Signex System

Universal 3.5

OSTEONIC

The Medical Explorer

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Overview

Various clinical challenges surgeons are facing these days in surgical fracture treatment require solutions that can be only solved with innovative products to reconstruct the anatomy and restore its function.

Osteonic proudly meets these high demands with Signex Universal 3.5 System, thanks to its cutting-edge development and manufacturing power coming from its key personnel with in-depth knowledge and experiences of more than two decades in products.

Signex Universal 3.5 System

Sort	Plate	Dia.	Screw	Color
Clavicle	Superior Lateral Clavicle Plate Superior Midshaft Clavicle Plate Clavicle Hook Plate	Φ2.8	2.8 Locking Screw	
			2.8 Conical Screw	
		Φ3.5	3.5 Conical Screw	
			3.5 Cortical Screw	
			3.5 Locking Screw	
Humerus	Proximal Lateral Humerus Plate	Φ3.5	3.5 Conical Screw	
			3.5 Cortical Screw	
			3.5 Locking Screw	
		Φ3.7	3.7 Cannulated Locking Screw	
Elbow	Proximal Olecranon Plate Distal Posterolateral Humeral Plate Distal Medial Humeral Plate Distal Lateral Humeral Plate	Φ2.8	2.8 Locking Screw	
			2.8 Conical Screw	
		Φ3.5	3.5 Conical Screw	
			3.5 Cortical Screw	
			3.5 Locking Screw	
Tibia	Distal Anterolateral Tibial Plate Distal Medial Tibial Plate Distal Tibial Hook Plate Proximal lateral Tibial Plate Proximal Medial Tibial Plate	Φ3.5	3.5 Conical Screw	
			3.5 Cortical Screw	
			3.5 Locking Screw	
		Φ3.7	3.7 Cannulated Locking Screw	
Fibula	Distal Lateral Fibular Plate	Φ2.8	2.8 Locking Screw	
			2.8 Conical Screw	
		Φ3.5	3.5 Conical Screw	
			3.5 Cortical Screw	
			3.5 Locking Screw	
Small Fragment	3.5 Locking compression Plate 3.5 Reconstruction Locking Plate	Φ3.5	3.5 Conical Screw	
			3.5 Cortical Screw	
			3.5 Locking Screw	
		Φ3.7	3.7 Cannulated Locking Screw	
	3.5 One third T Plate	Φ3.5	3.5 Cortical Screw	
			3.5 Locking Screw	

Features & Benefits

Cortical Screw

- Compresses the plate to the bone or creates axial compression
- Rounded head
- Stardrive recess
- Fully threaded shaft
- Self tapping tip

Ø3.5 Screw: Available length: 10-80mm Code:S1F.35XXX

Locking Screw

- Creates a locked, fixed angle screw/ plate construct
- Threaded conical head
- Stardrive recess
- Fully threaded shaft
- Self tapping tip

Ø2.4 Screw: Available length: 8-30mm Code:B1G.24XXX

Ø2.8 Screw: Available length: 10-60mm Code:S1B.28XXX

Ø3.5 Screw: Available length: 10-80mm Code:S1B35xxx

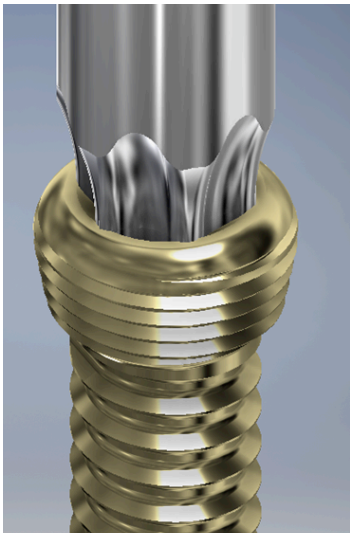
Conical Screw

- Used in the locking holes
- Smooth conical head
- Stardrive recess
- Fully threaded shaft
- Self tapping tip

Ø2.8 Screw: Available length: 10-60mm Code: S1D.28XXX

Ø3.5 Screw: Available length: 10-80mm Code: S1D.35XXX

Features & Benefits



Structure of the same shape as the theoretical dimension according to ASTM F543-07

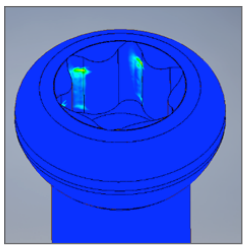
Optimized axial alignment between screw and shaft helps to transmit force evenly as well as minimize screw wobbling.

