

TARGON F/T

*INTRAMEDULLARY FIXATION SYSTEM
FOR THE FEMUR AND TIBIA*



TARGON

*CREATES
STRONG
CONNECTIONS*

The TARGON interlocking nail system is the result of many years of clinical experience in Trauma Surgery combined with the high technical competence of AESCULAP. The implants are perfectly adapted to anatomy and thanks to a simple and logical instrumentation, easy to use. Quality and modern manufacturing technology guarantee a high strength of the implants in all sizes.

The TARGON nails are available in two versions: the »Universal«, conceived for the reamed technique and the »Solid Titanium« nails, conceived for the unreamed technique. The latter is recommended in situations with a high degree of soft tissue damage, extensive blood loss (polytrauma) or in case of severe chest trauma. For the unreamed technique both nails and screws are made of a titanium alloy with a high load-bearing capacity in order to withstand alternating loads, despite a slim nail profile.

To minimize stock keeping, both the femoral and tibial nails are designed to be used for left as well as right side implantation..

The TARGON interlocking nail system combines maximum anatomic adaptation, simple handling, biomechanical strength and, »last but not least«, economy.



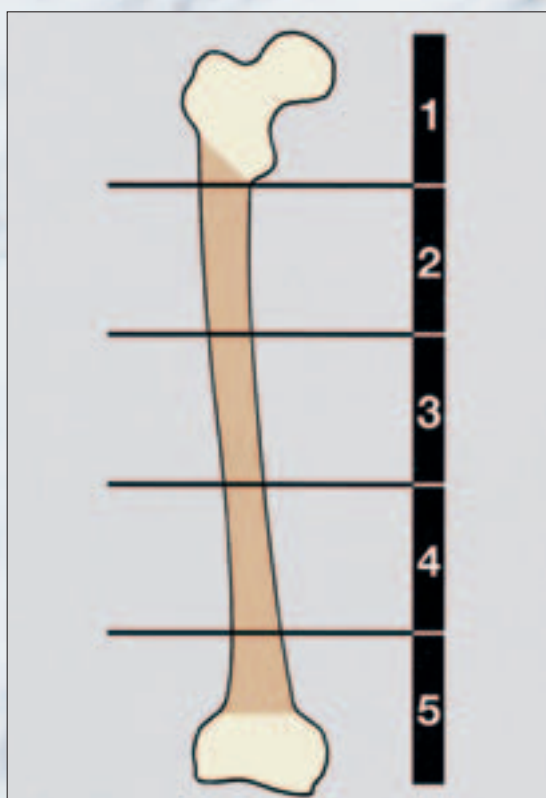
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Nuremberg



TARGON *F/T* INTERLOCKING NAIL »UNIVERSAL«

FEMUR

Reaming of the medullary cavity should be performed with an appropriate reaming system (deep notches in the reaming head) able to minimize the intramedullary pressure. It should be stopped as soon as the reamer gets in contact with the cortex. Excellent stability of fixation is obtained thanks to the good adaptation of the nail to the anatomy of the femur and to perfect fitting of the locking screws in the distal holes.

