



Right growth plates

Index

Introduction	
Indications	27
Features	27
Surgical Technique	28
Set Detail	31
Implants	31
Instruments	31
Screws	32

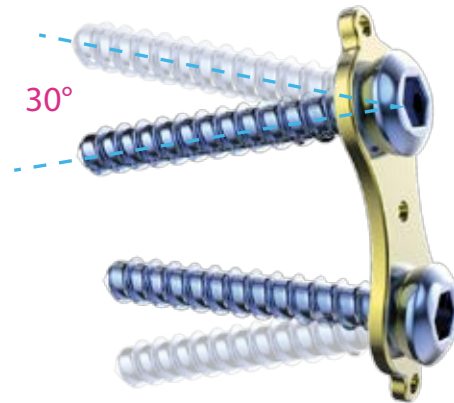
Indications

The plate is applied for gradual correction of the angled deformities to upper and lower extremities (at the tip of long bones) during the adolescence and infant periods (from 18 months to 17 years). Ankle valgus, elbow varus, knee valgus and varus, oblique plan flexion deformity and recurvatum cases can be evaluated in this scope.

Features

Anatomical structured titanium alloyed plate, having four different lengths (12 mm, 16 mm, H growth 15 mm and H growth compression).

Safe deformity correction is provided with the cannulated, full threaded, spongio screws which has abilities to resist the existing forces. The diameters of the screws are $\varnothing 4$ mm, the lengths are from 14 mm to 40 mm and they are made of titanium alloy.

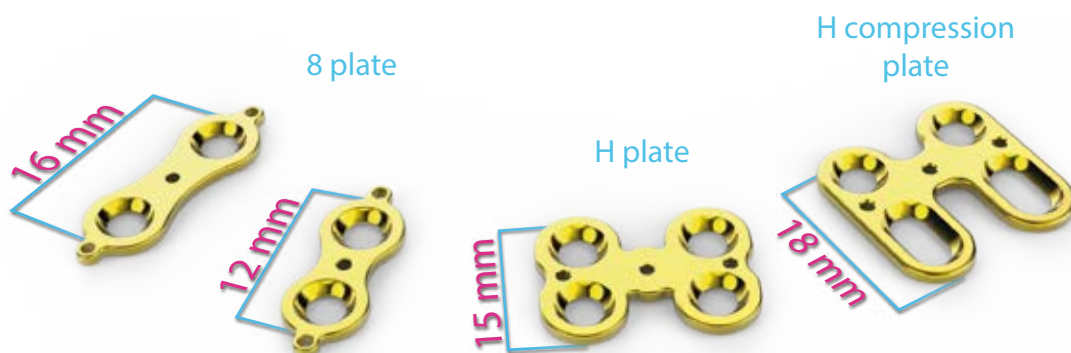


Simplifies the fixation on the physis (growth plate) by the K-wire holes on the centre and the both end of the plate.

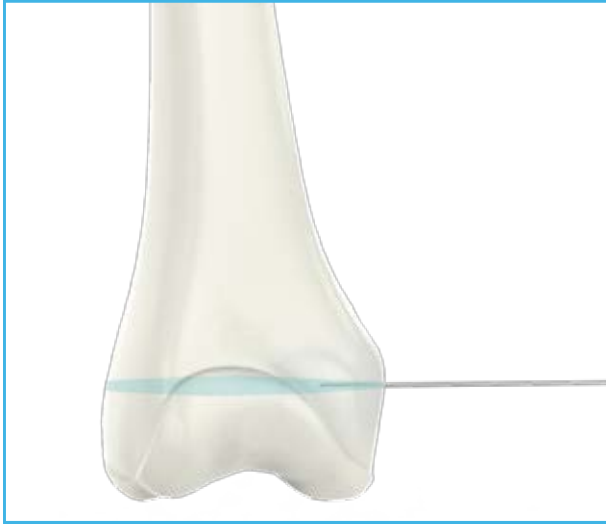
Provides simple, short and not complicated application opportunity by ambulatory care method.

Subsequent to the operation, moving easily, normal recovering process and not restricting daily activities.