Optimized engagement between shaft and screw allows to pick up screw without an auxiliary device.

Assembly type

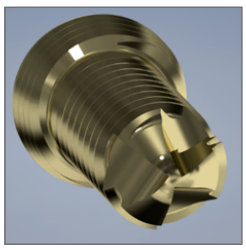
Unlike existing assembly types, there is minimum clearance, good center alignment with shaft.

Contact surface



Power transmission from shaft blades to screw is made by surface contact(Not dot contact).
And this mechanism minimizes damage at hexlobe and helps with easy screw removal.

Self-tapping flutes



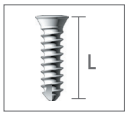
Specially designed flutes help to decrease insertion torque as well as maintain hole center at the bone.

Cannulated Locking Screw

- Creates a locked, fixed angle screw/ plate construct
- Threaded conical head
- Stardrive recess
- Fully threaded shaft
- Self tapping tip, Self drilling

Ø3.7 Screw: Available length: 30-75mm
Code:S1H.37XXX

Screw Specification



2.8 Locking Screw

2.8 Conical Screw

Item Code	Length	Item Code	Length	System
S1B.28100	10	S1D.28100	10	Clavicle / Fibular
S1B.28120	12	S1D.28120	12	
S1B.28140	14	S1D.28140	14	
S1B.28160	16	S1D.28160	16	
S1B.28180	18	S1D.28180	18	
S1B.28200	20	S1D.28200	20	
S1B.28220	22	S1D.28220	22	
S1B.28240	24	S1D.28240	24	
S1B.28260	26	S1D.28260	26	
S1B.28280	28	S1D.28280	28	
S1B.28300	30	S1D.28300	30	Proximal Olecranon / Distal Humerus
S1B.28320	32	S1D.28320	32	
S1B.28340	34	S1D.28340	34	
S1B.28360	36	S1D.28360	36	
S1B.28380	38	S1D.28380	38	
S1B.28400	40	S1D.28400	40	
S1B.28420	42	S1D.28420	42	
S1B.28440	44	S1D.28440	44	
S1B.28460	46	S1D.28460	46	
S1B.28480	48	S1D.28480	48	
S1B.28500	50	S1D.28500	50	
S1B.28550	55	S1D.28550	55	
S1B.28600	60	S1D.28600	60	

3.5 Conical Screw

Item Code	Length
S1D.35100	10
S1D.35120	12
S1D.35140	14
S1D.35160	16
S1D.35180	18
S1D.35200	20
S1D.35220	22
S1D.35240	24
S1D.35260	26
S1D.35280	28
S1D.35300	30
S1D.35320	32
S1D.35340	34
S1D.35360	36
S1D.35380	38
S1D.35400	40
S1D.35420	42
S1D.35440	44
S1D.35460	46
S1D.35480	48
S1D.35500	50
S1D.35550	55
S1D.35600	60
S1D.35650	65
S1D.35700	70
S1D.35750	75
S1D.35800	80

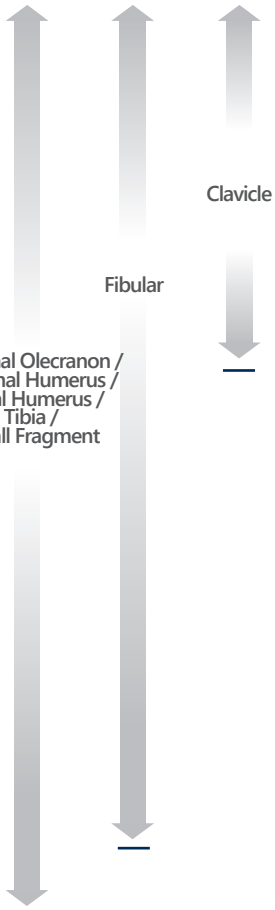
3.5 Locking Screw

Item Code	Length
S1B.35100	10
S1B.35120	12
S1B.35140	14
S1B.35160	16
S1B.35180	18
S1B.35200	20
S1B.35220	22
S1B.35240	24
S1B.35260	26
S1B.35280	28
S1B.35300	30
S1B.35320	32
S1B.35340	34
S1B.35360	36
S1B.35380	38
S1B.35400	40
S1B.35420	42
S1B.35440	44
S1B.35460	46
S1B.35480	48
S1B.35500	50
S1B.35550	55
S1B.35600	60
S1B.35650	65
S1B.35700	70
S1B.35750	75
S1B.35800	80