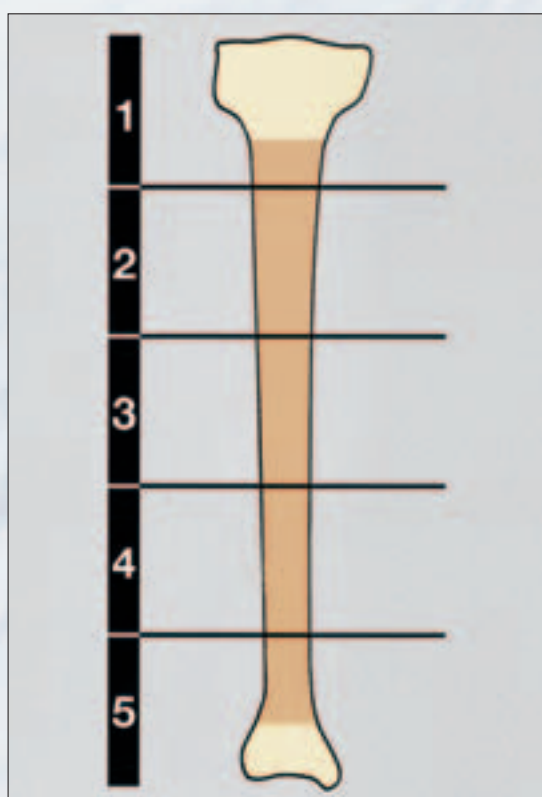


The universal interlocking nail for the femur covers all indications for reamed nailing in the shaft region. The oblique direction of the proximal interlocking hole and the availability of three holes far distally allow maximum use of this standard method for fixation in the femur, even in borderline indications.

Classification of fracture localisation according to one fifth method.
TARGON range of indications shown in dark beige.

TIBIA

Reaming of the medullary cavity damages the blood flow through the inner cortex. Within a short time this damage is compensated by an increased blood supply from the periosteal vessels. Reaming should not make the cortex any thinner but only allow contact between nail and cortex. The product of reaming, containing living bone cells, accumulates in the fracture haematoma and thus promotes the formation of callus.



The universal interlocking nail for the tibia covers all indications for reamed nailing in the shaft region, except for fractures with severe soft tissue damage. The anatomical shape makes the insertion of the nail easy. The arrangement of the interlocking holes both proximally and distally allows maximum use of this standard method for fixation of the tibia, even for borderline indications.

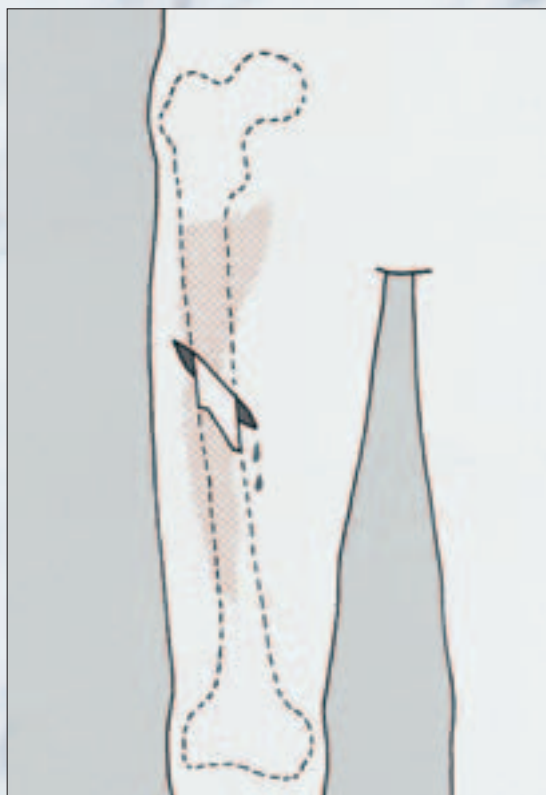
Classification of fracture localisation according to one fifth method.
TARGON range of indications shown in dark beige.



