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Multilock Humerus Nail

Anatomical fixation with **screw-in-screw** proximal support



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Humerus

Functional Arm Performance
Built on Humerus Stability



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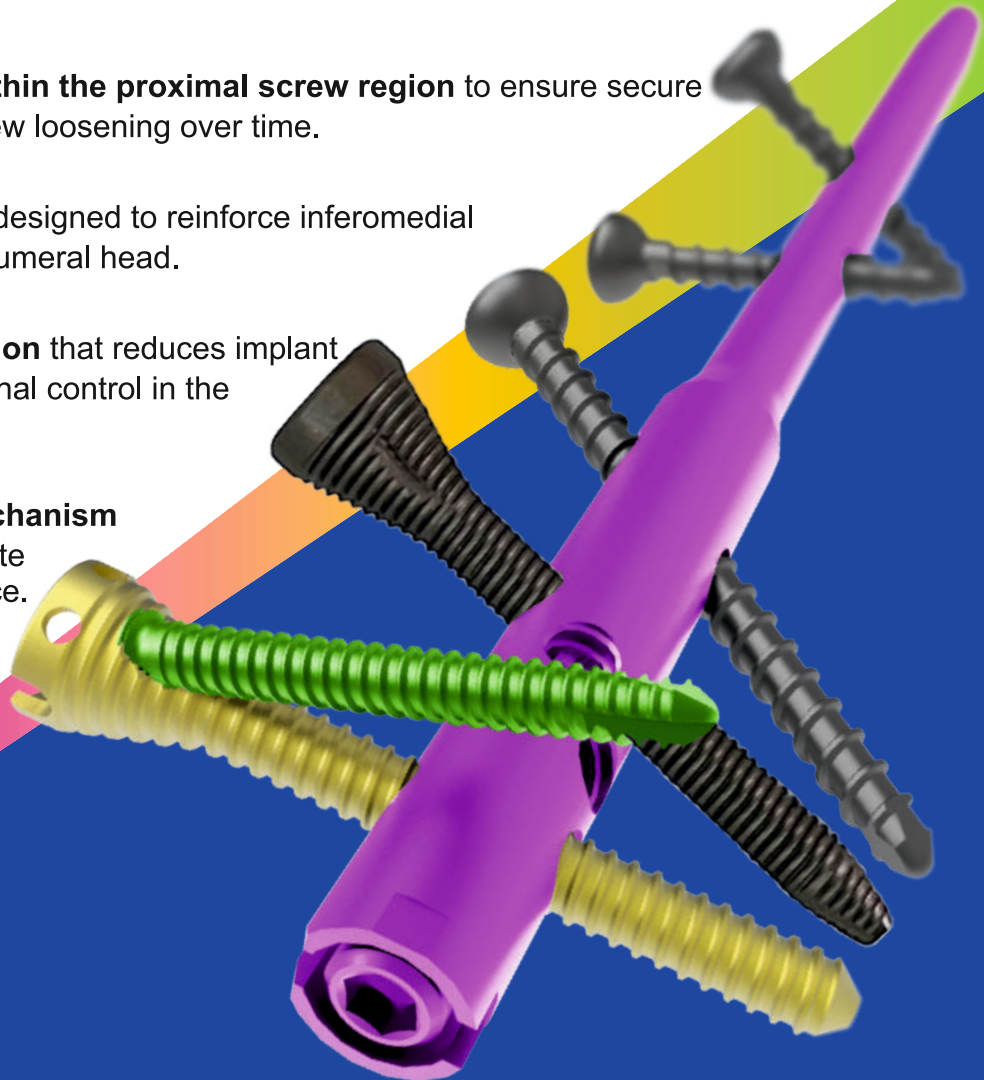
GMP Meditech

Multilock Humerus Nail System

Design Overview:

The implant system is engineered to address the functional and anatomical demands of humeral intramedullary fixation:

