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## / Iron Lady Periprosthetics with Rail option

Fixation devices implanted in periprosthetic bone often have a high incidence of mobilisation caused by several factors; among the most frequent is the technical difficulty in stabilising the fracture due to the presence of the rod, which prevents easy positioning of the screws.

Secondly, the quality of the bone, which is often porotic, can facilitate "pull-out" of the screws, resulting in early breakdown of the fracture.

Intrauma has developed a range of plates especially for the treatment of periprosthetic fractures of the hip, knee and humerus.

The use of the O'nil periprosthetic plate guarantees early mobilisation of the patient and union of the fracture in a time frame comparable to a fracture without a prosthesis.

Thanks to the patented conical locking system between the screw head and the holes in the plate, the O'nil fixator guarantees primary stability by distributing the forces evenly over the entire plate.

Anatomical plates with an arched section reduce positioning difficulties while the multi-planar mounting ensures excellent hold, even in the most complex fractures.

**The Iron Lady plate for periprosthetic hip fractures is a self-supporting structure, which means that cerclage using the O'nil slotted pin no longer has the function of stabilising the plate on the bone but only that of fixating any fragments.**

Absence of pressure on the bone helps to preserve proper vascularisation of the periosteum allowing early rehabilitation and reducing healing time.



## / Iron Lady Periprosthetics with Rail option

### Features

- Anatomical low-profile titanium plate.
- Primary stability is guaranteed by multi-planar screws.
- Cerclage possible through eyelets on the plate and with slotted pins.
- Available in 3 lengths, left and right versions.
- Possibility of using the Rail system.



Proximal IRON LADY



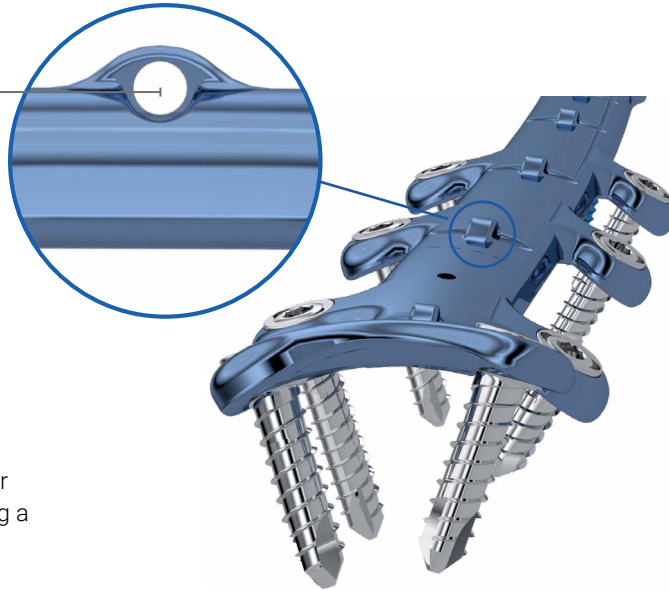
IRON LADY medium



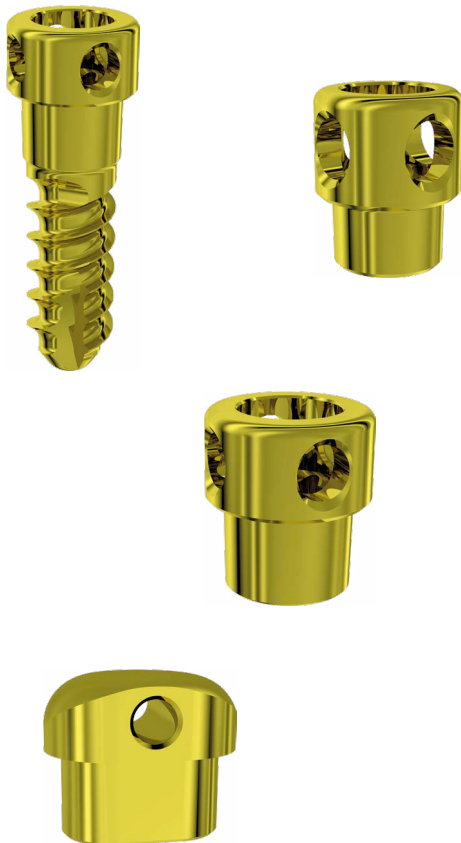
IRON LADY long

## / Iron Lady Periprosthetics Features and benefits

Eyelets for cerclage cable.