3.5 Cortical Screw

Item Code	Length
S1F.35100	10
S1F.35120	12
S1F.35140	14
S1F.35160	16
S1F.35180	18
S1F.35200	20
S1F.35220	22
S1F.35240	24
S1F.35260	26
S1F.35280	28
S1F.35300	30
S1F.35320	32
S1F.35340	34
S1F.35360	36
S1F.35380	38
S1F.35400	40
S1F.35420	42
S1F.35440	44
S1F.35460	46
S1F.35480	48
S1F.35500	50
S1F.35550	55
S1F.35600	60
S1F.35650	65
S1F.35700	70
S1F.35750	75
S1F.35800	80

System



3.7 Cannulated Locking Screw

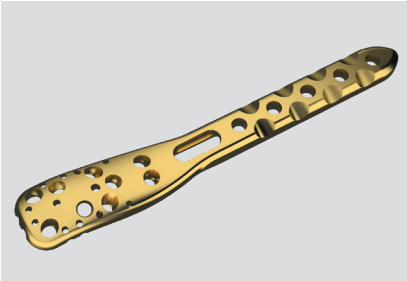
Item Code	Length
S1H.37300	30
S1H.37350	35
S1H.37400	40
S1H.37450	45
S1H.37500	50
S1H.37550	55
S1H.37600	60
S1H.37650	65
S1H.37700	70
S1H.37750	75
S1H.37800	80
S1H.37850	85
S1H.37900	90

System

Features & Benefits

Clavicle Plate

- Notches in plate allow easy plate contouring
- Locking holes / compression holes
- Compatible with current inventory