TARGON *F/T* INTERLOCKING NAIL »SOLID TITANIUM«

FEMUR

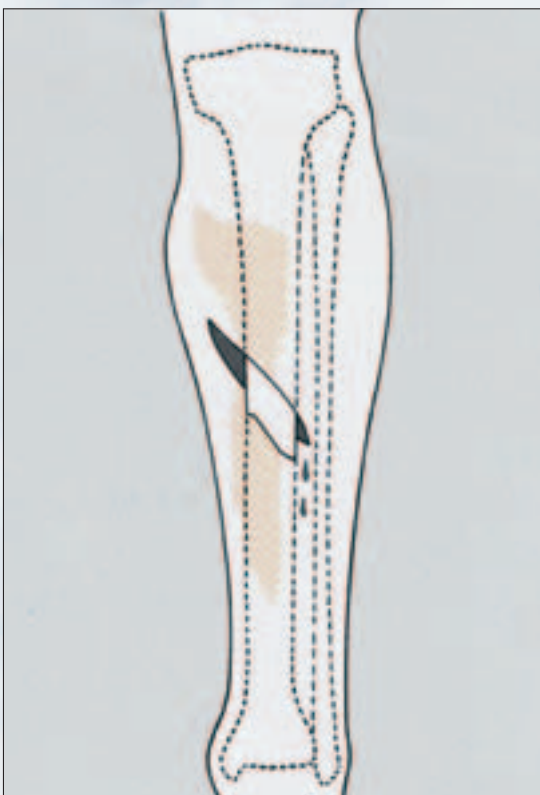
When the femoral medullary cavity is reamed, bone fat is mobilized and enters the venous blood stream. In most cases this process is neutralized by physiological mechanism but, after extensive blood loss (polytrauma) and in case of severe chest trauma, such mechanisms may be insufficient and ARDS can ensue. The use of an unreamed femoral interlocking nail, with its thinner diameter and less forceful introduction, minimizes the raise of the intramedullary pressure and hence the negative pulmonary consequences. As the endosteal vessels are mainly preserved, the unreamed femoral nail is also indicated for fracture stabilization in case of severe soft tissue damage.



The thin solid femoral nail, made of a robust titanium alloy, is mainly recommended for the primary treatment of femoral shaft fractures both in case of polytrauma and severe soft tissue damage. The three grooves along the nail set drainage and thus keep the intramedullary pressure low. In addition, they make the regeneration of the intramedullary vessels possible.

TIBIA

Similar to the femur the insertion of a thin nail into the tibia minimizes the destruction of the endosteal blood supply. This aspect becomes dominant in case of grade II and III open fractures or in case of grade III closed fractures. In addition, stably fixed fragments which are kept »alive« offer the best protection against multiplying of bacterias in the contaminated area of open fractures. A meticulous soft tissue debridement must precede fracture stabilization.



The titanium nail for the tibia covers all indications for unreamed interlocking nailing in the shaft region. The anatomical shape makes insertion of the nail easy. Three interlocking holes both proximally and distally allow maximum use of this implant. The high capability of the titanium alloy to withstand alternate loads reduces the risk of metal fatigue.



TARGON

*THE NEW
EXPERIENCE*



TARGON F/T

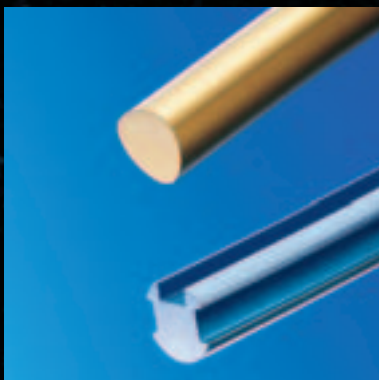
»SOLID TITANIUM«
INTERLOCKING NAIL
FOR THE TIBIA

»un-reamed« for
optimal treatment
in case of soft
tissue damage

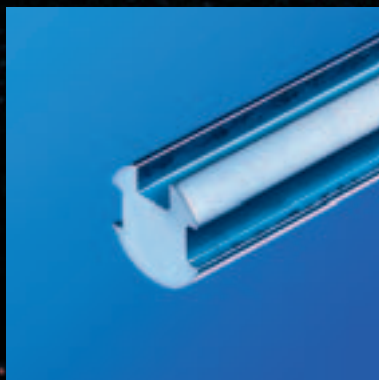
Good cancellous penetration with pointed nail end (ice breaker effect). Effective dynamization always possible.



Solid nail made of titanium alloy (Ti6AL4V) reduces the risk of infection with open fractures. Polygonal profile of the tibia nail ensures high strength with small diameter.



Grooves along the nail (drainage effect) reduce the intramedullary pressure during implantation. Better endosteal revascularization.



FEMORAL AND TIBIAL INTERLOCK

»SOLID TITANIUM«
INTERLOCKING NAIL
FOR THE FEMUR

»UNIVERSAL«
INTERLOCKING NAIL
FOR THE TIBIA
Triple angling ensures
anatomical perfection

The three anatomical curves at 14°, 6° and 3°
ensure easy insertion into the medullary canal.



