KIRAN ORTHO CARE

KIRAN TECHNO SERVICES PRIVATE LIMITED

KIRAN Group of Companies

KIRAN ORTHO CARE EQUIPMENTS

www.kiranmedicareequipments.com www.kiransurgicalsystems.com

KIRAN
SURGICAL SYSTEMS

Comprehensive Optimum Global Solutions...

for Orthopedic Implants

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KIRAN SURGICAL SYSTEMS

KIRAN TECHNO SERVICES PRIVATE LIMITED

Our company strictly follows guidelines stated by Central Drugs Standard Control Organization of Government of India. Along with that we follow world class standard which helps us in :

- Implementation of a Quality Management System with several enhancements
- Risk Management approach to product development and product realization
- Validation of processes
- Compliance with statutory and regulatory requirements
- Effective product traceability and recall systems

Organization's physical structure is setup in such a manner that, it minimizes product movement in manufacturing process flow, minimize unnecessary human movement and best air movement to make environment work friendly.

Product is manufactured using world's best machineries and implementing innovative techniques to make the product unique in the industry.

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Through the years, plate and screw technology has evolved to continually improve surgical outcomes. Kiran offers a comprehensive range of plate and screw systems to address a large variety of fracture patterns in many anatomic location

Kiran is dedicated to provide products to improve current treatments in orthopedic trauma surgery. Kiran Locking System includes both straight and formed plates, available in 316L Stainless Steel and Titanium, that accommodate standard cortical and cancellous screws, as well as new locking screw technology.

Distal Humerus Locking Plate
Without Support

Left Side - SP101 / TP101
Right Side - SP102 / TP102

2.7 / 3.5 mm Screw

Size	Stainless Steel	Titanium
03 Hole	SP101.3	TP101.3
05 Hole	SP101.5	TP101.5
07 Hole	SP101.7	TP101.7
09 Hole	SP101.9	TP101.9

Distal Humerus Locking Plate
With Support

Left Side - SP103 / TP103
Right Side - SP104 / TP104

2.7 / 3.5 mm Screw

Size	Stainless Steel	Titanium
03 Hole	SP103.3	TP103.3
05 Hole	SP103.5	TP103.5
07 Hole	SP103.7	TP103.7
09 Hole	SP103.9	TP103.9

Distal Humerus Medial Locking Plate

Left Side - SP105 / TP105
Right Side - SP106 / TP106

2.7 / 3.5 mm Screw

Size	Stainless Steel	Titanium
03 Hole	SP105.3	TP105.3
05 Hole	SP105.5	TP105.5
07 Hole	SP105.7	TP105.7
09 Hole	SP105.9	TP105.9

Extra Articular Distal Humerus Locking Plate

Left Side - SP107 / TP107
Right Side - SP108 / TP108

3.5 mm Screw

Size	Stainless Steel	Titanium
04 Hole	SP107.4	TP107.4
06 Hole	SP107.6	TP107.6
08 Hole	SP107.8	TP107.8
10 Hole	SP107.10	TP107.10
12 Hole	SP107.12	TP107.12
14 Hole	SP107.14	TP107.14

Anterolateral Distal Tibia Locking Plate

Left Side - SP109 / TP109
Right Side - SP110 / TP110

3.5 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP109.5	TP109.5
07 Hole	SP109.7	TP109.7
09 Hole	SP109.9	TP109.9
11 Hole	SP109.11	TP109.11
13 Hole	SP109.13	TP109.13
15 Hole	SP109.14	TP109.14
17 Hole	SP109.15	TP109.15
19 Hole	SP109.16	TP109.16
21 Hole	SP109.16	TP109.16

Olacranon Plate

Left Side - SP111 / TP111
Right Side - SP112 / TP112

3.5 mm Screw

Size	Stainless Steel	Titanium
02 Hole	SP111.2	TP111.2
04 Hole	SP111.4	TP111.4
06 Hole	SP111.6	TP111.6
08 Hole	SP111.8	TP111.8
10 Hole	SP111.10	TP111.10
12 Hole	SP111.12	TP111.12

Low Band Distal Medial Tibia Locking Plate

Left Side - SP113 / TP113
Right Side - SP114 / TP114

3.5 mm Screw

Size	Stainless Steel	Titanium
04 Hole	SP113.4	TP113.4
06 Hole	SP113.6	TP113.6
08 Hole	SP113.8	TP113.8
10 Hole	SP113.10	TP113.10
12 Hole	SP113.12	TP113.12
14 Hole	SP113.14	TP113.14

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DHS Plate DC Hole
25 mm Short Barrel

125 deg. - SP115 / TP115
130 deg. - SP116 / TP116
135 deg. - SP117 / TP117

Size	Stainless Steel	Titanium
03 Hole	SP115.3	TP115.3
04 Hole	SP115.4	TP115.4
05 Hole	SP115.5	TP115.5
06 Hole	SP115.6	TP115.6
07 Hole	SP115.7	TP115.7
08 Hole	SP115.8	TP115.8
09 Hole	SP115.9	TP115.9
10 Hole	SP115.10	TP115.10
11 Hole	SP115.11	TP115.11
12 Hole	SP115.12	TP115.12
13 Hole	SP115.13	TP115.13
14 Hole	SP115.14	TP115.14
15 Hole	SP115.15	TP115.15
16 Hole	SP115.16	TP115.16

DHS Locking Plate
25 mm Short Barrel

135 deg.

Size	Stainless Steel	Titanium
02 Hole	SP121.2	TP121.2
03 Hole	SP121.3	TP121.3
04 Hole	SP121.4	TP121.4
05 Hole	SP121.5	TP121.5
06 Hole	SP121.6	TP121.6
07 Hole	SP121.7	TP121.7
08 Hole	SP121.8	TP121.8
09 Hole	SP121.9	TP121.9
10 Hole	SP121.10	TP121.10
11 Hole	SP121.11	TP121.11
12 Hole	SP121.12	TP121.12
13 Hole	SP121.13	TP121.13
14 Hole	SP121.14	TP121.14

DHS Plate DC Hole
38 mm Long Barrel

125 deg. - SP118 / TP118
130 deg. - SP119 / TP119
135 deg. - SP120 / TP120

Size	Stainless Steel	Titanium
03 Hole	SP118.3	TP118.3
04 Hole	SP118.4	TP118.4
05 Hole	SP118.5	TP118.5
06 Hole	SP118.6	TP118.6
07 Hole	SP118.7	TP118.7
08 Hole	SP118.8	TP118.8
09 Hole	SP118.9	TP118.9
10 Hole	SP118.10	TP118.10
11 Hole	SP118.11	TP118.11
12 Hole	SP118.12	TP118.12
13 Hole	SP118.13	TP118.13
14 Hole	SP118.14	TP118.14
15 Hole	SP118.15	TP118.15
16 Hole	SP118.16	TP118.16

DHS Locking Plate
38 mm Long Barrel

135 deg.

Size	Stainless Steel	Titanium
02 Hole	SP122.2	TP122.2
03 Hole	SP122.3	TP122.3
04 Hole	SP122.4	TP122.4
05 Hole	SP122.5	TP122.5
06 Hole	SP122.6	TP122.6
07 Hole	SP122.7	TP122.7
08 Hole	SP122.8	TP122.8
09 Hole	SP122.9	TP122.9
10 Hole	SP122.10	TP122.10
11 Hole	SP122.11	TP122.11
12 Hole	SP122.12	TP122.12
13 Hole	SP122.13	TP122.13
14 Hole	SP122.14	TP122.14
15 Hole	SP122.15	TP122.15
16 Hole	SP122.16	TP122.16

D.H.S. Screw

Size	Stainless Steel	Titanium
50 mm	SS213.50	TS213.50
55 mm	SS213.55	TS213.55
60 mm	SS213.60	TS213.60
65 mm	SS213.65	TS213.65
70 mm	SS213.70	TS213.70
75 mm	SS213.75	TS213.75
80 mm	SS213.80	TS213.80
85 mm	SS213.85	TS213.85
90 mm	SS213.90	TS213.90
95 mm	SS213.95	TS213.95
100 mm	SS213.100	TS213.100

DHS Top Screw

36 mm

Size	Stainless Steel	Titanium
36 mm	SS214.36	TS214.36

Dynamic Compression Plate
Small

3.5 mm Screw

Size	Stainless Steel
05 Hole	SP123.5
06 Hole	SP123.6
07 Hole	SP123.7
08 Hole	SP123.8
09 Hole	SP123.9
10 Hole	SP123.10
11 Hole	SP123.11
12 Hole	SP123.12
13 Hole	SP123.13
14 Hole	SP123.14

Dynamic Compression Plate
Narrow

4.5 mm Screw

Size	Stainless Steel
05 Hole	SP124.5
06 Hole	SP124.6
07 Hole	SP124.7
08 Hole	SP124.8
09 Hole	SP124.9
10 Hole	SP124.10
12 Hole	SP124.12
13 Hole	SP124.13
14 Hole	SP124.14
15 Hole	SP124.15
16 Hole	SP124.16
18 Hole	SP124.18

Dynamic Compression Plate
Broad

4.5 mm Screw

Size	Stainless Steel
05 Hole	SP125.5
06 Hole	SP125.6
07 Hole	SP125.7
08 Hole	SP125.8
09 Hole	SP125.9
10 Hole	SP125.10
12 Hole	SP125.12
13 Hole	SP125.13
14 Hole	SP125.14
15 Hole	SP125.15
16 Hole	SP125.16
18 Hole	SP125.18
20 Hole	SP125.20

Locking Compression Plate
Small

3.5 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP126.5	TP126.5
06 Hole	SP126.6	TP126.6
07 Hole	SP126.7	TP126.7
08 Hole	SP126.8	TP126.8
09 Hole	SP126.9	TP126.9
10 Hole	SP126.10	TP126.10
11 Hole	SP126.11	TP126.11
12 Hole	SP126.12	TP126.12

Locking Compression Plate
Narrow

4.5 mm / 5.0 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP127.5	TP127.5
06 Hole	SP127.6	TP127.6
07 Hole	SP127.7	TP127.7
08 Hole	SP127.8	TP127.8
09 Hole	SP127.9	TP127.9
10 Hole	SP127.10	TP127.10
12 Hole	SP127.12	TP127.12
14 Hole	SP127.14	TP127.14
16 Hole	SP127.16	TP127.16

Locking Compression Plate
Broad

4.5 mm / 5.0 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP128.5	TP128.5
06 Hole	SP128.6	TP128.6
07 Hole	SP128.7	TP128.7
08 Hole	SP128.8	TP128.8
09 Hole	SP128.9	TP128.9
10 Hole	SP128.10	TP128.10
12 Hole	SP128.12	TP128.12
14 Hole	SP128.14	TP128.14
16 Hole	SP128.16	TP128.16
18 Hole	SP128.18	TP128.18

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Limited Contact Dynamic Compression Plate

Small — 3.5 mm Screw

Size	Stainless Steel
05 Hole	SP129.5
06 Hole	SP129.6
07 Hole	SP129.7
08 Hole	SP129.8
09 Hole	SP129.9
10 Hole	SP129.10
11 Hole	SP129.11
12 Hole	SP129.12
13 Hole	SP129.13
14 Hole	SP129.14

Narrow — 4.5 mm Screw

Size	Stainless Steel
05 Hole	SP130.5
06 Hole	SP130.6
07 Hole	SP130.7
08 Hole	SP130.8
09 Hole	SP130.9
10 Hole	SP130.10
12 Hole	SP130.12
13 Hole	SP130.13
14 Hole	SP130.14
15 Hole	SP130.15
16 Hole	SP130.16
18 Hole	SP130.18

Broad

Size	Stainless Steel
05 Hole	SP131.5
06 Hole	SP131.6
07 Hole	SP131.7
08 Hole	SP131.8
09 Hole	SP131.9
10 Hole	SP131.10
12 Hole	SP131.12
13 Hole	SP131.13
14 Hole	SP131.14
15 Hole	SP131.15
16 Hole	SP131.16
18 Hole	SP131.18

Reconstruction Plate

3.5 mm - Screw

Size	Stainless Steel
05 Hole	SP132.5
06 Hole	SP132.6
07 Hole	SP132.7
08 Hole	SP132.8
09 Hole	SP132.9
10 Hole	SP132.10
12 Hole	SP132.12

