

TWIN

Product Name: TWIN Screw Ø 3.0 / 3.9mm
Manufacturer: Dieter Marquardt Medizintechnik GmbH
Medical Class: IIb

Thread Diameter: 3.00mm
Core Diameter: 2.05mm
Head diameter: 3.90mm
Thread pitch: 1.25mm
Cannulation: 1.15mm
Length: 8 – 30mm
Hexagon socket: 2.4 mm
Material: Titanium Alloy (Ti6Al4V)
Anodization: Type III (gold)



General description:

Reconstruction plates have lateral notches between the holes, whereby they can be bent and folded in two levels. The bending angle should amount to at no point more than 15°. It should be noted that the strength of the board is reduced by the bending. The locking plates can be fixed with locking and non-locking screws.

Indication:

Stable internal fixation of scaphoid fracture

Article No.	Screw Length	Thread Length
10.03339.010	10mm	4.0mm
10.03339.012	12mm	4.0mm
10.03339.014	14mm	4.5mm
10.03339.016	16mm	5.1mm
10.03339.018	18mm	5.8mm
10.03339.020	20mm	6.4mm
10.03339.022	22mm	7.0mm
10.03339.024	24mm	7.7mm
10.03339.026	26mm	8.3mm
10.03339.028	28mm	9.0mm
10.03339.030	30mm	9.6mm

WINSTA-R

Product Name: WINSTA-R distal radius system
Manufacturer: Dieter Marquardt Medizintechnik GmbH
Medical Class: IIb



General description:

The problem posed by metaphyseal and intra-articular fractures lies in the fact that even though implants can be well anchored in the distal section of the shaft, fixation stability is however limited in the spongy bones of the fragment close to the joint. Multifragmentary, intra-articular fractures as well as senile osteoporosis exacerbate this problem. In relation to the long proximal shaft section, the lever arm of the short distal joint fragment mechanically unfavourable during functional treatment places high demands on the stability of the implant itself as well as on its fixation in the distal fragment. In contrast to conventional implants, angle stable ones enable early functional treatment (especially desirable in the case of fractures close to joints), which is of great importance for the rapid restoration of a joint's functional integrity. Adaptation of the plate form and of the direction of the distal angle stable plate screws or pins to the physiological articular surface axes and curvatures facilitates correct reposition as well as the ideal repositioning of the implant components, thus increasing postoperative fracture stability.

System characteristics

- High stability in the case of small implant dimensions.
- Anatomically correct form with volar bending to reconstruct the „palmar tilt“, and secure support of the volar contour of the distal radius.
- The four distal plate holes are adjusted to the radioulnar curvature of the articular surface, and enable secure fixation of the distal radius even in the case of intra-articular fractures via subchondral positioning of the stabilization screws and pins.
- The given direction of the locking screws or pins at the distal plate end corresponds to the physiological dorsovolar inclination of the articular surface, and enables the screws or pins to be placed in the ulnar fragment as well as in the styloid process of the radius.
- For fixation in the distal fragment, either self-tapping locking cortical screws \varnothing 3.0 mm or locking buttress pins \varnothing 2.0 mm are available.
- For fixation of the plate, self-tapping cortical screws \varnothing 2.7 mm are available. In the case of osteoporotic bones, self-tapping locking cortical screws \varnothing 3.0 mm can be used as an alternative.
- Precision drilling and length measurement for angle stable screws / pins via screw-in drill sleeve.
- For all screws and pins, only a \varnothing 2.0 mm drill bit is required.
- A cross-oval plate-hole enables reposition of intra-articular fragments as well as possible defect filling with spongiosa or bone substitute after plate fixation.
- The clearly laid-out instrumentarium facilitates handling.
- Various different plate lengths also suit the requirements of multiple metaphyseal fractures.
- Special surface treatment of plates and angle stable screws and pins by anodization type II
- Properties of processed products:
 - reduced tendency of cold welding of Titanium implants by screw in the locking pins and screws
 - hardened Titanium surface
 - increased fatigue resistance of implants
 - significant reduction of AL and V release





Product Name: WINSTA-R Locking Distal Radius Plate
Manufacturer: Dieter Marquardt Medizintechnik GmbH
Medical Class: IIb