No irritation of the patella ligament through
bevelled proximal nail design.



The position of the 3 transverse holes permits
maximum utilization of the procedure
proximally. No danger to popliteal vessels
through sagittal holes. No danger to harm
the tibiofibular joint through diagonal holes.



LOCKING NAIL SYSTEM

»UNIVERSAL«
INTERLOCKING NAIL
FOR THE FEMUR
Radius 2000

Only 2 adapters for all nail diameters.
Adapted diameters of nail head and
nail shaft save subsequent proximal
re-drilling.



The position of the lower fixation holes
allows maximum utilization of the procedure
distally. No harm to the extensor tendons
and to the anterior vessels through sagittal
drilling.



The wall thicknesses and profiles permit
high strengths and sufficient flexibility with
all nail diameters.





TARGON CLOSURE SCREW
prevents bony ingrowth.

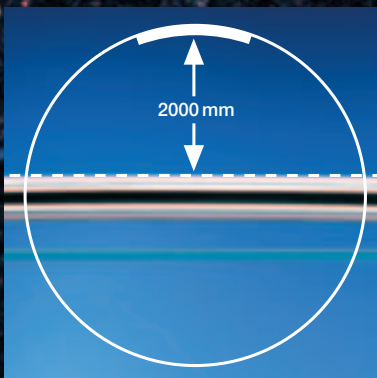
TARGON FIXATION SCREW



Continuous flat thread facilitates removal of the screw. Nail wedges in flat thread. No lateral migration.

Deeper self-tapping thread for opposite cortical layer. Only one drilling process required.

The anatomical curvature (radius: 2000 mm) facilitates introduction of the nail and reduces the risk of perforation of the cortex or nail torsion.



The wall thicknesses of the nails are corresponding to the power flux. This results in a much greater ability to withstand alternate loads in the critical implant regions.



Reduced stock-holding through double oblique holes, i.e. the femoral nail can be used both on the right and on the left.



- ★ *Ideal anatomical adaptation results in interlocking nailing.*
- ★ *Maximum utilization of the interlocking nailing procedure even for borderline indications.*



TARGON *F/T* INSTRUMENTATION

KH 200

BASIC »INSTRUMENT« SET					
Quant.	ART.NO.	Description	Quant.	ART.NO.	Description
1	KH 099 R	Drill and nail gauge	1	KH 323 R	Guide pin
1	KH 301 R	Screw scale	1	KH 113 R	Slotted hammer for knock-out instr.
1	KH 320 S	Guide wire for tibia nail 2,5mm x 80cm	1	FL 066 R	Hammer 550g
1	KH 304 S	Guide wire for femur nail 4 mm x 90cm	1	LX 202 S	Handle with three jaw chuck ø 6,3 mm
1	KH 305 P	Teflon tube	1	AA 809	Plastic X-ray scale
1	KH 322 R	Screw driver SW 4,5mm	1	KH 265 R	Trocar 6mm
1	KH 310 R	Knocking-out instrument	1	KH 285 R	Trocar 4,5mm
1	KH 311 R	Knock-out adapter for nail 8-11 mm	1	KH 266 S	Drill sleeve 6mm
1	KH 312 R	Knock-out adapter for nail 12-15 mm	1	KH 271 R	Tissue protecting sleeve
1	KH 313 R	Distal targeting instrument	1	KH 267 R	Twist drill 3,5mm
1	KH 314 R	Targeting trocar f. distal targeting instr., 3mm	1	KH 268 R	Twist drill 4,5mm
1	KH 317 R	Opening reamer	1	KH 201 R	Wire basket with silicon storage
1	KH 049 S	Tissue protecting plate	1	JF 511	Wrapping cloth
1	KH 318 R	Hollow reamer	2	JG 785 B	Identification plate