Reconstruction Locking Plate

3.5 mm - Screw

Size	Stainless Steel	Titanium
05 Hole	SP134.5	TP134.5
06 Hole	SP134.6	TP134.6
07 Hole	SP134.7	TP134.7
08 Hole	SP134.8	TP134.8
09 Hole	SP134.9	TP134.9
10 Hole	SP134.10	TP134.10
12 Hole	SP134.12	TP134.12

Reconstruction Plate

4.5 mm - Screw

Size	Stainless Steel
05 Hole	SP133.5
06 Hole	SP133.6
07 Hole	SP133.7
08 Hole	SP133.8
09 Hole	SP133.9
10 Hole	SP133.10
12 Hole	SP133.12

Reconstruction Locking Plate

4.5 mm / 5.0 mm - Screw

Size	Stainless Steel	Titanium
05 Hole	SP135.5	TP135.5
06 Hole	SP135.6	TP135.6
07 Hole	SP135.7	TP135.7
08 Hole	SP135.8	TP135.8
09 Hole	SP135.9	TP135.9
10 Hole	SP135.10	TP135.10
12 Hole	SP135.12	TP135.12

One Third Tubular Plate

3.5 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP136.5	TP136.5
06 Hole	SP136.6	TP136.6
07 Hole	SP136.7	TP136.7
08 Hole	SP136.8	TP136.8
09 Hole	SP136.9	TP136.9
10 Hole	SP136.10	TP136.10

T Simple Plate

4.5 mm / 6.5 mm Screw

Size	Stainless Steel
05 Hole	SP137.5
06 Hole	SP137.6
07 Hole	SP137.7
08 Hole	SP137.8
09 Hole	SP137.9
10 Hole	SP137.10
11 Hole	SP137.11
12 Hole	SP137.12

T Simple Locking Plate

4.5 mm Screw

Size	Stainless Steel
05 Hole	SP138.5
06 Hole	SP138.6
07 Hole	SP138.7
08 Hole	SP138.8
09 Hole	SP138.9
10 Hole	SP138.10

T Buttress Plate

4.5 mm / 6.5 mm Screw

Size	Stainless Steel
05 Hole	SP139.5
06 Hole	SP139.6
07 Hole	SP139.7
08 Hole	SP139.8
09 Hole	SP139.9
10 Hole	SP139.10
11 Hole	SP139.11
12 Hole	SP139.12

T Buttress Locking Plate

4.5 mm Screw

Size	Stainless Steel	Titanium
04 hole	SP140.4	TP140.4
05 hole	SP140.5	TP140.5
06 hole	SP140.6	TP140.6
07 hole	SP140.7	TP140.7
08 hole	SP140.8	TP140.8

T Right Angle Locking Plate

3.5 mm Screw

Size	Stainless Steel	Titanium
03 Hole	SP141.3	TP141.3
04 Hole	SP141.4	TP141.4
05 Hole	SP141.5	TP141.5
06 Hole	SP141.6	TP141.6

T Oblique Locking Plate

Left Side - SP142 / TP142
Right Side - SP143 / TP143

3.5 mm Screw

Size	Stainless Steel	Titanium
03 Hole	SP142.3	TP142.3
04 Hole	SP142.4	TP142.4
05 Hole	SP142.5	TP142.5
06 Hole	SP142.6	TP142.6

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L Simple Plate

Left Side - SP144
Right Side - SP145

4.5 mm / 6.5 mm Screw

Size	Stainless Steel
05 Hole	SP144.5
06 Hole	SP144.6
07 Hole	SP144.7
08 Hole	SP144.8
09 Hole	SP144.9
10 Hole	SP144.10
11 Hole	SP144.11
12 Hole	SP144.12

L Buttress Plate

Left Side - SP146 / TP146
Right Side - SP147 / TP147

4.5 mm / 6.5 mm Screw

Size	Stainless Steel	Titanium
04 Hole	SP146.4	TP146.4
05 Hole	SP146.5	TP146.5
06 Hole	SP146.6	TP146.6
07 Hole	SP146.7	TP146.7
08 Hole	SP146.8	TP146.8
09 Hole	SP146.9	TP146.9
10 Hole	SP146.10	TP146.10
11 Hole	SP146.11	TP146.11
12 Hole	SP146.12	TP146.12

L Buttress Locking Plate

Left Side - SP148 / TP148
Right Side - SP149 / TP149

4.5 mm Screw

Size	Stainless Steel	Titanium
04 Hole	SP148.4	TP148.4
05 Hole	SP148.5	TP148.5
06 Hole	SP148.6	TP148.6
07 Hole	SP148.7	TP148.7
08 Hole	SP148.8	TP148.8

Lateral Tibial Head Locking Plate

Left Side - SP150 / TP150
Right Side - SP151 / TP151

4.5 mm / 5.0 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP150.5	TP150.5
07 Hole	SP150.7	TP150.7
09 Hole	SP150.9	TP150.9
11 Hole	SP150.11	TP150.11
13 Hole	SP150.13	TP150.13

Distal Femur Locking Plate

Left Side - SP152 / TP152
Right Side - SP153 / TP153

4.5 mm / 5.0 mm Screw

Size	Stainless Steel	Titanium
05 Hole	SP152.5	TP152.5
07 Hole	SP152.7	TP152.7
09 Hole	SP152.9	TP152.9
11 Hole	SP152.11	TP152.11
13 Hole	SP152.13	TP152.13
15 Hole	SP152.15	TP152.15

Philos Plate with Locking System

3.5 mm Screw

Size	Stainless Steel	Titanium
03 Hole	SP154.3	TP154.3
04 Hole	SP154.4	TP154.4
05 Hole	SP154.5	TP154.5
06 Hole	SP154.6	TP154.6
07 Hole	SP154.7	TP154.7
08 Hole	SP154.8	TP154.8
09 Hole	SP154.9	TP154.9
10 Hole	SP154.10	TP154.10
12 Hole	SP154.12	TP154.12

Cortex Screw

3.5 mm 20 T.P.I

Size	Stainless Steel	Titanium
10 mm	SS201.10	TS201.10
12 mm	SS201.12	TS201.12
14 mm	SS201.14	TS201.14
16 mm	SS201.16	TS201.16
18 mm	SS201.18	TS201.18
20 mm	SS201.20	TS201.20
22 mm	SS201.22	TS201.22
24 mm	SS201.24	TS201.24
26 mm	SS201.26	TS201.26
28 mm	SS201.28	TS201.28
30 mm	SS201.30	TS201.30
32 mm	SS201.32	TS201.32
34 mm	SS201.34	TS201.34
36 mm	SS201.36	TS201.36
38 mm	SS201.38	TS201.38
40 mm	SS201.40	TS201.40
42 mm	SS201.42	TS201.42
44 mm	SS201.44	TS201.44
46 mm	SS201.46	TS201.46
48 mm	SS201.48	TS201.48
50 mm	SS201.50	TS201.50

3.5 mm 14 T.P.I

Size	Stainless Steel	Titanium
10 mm	SS202.10	TS202.10
12 mm	SS202.12	TS202.12
14mm	SS202.14	TS202.14
16mm	SS202.16	TS202.16
18mm	SS202.18	TS202.18
20mm	SS202.20	TS202.20
22mm	SS202.22	TS202.22
24mm	SS202.24	TS202.24
26mm	SS202.26	TS202.26
28mm	SS202.28	TS202.28
30mm	SS202.30	TS202.30
32mm	SS202.32	TS202.32
34mm	SS202.34	TS202.34
36mm	SS202.36	TS202.36
38mm	SS202.38	TS202.38
40mm	SS202.40	TS202.40
42mm	SS202.42	TS202.42
44mm	SS202.44	TS202.44
46mm	SS202.46	TS202.46
48mm	SS202.48	TS202.48
50mm	SS202.50	TS202.50

Cortex Screw

4.5 mm

Size	Stainless Steel	Titanium
10 mm	SS203.10	TS203.10
12 mm	SS203.12	TS203.12
14 mm	SS203.14	TS203.14
16 mm	SS203.16	TS203.16
18 mm	SS203.18	TS203.18
20 mm	SS203.20	TS203.20
22 mm	SS203.22	TS203.22
24 mm	SS203.24	TS203.24
26 mm	SS203.26	TS203.26
28 mm	SS203.28	TS203.28
30 mm	SS203.30	TS203.30
32 mm	SS203.32	TS203.32
34 mm	SS203.34	TS203.34
36 mm	SS203.36	TS203.36
38 mm	SS203.38	TS203.38
40 mm	SS203.40	TS203.40
42 mm	SS203.42	TS203.42
44 mm	SS203.44	TS203.44
46 mm	SS203.46	TS203.46
48 mm	SS203.48	TS203.48
50 mm	SS203.50	TS203.50
52 mm	SS203.52	TS203.52
54 mm	SS203.54	TS203.54
56 mm	SS203.56	TS203.56
58 mm	SS203.58	TS203.58
60 mm	SS203.60	TS203.60

Malleolar Screw

4.5 mm

Size	Stainless Steel	Titanium
25 mm	SS204.25	TS204.25
30 mm	SS204.30	TS204.30
35 mm	SS204.35	TS204.35
40 mm	SS204.40	TS204.40
45 mm	SS204.45	TS204.45
50 mm	SS204.50	TS204.50
55 mm	SS204.55	TS204.55
60 mm	SS204.60	TS204.60
65 mm	SS204.65	TS204.65
70 mm	SS204.70	TS204.70
75 mm	SS204.75	TS204.75

Cancellous Screw Short Threaded

4 mm

Size	Stainless Steel	Titanium
10 mm	SS205.10	TS205.10
12 mm	SS205.12	TS205.12
14 mm	SS205.14	TS205.14
16 mm	SS205.16	TS205.16
18 mm	SS205.18	TS205.18
20 mm	SS205.20	TS205.20
22 mm	SS205.22	TS205.22
24 mm	SS205.24	TS205.24
26 mm	SS205.26	TS205.26
28 mm	SS205.28	TS205.28
30 mm	SS205.30	TS205.30
35 mm	SS205.35	TS205.35
40 mm	SS205.40	TS205.40
45 mm	SS205.45	TS205.45
50 mm	SS205.50	TS205.50
55 mm	SS205.55	TS205.55
60 mm	SS205.60	TS205.60

Cancellous Screw Fully Threaded

4 mm

Size	Stainless Steel	Titanium
10 mm	SS206.10	TS206.10
12 mm	SS206.12	TS206.12
14 mm	SS206.14	TS206.14
16 mm	SS206.16	TS206.16
18 mm	SS206.18	TS206.18
20 mm	SS206.20	TS206.20
22 mm	SS206.22	TS206.22
24 mm	SS206.24	TS206.24
26 mm	SS206.26	TS206.26
28 mm	SS206.28	TS206.28
30 mm	SS206.30	TS206.30
35 mm	SS206.35	TS206.35
40 mm	SS206.40	TS206.40
45 mm	SS206.45	TS206.45
50 mm	SS206.50	TS206.50
55 mm	SS206.55	TS206.55
60 mm	SS206.60	TS206.60

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Cancellous Screw 32 MM Threaded

6.5 mm

32 mm Threaded - SS207 / TS207
16 mm Threaded - SS208 / TS208
Fully Threaded - SS209 / TS209

Size	Stainless Steel	Titanium
25 mm	SS207.25	TS207.25
30 mm	SS207.30	TS207.30
35 mm	SS207.35	TS207.35
40 mm	SS207.40	TS207.40
45 mm	SS207.45	TS207.45
50 mm	SS207.50	TS207.50
55 mm	SS207.55	TS207.55
60 mm	SS207.60	TS207.60
65 mm	SS207.65	TS207.65
70 mm	SS207.70	TS207.70
75 mm	SS207.75	TS207.75
80 mm	SS207.80	TS207.80
85 mm	SS207.85	TS207.85
90 mm	SS207.90	TS207.90
95 mm	SS207.95	TS207.95
100 mm	SS207.100	TS207.100