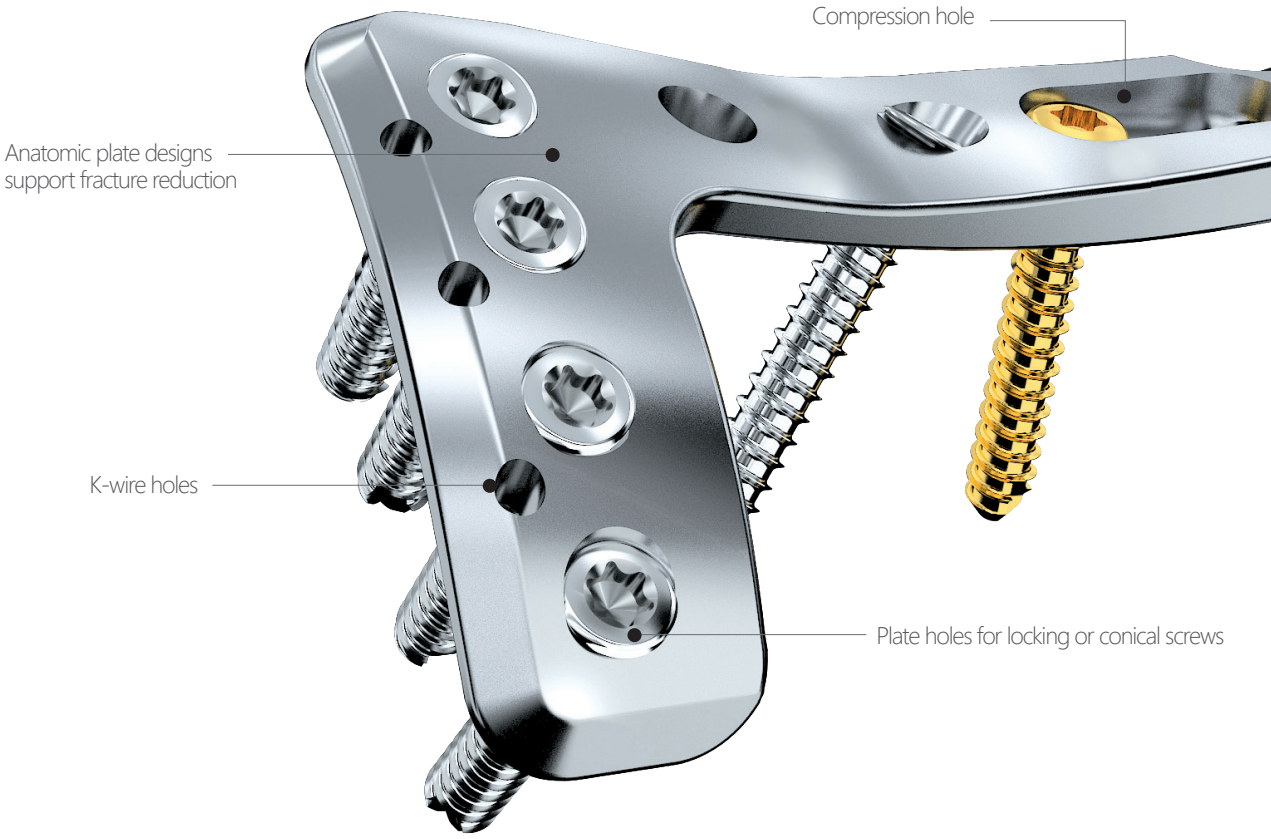


Proximal Humerus Plate

- Decreasing need for deltoid elevation, plate shaft sits slightly anterior.
- Locking holes / compression holes
- Available with 2-14holes of anatomically contoured plates

Proximal Olecranon Plate

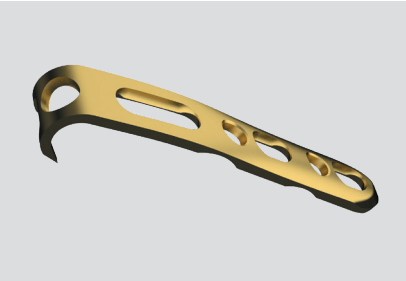
- Locking holes / compression holes
- Pre-contoured plates allow anatomical fit.
- The position and angle of the screws are anatomically designed to allow reduction of fractures.



Features & Benefits

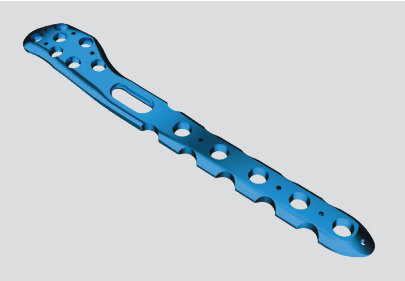
Distal Humerus Plate

- Medial, lateral and posterolateral plate designs allow both 90° and 180° double plate configuration
- Locking holes / compression holes



Distal Tibia Hook Plate

- Rounded edges help to minimize soft tissue irritation.
- Sharp hook help with an easy plate placement
- Locking holes / compression holes
- Under cuts at the plate help blood supply.



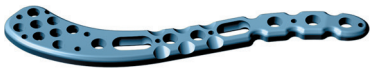
Distal Lateral Fibular Plate

- Rounded edge of plate end help with an easy insertion.
- Locking holes / compression holes.

Small Fragment plate

- Locking compression plate.
- Locking screw provide angular stability .
- Tapered plate end allows easy plate insertion as well as preserving tissue.

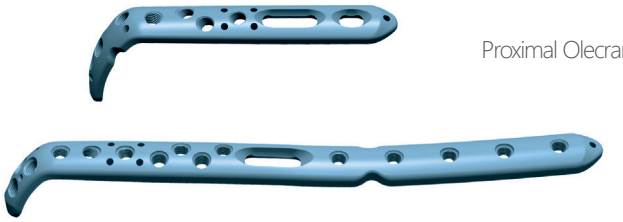
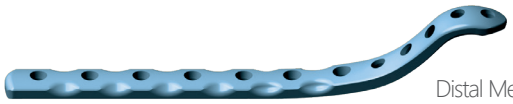
Clavicle Plate

Shape	Description	Item Code			Spec	
		Left	Common	Right	Hole	Length
	Superior Lateral Clavicle Plate		E1A.35090	E1A.35100	4	60
			E1A.35010	E1A.35020	5	68
			E1A.35030	E1A.35040	8	102.8
	Superior Lateral Clavicle Plate, Wide		E1A.35110	E1A.35120	4	67.7
			E1A.35050	E1A.35060	5	75.6
			E1A.35070	E1A.35080	8	110
	Superior Midshaft Clavicle Plate		E2A.35130	E2A.35140	5	64
			E2A.35150	E2A.35160	6	75
			E2A.35170	E2A.35180	7	86
			E2A.35190	E2A.35200	7	90
			E2A.35210	E2A.35220	8	97
			E2A.35230	E2A.35240	9	108
			E2A.35250	E2A.35260	10	118
	Clavicle Hook Plate, Height 12mm		E1G.35010	E1G.35020	2	69.7