Holes in head: 3 / 4 / 5 / 6
Holes in shaft: 2 / 4 / 8

Material: C.P. Titanium
Anodization: Type II

Indication:

- Extra-articular fractures of AO-Type 23-A2 and A3
- Partial intra-articular fractures of AO-Type 23-B1 and B3
- Total intra-articular fractures of AO-Type 23-C1 to C3

Article No.	Holes (Head / Shaft)	Version	
10.11915.102(S)	3/2	Right	
10.11915.104(S)	3/4	Right	
10.11915.202(S)	3/2	Left	
10.11915.204(S)	3/4	Left	
10.11915.302(S)	4/2	Right	
10.11915.304(S)	4/4	Right	
10.11915.308(S)	4/8	Right	
10.11915.316(S)	3/16	Right	
10.11915.402(S)	4/2	Left	
10.11915.404(S)	4/4	Left	
10.11915.408(S)	4/8	Left	
10.11915.416(S)	4/16	Left	
10.11915.502(S)	5/2	Left	
10.11915.504(S)	5/4	Left	
10.11915.508(S)	5/8	Left	
10.11915.602(S)	5/2	Right	
10.11915.604(S)	5/4	Right	
10.11915.608(S)	5/8	Right	
10.11915.702(S)	6/2	Left	
10.11915.704(S)	6/4	Left	
10.11915.708(S)	6/8	Left	
10.11915.802(S)	6/2	Right	
10.11915.804(S)	6/4	Right	
10.11915.808(S)	6/8	Right	

Product Name: *WINSTA-R Locking Distal Radius Plate, dorsal*

Manufacturer: *Dieter Marquardt Medizintechnik GmbH*

Medical Class: *IIb*

Holes in head: *5 holes*

Holes in shaft: *2 / 4*

Material: *Titanium Alloy (Ti6Al4V)*

Anodization: *Type II*



Indication:

- *Extra-articular fractures of AO-Type 23-A2 and A3*
- *Partial intra-articular fractures of AO-Type 23-B1 and B3*
- *Total intra-articular fractures of AO-Type 23-C1 to C3*

Article No.	Holes (Head / Shaft)	Version
10.11916.302(S)	5/2	Right
10.11916.304(S)	5/4	Right
10.11916.402(S)	5/2	Left
10.11916.404(S)	5/4	Left

Product Name: *Locking Cortical Screw Ø 3.0mm*

Manufacturer: *Dieter Marquardt Medizintechnik GmbH*

Medical Class: *IIb*

Thread Diameter: *3.0mm*

Core Diameter: *1.9mm*

Head diameter: *4.7mm*

Thread pitch: *1.25mm*

Length: *8 – 60mm*

Hexagon socket: *2.5mm*



Material: *Titanium Alloy (Ti6Al4V)*

Anodization: *Type II*

Indication:

Locking plate fixation for:

- *fractures of the distal radius*
- *fractures and arthrodesis of the first, middle and hind foot*

Article No.		Length
Non-steril	sterile	
10.03530.008	10.03530.008S	8mm
10.03530.010	10.03530.010S	10mm
10.03530.012	10.03530.012S	12mm
10.03530.014	10.03530.014S	14mm
10.03530.016	10.03530.016S	16mm
10.03530.018	10.03530.018S	18mm
10.03530.020	10.03530.020S	20mm
10.03530.022	10.03530.022S	22mm
10.03530.024	10.03530.024S	24mm
10.03530.026	10.03530.026S	26mm
10.03530.028	10.03530.028S	28mm
10.03530.030	10.03530.030S	30mm
10.03530.032	10.03530.032S	32mm
10.03530.034	10.03530.034S	34mm
10.03530.036	10.03530.036S	36mm
10.03530.038	10.03530.038S	38mm
10.03530.040	10.03530.040S	40mm
10.03530.045	10.03530.045S	45mm
10.03530.050	10.03530.050S	50mm
10.03530.055	10.03530.055S	55mm
10.03530.060	10.03530.060S	60mm

Product Name: *ML Butress Pin 2.0mm*
Manufacturer: Dieter Marquardt Medizintechnik GmbH
Medical Calss: IIb