Cannulated Cancellous Screw

4 mm

Size	Stainless Steel	Titanium
10 mm	SS209.10	TS209.10
12 mm	SS209.12	TS209.12
14 mm	SS209.14	TS209.14
16 mm	SS209.16	TS209.16
18 mm	SS209.18	TS209.18
20 mm	SS209.20	TS209.20
22 mm	SS209.22	TS209.22
24 mm	SS209.24	TS209.24
26 mm	SS209.26	TS209.26
28 mm	SS209.28	TS209.28
30 mm	SS209.30	TS209.30
35 mm	SS209.35	TS209.35
40 mm	SS209.40	TS209.40
45 mm	SS209.45	TS209.45
50 mm	SS209.50	TS209.50
55 mm	SS209.55	TS209.55
60 mm	SS209.60	TS209.60
65 mm	SS209.65	TS209.65
70 mm	SS209.70	TS209.70

Cannulated Cancellous Screw 16 MM Threaded

7.0 mm

16 mm Threaded - SS211 / TS211
32 mm Threaded - SS212 / TS212

Size	Stainless Steel	Titanium
40 mm	SS211.40	TS211.40
45 mm	SS211.45	TS211.45
50 mm	SS211.50	TS211.50
55 mm	SS21.55	TS211.55
60 mm	SS211.60	TS211.60
65 mm	SS211.65	TS211.65
70 mm	SS211.70	TS211.70
75 mm	SS211.75	TS211.75
80 mm	SS211.80	TS211.80
85 mm	SS211.85	TS211.85
90 mm	SS211.90	TS211.90
95 mm	SS211.95	TS211.95
100 mm	SS211.100	TS211.100

Locking Head Screw

5 mm

2.7 mm - SS215 / TS215
3.5 mm - SS216 / TS216
5.0 mm - SS217 / TS217

Size	Stainless Steel	Titanium
10	SS215.10	TS215.10
12	SS215.12	TS215.12
14	SS215.14	TS215.14
16	SS215.16	TS215.16
18	SS215.18	TS215.18
20	SS215.20	TS215.20
22	SS215.22	TS215.22
24	SS215.24	TS215.24
26	SS215.26	TS215.26
28	SS215.28	TS215.28
30	SS215.30	TS215.30
32	SS215.32	TS215.32
34	SS215.34	TS215.34

Size	Stainless Steel	Titanium
36	SS215.36	TS215.36
38	SS215.38	TS215.38
40	SS215.40	TS215.40
42	SS215.42	TS215.42
44	SS215.44	TS215.44
46	SS215.46	TS215.46
48	SS215.48	TS215.48
50	SS215.50	TS215.50
52	SS215.52	TS215.52
54	SS215.54	TS215.54
56	SS215.56	TS215.56
58	SS215.58	TS215.58
60	SS215.60	TS215.60

KIRAN
SURGICAL SYSTEMS

Comprehensive Optimum Global Solutions...

External Fixation Devices

Rail Fixation System

Dynamic External Fixator

Pediatric Rail System

KIRAN TECHNO SERVICES
PRIVATE LIMITED

www.kiransurgicalsystems.com
www.kiranmedicareequipments.com

KIRAN SURGICAL SYSTEMS

KIRAN TECHNO SERVICES PRIVATE LIMITED

Our company strictly follows guidelines stated by Central Drugs Standard Control Organization of Government of India. Along with that we follow world class standard which helps us in :

- Implementation of a Quality Management System with several enhancements
- Risk Management approach to product development and product realization
- Validation of processes
- Compliance with statutory and regulatory requirements
- Effective product traceability and recall systems

Organization's physical structure is setup in such a manner that, it minimizes product movement in manufacturing process flow, minimize unnecessary human movement and best air movement to make environment work friendly.

Product is manufactured using world's best machineries and implementing innovative techniques to make the product unique in the industry.

KIRAN TECHNO SERVICES
PRIVATE LIMITED

World-grade External Fixation Devices

Kiran brings world-grade, cost-effective solutions for External Fixation devices. These External orthopedic fixation solutions stabilize fractured bones other than those in the vertebral column.

Our range of products includes Dynamic External Fixator, Rail Fixator, Pediatric Rail Fixator and Distal Radius Fixator.

Kiran External Fixation devices have been designed to stabilize bone and soft tissues at a distance from the operative or injury focus. The devices are used with 6mm tapered threaded pins, which permit tightening in case of loosening of pins. To enhance the quality of bone formation, pins are available with hydroxyl-apetite coating.

Key highlights of our range :

- Allow treatment of patients with complex bony defects
- Stabilization of severe open fractures & infected nonunions
- Temporary transarticular stabilization of severe soft tissue and ligamentous injuries
- Permit conversion from static to dynamic mode by activating integral telescopic facility in terms of CD unit
- Conceptualized using blood less surgery technique, thus minimal soft tissue disruptions

Rail Fixation System

Rail	Length	Part No.
	240 mm	U3153240
	300 mm	U3153300
	400 mm	U3153400

Central Clamp U3163000

End Clamp U3173000

Swivel Clamp U3183000

Ball & Socket Clamp (Std) U3193000

T-Ball & Socket Clamp U3203000

C D Unit	Length	Part No.
	40 mm	U3293040
	80 mm	U3293080

Graduated Swivel Clamp U3213000

T Clamp U3233000

Metaficial Clamp U3273000

Sandwich Plate U3243000

Bolt for Sandwich Plate U3253000

Dyna Ring Clamp U3223000

Rail External Fixator System

Trocar	U3013000
Drill Bit	
3.2 x 200 mm L	U3023000
4.8 x 200 mm L	U3033000
Template for End & Central Clamp	U3043000
Template for Swivel Clamp	U3053000
Drill Guides	
6 x 3.2 x 40 mm	U3063000
6 x 3.2 x 80 mm	U3073000
6 x 5 x 40 mm	U3083000
6 x 5 x 80 mm	U3093000
5 x 2 x 43 mm (1 no)	U3103000
5 x 2 x 83 mm (1 no)	U3113000
Screw Guides	
8 x 6 x 60 mm	U3123000
8 x 6 x 100 mm	U3133000
Allen Kay 6 mm	U3143000
Container for Rail Fixator System for Appliances & Implants	U3303000
Container for Rail Fixation System for Instruments	U3313000

KIRAN TECHNO SERVICES
PRIVATE LIMITED

Dynamic External Fixator

Dynamic External Fixator	Length	Part No.
	Large	U3433000
	Medium	U3443000
	Small	U3453000

Self Adjustment Clamp U3463000

T - End Clamp U3473000

Elbow Clamp U3263000

Linear Dynamic U3653000

Dynamic Wrist Fixator U3463000

Distal Radius Fixator U5015000

Dynamic External Fixator

Instruments For Dynamic External Fixator

Template for Large & Medium Dynamic External Fixator	U3323000
Template for Small Dynamic External Fixator	U3333000
Manipulating Forcep	U3343000
Trocar	U3353000
Screw Guide 8 x 6 x 60 mm	U3363000
Screw Guide8 x 6 x 100 mm	U3373000
Drill Guide 6 x 3.2 x 40 mm	U3383000
Drill Guide 6 x 3.2 x 80 mm	U3393000
Drill Guide 6 x 5 x 40 mm	U3403000
Drill Guide 6 x 5 x 80 mm	U3413000
Allen Kay	U3423000
Container for Dynamic External Fixation System for Appliances & Implants	U3493000
Container for Dynamic External Fixation System for Instruments	U3503000

Distal Radius External Fixator

Instruments For Distal Radius External Fixator System

Distal Radius External Fixator	U5015000
Distal Radius External Instruments Set	U5025000
Jig for Fixator	U5035000
Half Pin Introducer for 4 mm	U5045000
Trocar for Fixator	U5055000
Drill Sleeve for Fixator	U5065000
Screw Guide for Fixator	U5075000
Drill But 2.5 mm	U5085000
Allen Key Universal	U5095000
Container for Distal Radius Fixator Instrument Set	U5105000

Pediatric Rail System

Rail	Length	Part No.
	150 mm	U3523150
	200 mm	U3523200
	250 mm	U3523250

Central Clamp U3533000

End Clamp U3543000

Swivel Clamp U3553000

C D Unit U3513000

T Clamp U3563000

T Ball & Socket Clamp U3663000

Instruments For Pediatric External Fixator	
Screw Guide 8 x 6 x 60 mm	U3583000
Drill Guide 6 x 3.2 x 40 mm	U3593000
Drill Bit 3.2 x 200 mm	U3603000
Half Pin Introducer D Type	U3613000
Allen Kay 5 mm	U3623000
Template for Pediatric End & Central Clamp	U3633000
Template for Pediatric Swivel Clamp	U3643000

KIRAN TECHNO SERVICES
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The Tapered Threaded Pins

Total Length	Threaded Length in mm				
mm	20	30	40	50	60
Cortical - Shaft - 6 mm / Tapered 6 to 5 mm / Drill Bit 4.8 mm					
130		U701130306	U701130406	U701130506	
150		U701150306	U701150406	U701150506	
170			U701170406	U701170506	U701170606
200				U701200506	U701200606
Cortical - Shaft - 6 mm / Tapered 4.5 to 3.5 mm / Drill Bit 3.2 mm					
100	U7021002005	U702100305			
120		U702120305	U702120405		
Cortical - Shaft - 4 mm / Tapered 3.5 to 3.0 mm / Drill Bit 2.5 mm					
	18	20			
50	U706050184				
60		U706060204			
70		U706070204			
80		U706080204			
100		U706100204			

Tapered Threaded Pins with Hydroxy Apetite Coating

Total Length	Threaded Length in mm				
mm	20	30	40	50	60
Cortical - Shaft - 6 mm / Tapered 6 to 5 mm / Drill Bit 4.8 mm					
130		U703130306	U703130406	U703130506	
150		U703150306	U703150406	U703150506	
170			U703170406	U703170506	U703170606
200			U703200406	U703200506	U703200606
Cortical - Shaft - 6 mm / Tapered 4.5 to 3.5 mm / Drill Bit 3.2 mm					
100	U704100205	U704100305			
120		U704120305	U704120405		

KIRAN SURGICAL SYSTEMS

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Neuface

Cranio & Maxillofacial Implants

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Cranio & Maxillofacial Implants By Kiran

NEUFACE System represent the next generation of bone fixation for all Cranio & Maxillofacial Fractures , Orthognathic & Reconstructive needs with the help of advance implants , manufactured using modern technology & design which is anatomical & proven with practical surgery aspects.

NEUFACE System consists of implants that covers Titanium Meshes and Titanium Locking system ,Titanium Bone screws for fixation of Cranio & Maxillofacial fractures and Osteotomies during Orthognathic Surgeries.

The system consists of the following:

- Maxillo titanium bone plates
- Orthognathic surgery titanium bone plates
- Titanium bone plates for genioplasty
- Mendibular compression titanium bone plates
- Titanium bone plates for comminuted fractures
- Titanium mesh plates
- Mendibular reconstruction titanium bone plates
- Titanium bone screws.
- Instruments for above

We at Kiran provide advance Cranio & Maxillofacial surgery solutions. Our range of solutions have been designed with the knowledge & guidance of Cranio & Maxillofacial surgeons & hence is uncomplicated and goes up a step further in providing the desired results.

The **Neuface** Implant Range

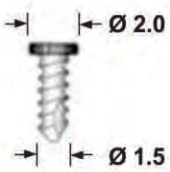
The color coding of the Screw Diameter

- 1.2 mm Screw Diameter (Emergency Screw)
- 1.5 mm Screw Diameter
- 1.7 mm Screw Diameter (Emergency Screw)
- 2.0 mm Screw Diameter
- 2.3 mm Screw Diameter (Emergency Screw)
- 2.5 mm Screw Diameter
- 2.7 mm Screw Diameter (Emergency Screw)
- 2.7 mm Screw Diameter

The color coding of the Plate Thickness

- 0.8 mm Plate Thickness
- 1.0 mm Plate Thickness
- 1.2 mm Plate Thickness
- 1.5 mm Plate Thickness

The Measurement of the screw



Screw length definition refers
to the length of the thread only

The Plates

All plates are depicted in actual size.

Universal Features

Smart Lock Locking Screw Technology for angled screw insertion

Screw Options

Self Tapping , Self Drilling and Locking Screws.