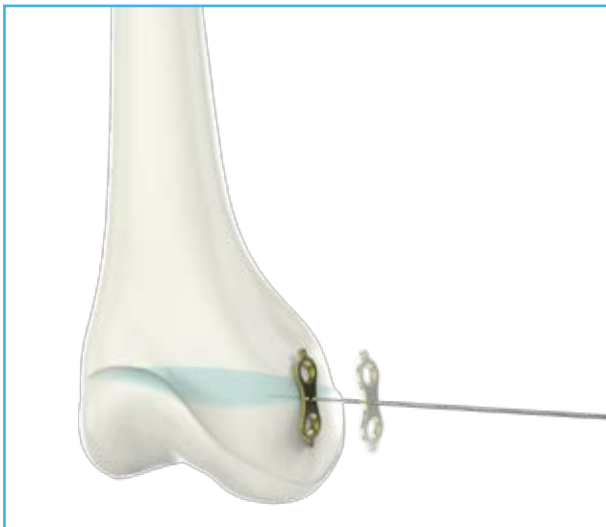
The existing non-locking screw plate structure, provides flexibility (up to 24 degrees per screw) without restraining the bone evolution.



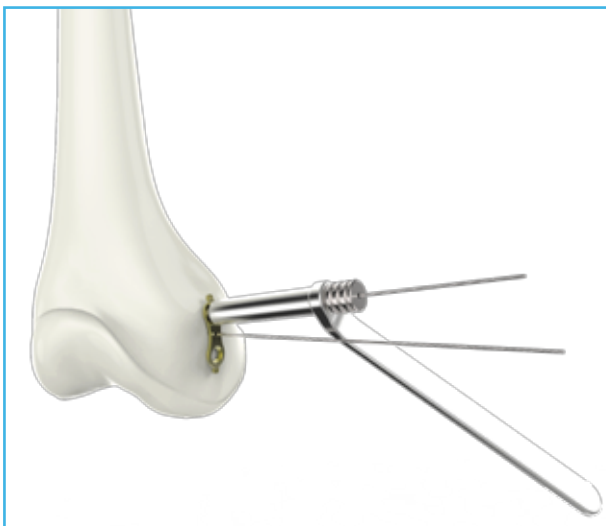
Surgery Technique



1 Insert the guide kirschner wire to physis and verify position with fluoroscopic imaging. The kirschner wire should be on physis line.

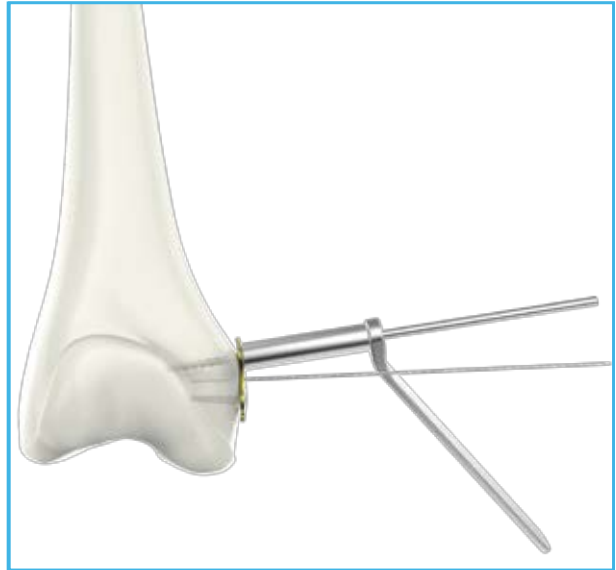


2 Apply contoured Eight Growth Plate over the kirschner wire. Arrange the eight growth plate drill guide which contains eight growth kirschner sleeve.



3 Initially, insert the epiphyseal guide kirschner wire with using the kirschner sleeve which attached to the drill guide, then insert the metaphyseal guide wire in same process. It's not necessary for these two wires to be parallel, but it's more important to be away from the physis. Remove the center guide wire and check position with fluoroscopic imaging.

4 Drill the screw hole using the cannulated drill in drill sleeve which attached to the drill guide. Firstly, drill the epiphyseal hole, then the metaphyseal hole.