The biplanar implant on the femur provides primary stability, creating a self-supporting structure.



Conical locking slotted pins and pins for Rail eyelets for use with cerclage wires with a maximum diameter of 2mm.

## / Curved diaphyseal plates

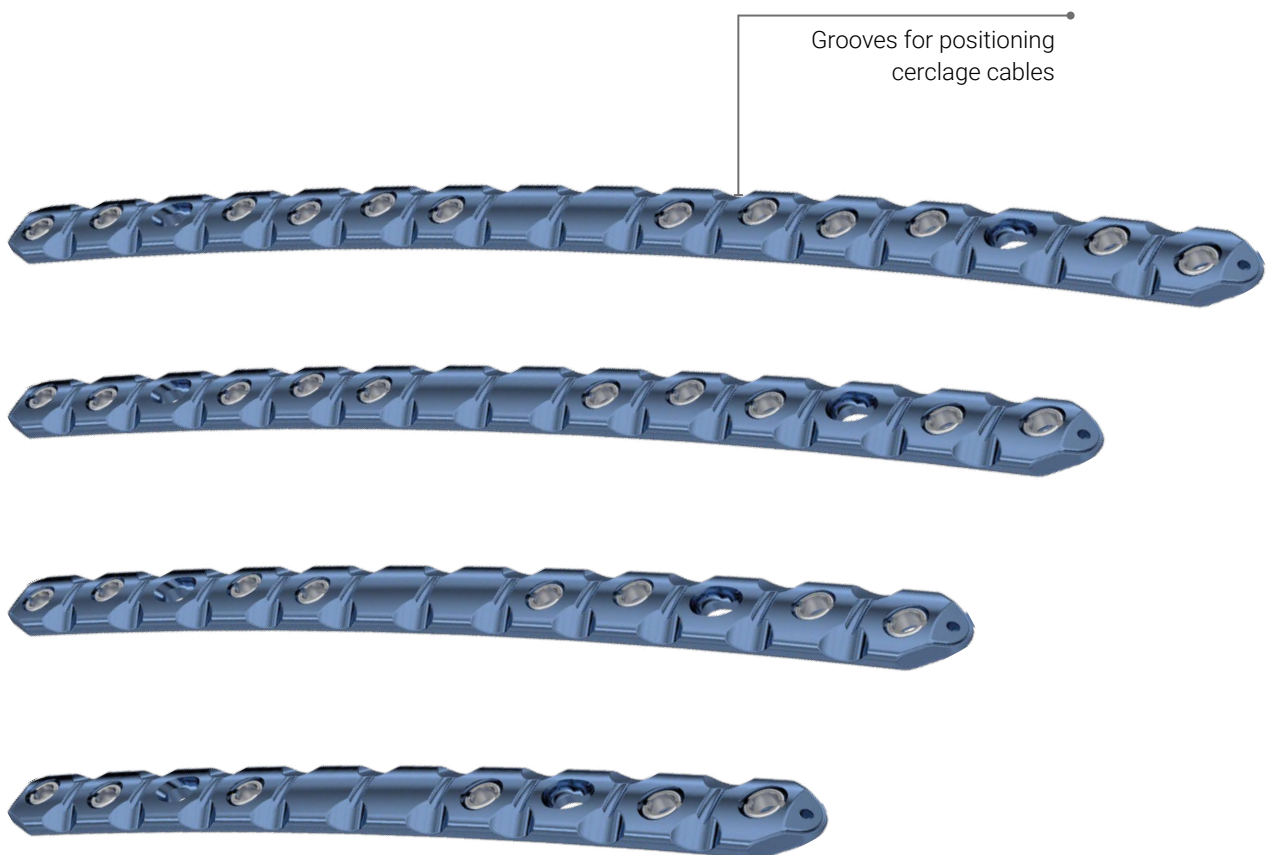
Intrauma has developed a range of curved plates for the treatment of diaphyseal fractures.

The plates ensure primary retention thanks to the patented O'nil system: the screw head is conically coupled to the hole in the plate, ensuring even distribution of forces over the entire implant and eliminating the risk of breakage, screw loosening and cross-threading.

The curved diaphyseal plates for the femur are also indicated for the treatment of periprosthetic fractures and, thanks to the O'nil slotted pin, it is possible to perform cerclage integrally with the plate, guaranteeing primary stability.