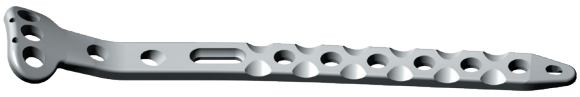
Humerus Plate

Shape	Description	Item Code	Spec	
			Hole	Length
	Proximal Lateral Humerus Plate	H3E.35070	2	77.5
		H3E.35000	3	90.5
		H3E.35010	4	103.5
		H3E.35020	6	129.5
		H3E.35030	8	155.5
		H3E.35040	10	181.5
		H3E.35050	12	207.5
		H3E.35060	14	233.5

Elbow Plate

Shape	Description	Item Code Left	Item Code Common	Item Code Right	Spec Hole	Spec Length
	Proximal Olecranon Plate	J3D.28010		J3D.28020	2	72.7
		J3D.28030		J3D.28040	2	89.5
		J3D.28050		J3D.28060	4	115.5
		J3D.28070		J3D.28080	6	141.5
		J3D.28090		J3D.28100	8	168.5
	Distal Posterolateral Humeral Plate	H1D.35010		H1D.35020	3	72
		H1D.35030		H1D.35040	5	98
		H1D.35050		H1D.35060	7	124
		H1D.35070		H1D.35080	9	150
		H1D.35090		H1D.35100	11	176
		H1D.35110		H1D.35120	15	228
		H1D.35130		H1D.35140	19	280
	Distal Medial Humeral Plate	H1E.35010		H1E.35020	3	74.7
		H1E.35030		H1E.35040	5	100.7
		H1E.35050		H1E.35060	7	126.7
		H1E.35070		H1E.35080	11	178.7
		H1E.35090		H1E.35100	15	230.7
	Distal Lateral Humeral Plate	H1E.35110		H1E.35120	5	88.2
		H1E.35130		H1E.35140	7	113.8
		H1E.35150		H1E.35160	9	140.1
		H1E.35170		H1E.35180	11	166
		H1E.35190		H1E.35200	15	217

Tibia Plate

Shape	Description	Item Code Left	Item Code Common	Item Code Right	Spec Hole	Spec Length
	Distal Anterolateral Tibial Plate		G1C.35090	G1C.35100	4	74
			G1C.35010	G1C.35020	6	98
			G1C.35030	G1C.35040	9	133
			G1C.35050	G1C.35060	12	167
			G1C.35070	G1C.35080	15	202
	Distal Medial Tibial Plate		G1F.35010	G1F.35020	4	109
			G1F.35030	G1F.35040	6	135
			G1F.35050	G1F.35060	8	161
			G1F.35070	G1F.35080	10	187
			G1F.35090	G1F.35100	12	213
			G1F.35110	G1F.35120	14	239
	Distal Tibial Hook Plate		G1G.35030		6	63
	Proximal Lateral Tibial Plate		G3E.35110	G3E.35120	4	79
			G3E.35010	G3E.35020	6	103
			G3E.35030	G3E.35040	8	127
			G3E.35050	G3E.35060	10	151
			G3E.35070	G3E.35080	12	175
			G3E.35090	G3E.35100	14	199
			G3E.35130	G3E.35140	16	223
	Proximal Medial Tibial Plate		G3F.35010	G3F.35020	4	97
			G3F.35030	G3F.35040	6	117
			G3F.35050	G3F.35060	9	147
			G3F.35070	G3F.35080	11	183
			G3F.35090	G3F.35100	14	212
			G3F.35110	G3F.35120	17	243
			G3F.35130	G3F.35140	20	273

Fibular Plate

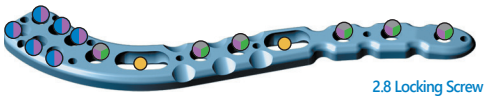
Shape	Description	Item Code Left	Item Code Right	Spec Hole	Spec Length
	Distal Lateral Fibular Plate	F1E.35010	F1E.35020	3	71.4
		F1E.35030	F1E.35040	4	82.4
		F1E.35050	F1E.35060	5	93.4
		F1E.35070	F1E.35080	6	104.4
		F1E.35090	F1E.35100	7	115.4
		F1E.35110	F1E.35120	9	137.4
		F1E.35130	F1E.35140	11	159.4
		F1E.35150	F1E.35160	13	181.4