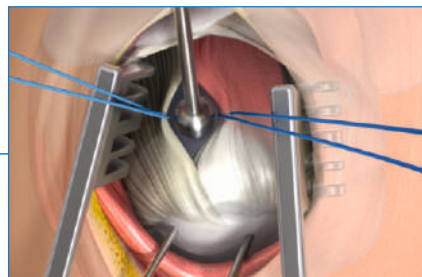
- **Axially aligned straight nail with centralized entry point**, helping maintain anatomical reduction and avoid iatrogenic disruption at the fracture site.
- **Screw-in-screw proximal fixation option** to enhance construct stability in cases requiring additional medial or rotational reinforcement.*
- **Polyethylene interface provided within the proximal screw region** to ensure secure seating and reduce the likelihood of screw loosening over time.
- **Ascending calcar screw trajectory** designed to reinforce inferomedial support and limit varus collapse of the humeral head.
- **Multiplanar distal screw configuration** that reduces implant motion (“toggling”) and increases rotational control in the distal segment.
- **Precisely guided distal locking mechanism** in the short nail variant to ensure accurate screw placement under imaging guidance.





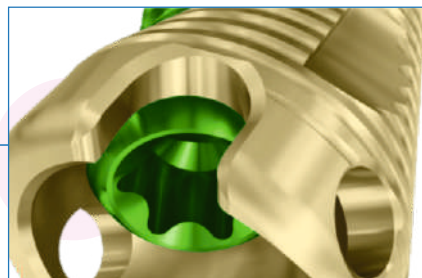
▪ Centralized Insertion Trajectory:

- > The nail is introduced through a central humeral entry point to minimize disruption at the fracture zone and assist with stable alignment.
- > The entry location is chosen to avoid the region between the greater tuberosity and humeral head where the supraspinatus tendon inserts.



▪ Multilock Proximal Screw Technology:

- > Incorporates a screw-in-screw construct for enhanced fixation in cases requiring additional stability.
- > Screw tips are minimally aggressive to lower the likelihood of iatrogenic perforation.
- > Each proximal screw contains four suture holes to support secure reattachment of the rotator cuff when indicated.



▪ Enhanced Proximal Fixation Options:

- > The ascending calcar screw and the 3.5 mm screw-in-screw configuration are intended to resist humeral head varus collapse, tuberosity displacement, and rotational instability.



▪ Bicortical Distal Compression (Long Nail Option):

- > Designed to provide improved stability in transverse and short-oblique fracture morphology.



▪ Optimized Distal Locking (Long Nail Option):

- > Locking holes are positioned within the anatomical safety corridor between the median and radial nerves.
- > Two anterior-posterior distal locking pathways facilitate straightforward free-hand locking under fluoroscopy.





Multilock Humerus Nail

Length (mm)	Ø 7.0 (Right)	Ø 8.0 (Right)	Ø 9.5 (Right)
160	GMP163.210716	GMP163.210816	GMP163.219516

Length (mm)	Ø 7.0 (Left)	Ø 8.0 (Left)	Ø 9.5 (Left)
160	GMP163.220716	GMP163.220816	GMP163.229516

Length (mm)	Ø 7.0 (Left)	Ø 8.0 (Left)
200	GMP163.220720	GMP163.220820
220	GMP163.220722	GMP163.220822
240	GMP163.220724	GMP163.220824
260	GMP163.220726	GMP163.220826
280	GMP163.220728	GMP163.220828
300	GMP163.220730	GMP163.220830

Length (mm)	Ø 7.0 (Right)	Ø 8.0 (Right)
200	GMP163.210720	GMP163.210820
220	GMP163.210722	GMP163.210822
240	GMP163.210724	GMP163.210824
260	GMP163.210726	GMP163.210826
280	GMP163.210728	GMP163.210828
300	GMP163.210730	GMP163.210830