The plate is characterised by grooves for positioning the cerclage cables.

The biomechanical qualities of the implants and the absence of pressure on the bone help to preserve proper vascularisation of the periosteum, allowing early rehabilitation and reducing healing times.



## / Periarticular distal femur plate

### Features

- Anatomical low-profile titanium plate.
- 6 holes in the distal part of the plate ensure excellent fixation, even in the presence of osteoporotic bone.
- Available in 6 lengths, left and right versions.

### Indications

- Periprosthetic knee fractures.

Holes to accommodate the MI Aiming arm for minimally invasive technique

## / Distal femur with Rail option

Bridge fixation with angular stability plates is the most widely used method in the treatment of metadiaphyseal and periarticular fractures of the long bones of the lower limb. Delayed union, pseudo-arthritis, breakage of fixation devices and asymmetrical bone callus formation are often caused by the rigidity of the implants, which do not allow proper load transfer to the stumps.

The patented O'nil angular stability system allows an easy technique and eliminates the risk of cross-threading between the screw head and the plate. The O'nil plates transfer the forces acting on the fracture elastically; by not exerting pressure, they ensure vascularization of the bone. The six screws in the femoral condyles with locked or polyaxial option allow stabilization of the fragments to be optimized, thanks to the correct orientation.

The innovative Rail system is designed to allow use of the most suitable means of fixation for the type of fracture to be treated.

When using the dynamic option system, although resorption and repositioning occur at the level of the fracture rhyme, compression continues to act along the diaphyseal axis, allowing subsequent physiological union and reducing the risk of failure.

### Indications

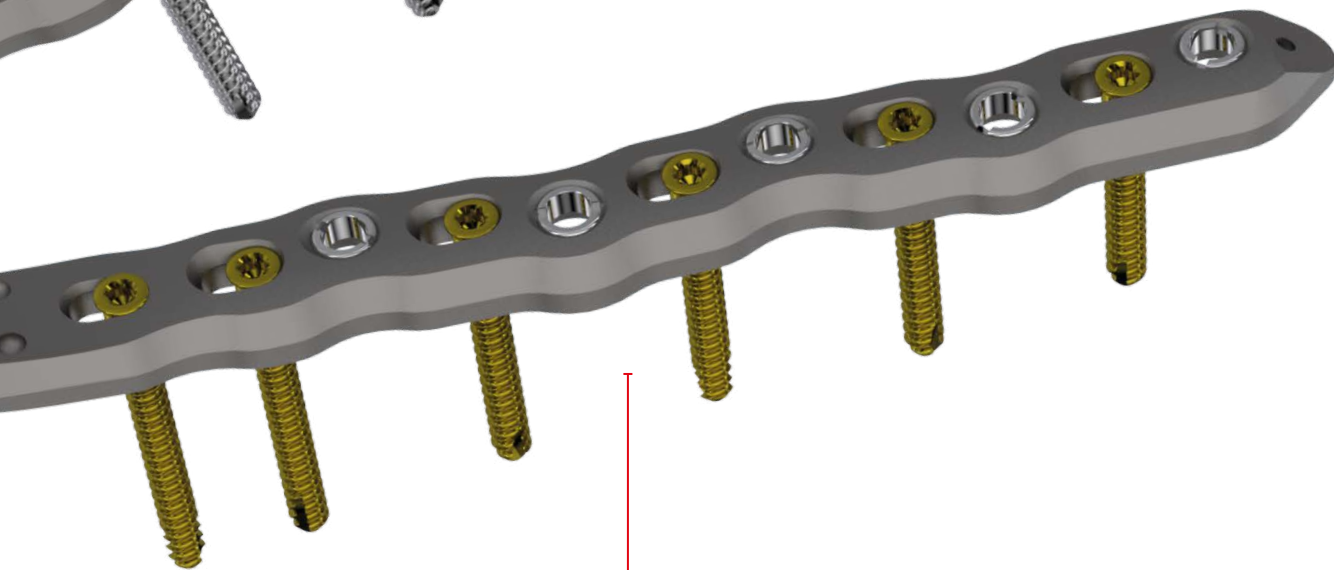
- Intra- and extra-articular complex fractures of the distal femur
- Distal diaphysis fractures
- Periprosthetic knee fractures