Small Fragment

Shape	Description	Item Code	Spec Hole	Spec Length
	3.5 Locking Compression Plate	L4A.35011	4	54
		L4A.35021	5	66
		L4A.35031	6	78
		L4A.35041	7	90
		L4A.35051	8	102
		L4A.35061	9	114
		L4A.35071	10	126
		L4A.35081	11	138
		L4A.35091	12	150
		L4A.35101	13	162
		L4A.35111	14	174
		L4A.35121	15	186
		L4A.35131	16	198
		L4A.35141	17	210
		L4A.35151	18	222
		L4A.35161	19	234
		L4A.35171	20	246
	3.5 Reconstruction Locking Plate	L3A.35011	5	57
		L3A.35021	6	69
		L3A.35031	7	81
		L3A.35041	8	93
		L3A.35051	9	105
		L3A.35061	10	117
		L3A.35071	12	141
		L3A.35081	14	165
		L3A.35091	16	189
		L3A.35101	18	213
		L3A.35111	20	237
	3.5 One-third Tubular Plate	L2A.35110	4	49
		L2A.35120	5	61
		L2A.35130	6	73
		L2A.35140	7	85
		L2A.35150	8	97
		L2A.35160	10	121
		L2A.35170	12	145

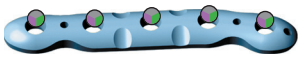
PLATE & SCREW

Superior Lateral Clavicle Plate



2.8 Locking Screw
2.8 Conical Screw
3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Superior Midshaft Clavicle Plate



3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

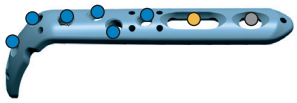
Clavicle Hook Plate

3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

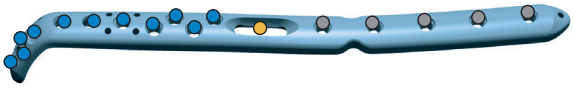
Proximal Lateral Humerus Plate

3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Proximal Olecranon Plate

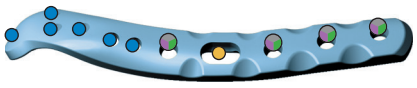


2.8 Locking Screw
3.5 Cortical Screw
3.5 Locking Screw



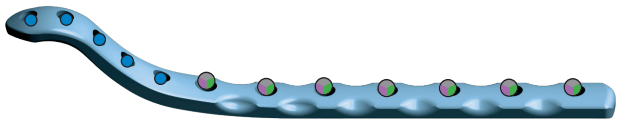
2.8 Locking Screw
3.5 Cortical Screw
3.5 Locking Screw

Distal Posterolateral Humeral Plate



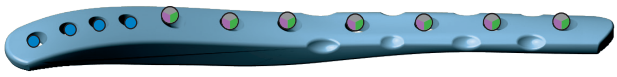
2.8 Locking Screw
3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Distal Medial Humeral Plate



2.8 Locking Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Distal Lateral Humeral Plate



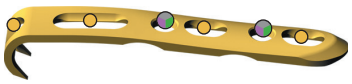
2.8 Locking Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

PLATE & SCREW

Distal Anterolateral Tibial Plate

3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Distal Tibial Hook Plate

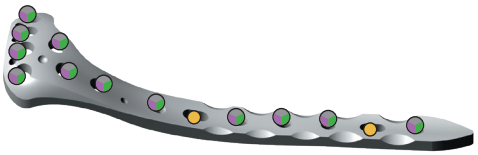


3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Distal Medial Tibial Plate

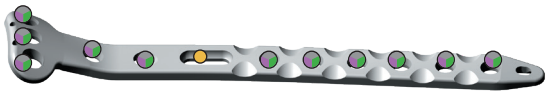
3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Proximal Lateral Tibial Plate



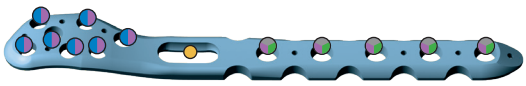
3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Proximal Medial Tibial Plate



3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

Distal Lateral Fibular Plate



2.8 Locking Screw
2.8 Conical Screw
3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

3.5 Locking Compression Plate

3.5 Cortical Screw
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

3.5 Reconstruction Locking Plate

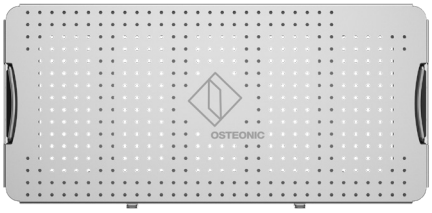
3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

