

PRODUCT CATALOG

# ANATOMICAL LOCKING PLATE SYSTEM



**DIGITAL ORTHOPAEDIC SOLUTIONS CO., LTD.**

An anatomy-driven fixation system developed through multi-center clinical collaboration.



# ABOUT US

Digital Orthopaedic Solutions Co., Ltd. (DiOS) is a pioneering research and development (R&D) company specializing in orthopaedic medical devices. Our mission is to create advanced orthopaedic products and solutions tailored to the unique anatomical needs of Thai and Asian populations. DiOS combines cutting-edge technology with extensive anatomical data to produce orthopaedic trauma implants that deliver better outcomes for patients.

## WHY DiOS?

DiOS was established to address a fundamental gap in orthopaedic trauma care: the lack of implant systems designed based on the anatomical characteristics of **Thai and Asian** populations.

- **Anatomy-Driven Design**

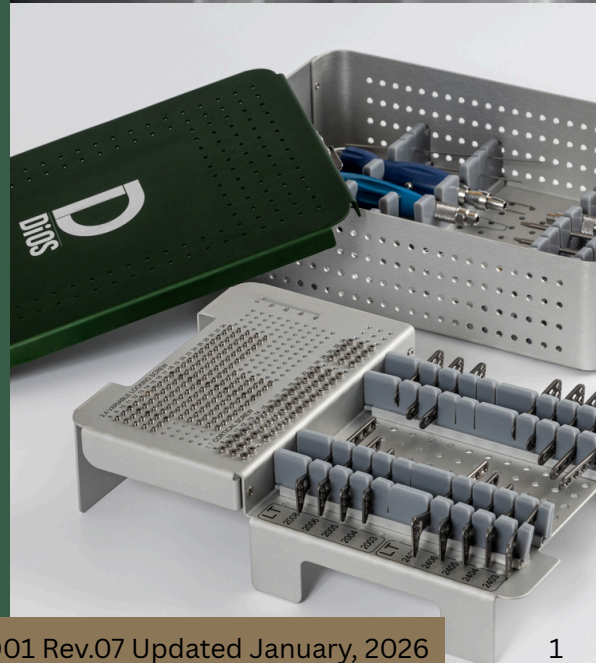
DiOS implant systems are developed from population-specific anatomical data, including CT-based measurements, to achieve improved plate fit, screw trajectory, and load distribution.

- **Clinical and Academic Collaboration**

Product development is conducted in close collaboration with orthopaedic surgeons and academic medical centers, ensuring that design decisions are clinically relevant and aligned with real surgical workflows.

- **Evidence-Based Validation**

Design verification and validation are performed through biological and mechanical testing, in accordance with international standards for orthopaedic fixation devices.