**1 Angular stability**  
Angularly stable O'nil screws



**2 Dynamic**  
Rail screws in dynamic position

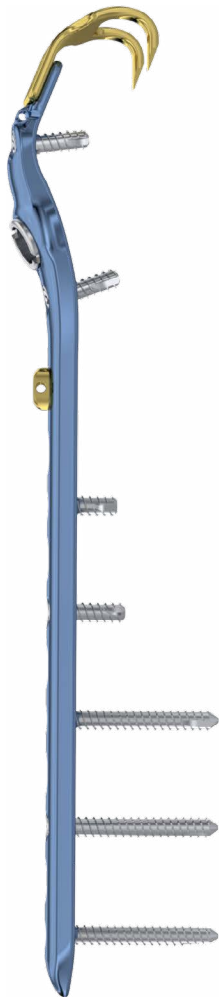


## / PFF - Proximal femur with Rail option

### Indications

The PFF Rail proximal femur plate is indicated for proximal femur fractures including:

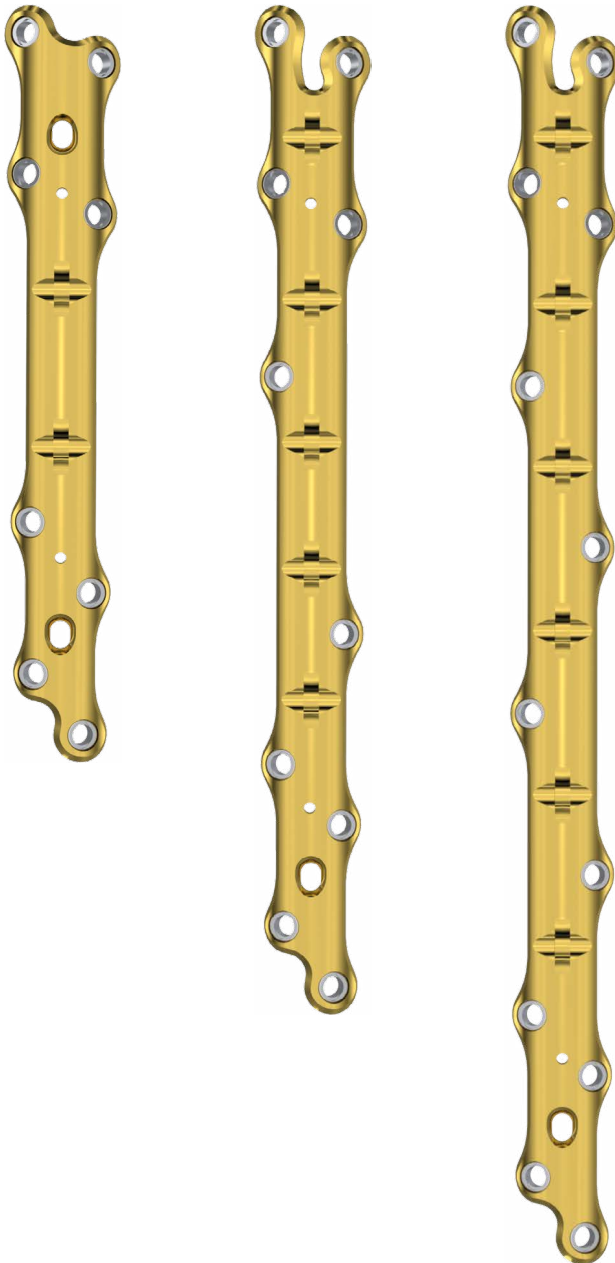
- Fractures of the trochanteric region, simple trochanteric, cervicotrochanteric, trochantero-diaphyseal, pertrochanteric multifragmentary, intertrochanteric, inverted or transverse intertrochanteric fractures or with additional fracture of the medial cortex.
- Fractures of the proximal end of the femur combined with ipsilateral diaphyseal fractures.
- Fractures with presence of metastases of the proximal femur.
- Osteotomies of the proximal femur.
- It is also indicated in the fixation of fractures in porotic bone and in the fixation of non-unions or union defects.



## / Iron Lady Humeral periprosthetics

### Features

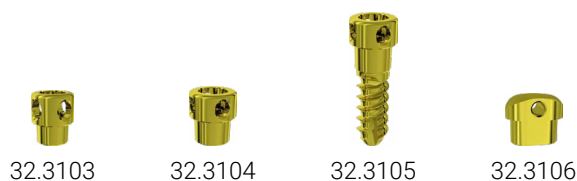
- Anatomical semitubular plate.
- The multi-planar implant allows primary stability.
- Available in 3 lengths.
- Plates, screws and bushings made from Titanium Ti6Al4V - ISO 5832-3 to allow MRI.
- Reduced surgical time.