Pin Diameter: 2.0mm
Head diameter: 4.7mm
Length: 16 – 30mm
Hexagon socket: 2.5mm

Material: Titanium Alloy (Ti6Al4V)
Anodization: Type III (green)



Indication:

Multidirectional locking plate fixation for:

- fractures of the distal radius

Article No.	Length
10.03560.016	16mm
10.03560.018	18mm
10.03560.020	20mm
10.03560.022	22mm
10.03560.024	24mm
10.03560.026	26mm
10.03560.028	28mm
10.03560.030	30mm

Product Name: *Locking Butress Pin 2.0mm*
Manufacturer: Dieter Marquardt Medizintechnik GmbH
Medical Calss: IIb

Pin Diameter: 2.0mm
Head diameter: 4.7mm
Length: 16 – 30mm
Hexagon socket: 2.5mm

Material: Titanium Alloy (Ti6Al4V)
Anodization: Type II



Indication:

Locking plate fixation for:

- fractures of the distal radius

Article No.	Length
10.03520.016(S)	16mm
10.03520.018(S)	18mm
10.03520.020(S)	20mm
10.03520.022(S)	22mm
10.03520.024(S)	24mm
10.03520.026(S)	26mm
10.03520.028(S)	28mm
10.03520.030(S)	30mm

WINSTA-R

Product Name: WINSTA-R Distal Ulna System
Manufacturer: Dieter Marquardt Medizintechnik GmbH
Medical Class: IIb



General description:

The problem posed by metaphyseal and intra-articular fractures lies in the fact that even though implants can be well anchored in the distal section of the shaft, fixation stability is however limited in the spongy bones of the fragment close to the joint. Multifragmentary, intra-articular fractures as well as senile osteoporosis exacerbate this problem.

In relation to the long proximal shaft section, the lever arm of the short distal joint fragment mechanically unfavourable during functional treatment places high demands on the stability of the implant itself as well as on its fixation in the distal fragment. In contrast to conventional implants, angle stable ones enable early functional treatment (especially desirable in the case of fractures close to joints), which is of great importance for the rapid restoration of a joint's functional integrity. Adaptation of the plate form and of the direction of the distal angle stable plate screws or pins to the physiological articular surface axes and curvatures facilitates correct reposition as well as the ideal repositioning of the implant components, thus increasing postoperative fracture stability.

System characteristics

- High stability in the case of small implant dimensions.
- Anatomically adapted design which corresponds to the shape of the distal ulna
- For fixation of the distal part either self-tapping locking cortical screws \varnothing 3.0 mm or locking buttress pins \varnothing 2.0 mm are available.
- For fixation of the shaft self-tapping cortical screws \varnothing 2.7 mm or self-tapping locking cortical screws \varnothing 3.0 mm can be used.
- Precision drilling and length measurement for angle stable screws / pins via screw-in drill sleeve.
- For all screws and pins, only an \varnothing 2.0 mm drill bit is required.
- The clearly laid-out instrumentation facilitates handling.
- Special surface treatment of plates and angle stable screws and pins by anodisation type II
- Properties of processed products:
 - Reduced tendency of cold welding of Titanium implants by screw in the locking pins and screws
 - hardened Titanium surface
 - increased fatigue resistance of implants

Indication:

Fixation of capital and subcapital fractures of the distal ulna

Product Name: *WINSTA-R Distal Ulna Hook Plate*
Manufacturer: *Dieter Marquardt Medizintechnik GmbH*
Medical Class: *IIb*
Holes in head: *6 holes*
Length: *47mm*
Material: *Titanium Alloy (Ti6Al4V)*
Anodization: *Type II*



Article No.	Holes	Version
10.11918.006(S)	6	Right
10.11918.106(S)	6	Left

Product Name: *WINSTA-R Distal Ulna Plate*
Manufacturer: *Dieter Marquardt Medizintechnik GmbH*
Medical Class: *IIb*
Holes in head: *7 holes*
Length: *65mm*
Material: *Titanium Alloy (Ti6Al4V)*
Anodization: *Type II*



Article No.	Holes	Version
10.11918.007(S)	7	Right
10.11918.107(S)	7	Left