KIRAN TECHNO SERVICES
PRIVATE LIMITED

The Neuface Implant Range

Mini Straight Plate Continue Hole

UTM 101.02 to 06	02 hole To 06 hole
UTM 101.08	08 hole
UTM 101.10	10 hole
UTM 101.12	12 hole
UTM 101.16	16 hole
UTM 101.20	20 hole
UTM 101.30	30 hole
UTM 101.50	50 hole

8 Holes, condensed

Mini Straight Plate With Gap

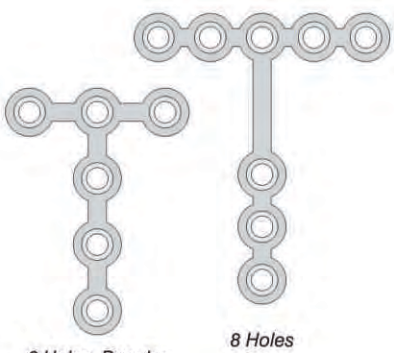
UTM 102.02	02 hole
UTM 102.03	03 hole
UTM 102.04	04 hole
UTM 102.05	05 hole
UTM 102.06	06 hole

4 Holes, Regular

4 Holes, 8 mm Bar

Mini ' T ' Plate (with Gap / without Gap)

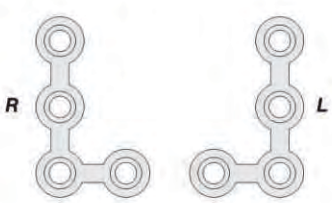
UTM 103.0202	02 hole + 02 hole
UTM 103.0302	03 hole + 02 hole
UTM 103.0303	03 hole + 03 hole
UTM 103	(EXTRA BIG)



6 Holes, Regular *8 Holes*

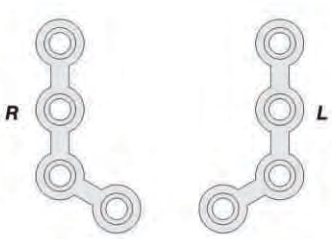
Mini ' L ' Plate 90' - Left & Right

UTM 104.0202	02 hole + 02 hole
UTM 104.0303	03 hole + 03 hole
UTM 104.0302	03 hole + 02 hole
UTM 104	(EXTRA BIG)



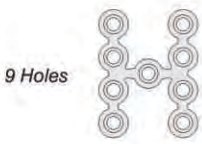
Mini ' L ' Plate 120' - Left & Right

UTM 105.0202	02 hole + 02 hole
UTM 105.0303	03 hole + 03 hole
UTM 105.0302	03 hole + 02 hole
UTM 105	(EXTRA BIG)



4 Holes, Regular

The Neuface Implant Range



9 Holes

Mini ' H ' Shape Plate

UTM 106.09	09 hole

6 Holes

Mini ' I ' Shape Plate

UTM 107.06	06 hole

5 Holes

Mini ' X ' Shape Plate

UTM 108.05	05 hole

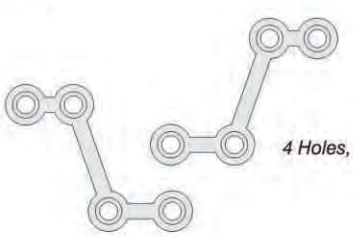
Big 8 Holes

Double Y Shape
6 Holes

Small 4 Holes

Mini ' Y ' Shape Plate

UTM 109.01	Small
UTM 109.02	Big
UTM 109.03	Double ' Y ' Shape Plate



4 Holes, Small

Mini ' Z ' Shape Plate Left & Right

UTM 110.04	4 hole
UTM 110.05	5 hole

4 Holes

Mini Orbita Plate With Gap

UTM 111.04	4 hole
UTM 111.06	6 hole
UTM 111	PER HOLE

10 holes, condensed

Mini Orbita Plate Without Gap

UTM 112.04	4 hole
UTM 112.06	6 hole
UTM 112	PER HOLE

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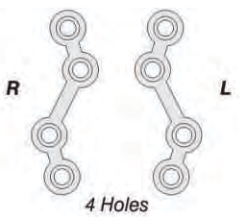
The Neuface Implant Range

Mini Curved Plate Left & Right

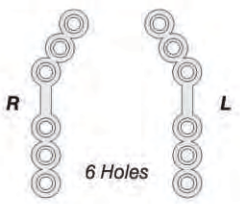
UTM 113.04	4 hole
UTM 113.06	6 hole



4 Holes

Mini Angular Plate 150' Left & Right

UTM 114.04	4 hole
UTM 114.06	6 hole



6 Holes

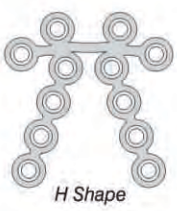
Mini Straight Reconstruction Plate 2.7mm

UTM 115.08	8 hole
UTM 115.10	10 hole
UTM 115.12	12 hole
UTM 115.16	16 hole
UTM 115.20	20 hole
UTM 115.24	24 hole
UTM 115	After Per Hole Rs. Extra


8 Holes

Mini Nose Plate

UTM 116.01	H - SHAPE
UTM 116.02	Y - SHAPE


H Shape

Mini Chin Plate

UTM 117


Chin Plate, 6 mmBar

Mini 3D Plate

UTM 118.0202	2 hole + 2 hole
UTM 118.0203	2 hole + 3 hole
UTM 118.0204	2 hole + 4 hole

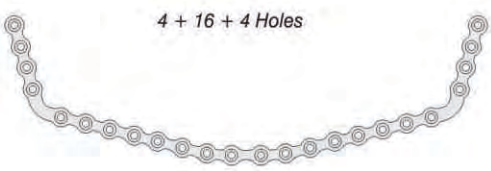

2 x 2 Holes

Mini Angle Reconstruction Plate Left & Right

UTM 119.1204	12 hole + 4 hole
UTM 119.1604	16 hoel + 4 hole
UTM 119.2004	20 hole + 4 hole
UTM 119.1606	16 hole + 6 hole
UTM 119.2604	26 hole + 4 hole
UTM 119.2006	20 hole + 6 hole


5 + 17 Holes

The Neuface Implant Range

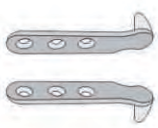


Mini Double Angle Reconstruction Plate

UTM 120.041604	4 hole + 16 hole + 4 hole
UTM 120.042004	4 hole + 20 hole + 4 hole
UTM 120.042404	4 hole + 24 hole + 4 hole
UTM 120.042804	4 hole + 28 hole + 4 hole
UTM 120.042404	4 hole + 24 hole + 4 hole
UTM 120.042804	4 hole + 28 hole + 4 hole

Mini Full Mendbibal Reconstruction Plate

UTM 121.1204121	2 hole + 4 hole + 12 hole
UTM 121.1404141	4 hole + 4 hole + 14 hole
UTM 121.1604161	6 hole + 4 hole +16 hole

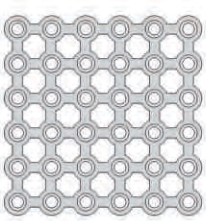


T.M.J. Condylar Plate Left & Right

UTM 122.03	3 HOLE

T.M.J. Condylar With Reconstruction Angular Plate Left & Right

UTM 123.1204	12 hole + 4 hole
UTM 123.1604	16 hole + 4 hole
UTM 123.2004	20 hole + 4 hole
UTM 123.1606	16 hole + 6 hole
UTM 123.2604	26 hole + 4 hole
UTM 123.2006	20 hole + 6 hole



Wire Mesh For 1.5 & 2.0mm Screw

UTM 124.01	1" X 1"
UTM 124.02	2" x 2"
UTM 124.03	2" x 3"
UTM 124.04	3" x 3"
UTM 124.05	3" x 4"
UTM 124.06	3" x 6"
UTM 124.07	4" x 4"
UTM 124.08	4" x 6"

Mini Burr Hole Plate

UTM 125	(2.0 mm , 2.5 mm)

Mini Le Fort I Plate

UTM 126	(1.5 mm , 2.0 mm)

Arch Bar

UTM 127	1 Feet

KIRAN TECHNO SERVICES
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The Neuface Implant Range

Mini Screw (Slotted Head) (Diameter 2.0 mm)

Diameter 1.5 mm - Product Code UTM 201
Diameter 2.5 mm - Product Code UTM 203

UTM 202.04	LENGTH 4.0 mm
UTM 202.05	LENGTH 5.0 mm
UTM 202.07	LENGTH 7.0 mm
UTM 202.08	LENGTH 8.0 mm
UTM 202.09	LENGTH 9.0 mm
UTM 202.10	LENGTH 10.0 mm
UTM 202.11	LENGTH 11.0 mm
UTM 202.12	LENGTH 12.0 mm
UTM 202.14	LENGTH 14.0 mm
UTM 202.16	LENGTH 16.0 mm

Intermaxillary Fixetion Screw(I.M.F) with Hole/with Grove (Diameter 2.5 mm)

Diameter 2.0 mm - Product Code UTM 204

UTM 205.04	Length 4.0 mm
UTM 205.06	Length 6.0 mm
UTM 205.08	Length 8.0 mm
UTM 205.10	Length 10.0 mm
UTM 205.12	Length 12.0 mm
UTM 205.14	Length 14.0 mm
UTM 205.16	Length 16.0 mm

Lag Screw (Diameter 2.0 mm)

Diameter 2.5 mm - Product Code UTM 207

UTM 206.08	LENGTH 8.0 mm
UTM 206.10	LENGTH 10.0 mm
UTM 206.12	LENGTH 12.0 mm
UTM 206.14	LENGTH 14.0 mm
UTM 206.16	LENGTH 16.0 mm

Emergency Screw (Diameter 1.8 mm)

Diameter 2.3 mm - Product Code UTM 209
Diameter 2.7 mm - Product Code UTM 210

UTM 208.06	LENGTH 6.0 mm
UTM 208.08	LENGTH 8.0 mm
UTM 208.10	LENGTH 10.0 mm
UTM 208.12	LENGTH 12.0 mm

The Neuface Implant Range

Cross Slotted Screw - 2.0 mm

Diameter 1.5 mm - Product Code UTM 211

Diameter 2.5 mm - Product Code UTM 213

UTM 212.04	LENGTH 4.0 mm
UTM 212.05	LENGTH 5.0 mm
UTM 212.07	LENGTH 7.0 mm
UTM 212.08	LENGTH 8.0 mm
UTM 212.09	LENGTH 9.0 mm
UTM 212.10	LENGTH 10.0 mm
UTM 212.11	LENGTH 11.0 mm
UTM 212.12	LENGTH 12.0 mm
UTM 212.14	LENGTH 14.0 mm
UTM 212.16	LENGTH 16.0 mm

Locking Cross Slotted Screw - 2.3 mm

Diameter 1.8 mm - Product Code UTM 214

Diameter 2.5 mm - Product Code UTM 216

UTM 215.04	LENGTH 4.0 mm
UTM 215.05	LENGTH 5.0 mm
UTM 215.07	LENGTH 7.0 mm
UTM 215.08	LENGTH 8.0 mm
UTM 215.09	LENGTH 9.0 mm
UTM 215.10	LENGTH 10.0 mm
UTM 215.11	LENGTH 11.0 mm
UTM 215.12	LENGTH 12.0 mm
UTM 215.14	LENGTH 14.0 mm
UTM 215.16	LENGTH 16.0 mm

2.7 mm Screw 5.0 mm Single Slot Head

UTM 217	6mm to 20mm length

2.7 mm Screw 5.0 mm Hex Head

UTM 218	8mm to 20mm length

Note :

KIRAN
SURGICAL SYSTEMS

Comprehensive Optimum Global Solutions...

for Orthopedic Implants

Tibia Nail

Femoral Nail

Proximal Femoral Nail

Humerus Nail

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The KIRAN Nailing system is a next-generation intra-medullary nailing system designed to make the surgery experience one of ease from pre-op to close.

The nails are designed to be as anatomical and patient conscious as possible, and the instruments are designed to be fluid in layout and intuitive in function.