Short

Long





4.5MM MULTILOCK SCREW FOR HUMERUS NAIL - GOLDEN



Length (mm)	Code
20	GMP300.2020
22	GMP300.2022
24	GMP300.2024
26	GMP300.2026
28	GMP300.2028
30	GMP300.2030
32	GMP300.2032
34	GMP300.2034
36	GMP300.2036
38	GMP300.2038
40	GMP300.2040
42	GMP300.2042
44	GMP300.2044
46	GMP300.2046
48	GMP300.2048
50	GMP300.2050
52	GMP300.2052
54	GMP300.2054
56	GMP300.2056
58	GMP300.2058
60	GMP300.2060

4.5MM SIMPLE LOCK SCREW FOR HUMERUS NAIL - GREY



Length (mm)	Code
20	GMP301.2020
22	GMP301.2022
24	GMP301.2024
26	GMP301.2026
28	GMP301.2028
30	GMP301.2030
32	GMP301.2032
34	GMP301.2034
36	GMP301.2036
38	GMP301.2038
40	GMP301.2040
42	GMP301.2042
44	GMP301.2044
46	GMP301.2046
48	GMP301.2048
50	GMP301.2050
52	GMP301.2052
54	GMP301.2054
56	GMP301.2056
58	GMP301.2058
60	GMP301.2060

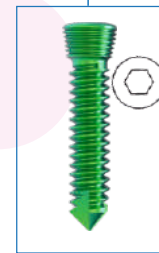


3.4MM HUMERUS NAIL LOCKING SCREW HEX DRIVE

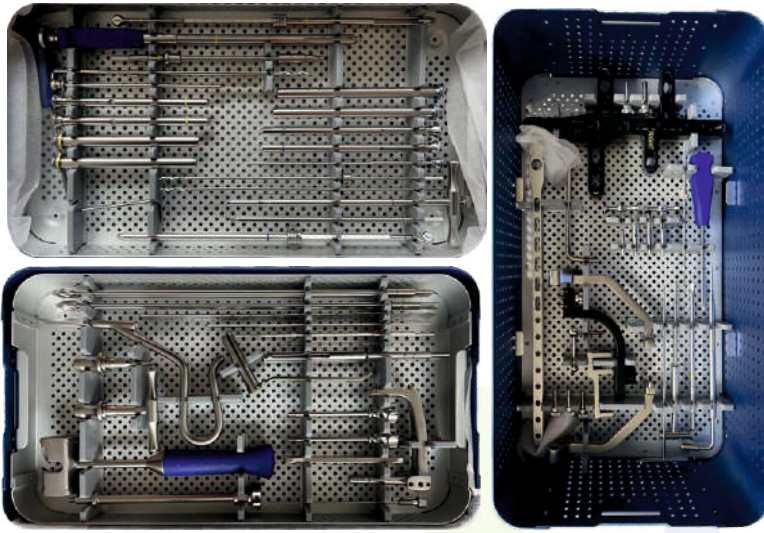


Length (mm)	Code
20	GMP302.2020
22	GMP302.2022
24	GMP302.2024
26	GMP302.2026
28	GMP302.2028
30	GMP302.2030
32	GMP302.2032
34	GMP302.2034
36	GMP302.2036
38	GMP302.2038
40	GMP302.2040
42	GMP302.2042
44	GMP302.2044
46	GMP302.2046
48	GMP302.2048
50	GMP302.2050
52	GMP302.2052
54	GMP302.2054
56	GMP302.2056
58	GMP302.2058
60	GMP302.2060
62	GMP302.2062
64	GMP302.2064
66	GMP302.2066
68	GMP302.2068
70	GMP302.2070

3.5MM LOCKING HEX DRIVE SCREW



Length (mm)	Code
26	GMP227.2026
28	GMP227.2028
30	GMP227.2030
32	GMP227.2032
34	GMP227.2034
36	GMP227.2036
38	GMP227.2038
40	GMP227.2040
42	GMP227.2042
44	GMP227.2044
46	GMP227.2046
48	GMP227.2048
50	GMP227.2050