recommended container for KH 200: JK 400 / JN 400

TARGETING *F/T* INSTRUMENTS

KH 202

TARGETING INSTRUMENTS		
Quant.	ART.NO.	Description
1	KH 210 R	Femur targeting device
1	KH 211 R	Adapter for femur nail 8-11 mm
1	KH 213 R	Adapter for femur nail 12-15 mm
1	KH 280 R	Tibia targeting device
1	KH 281 R	Adapter for tibia nail 8-11 mm
1	KH 283 R	Adapter for tibia nail 12-14 mm
1	KH 262 R	Adapter screw for tibia nail 8-11 mm
1	KH 264 R	Adapter screw for tibia nail 12-14 mm
1	KH 212 R	Adapter screw for femur nail 8-11 mm
1	KH 214 R	Adapter screw for femur nail 12-15 mm
1	KH 324 C	Socket key SW 10
1	KH 308 R	Tightening sleeve SW 10
1	KH 203 R	Wire basket with storage
1	TE 607	Packing template
1	JF 511	Wrapping cloth
2	JG 785 B	Identification plate



recommended container for KH 202: JK 401 P / JN 401 P
recommended container for KH 200 + 202: JK 402 / JN 402



TARGON *F/T* BASIC-SETS »UNIVERSAL-NAIL«

KH 220 FEMUR

ø	ART.NO.	Length	Quant.
11	KA 464 S	360	1
	KA 466 S	380	1
	KA 468 S	400	1
	KA 470 S	420	1
	KA 472 S	440	1

includes tray KH 221 R

ø	ART.NO.	Length	Quant.
12	KA 564 S	360	1
	KA 566 S	380	1
	KA 568 S	400	1
	KA 570 S	420	1
	KA 572 S	440	1

ø	ART.NO.	Length	Quant.
13	KA 664 S	360	1
	KA 666 S	380	1
	KA 668 S	400	1
	KA 670 S	420	1
	KA 672 S	440	1



KH 222 TIBIA

ø	ART.NO.	Length	Quant.
10	KC 356 S	285	1
	KC 358 S	300	1
	KC 359 S	315	1
	KC 361 S	330	1
	KC 362 S	345	1

includes tray KH 223 R

ø	ART.NO.	Length	Quant.
11	KC 456 S	285	1
	KC 458 S	300	1
	KC 459 S	315	1
	KC 461 S	330	1
	KC 462 S	345	1

ø	ART.NO.	Length	Quant.
12	KC 556 S	285	1
	KC 558 S	300	1
	KC 559 S	315	1
	KC 561 S	330	1
	KC 562 S	345	1



TARGON *F/T* BASIC-SETS »SOLID TITAN-NAIL«

KH 224

FEMUR

ø	ART.NO.	Length	Quant.
9	KD 264 T	360	1
	KD 266 T	380	1
	KD 268 T	400	1
	KD 270 T	420	1
	KD 272 T	440	1

ø	ART.NO.	Length	Quant.
10	KD 364 T	360	1
	KD 366 T	380	1
	KD 368 T	400	1
	KD 370 T	420	1
	KD 372 T	440	1

includes tray KH 225 R



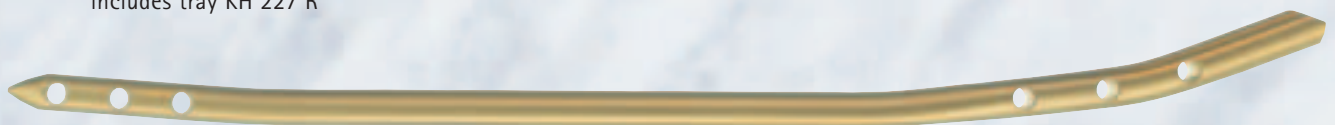
KH 226

TIBIA

ø	ART.NO.	Length	Quant.
8	KE 156 T	285	1
	KE 158 T	300	1
	KE 159 T	315	1
	KE 161 T	330	1
	KE 162 T	345	1