The Kiran TIBIA NAIL is meant for use in a variety of tibia fractures such as

Indications

- Compound and simple shaft fractures
- Proximal, metaphyseal and distal shaft fractures
- Segmental fractures
- Comminuted fractures
- Fractures involving osteopenic and osteoporotic bone
- Pathological fractures
- Fractures with bone loss
- Periprosthetic fractures
- Pseudoarthrosis, non - union, mal - union and delayed union
- Surgically created defects such as osteotomies

Contraindications

- A medullary canal obliterated by a previous fracture or tumor
- Bone Shaft having excessive bow or deformity
- Lack of bone substance or bone quality which makes stable seating of the implant impossible
- All concomitant diseases that can impair the functioning and the success of the implant
- Infection
- Insufficient blood circulation
- Skeletally immature patients

3.9 mm Locking Screw

Size	Stainless Steel	Titanium
24 mm	SS215.24	TS215.24
26 mm	SS215.26	TS215.26
28 mm	SS215.28	TS215.28
30 mm	SS215.30	TS215.30
32 mm	SS215.32	TS215.32
34 mm	SS215.34	TS215.34
36 mm	SS215.36	TS215.36
38 mm	SS215.38	TS215.38
40 mm	SS215.40	TS215.40
42 mm	SS215.42	TS215.42
45 mm	SS215.45	TS215.45
50 mm	SS215.50	TS215.50
55 mm	SS215.55	TS215.55
60 mm	SS215.60	TS215.60

4.9 mm Locking Screw

Size	Stainless Steel	Titanium
24 mm	SS216.24	TS216.24
26 mm	SS216.26	TS216.26
28 mm	SS216.28	TS216.28
30 mm	SS216.30	TS216.30
32 mm	SS216.32	TS216.32
34 mm	SS216.34	TS216.34
36 mm	SS216.36	TS216.36
38 mm	SS216.38	TS216.38
40 mm	SS216.40	TS216.40
42 mm	SS216.42	TS216.42
45 mm	SS216.45	TS216.45
50 mm	SS216.50	TS216.50
55 mm	SS216.55	TS216.55
60 mm	SS216.60	TS216.60
65 mm	SS216.65	TS216.65
70 mm	SS216.70	TS216.70
75 mm	SS216.75	TS216.75
80 mm	SS216.80	TS216.80

Guide Wire Pusher - UI408

Hammer - UI407

Hammering Bolt - UI412

Impactor / Extractor - UI410

Bone Awl - UI406

Screw Driver - UI429

Conical Bolt - UI414

Drill Bit
Ø 4mm - UI419 /3.2mm - UI420

Trocar - UI411

Teflon Sleeve - UI428

KIRAN TECHNO SERVICES
PRIVATE LIMITED

Tibia Nail

Insertion Handle - UI401

Tissue Protector - UI415

Drill Sleeve - UI433

T Handle Spanner - UI413

Depth Gauge - UI404

Distal Device Bolt - UI409

Guide Wire, Bullet Point - UI432

Guide Wire, Simple - UI431

SN 303 / TN 303

TIBIA Nail

Specification

Stainless Steel	Titanium	Diameter In mm	Length In cm
SN303.8.26	TN303.8.26	8	26
SN303.8.28	TN303.8.28	8	28
SN303.8.30	TN303.8.30	8	30
SN303.8.32	TN303.8.32	8	32
SN303.8.34	TN303.8.34	8	34
SN303.8.36	TN303.8.36	8	36
SN303.8.38	TN303.8.38	8	38
SN303.9.26	TN303.9.26	9	26
SN303.9.28	TN303.9.28	9	28
SN303.6.30	TN303.9.30	9	30
SN303.9.30	TN303.9.32	9	32
SN303.9.32	TN303.9.34	9	34
SN303.6.31	TN303.9.36	9	36
SN303.9.34	TN303.9.38	9	38
SN303.10.26	TN303.10.26	10	26
SN303.10.28	TN303.10.28	10	28
SN303.10.30	TN303.10.30	10	30
SN303.10.32	TN303.10.32	10	32
SN303.10.34	TN303.10.34	10	34
SN303.10.36	TN303.10.36	10	36
SN303.10.38	TN303.10.38	10	38

The Kiran FEMORAL NAIL is meant for use in a variety of femoral fractures such as

Indications

- Comminuted fractures
- Segmental fractures
- Fractures with bone loss
- Proximal and distal fractures
- Nonunions
- Subtrochanteric fractures
- Intertrochanteric fractures

4.9 mm Locking Screw

Size	Stainless Steel	Titanium
24 mm	SS216.24	TS216.24
26 mm	SS216.26	TS216.26
28 mm	SS216.28	TS216.28
30 mm	SS216.30	TS216.30
32 mm	SS216.32	TS216.32
34 mm	SS216.34	TS216.34
36 mm	SS216.36	TS216.36
38 mm	SS216.38	TS216.38
40 mm	SS216.40	TS216.40
42 mm	SS216.42	TS216.42
45 mm	SS216.45	TS216.45
50 mm	SS216.50	TS216.50
55 mm	SS216.55	TS216.55
60 mm	SS216.60	TS216.60
65 mm	SS216.65	TS216.65
70 mm	SS216.70	TS216.70
75 mm	SS216.75	TS216.75
80 mm	SS216.80	TS216.80

Guide Wire Pusher - UI408

Hammer - UI407

Hammering Bolt - UI412

Impactor / Extractor - UI410

Bone Awl - UI406

Screw Driver - UI429

Conical Bolt - UI414

Drill Bit
Ø 4mm - UI419 /3.2mm - UI420

Trocar - UI411

Teflon Sleeve - UI428

KIRAN TECHNO SERVICES
PRIVATE LIMITED

Femoral Nail

Insertion Handle - UI401

Tissue Protector - UI415

Drill Sleeve - UI433

T Handle Spanner - UI413

Depth Gauge - UI404

Distal Device Bolt - UI409

Guide Wire, Bullet Point - UI432

Guide Wire, Simple - UI431

SN 304 / TN 304

FEMORAL Nail

Specification

Stainless Steel	Titanium	Diameter In mm	Length In cm
SN304.9.34	TN304.9.34	9	34
SN304.9.36	TN304.9.36	9	36
SN304.9.38	TN304.9.38	9	38
SN304.9.40	TN304.9.40	9	40
SN304.9.42	TN304.9.42	9	42
SN304.9.44	TN304.9.44	9	44
SN304.10.34	TN304.10.34	10	34
SN304.10.36	TN304.10.36	10	36
SN304.10.38	TN304.10.38	10	38
SN304.10.40	TN304.10.40	10	40
SN304.10.42	TN304.10.42	10	42
SN304.10.44	TN304.10.44	10	44
SN304.11.34	TN304.11.34	11	34
SN304.11.36	TN304.11.36	11	36
SN304.11.38	TN304.11.38	11	38
SN304.11.40	TN304.11.40	11	40
SN304.11.42	TN304.11.42	11	42
SN304.11.44	TN304.11.44	11	44
SN304.12.34	TN304.12.34	12	34
SN304.12.36	TN304.12.36	12	36
SN304.12.38	TN304.12.38	12	38
SN304.12.40	TN304.12.40	12	40
SN304.12.42	TN304.12.42	12	42
SN304.12.44	TN304.12.44	12	44

The Kiran PROXIMAL FEMORAL NAIL is meant for use in a variety of femoral fractures such as

Proximal Femoral Nail - Short

Indications

- Pertrochanteric fractures
- Intertrochanteric fractures
- High subtrochanteric fractures

Contraindications

- Low subtrochanteric fractures
- Femoral shaft fractures
- Isolated or combined medial femoral neck fractures

Proximal Femoral Nail - Long

Indications

- Low and extended subtrochanteric fractures
- Ipsilateral trochanteric fractures
- Combination fractures (in the proximal femur)
- Pathological fractures

Contraindications

- Isolated or combined medial femoral neck fractures

6.4 mm Leg Screw - Cannulated

Size	Stainless Steel	Titanium
50 mm	SS218.50	TS218.50
55 mm	SS218.55	TS218.55
60 mm	SS218.60	TS218.60
65 mm	SS218.65	TS218.65
70 mm	SS218.70	TS218.70
75 mm	SS218.75	TS218.75
80 mm	SS218.80	TS218.80
85 mm	SS218.85	TS218.85
90 mm	SS218.90	TS218.90
95 mm	SS218.95	TS218.95
100 mm	SS218.100	TS218.100
105 mm	SS218.105	TS218.105
110 mm	SS218.110	TS218.110
115 mm	SS218.115	TS218.115
120 mm	SS218.120	TS218.120

8 mm Leg Screw -Cannulated

Size	Stainless Steel	Titanium
50 mm	SS219.50	TS219.50
55 mm	SS219.55	TS219.55
60 mm	SS219.60	TS219.60
65 mm	SS219.65	TS219.65
70 mm	SS219.70	TS219.70
75 mm	SS219.75	TS219.75
80 mm	SS219.80	TS219.80
85 mm	SS219.85	TS219.85
90 mm	SS219.90	TS219.90
95 mm	SS219.95	TS219.95
100 mm	SS219.100	TS219.100
105 mm	SS219.105	TS219.105
110 mm	SS219.110	TS219.110
115 mm	SS219.115	TS219.115
120 mm	SS219.120	TS219.120

Fosa Finder - UI434

Guide Wire Pusher - UI408

Hammer - UI407

Hammering Bolt - UI412

Impactor / Extractor - UI410

Straight Awl - UI425

Bone Awl - UI406

Screw Driver - UI430

Conical Bolt - UI414

Drill Bit

Cannulated Ø 8mm - UI417 / 6.3mm - UI418

Trocar - UI411

Teflon Sleeve - UI428

Guide Wire, Simple - UI431

KIRAN TECHNO SERVICES
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Proximal Femoral Nail

Insertion Handle - UI401

Quick Coupling Device - UI424

Tissue Protector Sleeve - UI416

Tissue Protector - UI415

Drill Sleeve - UI433

T Handle Spanner - UI413

Depth Gauge - UI404

Distal Device Bolt - UI409

Guide Wire, Bullet Point - UI432

Tap
Ø 8mm - UI422 / 6.3mm - UI423

SN 302 / TN 302

PROXIMAL FEMORAL Nail Long (135 Degree)

Specification

Stainless Steel	Titanium	Diameter In mm	Length In cm
SN301.9.34L	TN301.9.34L	9	34
SN301.9.36L	TN301.9.36L	9	36
SN301.9.38L	TN301.9.38L	9	38
SN301.9.40L	TN301.9.40L	9	40
SN301.9.42L	TN301.9.42L	9	42
SN301.9.44L	TN301.9.44L	9	44
SN301.9.34R	TN301.9.34R	9	34
SN301.9.36R	TN301.9.36R	9	36
SN301.9.38R	TN301.9.38R	9	38
SN301.9.40R	TN301.9.40R	9	40
SN301.9.42R	TN301.9.42R	9	42
SN301.9.44R	TN301.9.44R	9	44
SN301.10.34L	TN301.10.34L	10	34
SN301.10.36L	TN301.10.36L	10	36
SN301.10.38L	TN301.10.38L	10	38
SN301.10.40L	TN301.10.40L	10	40
SN301.10.42L	TN301.10.42L	10	42
SN301.10.44L	TN301.10.44L	10	44
SN301.10.34R	TN301.10.34R	10	34
SN301.10.36R	TN301.10.36R	10	36
SN301.10.38R	TN301.10.38R	10	38
SN301.10.40R	TN301.10.40R	10	40
SN301.10.42R	TN301.10.42R	10	42
SN301.10.44R	TN301.10.44R	10	44
SN301.11.34L	TN301.11.34L	11	34
SN301.11.36L	TN301.11.36L	11	36
SN301.11.38L	TN301.11.38L	11	38
SN301.11.40L	TN301.11.40L	11	40
SN301.11.42L	TN301.11.42L	11	42
SN301.11.44L	TN301.11.44L	11	44
SN301.11.34R	TN301.11.34R	11	34
SN301.11.36R	TN301.11.36R	11	36
SN301.11.38R	TN301.11.38R	11	38
SN301.11.40R	TN301.11.40R	11	40
SN301.11.42R	TN301.11.42R	11	42
SN301.11.44R	TN301.11.44R	11	44
SN301.12.34L	TN301.12.34L	12	34
SN301.12.36L	TN301.12.36L	12	36
SN301.12.38L	TN301.12.38L	12	38
SN301.12.40L	TN301.12.40L	12	40
SN301.12.42L	TN301.12.42L	12	42
SN301.12.44L	TN301.12.44L	12	44
SN301.12.34R	TN301.12.34R	12	34
SN301.12.36R	TN301.12.36R	12	36
SN301.12.38R	TN301.12.38R	12	38
SN301.12.40R	TN301.12.40R	12	40
SN301.12.42R	TN301.12.42R	12	42
SN301.12.44R	TN301.12.44R	12	44

Proximal Femoral Nail Short (130 Degree)

SN302.130.925	TN302.130.925	9	25
SN302.130.1025	TN302.130.1025	10	25
SN302.130.1125	TN302.130.1125	11	25
SN302.130.1225	TN302.130.1225	12	25

Proximal Femoral Nail Short (135 Degree)

SN302.135.925	TN302.135.925	9	25
SN302.135.1025	TN302.135.1025	10	25
SN302.135.1125	TN302.135.1125	11	25
SN302.135.1225	TN302.135.1225	12	25

The **Kiran** HUMERUS NAIL is meant to provide temporary stabilization of various types of fractures, malunions and nonunions of the humerus.