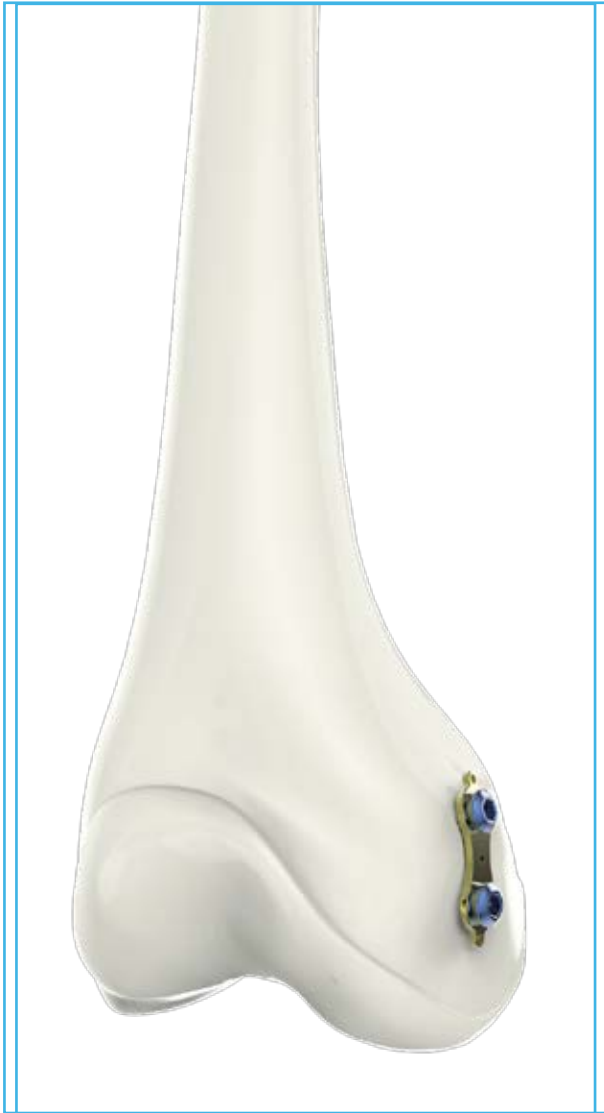


5 After drilling process, remove the cannulated drill and drill sleeve. The screw length is determined by the length measuring device.



6 Insert the epiphyseal cannulated or solid screw through the guide wire. Next, insert the metaphyseal screw. Screw do not need to be parallel but should never enter the physis.





7 Remove the instruments from eight growth plate and turn each screw 2-3 more times.

8 Ensure via fluoroscopy, the screws are completely seated and there is no gap between the screw-plate-bone interface. If failure to eliminate spaces between these interfaces, it may lead to 3 point bending and undue stress on the screw.