ø	ART.NO.	Length	Quant.
9	KE 256 T	285	1
	KE 258 T	300	1
	KE 259 T	315	1
	KE 261 T	330	1
	KE 262 T	345	1

includes tray KH 227 R



recommended container for storage of the basic implant sets: JK 401 / JN 401



TARGON *F/T* INTERLOCKING SCREWS

KH 208

INTERLOCKING SCREWS									
Ø	STEEL	Length	Quant.	TITANIUM	Ø	STEEL	Length	Quant.	TITANIUM
	ART.NO.			ART.NO.		ART.NO.			ART.NO.
4,5	KB 720 S	20	2	KB 320 T	6	KB 236 S	36	2	KB 636 T
	KB 724 S	24	2	KB 324 T		KB 240 S	40	2	KB 640 T
	KB 728 S	28	2	KB 328 T		KB 244 S	44	2	KB 644 T
	KB 732 S	32	2	KB 332 T		KB 248 S	48	4	KB 648 T
	KB 736 S	36	4	KB 336 T		KB 252 S	52	4	KB 652 T
	KB 740 S	40	4	KB 340 T		KB 256 S	56	4	KB 656 T
	KB 744 S	44	4	KB 344 T		KB 260 S	60	4	KB 660 T
	KB 748 S	48	4	KB 348 T		KB 264 S	64	4	KB 664 T
	KB 752 S	52	4	KB 352 T		KB 268 S	68	4	KB 668 T
	KB 756 S	56	2	KB 356 T		KB 272 S	72	2	KB 672 T
5	KB 760 S	60	2	KB 360 T		KB 276 S	76	2	KB 676 T
						KB 280 S	80	2	KB 680 T
						KB 284 S	84	2	KB 684 T
						KB 288 S	88	2	KB 688 T
						KB 292 S	92	2	KB 692 T
						KB 296 S	96	2	KB 696 T

5	KB 420 S	20	2
	KB 424 S	24	2
	KB 428 S	28	2
	KB 432 S	32	2
	KB 436 S	36	4
	KB 440 S	40	4
	KB 444 S	44	4
	KB 448 S	48	4
	KB 452 S	52	4
	KB 456 S	56	2
	KB 460 S	60	2

CLOSURE SCREWS			
To be used with	for nail Ø	ART.NO	Quant.
Solid Titanium nail	8-11	KB 200 T	2
Universal nail	9-11	KB 201 S	2
	12-15	KB 202 S	2

to be ordered separately

SPECIAL LENGTHS		
Ø	ART.NO	Length
4,5 Titanium	KB 364 T	64
	KB 368 T	68
	KB 372 T	72
	KB 376 T	76
	KB 380 T	80
5 Steel	KB 464 T	64
	KB 468 T	68
	KB 472 T	72
	KB 476 T	76
	KB 480 T	80

recommended container for
KH 208: JK 400 / JN 400

includes tray KH 209 R

TARGON *F/T*
INTERLOCKING NAILS
FOR FEMUR AND TIBIA

FEMUR »UNIVERSAL«							
ø	ART.NO.	Length		ø	ART.NO.	Length	
10	KA 351 S	240		13	KA 662 S	340	
	KA 354 S	260			KA 664 S	360	
	KA 356 S	280			KA 666 S	380	
	KA 358 S	300			KA 668 S	400	
	KA 360 S	320			KA 670 S	420	
	KA 362 S	340			KA 672 S	440	
	KA 364 S	360			KA 674 S	460	
	KA 366 S	380			KA 676 S	480	
	KA 368 S	400			14	KA 764 S	360
	KA 370 S	420		KA 766 S		380	
KA 372 S	440	KA 768 S	400				
KA 374 S	460	KA 770 S	420				
		KA 772 S	440				
11	KA 458 S	300		15	KA 774 S	460	
	KA 460 S	320			KA 776 S	480	
	KA 462 S	340			15	KA 864 S	360
	KA 464 S	360				KA 866 S	380
	KA 466 S	380				KA 868 S	400
	KA 468 S	400				KA 870 S	420
	KA 470 S	420		KA 872 S		440	
	KA 472 S	440		KA 874 S	460		
KA 474 S	460	KA 876 S	480				
12	KA 558 S	300					
	KA 560 S	320					
	KA 562 S	340					
	KA 564 S	360					
	KA 566 S	380					
	KA 568 S	400					
	KA 570 S	420					
	KA 572 S	440					
	KA 574 S	460					
	KA 576 S	480					