3.5 One third T Plate

3.5 Locking Screw
3.5 Conical Screw
3.7 Cannulated Locking Screw

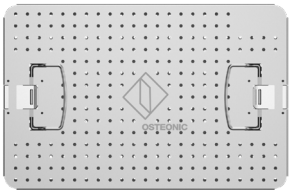
INSTRUMENT

Container

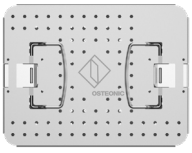


Z1Y.50010

Plate tray

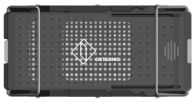


Shoulder Plate Tray	Z1Y.01120
Elbow Plate Tray	Z1Y.01220
Tibia Plate Tray(Medial)	Z1Y.01320



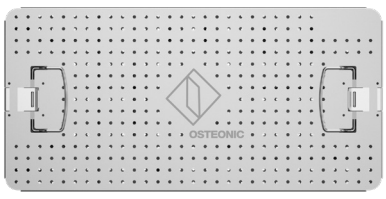
Fibular Plate Tray	Z1Y.01110
Small Fragment Plate Tray	Z1Y.01210
Extra Tray	Z1Y.01310
Tibia Plate Tray(Lateral)	Z1Y.01410

Screw tray



Z1Y.02010

Instrument tray



Z1Y.03010

Drill

Y1A.22010
Ø2.8 Screw Drill Bit (Ø2.2/120mm)

Y1A.22020
Ø2.8 Screw Drill Bit (Ø2.2/140mm)

Y1A.28010
Ø3.5 Screw Drill Bit (Ø2.8/145mm)

Y1A.28020
Ø3.5 Screw Drill Bit (Ø2.8/190mm)

Y1A.30010
Ø3.7 Cannulated Screw Drill Bit(I.D Ø1.7/O.D Ø3.0/175mm)

Y1A.35020
Ø3.5 Cannulated Lag Screw Drill Bit(Ø2.8/165mm)

Y1A.37010
Ø3.7 Cannulated Lag Screw Drill Bit(I.D Ø1.7/O.D Ø3.7/130mm)

Y1A.35010
Ø2.8 / Ø3.5 Counter Sink

Stoper drill

Y1Z.22010
Ø2.2 Stoper Drill

Y1Z.28010
Ø2.8 Stoper Drill

INSTRUMENT

Drill sleeve

Y1F.28010
Ø2.8 Screw Drill Sleeve (Scale up to 30mm)

Y1F.28030
Ø2.8 Screw Drill Sleeve (No Scale)

Y1F.35010
Ø3.5/3.7 Screw Drill Sleeve (Scale up to 60mm)

Y1F.35030
Ø3.5/3.7 Screw Drill Sleeve (No Scale)

Guide wire sleeve

Y1F.35020
Ø3.7 Screw Guide Wire Sleeve

Drill guide

Y1F.28040
Ø2.8 Lag Screw Drill Guide

Y1F.35040
Ø3.5 Lag Screw Drill Guide

Driver

Y1B.28010
Ø2.4/2.8 Screw Driver (T8/100mm)

Y1B.35010
Ø3.5 Screw Driverr (T15/115mm)

Y1B.35020
Ø3.7 Screw Driver Cannulatedr (T15/115mm)

Bender

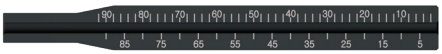
Y1J.35010
Plate Bender (Left)

Y1J.35020
Plate Bender (Right)

Depth gauge

Y1G.35050
Ø2.8/Ø3.5 Screw Depth Gauge (Scale up to 60mm)

Y1G.35060
Ø3.5 Screw Depth Gauge (Scale up to 90mm)



Y1G.35040
Ø1.6 Guide Wire Depth Gauge

Guide wire

Y1Z.16010
Ø1.6 Guide Wire(200mm)

Handle

Y1C.28010
I-Handle (AO Type)

Y1C.35020
3.5/5.0 System Tap Handle (AO Type)

Torque limiter

Y1Z.35030
Ø2.8 Screw Torque Limiter (0.8N-m)

Y1D.35010
Ø3.5 Screw Torque Limiter (1.5N-m)

Drill case

Y1L.03010

OSTEONIC
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