

Freedom of Choice

These next-generation locking plates enhance flexibility during surgery, with polyaxial screw placement (30°) cone and improved angular stabilty. Equipped with a locking screw technology, the MIS enabled NCB Polyaxial Locking Plate System offers options to deal with complex fractures of the Proximal Humerus, the Distal Femur and the Proximal Tibia. All NCB Plates are made of Protasul®-64 Titanium Alloy.









NCB Proximal Humerus System

NCB Distal Femur System

NCB Proximal Tibia System



Polyaxiality

The NCB Plate Technology allows polyaxial screw placement (30° cone) with screw locking achieved through the use of locking caps that are threaded into the plate holes. The locking construct improves stability especially in poor bone quality.







Angular stability with the NCB Locking Caps



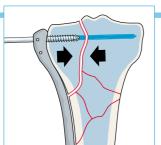
Bone Quality Feedback

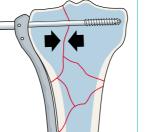
In all NCB Plates, the angular stability is achieved using the NCB Locking Caps over the NCB Screws. Unlike conventional locking plates, NCB Screws are not threaded into the NCB Plates. This different locking mechanism allows surgeons to get tactile feedback of bone quality when tightening NCB Screws.



Fracture Reduction

Before locking, NCB Screws can act as lag screws. Therefore, NCB Screws can be used for fracture reduction and apply interfragmental compression, a feature not offered with conventional locking systems.



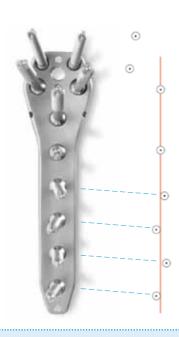






Non-Contact Bridging

In the locked mode the NCB Plate acts as an internal fixator without contact between the plate and the bone surface, which may reduce the risk of impairment to the periosteal blood supply. This Non-Contact Bridging concept can also be controlled through the use of 1, 2 or 3mm spacers, which are threaded into the plate holes prior to plate insertion.



Enhanced Diaphyseal Fixation

Divergent screw alignment for increased pull-out resistance in the diaphyseal region, even with the MIS Targeting Device.



Screw Options

The NCB Screws (solid and cannulated) are available with different types of screw thread, for cortical or cancellous bone. The screws designed for cortical bone have an increased core diameter and are machined-tooled with a double lead thread for fast insertion. Cannulated screws can be placed with high precision – no predrilling is required as they are self-drilling and self-tapping. 4.5mm cancellous and 4.0mm cortical screws are available.

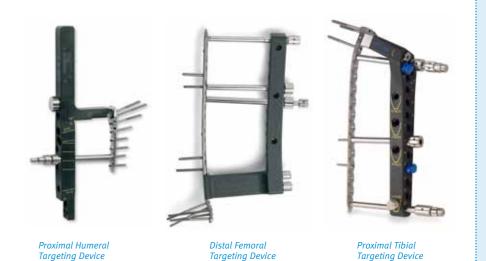
NCB® Cancellous	NCB® Cortical	NCB® Cancellous
Screw	Screw	Cannulated Screw
∅ 4.5mm		Ø 4.5mm
911111111111111111111111111111111111111	9	
self-tapping	self-tapping	self-drill
for <i>NCB</i> -PH	for <i>NCB</i> -PH and <i>NCB</i> -PT	for <i>NCB</i> -PH and <i>NCB</i> -PT