Sr. No.	Code	Name
36	ISBN008-36	Locking Screw Drill Bit $\Phi 8.2/\Phi 3 \times 187$
37	ISBN008-37	Inner Pin $\Phi 3.0$
38	ISBN008-38	Drill Bit $\Phi 3.0 \times 300$
39	ISBN008-39	Limitation $\Phi 3.0/\text{Sw}3$
40	ISBN008-40	Limitation Wrench $\text{Sw}3.0$
41	ISBN008-41	Depth Gauge (Multiloc Humerus)
42	ISBN008-42	Hex Screwdriver $\text{Sw}3.5$ (Quick Coupling)
43	ISBN008-43	Hex Screwdriver $\text{Sw}3.5$
44	ISBN008-44	Proximal Anterior Guide Rod
45	ISBN008-45	Proximal Anterior Guide Rod Wheel $\text{M}6/\text{Sw}5$
46	ISBN008-46	Compression Bolt $\text{M}6/\Phi 3.2/\text{Sw}11$
47	ISBN008-47	Distal Guide Rod
48	ISBN008-48	Position Rod Drill Flat $\Phi 3.8$
49	ISBN008-49	Position Rod
50	ISBN008-50	Position Block
51	ISBN008-51	Distal Position Rod (Left)
52	ISBN008-52	Distal Position Rod (Right)
53	ISBN008-53	Connection Lock Wheel $\text{M}6/\text{Sw}5$
54	ISBN008-54	Wheel Wrench $\text{Sw}5$
55	ISBN008-55	End Cap Measurement
56	ISBN008-56	Remove Rod
57	ISBN008-57	Instrument Box

Sr. No.	Code	Name
1	ISBN008-01	Developed Ruler $\Phi 7-\Phi 9.5 \times 160-300$
2	ISBN008-02	Guide Pin $\Phi 1.5 \times 150$
3	ISBN008-03	Guide Pin With Limitation $\Phi 2.5 \times 200$
4	ISBN008-04	Guide Pin $\Phi 2.5 \times 250$
5	ISBN008-05	Protective Sleeve $\Phi 11.5 \times 70$
6	ISBN008-06	Quick Coupling $\Phi 8$
7	ISBN008-07	T-Shaped Quick Coupling $\Phi 8$
8	ISBN008-08	Cannulated Drill Bit $\Phi 10$
9	ISBN008-09	Cannulated Drill Bit $\Phi 11.5$
10	ISBN008-10	Open Awl
11	ISBN008-11	$\Phi 7$ Reamer
12	ISBN008-12	$\Phi 8$ Reamer
13	ISBN008-13	$\Phi 9$ Reamer
14	ISBN008-14	$\Phi 10$ Reamer
15	ISBN008-15	Handle
16	ISBN008-16	Connection Bolt $\text{M}6/\Phi 3.45/\text{Sw}11$
17	ISBN008-17	Open Wrench $\text{Sw}11$
18	ISBN008-18	Hammer Guide Rod $\text{M}6/\Phi 2.5/\text{Sw}11$
19	ISBN008-19	Hammer
20	ISBN008-20	Proximal Guide Rod
21	ISBN008-21	Proximal Guide Rod Wheel $\text{M}6/\text{Sw}5$
22	ISBN008-22	Multilock Screw/Position Rod Sleeve $\Phi 13/\Phi 10 \times 150$
23	ISBN008-23	Multilock Screw/Position Rod Drill Sleeve $\Phi 10/\Phi 3.8 \times 162$
24	ISBN008-24	Inner Pin $\Phi 3.8$
25	ISBN008-25	Drill Bit $\Phi 3.8 \times 270$
26	ISBN008-26	Indicator Block $\Phi 3.8$
27	ISBN008-27	Depth Gauge
28	ISBN008-28	Countersink
29	ISBN008-29	Multilock Screwdriver
30	ISBN008-30	Locking Screw Position Sleeve
31	ISBN008-31	Locking Screw Drill Sleeve
32	ISBN008-32	Drill Bit $\Phi 2.8 \times 200$
33	ISBN008-33	Indicator Block $\Phi 2.8$
34	ISBN008-34	Star Screwdriver
35	ISBN008-35	Locking Screw Sleeve $\Phi 11/\Phi 8.2 \times 175$



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