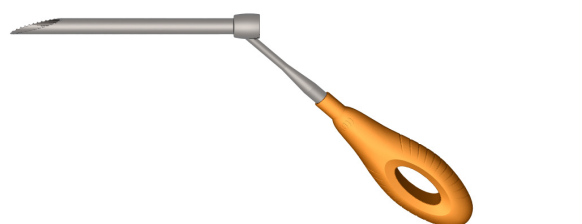
203-139 Spot Facer Ø 8, L 180

202-129 Guide Sleeve Ø 8, Ø 2.5

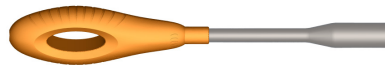
206-107 Guide Wire Ø 2.5, L 300

208-106 RETRON Length Gauge

203-141 Step Drill Ø 8, Ø 2.5, L 280



202-128 Tissue Protection Sleeve Ø 8



201-103 Insertion / Removal Driver

204-135 Nail Adaptor L 76

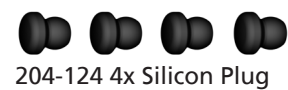
204-136 Nail Holding Screw L 76

204-137 Nail Adaptor L 86

204-138 Nail Holding Screw L 86



204-132 Targeting Device 204-131 Fastening Screw M12, SW 4



204-124 4x Silicon Plug



201-104 Screwdriver cannulated SW 4

202-121 Tissue Protection Sleeve Ø 9, Ø 7

202-122 Guide Sleeve Ø 7, Ø 1.6

203-140 Drill, cannulated AO Coupling Ø 3, Ø 1.6, L 235

206-108 10x Guide Wire Ø 1.6, L 245

208-107 Sizer



209-122 RETRON Tray

209-123 Implants Case for RETRON Tray

209-124 Silicon insert for Tray



204-139 RETRON Wire Guide right

204-140 RETRON Wire Guide left



203-143 Spot Facer Ø 2.5, L 130

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