Indications

- The nails are inserted using an opened or closed technique and can be static, dynamic and compression locked.
- The subject and predicate devices are indicated for use in the humerus.
- Types of fractures include, but not limited to fractures of the humeral shaft, non-unions, malalignments, pathological humeral fractures, and impending pathological fractures.

Contraindication

The physician's education, training and professional judgement must be relied upon to choose the most appropriate device and treatment. Conditions presenting an increased risk of failure include :

- Any active or suspected latent infection or marked local inflammation in or about the affected area.
- Compromised vascularity that would inhibit adequate blood supply to the fracture or the operative site.
- Bone stock compromised by disease, infection or prior implantation that can not provide adequate support and/or fixation of the devices.
- Material sensitivity, documented or suspected.
- Obesity. An overweight or obese patient can produce loads on the implant that can lead to failure of the fixation of the device or to failure of the device itself.
- Patients having inadequate tissue coverage over the operative site.
- Implant utilization that would interfere with anatomical structures or physiological performance.
- Any mental or neuromuscular disorder which would create an unacceptable risk of fixation failure or complications in postoperative care.
- Other medical or surgical conditions which would preclude

3.4 mm Locking Screw

Size	Stainless Steel	Titanium
18 mm	SS217.18	TS217.18
20 mm	SS217.20	TS217.20
22 mm	SS217.22	TS217.22
24 mm	SS217.24	TS217.24
26 mm	SS217.26	TS217.26
28 mm	SS217.28	TS217.28
30 mm	SS217.30	TS217.30
32 mm	SS217.32	TS217.32
34 mm	SS217.34	TS217.34
36 mm	SS217.36	TS217.36
38 mm	SS217.38	TS217.38
40 mm	SS217.40	TS217.40
42 mm	SS217.42	TS217.42
44 mm	SS217.44	TS217.44
46 mm	SS217.46	TS217.46
48 mm	SS217.48	TS217.48
50 mm	SS217.50	TS217.50

Compression Screw - UI426

Hammer - UI407

Hammering Bolt - UI412

Impactor / Extractor - UI410

Bone Awl - UI406

Screw Driver - UI429

Conical Bolt - UI414

Drill Bit
Ø 2.7 mm - UI421

Trocar - UI411

Teflon Sleeve - UI428

KIRAN TECHNO SERVICES
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Humerus Nail

Insertion Handle - UI402

Compression Device - UI415

Drill Sleeve - UI433

T Handle Spanner - UI413

Depth Gauge - UI404

Distal Device Bolt - UI409

Guide Wire, Bullet Point - UI432

Guide Wire, Simple - UI431

SN 305 / TN 305

HUMERUS Nail

Specification

Stainless Steel	Titanium	Diameter In mm	Length In cm
SN305.6.18	TN305.6.18	6	18
SN305.6.20	TN305.6.20	6	20
SN305.6.22	TN305.6.22	6	22
SN305.6.24	TN305.6.24	6	24
SN305.6.26	TN305.6.26	6	26
SN305.6.28	TN305.6.28	6	28
SN305.7.18	TN305.7.18	7	18
SN305.7.20	TN305.7.20	7	20
SN305.7.22	TN305.7.22	7	22
SN305.7.24	TN305.7.24	7	24
SN305.7.26	TN305.7.26	7	26
SN305.7.28	TN305.7.28	7	28
SN305.8.18	TN305.8.18	8	18
SN305.8.20	TN305.8.20	8	20
SN305.8.22	TN305.8.22	8	22
SN305.8.24	TN305.8.24	8	24
SN305.8.26	TN305.8.26	8	26
SN305.8.28	TN305.8.28	8	28

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Our company strictly follows guidelines stated by Central Drugs Standard Control Organization of Government of India. Along with that we follow world class standard which helps us in :

- Implementation of a Quality Management System with several enhancements
- Risk Management approach to product development and product realization
- Validation of processes
- Compliance with statutory and regulatory requirements
- Effective product traceability and recall systems

Organization's physical structure is setup in such a manner that, it minimizes product movement in manufacturing process flow, minimize unnecessary human movement and best air movement to make environment work friendly.

Product is manufactured using world's best machineries and implementing innovative techniques to make the product unique in the industry.

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Spine Implants By Kiran

Over the past decade, there has been a continuous evolution in the surgical application of pedicle screw fixation. In order to meet, the demands of advanced surgical techniques require systems that are adaptable, reliable, and user-friendly. The BREAKTHRU Spinal System is a familiar top-loading multi axial screw system with an enhanced locking mechanism, a lower functional profile, and an ergonomically designed instrument set. The system has also been designed for the treatment of degenerative disease, deformity, and trauma indications.

A primary enhancement of the BREAKTHRU Spinal System is a Duel Core thread locking mechanism. This locking mechanism improves the pull out strength and securely anchor the screw implants in both the cortical and cancellous bone anatomy.

Functional profile of the screw limits the problems of facet impingement. Beyond these advances in implant design, the instrument set has been significantly re-engineered and improved. In addition to the substantial technical advances.

An important design focus of the BREAKTHRU Spinal System was to accommodate the specialized needs of the hospital and OR staff. Important factors include a broad range of surgical capabilities within a single system and the availability of modules for treatment of deformity and other specialty needs. Other benefits, such as color-coding by screw size, serve to limit the complexity of the system for the OR technician. Overall the BREAKTHRU Spinal System represents a significant advancement in the development and refinement of pedicle screw instrumentation.

Keep Moving Forward

The BreakThru Implant Range

Single Lock Screw

BreakThru Monoaxial Screw

Ø 4.5 mm	Ø 5.5, 6.5 mm
UTS - 101 Dia. 4.5 mm x Len. 15 mm	UTS - 101 Dia. 5.5, 6.5 mm x Len. 30 mm
UTS - 101 Dia. 4.5 mm x Len. 20 mm	UTS - 101 Dia. 5.5, 6.5 mm x Len. 35 mm
UTS - 101 Dia. 4.5 mm x Len. 25 mm	UTS - 101 Dia. 5.5, 6.5 mm x Len. 40 mm
UTS - 101 Dia. 4.5 mm x Len. 30 mm	UTS - 101 Dia. 5.5, 6.5 mm x Len. 45 mm
UTS - 101 Dia. 4.5 mm x Len. 35 mm	UTS - 101 Dia. 5.5, 6.5 mm x Len. 50 mm
	UTS - 101 Dia. 5.5, 6.5 mm x Len. 55 mm

BreakThru Polyaxial Screw

Ø 4.5 mm	Ø 5.5, 6.5 mm
UTS - 102 Dia. 4.5 mm x Len. 15 mm	UTS - 102 Dia. 5.5, 6.5 mm x Len. 30 mm
UTS - 102 Dia. 4.5 mm x Len. 20 mm	UTS - 102 Dia. 5.5, 6.5 mm x Len. 35 mm
UTS - 102 Dia. 4.5 mm x Len. 25 mm	UTS - 102 Dia. 5.5, 6.5 mm x Len. 40 mm
UTS - 102 Dia. 4.5 mm x Len. 30 mm	UTS - 102 Dia. 5.5, 6.5 mm x Len. 45 mm
UTS - 102 Dia. 4.5 mm x Len. 35 mm	UTS - 102 Dia. 5.5, 6.5 mm x Len. 50 mm
	UTS - 102 Dia. 5.5, 6.5 mm x Len. 55 mm

BreakThru Monoaxial Reduction Screw

Ø 4.5 mm	Ø 5.5, 6.5 mm
UTS - 103 Dia. 4.5 mm x Len. 15 mm	UTS - 103 Dia. 5.5, 6.5 mm x Len. 30 mm
UTS - 103 Dia. 4.5 mm x Len. 20 mm	UTS - 103 Dia. 5.5, 6.5 mm x Len. 35 mm
UTS - 103 Dia. 4.5 mm x Len. 25 mm	UTS - 103 Dia. 5.5, 6.5 mm x Len. 40 mm
UTS - 103 Dia. 4.5 mm x Len. 30 mm	UTS - 103 Dia. 5.5, 6.5 mm x Len. 45 mm
UTS - 103 Dia. 4.5 mm x Len. 35 mm	UTS - 103 Dia. 5.5, 6.5 mm x Len. 50 mm
	UTS - 103 Dia. 5.5, 6.5 mm x Len. 55 mm

BreakThru Polyaxial Reduction Screw

Ø 4.5 mm	Ø 5.5, 6.5 mm
UTS - 104 Dia. 4.5 mm x Len. 15 mm	UTS - 104 Dia. 5.5, 6.5 mm x Len. 30 mm
UTS - 104 Dia. 4.5 mm x Len. 20 mm	UTS - 104 Dia. 5.5, 6.5 mm x Len. 35 mm
UTS - 104 Dia. 4.5 mm x Len. 25 mm	UTS - 104 Dia. 5.5, 6.5 mm x Len. 40 mm
UTS - 104 Dia. 4.5 mm x Len. 30 mm	UTS - 104 Dia. 5.5, 6.5 mm x Len. 45 mm
UTS - 104 Dia. 4.5 mm x Len. 35 mm	UTS - 104 Dia. 5.5, 6.5 mm x Len. 50 mm
	UTS - 104 Dia. 5.5, 6.5 mm x Len. 55 mm

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The BreakThru Implant Range

Additional Implants

Inner Screw for Screws & Hooks

Code No. UTS - 105

ROD

Rod Ø 5.5 mm

UTS - 106 Dia. 5.5 mm x Len. 50 mm
UTS - 106 Dia. 5.5 mm x Len. 60 mm
UTS - 106 Dia. 5.5 mm x Len. 70 mm
UTS - 106 Dia. 5.5 mm x Len. 80 mm
UTS - 106 Dia. 5.5 mm x Len. 90 mm
UTS - 106 Dia. 5.5 mm x Len. 100 mm
UTS - 106 Dia. 5.5 mm x Len. 120 mm
UTS - 106 Dia. 5.5 mm x Len. 140 mm
UTS - 106 Dia. 5.5 mm x Len. 160 mm
UTS - 106 Dia. 5.5 mm x Len. 180 mm
UTS - 106 Dia. 5.5 mm x Len. 200 mm
UTS - 106 Dia. 5.5 mm x Len. 250 mm
UTS - 106 Dia. 5.5 mm x Len. 300 mm

Rod Ø 3.0 mm

UTS - 106 Dia. 3.0 mm x Len. 75 mm
UTS - 106 Dia. 3.0 mm x Len. 50 mm
UTS - 106 Dia. 3.0 mm x Len. 100 mm
UTS - 106 Dia. 3.0 mm x Len. 125 mm
UTS - 106 Dia. 3.0 mm x Len. 150 mm

Additional Implants

Transverse Connector

Code No. UTS - 107

Staple for Single Lock Screw

Code No. UTS - 108

The BreakThru Implant Range

Anterior Cervical Plate System

BreakThru Anterior Cervical Plate (Orion Type)

UTS - 109 - Len. 21.5 mm
UTS - 109 - Len. 23 mm
UTS - 109 - Len. 25 mm
UTS - 109 - Len. 27.5 mm
UTS - 109 - Len. 30 mm
UTS - 109 - Len. 32.5 mm
UTS - 109 - Len. 35 mm
UTS - 109 - Len. 37.5 mm
UTS - 109 - Len. 40 mm
UTS - 109 - Len. 42.5 mm
UTS - 109 - Len. 45 mm
UTS - 109 - Len. 47.5 mm
UTS - 109 - Len. 50 mm
UTS - 109 - Len. 52.5 mm
UTS - 109 - Len. 55 mm
UTS - 109 - Len. 57.5 mm
UTS - 109 - Len. 60 mm
UTS - 109 - Len. 625 mm
UTS - 109 - Len. 65 mm
UTS - 109 - Len. 67.5 mm
UTS - 109 - Len. 70 mm