# Ordering informations

Ref.	Description	L. mm	Epiphysis holes		Diaphysis holes	
			Locked	Free	Locked	Free
145.2003	IRON LADY Diaphyseal Humerus Plate short	150	0	0	8	2
145.2004	IRON LADY Diaphyseal Humerus Plate medium	200	0	0	10	1
145.2005	IRON LADY Diaphyseal Humerus Plate long	250	0	0	12	1
145.3001	IRON LADY Periprost. Proximal Femur Plate long (L)	300	0	0	14	5
145.3002	IRON LADY Periprost. Proximal Femur Plate long (R)	300	0	0	14	5
145.3003	IRON LADY Periprost. Proximal Femur Plate medium (L)	230	0	0	10	5
145.3004	IRON LADY Periprost. Proximal Femur Plate medium (R)	230	0	0	10	5
145.3005	IRON LADY Curved Periprost. Proximal Femur Plate (L)	250	2	0	10	5
145.3006	IRON LADY Curved Periprost. Proximal Femur Plate (R)	250	2	0	10	5
165.1001	MF Curved Diaphyseal Femur Plate short	202	0	0	6	2
165.1002	MF Curved Diaphyseal Femur Plate medium	242	0	0	8	2
165.1003	MF Curved Diaphyseal Femur Plate long	281	0	0	10	2
165.1004	MF Curved Diaphyseal Femur Plate extra-long	321	0	0	12	2
162.1001	DF Rail Distal Femur Plate (L) Short	160	6	0	3	4
162.1002	DF Rail Distal Femur Plate (R) Short	160	6	0	3	4
162.1003	DF Rail Distal Femur Plate (L) Medium	210	6	0	5	6
162.1004	DF Rail Distal Femur Plate (R) Medium	210	6	0	5	6
162.1005	DF Rail Distal Femur Plate (L) Long	260	6	0	7	8
162.1006	DF Rail Distal Femur Plate (R) Long	260	6	0	7	8
162.1007	DF Rail Distal Femur Plate (L) Long Plus	310	6	0	9	10
162.1008	DF Rail Distal Femur Plate (R) Long Plus	310	6	0	9	10
162.1009	DF Rail Distal Femur Plate (L) Extra-Long	360	6	0	11	12
162.1010	DF Rail Distal Femur Plate (R) Extra-Long	360	6	0	11	12
162.1011	DF Rail Distal Femur Plate (L) Extra-Long	410	6	0	13	14
162.1012	DF Rail Distal Femur Plate (R) Extra-Long	410	6	0	13	14
165.2001	PFF Rail Proximal Femur Plate (L) Short	169	3	0	3	4
165.2002	PFF Rail Proximal Femur Plate (R) Short	169	3	0	3	4
165.2003	PFF Rail Proximal Femur Plate (L) Medium	219	3	0	5	6
165.2004	PFF Rail Proximal Femur Plate (R) Medium	219	3	0	5	6
165.2005	PFF Rail Proximal Femur Plate (L) Long	269	3	0	7	8
165.2006	PFF Rail Proximal Femur Plate (R) Long	269	3	0	7	8
165.2007	PFF Rail Proximal Femur Plate (L) Extra-Long	319	3	0	9	10
165.2008	PFF Rail Proximal Femur Plate (R) Extra-Long	319	3	0	9	10
165.2000	PFF Rail Trochanteric Hook					

32.3103	Conical Cerclage Eyelet Ø3.6mm
32.3104	Conical Cerclage Eyelet Ø4.8mm
32.3105	Threaded Conical Cerclage Eyelet Ø4.8mm
32.3106	Cerclage Eyelet for Rail Slot Ø4.8mm



