

Protect the subacromial region
- tantum humeral Head Nail

RETRO



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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.

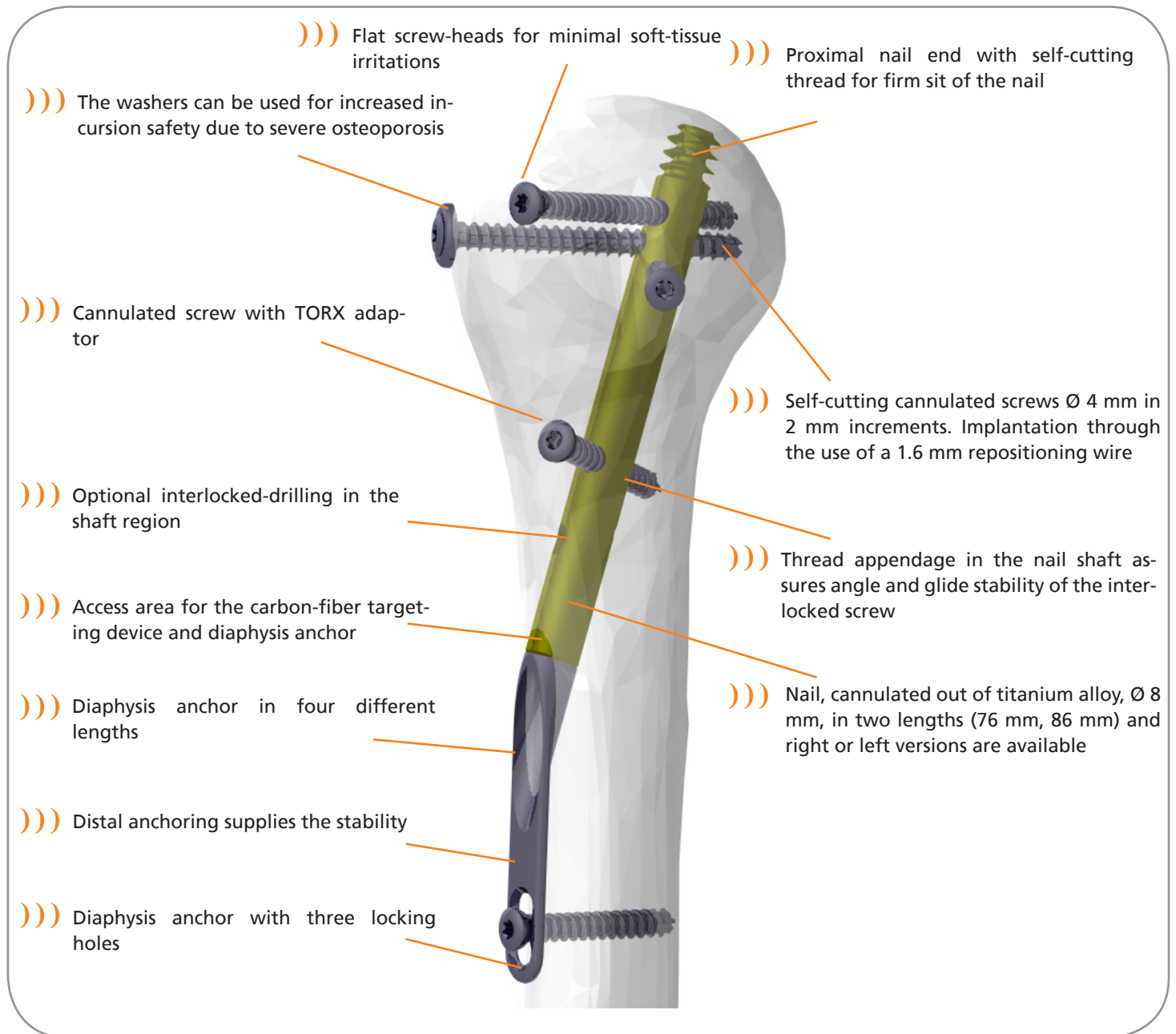
An additional advantage of the RETRON system is the complete preservation with all types of retraction.

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.

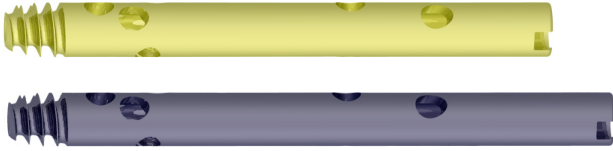
))) Features and benefits at a glance



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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)

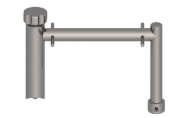
Size	Cat no.	
	non sterile	sterile
Ø 4, L 20	101-330	101-360
Ø 4, L 22	101-331	101-361
Ø 4, L 24	101-332	101-362
Ø 4, L 26	101-333	101-363
Ø 4, L 28	101-334	101-364
Ø 4, L 30	101-335	101-365
Ø 4, L 32	101-336	101-366
Ø 4, L 34	101-337	101-367
Ø 4, L 36	101-338	101-368
Ø 4, L 38	101-339	101-369
Ø 4, L 40	101-340	101-370
Ø 4, L 42	101-341	101-371
Ø 4, L 44	101-342	101-372
Ø 4, L 46	101-343	101-373
Ø 4, L 48	101-344	101-374
Ø 4, L 50	101-345	101-375
Ø 4, L 52	101-346	101-376
Ø 4, L 54	101-347	101-377
Ø 4, L 56	101-348	101-378
Ø 4, L 58	101-349	101-379
Ø 4, L 60	101-350	101-380

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



204-142 Fixing Screw for Position Guide Ø 4, L 30



201-146 Screwdriver cannulated T 10



203-139 Spot Facer Ø 8, L 180



202-129 Guide Sleeve Ø 8, Ø 2.5



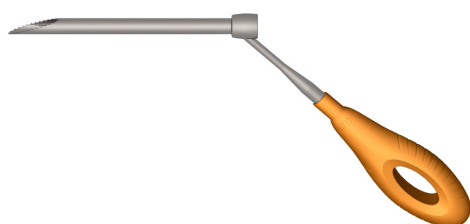
206-107 Guide Wire Ø 2.5, L 300



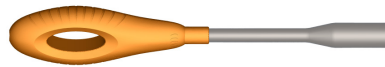
208-106 RETRON Length Gauge



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



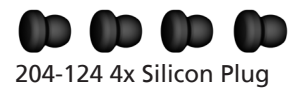
204-137 Nail Adaptor L 86



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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