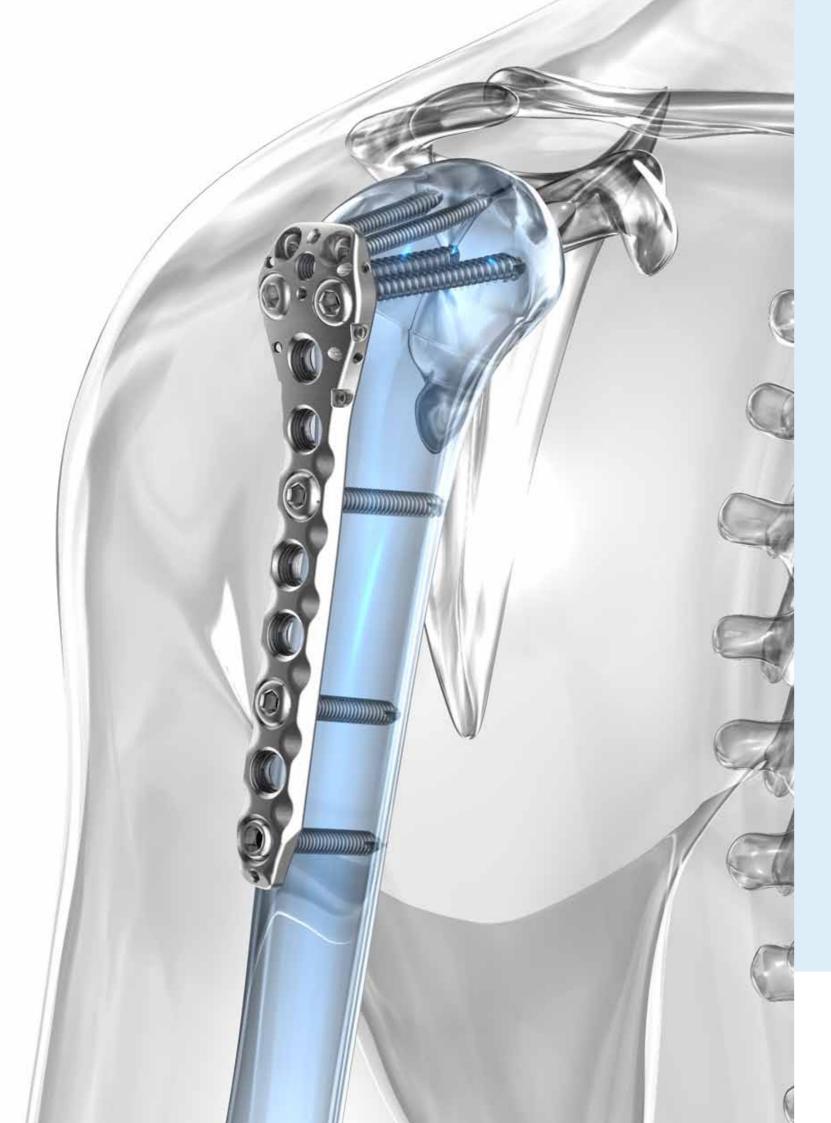
B® Cortical	NCB® Cancellous	NCB® Cortical
nnulated Screw	Screw	Screw
4.0mm	∅ 5.0mm	∅ 5.0mm
		<u> </u>
lf-drill	self-tapping	self-tapping
• <i>NCB</i> -PH	for <i>NCB</i> -DF and <i>NCB</i> -PT	for <i>NCB</i> -DF



MIS Technique

The percutaneous plate and screw insertion technique continues Zimmer's success in devising Minimally Invasive Solutions[™]. Requiring a smaller than normal incision, there is less damage to surrounding soft tissue and a reduced risk of complications with wound healing. 1,2,3





Good to know



The products from the Zimmer® Cable-Ready® Cable Grip System are compatible with the NCB Polyaxial Locking Plate System.

Cable Fixation Options



NCB Proximal Humerus Plate

Oblique holes \varnothing 2mm can be used for sutures after plate osteosynthesis.

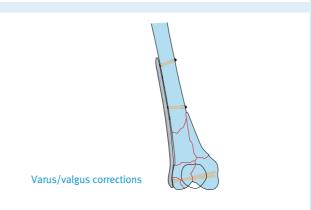


3-proximal holes plate

NCB Proximal Tibia Plate

Two versions of the *NCB* PT Plate are available: 2-proximal and 3-proximal holes.

Plate head has 6° posterior tilt to match the lateral tibial contour.



NCB Distal Femur Plate

The polyaxiality of the system allows some varus/valgus correction during surgery.

For this purpose insert four screws as shown in the figure without tightening the screws. Place the two distal screws anterior and posterior.

Now the fracture can be reduced by rotation around the bone axis of the proximal fragment and varus/valgus correction of the distal fragment.

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Please refer to the package inserts for important product information, including, but not limited to, contraindications, warnings, precautions, and adverse effects.

Biggi, F. et al.: Tibial plateau fractures: Internal fixation with locking plates and the MIPO technique, Injury - International Jou 41, p. 1178 – 1182, 2010
Rüedi, T.P., Buckley, R.E., Moran, C.G.: AO Principles of Fracture Management - Second expanded edition, Volume 1-Principle 3 Resch H., Hubner C., Schwaiger R.: Minimally invasive reduction and osteosynthesis of articular fractures of the humeral hea the Care of the Injured, 2001;(32 Suppl 1):SA25-32

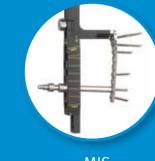


Innovative

Plate Design







+ Product Features Overview

Plating Solutions

Locking Plate System

NCB® Polyaxial

Polyaxiality Screw Choice