Bone Screw for Anterior Cervical Plate Ø4 mm

UTS - 110 - Len. 10 mm
UTS - 110 - Len. 12 mm
UTS - 110 - Len. 14 mm
UTS - 110 - Len. 16 mm
UTS - 110 - Len. 18 mm
UTS - 110 - Len. 20 mm
UTS - 110 - Len. 22 mm
UTS - 110 - Len. 24 mm

Lock Screw for Anterior Cervical Plate

Code No. UTS - 111

Posterior Cervical

Occipital T Plate

Code No. UTS - 112

Occipital MID Line Connector

Code No. UTS - 113

Occipital Bone Screws 6,8 & 10 mm

Code No. UTS - 114

Inner Screws

Code No. UTS - 115

Multi Axial Bone Screw Ø 3.5 mm

UTS - 116 Dia. 3.5 mm x Len. 10 mm
UTS - 116 Dia. 3.5 mm x Len. 12 mm
UTS - 116 Dia. 3.5 mm x Len. 14 mm
UTS - 116 Dia. 3.5 mm x Len. 16 mm
UTS - 116 Dia. 3.5 mm x Len. 18 mm
UTS - 116 Dia. 3.5 mm x Len. 20 mm
UTS - 116 Dia. 3.5 mm x Len. 22 mm
UTS - 116 Dia. 3.5 mm x Len. 24 mm

Multi Axial Bone Screw Ø 4.0 mm

UTS - 116 Dia. 4 mm x Len. 10 mm
UTS - 116 Dia. 4 mm x Len. 12 mm
UTS - 116 Dia. 4 mm x Len. 14 mm
UTS - 116 Dia. 4 mm x Len. 16 mm
UTS - 116 Dia. 4 mm x Len. 18 mm
UTS - 116 Dia. 4 mm x Len. 20 mm
UTS - 116 Dia. 4 mm x Len. 22 mm
UTS - 116 Dia. 4 mm x Len. 24 mm

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The BreakThru Implant Range

Occipital Rod Ø 3.2 mm x 240 mm
Code No. UTS - 117

Occifix Plate 2 Hole, 3 Hole, 4 Hole, & 5 Hole
Code No. UTS - 118

Occifix Locking Plate 2 Hole, 3 Hole, 4 Hole, & 5 Hole
Code No. UTS - 119

Anterior Thorocolumber

Anterior Thorocolumber Plate with Locking System

UTS - 120 - Len. 57 mm
UTS - 120 - Len. 63 mm
UTS - 120 - Len. 67 mm
UTS - 120 - Len. 70 mm
UTS - 120 - Len. 76 mm
UTS - 120 - Len. 82 mm
UTS - 120 - Len. 87 mm
UTS - 120 - Len. 93 mm
UTS - 120 - Len. 99 mm
UTS - 120 - Len. 103 mm
UTS - 120 - Len. 108 mm
UTS - 120 - Len. 113 mm
UTS - 120 - Len. 118 mm
UTS - 120 - Len. 123 mm
UTS - 120 - Len. 128 mm
UTS - 120 - Len. 138 mm

Anterior Thorocolumber Locking Screw Ø 6.5 mm

UTS - 121 Dia. 6.5 mm x Len. 25 mm
UTS - 121 Dia. 6.5 mm x Len. 30 mm
UTS - 121 Dia. 6.5 mm x Len. 35 mm
UTS - 121 Dia. 6.5 mm x Len. 40 mm
UTS - 121 Dia. 6.5 mm x Len. 45 mm
UTS - 121 Dia. 6.5 mm x Len. 50 mm
UTS - 121 Dia. 6.5 mm x Len. 55 mm
UTS - 121 Dia. 6.5 mm x Len. 60 mm

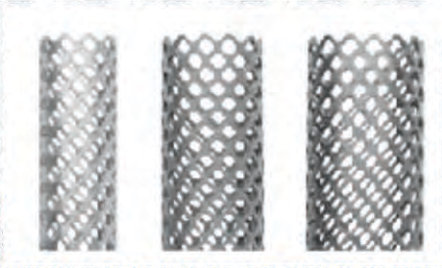
Anterior Thorocolumber Locking Screw Ø 7.5 mm

UTS - 122 Dia. 7.5 mm x Len. 25 mm
UTS - 122 Dia. 7.5 mm x Len. 30 mm
UTS - 122 Dia. 7.5 mm x Len. 35 mm
UTS - 122 Dia. 7.5 mm x Len. 40 mm
UTS - 122 Dia. 7.5 mm x Len. 45 mm
UTS - 122 Dia. 7.5 mm x Len. 50 mm
UTS - 122 Dia. 7.5 mm x Len. 55 mm
UTS - 122Dia. 7.5 mm x Len. 60 mm

Anterior Thorocolumber Locking Screw Ø 4 mm

UTS - 123 Dia. 4 mm x Len. 22 mm
UTS - 123 Dia. 4 mm x Len. 24 mm
UTS - 123 Dia. 4 mm x Len. 26 mm
UTS - 123 Dia. 4 mm x Len. 28 mm
UTS - 123 Dia. 4 mm x Len. 3 mm

The BreakThru Implant Range



CAGE

Ø 10 mm

UTS - 124 Dia. 10 mm x Len. 20 mm
UTS - 124 Dia. 10 mm x Len. 25 mm
UTS - 124 Dia. 10 mm x Len. 30 mm
UTS - 124 Dia. 10 mm x Len. 35 mm
UTS - 124 Dia. 10 mm x Len. 40 mm
UTS - 124 Dia. 10 mm x Len. 45 mm
UTS - 124 Dia. 10 mm x Len. 50 mm

Ø 12 mm

UTS - 124 Dia. 12 mm x Len. 20 mm
UTS - 124 Dia. 12 mm x Len. 25 mm
UTS - 124 Dia. 12 mm x Len. 30 mm
UTS - 124 Dia. 12 mm x Len. 35 mm
UTS - 124 Dia. 12 mm x Len. 40 mm
UTS - 124 Dia. 12 mm x Len. 45 mm
UTS - 124 Dia. 12 mm x Len. 50 mm

Ø 14 mm

UTS - 124 Dia. 14 mm x Len. 20 mm
UTS - 124 Dia. 14 mm x Len. 25 mm
UTS - 124 Dia. 14 mm x Len. 30 mm
UTS - 124 Dia. 14 mm x Len. 35 mm
UTS - 124 Dia. 14 mm x Len. 40 mm
UTS - 124 Dia. 14 mm x Len. 45 mm
UTS - 124 Dia. 14 mm x Len. 50 mm

Ø 16 mm

UTS - 124 Dia. 16 mm x Len. 20 mm
UTS - 124 Dia. 16 mm x Len. 25 mm
UTS - 124 Dia. 16 mm x Len. 30 mm
UTS - 124 Dia. 16 mm x Len. 35 mm
UTS - 124 Dia. 16 mm x Len. 40 mm
UTS - 124 Dia. 16 mm x Len. 45 mm
UTS - 124 Dia. 16 mm x Len. 50 mm

Ø 18 mm

UTS - 124 Dia. 18 mm x Len. 20 mm
UTS - 124 Dia. 18 mm x Len. 25 mm
UTS - 124 Dia. 18 mm x Len. 30 mm
UTS - 124 Dia. 18 mm x Len. 35 mm
UTS - 124 Dia. 18 mm x Len. 40 mm
UTS - 124 Dia. 18 mm x Len. 45 mm
UTS - 124 Dia. 18 mm x Len. 50 mm

Ø 20 mm

UTS - 124 Dia. 20 mm x Len. 20 mm
UTS - 124 Dia. 20 mm x Len. 25 mm
UTS - 124 Dia. 20 mm x Len. 30 mm
UTS - 124 Dia. 20 mm x Len. 35 mm
UTS - 124 Dia. 20 mm x Len. 40 mm
UTS - 124 Dia. 20 mm x Len. 45 mm
UTS - 124 Dia. 20 mm x Len. 50 mm

Ø 22 mm

UTS - 124 Dia. 22 mm x Len. 20 mm
UTS - 124 Dia. 22 mm x Len. 25 mm
UTS - 124 Dia. 22 mm x Len. 30 mm
UTS - 124 Dia. 22 mm x Len. 35 mm
UTS - 124 Dia. 22 mm x Len. 40 mm
UTS - 124 Dia. 22 mm x Len. 45 mm
UTS - 124 Dia. 22 mm x Len. 50 mm

Ø 24 mm

UTS - 124 Dia. 24 mm x Len. 20 mm
UTS - 124 Dia. 24 mm x Len. 25 mm
UTS - 124 Dia. 24 mm x Len. 30 mm
UTS - 124 Dia. 24 mm x Len. 35 mm
UTS - 124 Dia. 24 mm x Len. 40 mm
UTS - 124 Dia. 24 mm x Len. 45 mm
UTS - 124 Dia. 24 mm x Len. 50 mm

Lumber Fusion Cage for Transforaminal Application
10 mm x 28 mm
Height : 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 mm

UTS - 125.007 - H 07 X W 10 X L 28 mm
UTS - 125.008 - H 08 X W 10 X L 28 mm
UTS - 125.009 - H 09 X W 10 X L 28 mm
UTS - 125.010 - H 10 X W 10 X L 28 mm
UTS - 125.011 - H 11 X W 10 X L 28 mm
UTS - 125.012 - H 12 X W 10 X L 28 mm
UTS - 125.013 - H 13 X W 10 X L 28 mm
UTS - 125.014 - H 14 X W 10 X L 28 mm
UTS - 125.015 - H 15 X W 10 X L 28 mm
UTS - 125.016 - H 16 X W 10 X L 28 mm
UTS - 125.017 - H 17 X W 10 X L 28 mm

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The BreakThru Implant Range

Expandable Cage

UTS - 127 12 - Len. 16 to 25 mm
UTS - 127 12 - Len. 24 to 40 mm
UTS - 127 14 - Len. 16 to 25 mm
UTS - 127 14 - Len. 24 to 40 mm
UTS - 127 16 - Len. 16 to 25 mm
UTS - 127 16 - Len. 24 to 40 mm
UTS - 127 16 - Len. 38 to 54 mm
UTS - 127 18 - Len. 25 to 34 mm
UTS - 127 18 - Len. 32 to 44 mm
UTS - 127 18 - Len. 38 to 54 mm
UTS - 127 20 - Len. 25 to 34 mm
UTS - 127 20 - Len. 32 to 44 mm
UTS - 127 20 - Len. 38 to 54 mm
UTS - 127 22 - Len. 25 to 34 mm
UTS - 127 22 - Len. 32 to 44 mm
UTS - 127 22 - Len. 38 to 54 mm

Spacer Cage

UTS - 128 12 - Len. 16 to 25 mm
UTS - 128 12 - Len. 24 to 40 mm
UTS - 128 14 - Len. 16 to 25 mm
UTS - 128 14 - Len. 24 to 40 mm

Threaded Cage

UTS - 129 08 - Len. 10 mm
UTS - 129 10 - Len. 10 mm
UTS - 129 12 - Len. 10 mm
UTS - 129 08 - Len. 12 mm
UTS - 129 10 - Len. 12 mm
UTS - 129 12 - Len. 12 mm

Cervical Spacer

UTS - 130.04 H 04 X W 12 X L 14 mm
UTS - 130.05 H 05 X W 12 X L 14 mm
UTS - 130.06 H 06 X W 12 X L 14 mm
UTS - 130.07 H 07 X W 12 X L 14 mm
UTS - 130.08 H 08 X W 12 X L 14 mm
UTS - 130.09 H 09 X W 12 X L 14 mm
UTS - 130.10 H 10 X W 12 X L 14 mm

Expandable Jack Cage

Cervical Cage

UTS - 131 01 - Len. 15 to 18 mm
UTS - 131 02 - Len. 26 to 30 mm
UTS - 131 03 - Len. 32 to 40 mm
UTS - 131 04 - Len. 42 to 50 mm
UTS - 131 05 - Len. 52 to 70 mm

Lumbar Cage

UTS - 131 01 - Len. 24 to 28 mm
UTS - 131 02 - Len. 27 to 34 mm
UTS - 131 03 - Len. 37 to 44 mm
UTS - 131 04 - Len. 45 to 70 mm

The BreakThru Implant Range

Instructions for Use

The specific indications of the BreakThru Spine System are as follows.