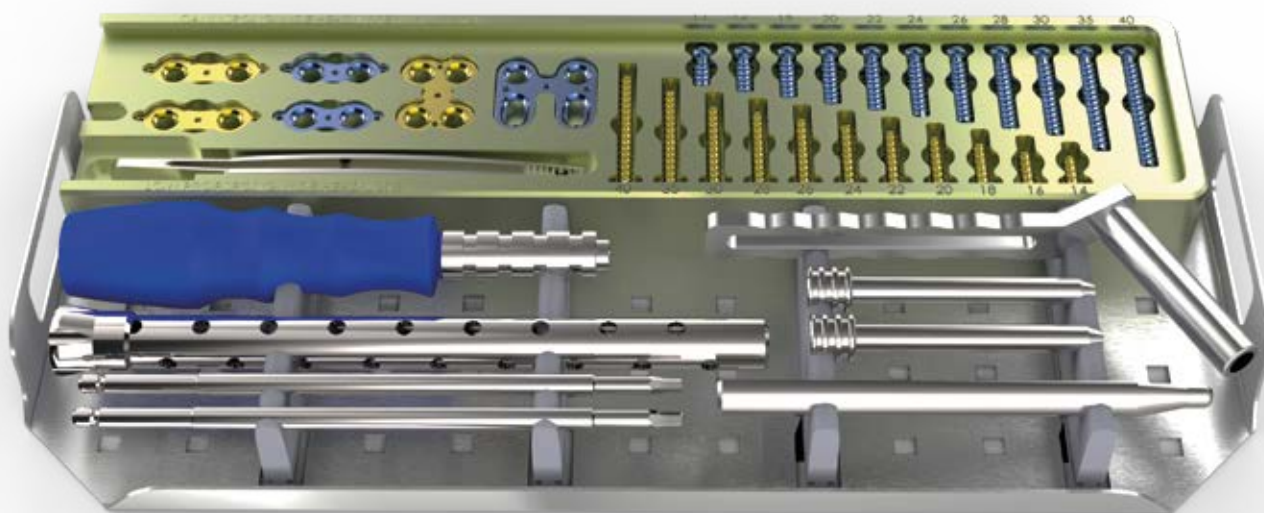
Set Details

Implants

catalog no	ubb no	description	qty
37220000012	8698673441460	EIGHT GROWTH PLATE TI 12 MM	4
37220000016	8698673441477	EIGHT GROWTH PLATE TI 16 MM	4
37220000001	8698673469662	H GROWTH COMPRESSION PLATE TI	2
37221000015	8698673469679	H GROWTH PLATE TI 15 MM	2

Instruments

catalog no	ubb no	description	qty
0020001	8680858413089	EIGHT GROWTH PLATE IMPLANT TRAY	1
03020000115	8698673493353	PENSET 115 MM	1
23410060110	8699931005776	KIRSCHNER WIRE TROCAR POINT 1X60 MM	4
23410100110	8698673452886	KIRSCHNER WIRE TROCAR POINT 1X100 MM	3
04550129140	8699931032352	K-WIRE TUBE Ø12XØ9X140 MM	1
02010101001	8698673441187	SOFT SCREW DRIVER QUICK SMALL	1
2050100425	8699931005417	SCREW DRIVER CANULLU QUICK Ø 2.5 MM	1
02020101025	8698673493315	SCREW DRIVER QUICK Ø 2.5 MM	1
22310130027	8698673450424	BONE DRILL 2.7X130 MM	1
02066321212	8698673496767	CANNULATED DRILL 3.2X1.2X50X150 MM	1
03722000001	8699931022056	EIGHT GROWTH PLATE KIRSCHNER SLEEVE	1
03722000002	8699931021967	EIGHT GROWTH PLATE DRILL SLEEVE	1
03722000003	8699931008975	EIGHT GROWTH PLATE DRILL GUIDE	1
03722000004		LENGTH MEASURING DEVICE - EIGHT GROWTH PLATE	1
04550129160	8699931032475	K-WIRE TUBE Ø12XØ9X160 MM	1
23410150112	8698673458840	KIRSCHNER WIRE TROCAR POINT 1.2X150 MM	4
00280136027	8699931029307	DESIGN TRAY 280X136X27 MM	1
00280135060	8698673498419	CONTAINER 280X135X60 MM	1



Screws

catalog no	ubb no	description	qty
20320104014	8680858423767	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X14 MM	2
20320104016	8680858423774	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X16 MM	2
20320104018	8680858423781	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X18 MM	2
20320104020	8680858423798	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X20 MM	2
20320104022	8680858423804	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X22 MM	2
20320104024	8680858423811	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X24 MM	2
20320104026	8680858423828	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X26 MM	2
20320104028	8680858423835	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X28 MM	2
20320104030	8680858423842	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X30 MM	2
20320104035	8680858423859	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X35 MM	2
20320104040	8680858423866	LOW PROF.SPONG.WIDE HEAD SCREW TI 4X40 MM	2
20324114014	8680858427482	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X14 MM	2
20324114016	8680858427499	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X16 MM	2
20324114018	8680858427505	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X18 MM	2
20324114020	8680858427512	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X20 MM	2
20324114022	8680858427529	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X22 MM	2
20324114024	8680858427536	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X24 MM	2
20324114026	8680858427543	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X26 MM	2
20324114028	8680858427550	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X28 MM	2
20324114030	8680858427567	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X30 MM	2
20324114035	8680858427574	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X35 MM	2
20324114040	8680858427581	CANN.SPONG.WIDE HEAD SCREW (FULL THRD) 4X40 MM	2