FEMUR »SOLID TITAN«					
ø	ART.NO.	Length	ø	ART.NO.	Length
8	KD 152 T	240	10	KD 362 T	340
	KD 154 T	260		KD 364 T	360
	KD 156 T	280		KD 366 T	380
	KD 158 T	300		KD 368 T	400
	KD 160 T	320		KD 370 T	420
	KD 162 T	340		KD 372 T	440
	KD 164 T	360		KD 374 T	460
	KD 166 T	380		KD 376 T	480
9	KD 252 T	240	11	KD 462 T	340
	KD 254 T	260		KD 464 T	360
	KD 256 T	280		KD 466 T	380
	KD 258 T	300		KD 468 T	400
	KD 260 T	320		KD 470 T	420
	KD 262 T	340		KD 472 T	440
	KD 264 T	360		KD 474 T	460
	KD 266 T	380		KD 476 T	480
	KD 268 T	400			
	KD 270 T	420			
	KD 272 T	440			
	KD 274 T	460			
KD 276 T	480				

SPECIAL LENGTHS		
UNIVERSAL		
ART.NO.	Ø	Length
KA 500 S	12	max. 600 mm
KA 600 S	13	f. arthrodesis

TIBIA »UNIVERSAL«					
ø	ART.NO.	Length	ø	ART.NO.	Length
9	KC 255 S	270	12	KC 556 S	285
	KC 256 S	285		KC 558 S	300
	KC 258 S	300		KC 559 S	315
	KC 259 S	315		KC 561 S	330
	KC 261 S	330		KC 562 S	345
	KC 262 S	345		KC 564 S	360
	KC 264 S	360		KC 565 S	375
	KC 265 S	375		KC 567 S	390
	KC 267 S	390		KC 568 S	405
	KC 268 S	405	13	KC 656 S	285
10	KC 352 S	240		KC 658 S	300
	KC 353 S	255		KC 659 S	315
	KC 355 S	270		KC 661 S	330
	KC 356 S	285		KC 662 S	345
	KC 358 S	300		KC 664 S	360
	KC 359 S	315		KC 665 S	375
	KC 361 S	330		KC 667 S	390
	KC 362 S	345		KC 668 S	405
	KC 364 S	360	14	KC 756 S	285
11	KC 365 S	375		KC 758 S	300
	KC 367 S	390		KC 759 S	315
	KC 368 S	405		KC 761 S	330
	KC 455 S	270		KC 762 S	345
	KC 456 S	285		KC 764 S	360
	KC 458 S	300		KC 765 S	375
	KC 459 S	315		KC 767 S	390
	KC 461 S	330		KC 768 S	405
	KC 462 S	345			
	KC 464 S	360			
	KC 465 S	375			
	KC 467 S	390			
	KC 468 S	405			

TIBIA »SOLID TITAN.«		
ø	ART.NO.	Length
8	KE 152 T	240
	KE 153 T	255
	KE 155 T	270
	KE 156 T	285
	KE 158 T	300
	KE 159 T	315
	KE 161 T	330
	KE 162 T	345
	KE 164 T	360
9	KE 165 T	375
	KE 167 T	390
	KE 168 T	405
	KE 252 T	240
	KE 253 T	255
	KE 255 T	270
	KE 256 T	285
	KE 258 T	300
	KE 259 T	315
10	KE 261 T	330
	KE 262 T	345
	KE 264 T	360
	KE 265 T	375
	KE 267 T	390
	KE 268 T	405
	KE 355 T	270
	KE 356 T	285
	KE 358 T	300
11	KE 359 T	315
	KE 361 T	330
	KE 362 T	345
	KE 364 T	360
	KE 365 T	375
	KE 367 T	390
	KE 368 T	405

SPECIAL LENGTHS					
UNIVERSAL		Length	SOLID TITANIUM		
ART.NO	ø		ø	ART.NO.	
KC 500 S	10	max. 420 mm	8	KE 100 T	
KC 400 S	11		9	KE 200 T	
KC 500 S	12				
KC 600 S	13				





*CREATES
STRONG
CONNECTIONS*

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