1. Degenerative Disc Disease (defined as back pain of discogenic origin combined with degeneration of the disc which is confirmed by radiographic studies and patient history)
2. Spinal Canal Stenosis
3. Spondylolisthesis
4. Deformities of the spine e.g. Scoliosis, Kyphosis, or dosis.
5. Trauma of the thoracic, or acelumbar or lumbar spine.
6. Unsuccessful previous attempt at spinal fusion
7. Stabilization following resection of spinal tumors'
8. All components of the BreakThru Spine System are limited to non-cervical use.
9. The BreakThru Spondylolisthesis Reduction Screw is Intended for use as a reduction /pedicle screw only in patients having severe spondylolisthesis (Grades 3 and 4) which need to be supplanted by the use of autogenous bone grafting or a spinal fusion cage.

CONTRAINDICATIONS

Contraindications include but are not limited

1. Infection local to the operative site.
2. Signs of local inflammation
3. fever or leukocytosis
4. Morbid obesity
5. Pregnancy
6. Mental illness
7. Any other medical or surgical condition which would preclude the Potential benefit of spinal implant surgery such as the presence of tumor or congenital abnormalities, elevation of sedimentation rate unexplained by other diseases, elevation white blood count (WBC) or a marked left shift in the WBC Differential count
8. Rapid joint disease, bone absorption, osteopenia, and/or osteoporosis. Osteoporosis is a relative contraindication since this condition may limit the degree obtainable correction and the amount of mechanical fixation.
9. Suspected or documented metal allergy or intolerance.
10. Any case not needing a bone graft and fusion
11. For pedicle screw cases missing or congenitally deformed lumbar pedicles.
12. Any case requiring the mixing of metals from two different components.
13. Any patient having inadequate tissue coverage over the operative site.
14. Any case not described in the indication.
15. Any patient unwilling to cooperate with the post-operative instructions.

POTENTIAL ADVERSE EFFECTS

All of the possible adverse events associated with spinal fusion surgery without instrumentation are possible.

With instrumentation a listing of possible adverse events includes But is not limited to:

1. Early or late loosening, disassembly, bending, and/or breakage of any or all of the components.
2. Foreign body (allergic) reaction to implants, corrosion products and debris including metallosis, tumor formation, staining And/or auto-immune disease
3. Post-operative change in spinal curvature, loss of correction, height and/or reduction.
4. Pressure on the skin from components parts in patients with inadequate tissue coverage over the implant, possibly causing skin penetration, irritation and / or pain, Bursitis Tissue damage caused improper positioning and placement of implants or instruments.
5. Dural tears, infection, loss of neurological function including paralysis (complete or incomplete), dysesthesias, hyperesthesia, anesthesia, paraesthesia, appearance of radiculopathy, and/or the development or continuation of pain, numbness, neuroma or tingling sensation.
6. Fracture, micro fractures, damage, resorption or penetration of any spinal bone (including the pedicles, sacrum and/or vertebral body) and/or bone graft or bone graft harvest site at, above and/or below the level of surgery
7. Scar formation possibly causing neurological compromise, around nerves and / or pain.
8. Non-union or pseudarthrosis, Delayed union, Mal-union.
9. Cessation of any potential growth of the-operated portion of the spine, loss of spinal mobility or function, inability to perform the activities of daily living.
10. Graft donor site complication including pain, fracture or wound healing problems.
11. Bone loss or decrease bone density possibly caused by stress shielding
12. Loss of bowel and/or bladder control or other types of urological system compromise.
13. Cauda equina syndrome, neurological deficits (transient or a permanent), neuropathy, bilateral paralegia, flaccid deficits and/or arachnoiditis.
14. Herniated nucleus pulposus, retropulsed graft, atelectasis, ileus, gastritis..
15. Hemorrhage, hematoma, phlebitis, seroma, embolism, stroke, excessive bleeding, Wound necrosis, Wound dehiscence or damage to blood vessels.
16. Gastrointestinal and/or reproductive system compromise, including sterility and loss o f consortium.
17. Development of respiratory problems e.g. pulmonary embolism, Bronchitis, pneumonia, etc
18. Change in mental status
19. Deaths.

NOTE : Additional surgery may be necessary to correct some of these anticipated adverse events.

WARNINGS

1. Potential risks identified with the use of this device system, Which may require additional surgery include Device component fracture
2. Loss of fixation
3. Non-union
4. Fracture of the vertebra
5. Neurological injury, and
6. Vascular or visceral injury
7. Successful surgical results are not always achieved in every surgical situation.
8. This fact is particularly relevant in spinal surgery where the possibility of Compromised surgical results due to other unavoidable circumstances exists.
9. This device is not intended to be the sole means of spinal support.
10. The use of this device will not be successful the absence of bone graft or in cases that lead to non-union. Spinal implants of any type will not withstand body loads without adequate body support.
11. In the event of adequate body support not being available, loosening of implant components, Bending, disassembly and / or breakage of the device may be a likely eventuality
12. Preoperative planning operative procedures.
13. Knowledge of surgical techniques.
14. Appropriate implant selection and placement and good reduction are critical considerations is successful application of this device by the surgeon.
15. Proper patient selection and appropriate patient compliance to the surgeon's instructions Especially those concerning the post-operative period will greatly affect surgical outcomes.
16. It has been documented that patients who smoke have an increased incidence of non-unions.
17. Patients should be advised of this fact and warned of this possible consequence.
18. Other candidates for poor results of spine fusion include alcoholics.
19. Obese patents, Mal-nourished patents patients with poor muscle and bone quality and / or nerve paralysis.

PREOPERATIVE PRECAUTIONS

1. Patients that do not meet the criteria described in the indication Should not be selected for surgery
2. Patients with contraindications such as those described above should be avoided.

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The BreakThru Implant Range

3. Implants should not be scratched or damaged. Implants and instruments must be protected during storage particularly from corrosive environments. Implant components and instruments must be stored and handled with care
4. The BreakThru Spine System surgical technique manual should be read. Further directions for use of this system will be provided upon request.
5. Appropriate and detailed pre-operative planning most is used to determine the type of construct required, prior of the beginning of surgery
6. Since the system consists of various mechanical components which function together in an integrated manner. The operative surgeon and the assisting staff should be familiar with the various components before using the equipment. And should personally assemble the devices to ensure that all necessary instrument and implant components are available before surgery commences.
7. Except for the components listed under the system description in the catalogue section, or unless otherwise explicitly stated in another Uteshiya Medicare document the BreakThru Spine System components should not be Combined with components of other spinal systems
8. Unless supplied sterile all components of the system Implants and instruments. Should be cleaned and sterilized before use. Additional components particularly implants should be available on hand in case of unexpected need. Non-sterile instrumenter implants must not he used surgery

INTRAOPERATIVE PRECAUTIONS

1. Detailed instructions as provided in the most current BreakThru Spine System surgical technique manual should be carefully followed.
2. Extreme cautions should be exercised at all times in the area around the spinal cord and nerve roots this is particularly important while inserting hooks Screw and connectors. Damage to the nerve will cause loss of neurological functions.
3. Intra-operative assembly of Instruments and implant components must be performed with patience and care. Slippage of components or breakage of instruments may occur causing injury to the patient or operative personnel.
4. Spinal rods must not be bent repeated or reverse bent. Contouring templates must be used to reduce the bending of the rods to the bare minimum necessary
5. Whenever possible pre-cut-rods of appropriate lengths should be used. In case rods need to be cut intra-operatively they should be cut such that a flat. Non-sharp surface. Perpendicular to the rod axis is created. Cutting of rods must always be carried out outside the operative field. Both ends of the rod on either side of the rod cut must be grasped while being cut to avoid accidental injury.
6. Image guidance in the form of a C-arm image intensifier or equivalent must be used to position implant components.
7. While using a tap. Ensure that the diameter of the tap is not larger than the diameter of the spine screw that will be used. Do not over tap or select a spine screw that is. Either too long. too large or small than the tap size. Overlapping of using an incorrectly sized screw may cause nerve damage. Hemorrhage and/ or loosening
8. Bone graft should be used to facilitate proper fusion below and around the location of the implant components.
9. The use of bone cement in the spine is contraindicated as the effectiveness and safety of its use has not been adequately established. The use of bone cement will further make removal of the implant components difficult or impossible apart from the likely neurological damage bone necrosis on account of the heat generated by the curing process.
10. Prior to closing of the soft tissues all screw and nuts should be tightened according to the surgical technique the tightness of all screws and nuts should be double checked to ensure that none of them have accidentally loosened during tightening of other components. Failure to perform a final check may cause loosening of other implant components.

POSTOPERATIVE PRECAUTIONS

The physician's postoperative directions and warnings to the patient and the corresponding patient compliance are extremely important.

1. Detailed instructions must be given to the patient concerning the use and limitations of the implanted device. If partial weight bearing is required or recommended prior to bony union the patient must be warned that loosening bending and/ or breakage of the device are complications which may occur due to early or excessive weight bearing or muscular activity. The patient should be warned to avoid falls or sudden jolts of any nature. If the patient is demented Debilitated or otherwise unable to use crutches or other supporting devices the risk of loosening bending and/ or breakage may be increased the patient must be made aware of this tact
2. The patient should be advised to refrain from smoking consuming alcohol non-steroidal or aspirin during the bone graft healing process. Mechanical Vibrators May compromise the probability of obtaining successful surgical result. Considering this aspect the patient must be warned to limit and restrict physical activity especially lifting and twisting movements as any type of sports activities.
3. The consequences of permanent bony fusion including the permanent loss of mobility at the point of spinal fusion must be explained to the patient. The patient must be taught to compensate for the permanent physical restriction in body motion.
4. In case of delayed union or non-Union of the bone immobilization of the surgical site becomes mandatory. Failure to do so will cause excessive and repeated stresses on the implant. Which may cause eventual loosening bending and/ or breakage of the implanted device or its components. It is critical to maintain immobilization of the surgical site till bony union is established and confirmed by radiography in case non-union develops or it any of the device components loosen bend and/ or break. Immediate revision surgery is indicated before serious injury results.
5. All implant components of the BreakThru Spine System are internal fixation devices. It is intended that these devices assist in the process of stabilizing the operative site during the normal process of healing. Subsequent to healing. These devices do not serve any further functional purpose and need to be removed. Removal is primarily indicated in most cases as the implants are not intended to transfer or support forces applicable during normal activities. If the implant components are not removed subsequent to completion of their intended use, the following complications may ensue

1) Corrosion combined with localized pain or tissue reaction.
2) Migration of position of the implant resulting in injury.
3) Postoperative trauma with the risk of additional injury.
4) Bending Loosening and/ or breakage of implant components which may make removal more difficult or even impractical
5) Possibly increased risk of infection.
6) Bone loss due to Stress shielding
7) Pain. Discomfort abnormal sensation felt by the patient due to the presence of the device.

6. Any retrieved implant components should be treated in such a manner so as to render further use/re-use of the components impossible.

PACKAGING AND APPLICATION

1. All implant components should be checked for intact packaging on receipt.
2. In case a loaner or consignment set of instruments and implant components is used.
3. All instruments and implant must be carefully checked for completeness and all components should be carefully inspected for absence of damage prior to use.

STERILIZATION

1. Unless specifically supplied pre-sterile and clearly labeled as such, all implant components and instrumentation must be sterilized prior to use in surgery using standard sterilization cycles and process parameters.
2. All packaging materials must be removed prior to sterilization.
3. Only sterile implants and instruments must be used in surgery
4. All instrument and implants must be cleaned and dried immediately following use in surgery using standard procedures for operative surgical instruments.
5. This process must invariably be performed in case of loaner on consignment instruments and implants being returned to the distributor

www.kiransurgicalsystems.com
www.kiranmedicareequipments.com

Kiran SURGICAL SYSTEMS

KIRAN TECHNO SERVICES PRIVATE LIMITED

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