## Materials:

Plates | Titanium Ti6Al4V - ISO 5832-3

Curved Diaphyseal Femur Plate | Titanium GR.4 ISO 5832-2

Trochanteric Hook | Titanium GR.4 ISO 5832-2

# Autlocking screws Cortical screws

**/ SCREW | ■ Ø3.6MM**

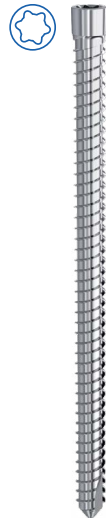
Ref.	L. mm
130.3410	10
130.3412	12
130.3414	14
130.3416	16
130.3418	18
130.3420	20
130.3422	22
130.3424	24
130.3426	26
130.3428	28
130.3430	30
130.3432	32
130.3434	34
130.3436	36
130.3438	38
130.3440	40
130.3442	42
130.3444	44
130.3446	46
130.3448	48
130.3450	50
130.3454	54
130.3458	58
130.3462	62
130.3466	66
130.3470	70
130.3474	74
130.3478	78
130.3482	82
130.3486	86
130.3490	90



Ti6Al4V - ISO 5832-3

**/ SCREW | ■ Ø4.8MM**

Ref.	L. mm
101.4810	10
101.4812	12
101.4814	14
101.4816	16
101.4818	18
101.4820	20
101.4822	22
101.4824	24
101.4826	26
101.4828	28
101.4830	30
101.4832	32
101.4834	34
101.4836	36
101.4838	38
101.4840	40
101.4842	42
101.4844	44
101.4846	46
101.4848	48
101.4850	50
101.4855	55
101.4860	60
101.4865	65
101.4870	70
101.4875	75
101.4880	80
101.4885	85
101.4890	90
101.4895	95
101.4896	100
101.4897	105
101.4898	110



Ti6Al4V - ISO 5832-3

**/ SCREW | ■ Ø3.7MM**

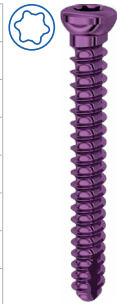
Ref.	L. mm
130.3712	12
130.3714	14
130.3716	16
130.3718	18
130.3720	20
130.3722	22
130.3724	24
130.3726	26
130.3728	28
130.3730	30
130.3732	32
130.3734	34
130.3736	36
130.3738	38
130.3740	40
130.3742	42
130.3742	42
130.3744	44
130.3746	46
130.3748	48
130.3750	50
130.3754	54
130.3758	58
130.3762	62
130.3766	66
130.3770	70



Ti6Al4V - ISO 5832-3

**/ SCREW | ■ Ø4.8MM**

Ref.	L. mm
102.4812	12
102.4814	14
102.4816	16
102.4818	18
102.4820	20
102.4822	22
102.4824	24
102.4826	26
102.4828	28
102.4830	30
102.4832	32
102.4834	34
102.4836	36
102.4838	38
102.4840	40
102.4842	42
102.4844	44
102.4846	46
102.4848	48
102.4850	50
102.4855	55
102.4860	60
102.4865	65
102.4870	70

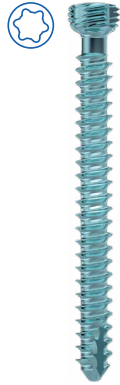


Ti6Al4V - ISO 5832-3

# MultiAx screws

## / SCREW | Ø4.8MM

Ref.	L. mm
103.4814	14
103.4816	16
103.4818	18
103.4820	20
103.4822	22
103.4824	24
103.4826	26
103.4828	28
103.4830	30
103.4832	32
103.4834	34
103.4836	36
103.4838	38
103.4840	40
103.4842	42
103.4844	44
103.4846	46
103.4848	48
103.4850	50
103.4855	55
103.4860	60
103.4865	65
103.4870	70
103.4875	75
103.4880	80
103.4885	85
103.4890	90
103.4895	95
103.4896	100
103.4897	105



Ti6Al4V - ISO 5832-3

# Rail screws

## / SCREW | Ø4.8MM

Ref.	L. mm
104.4820	20
104.4822	22
104.4824	24
104.4826	26
104.4828	28
104.4830	30
104.4832	32
104.4834	34
104.4836	36
104.4838	38
104.4840	40
104.4842	42
104.4844	44
104.4846	46
104.4848	48
104.4850	50
104.4852	52
104.4854	54
104.4856	56
104.4858	58
104.4860	60



Ti6Al4V - ISO 5832-3

# Autlocking cannulated screws

/ SCREW | ■ Ø8.5MM

Ref.	L. mm
101.8060	60
101.8065	65
101.8070	70
101.8075	75
101.8080	80
101.8085	85
101.8090	90
101.8095	95
101.8100	100
101.8105	105
101.8110	110
101.8115	115



Ti6Al4V - ISO 5832-3