# OUR PRODUCT

Proximal Humerus  
Locking Plate and Screw



Distal Radius  
Locking Plate and Screw



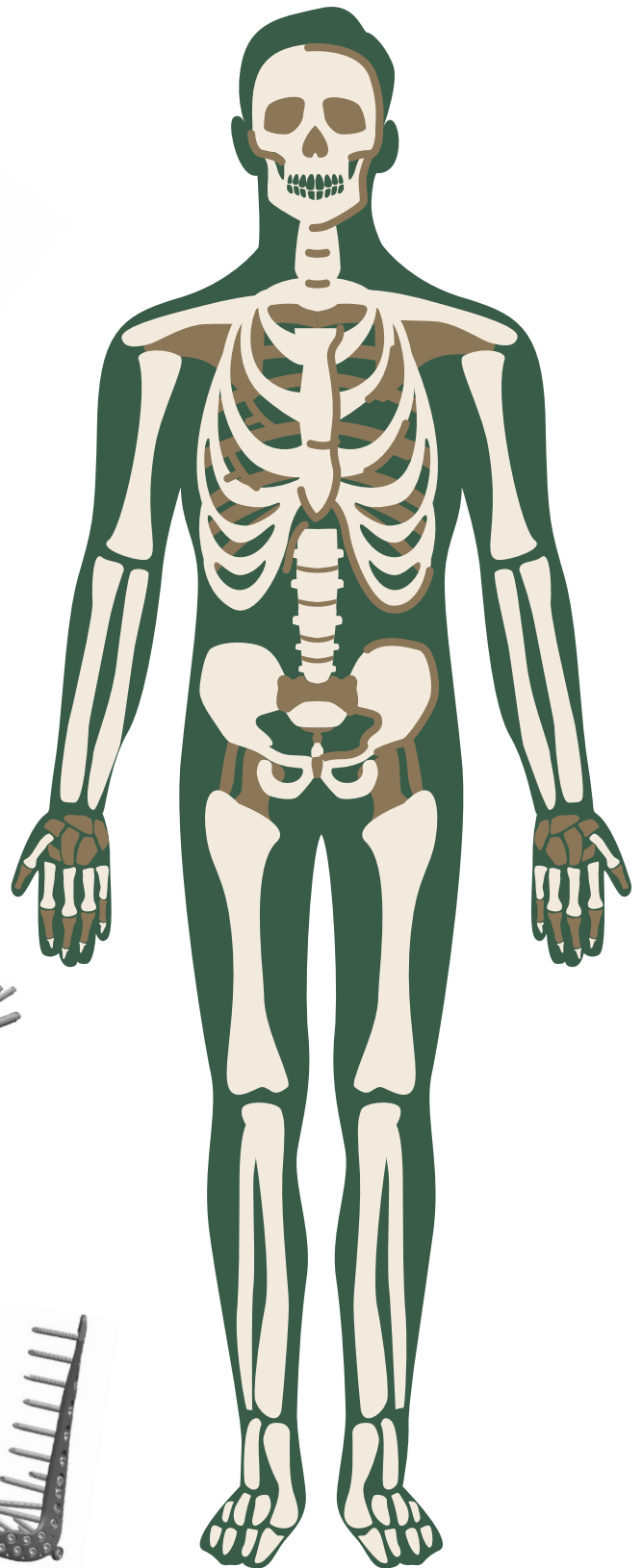
Distal Femur  
Locking Plate and Screw



Proximal Tibia  
Locking Plate and Screw

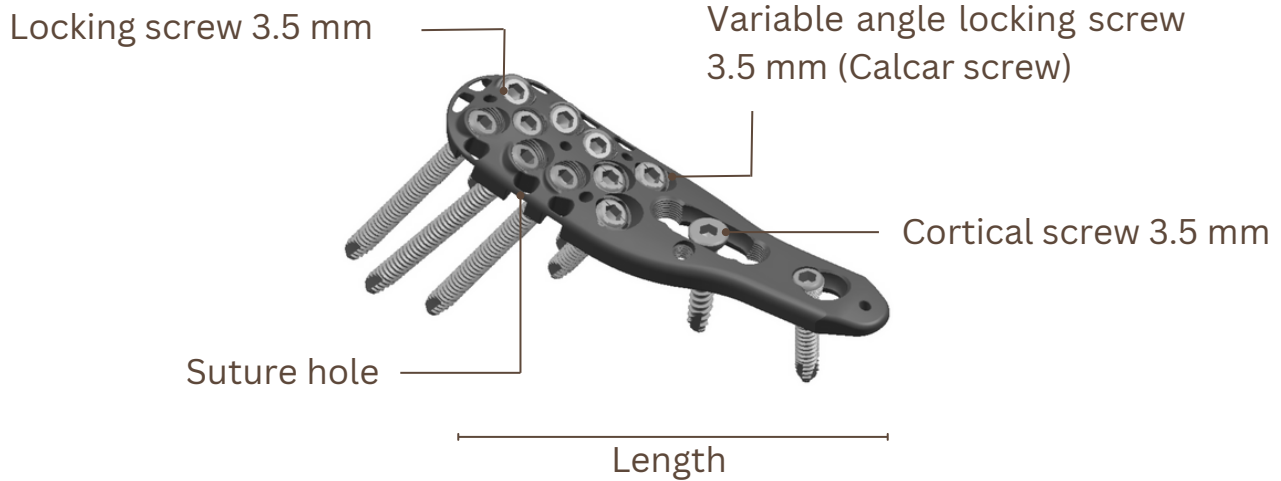


Distal Tibia  
Locking Plate and Screw

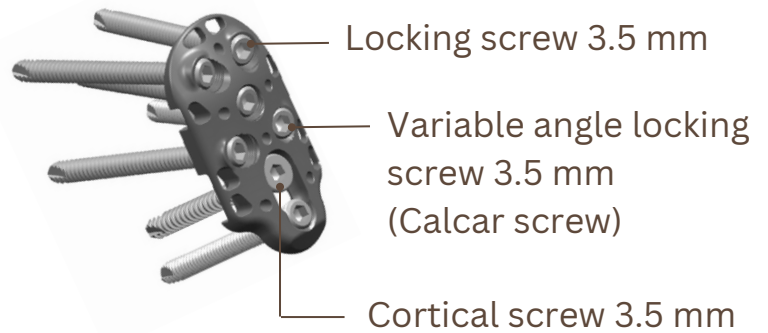


# PROXIMAL HUMERUS LOCKING PLATE AND SCREW

Material: Titanium Alloy (ASTM F136)



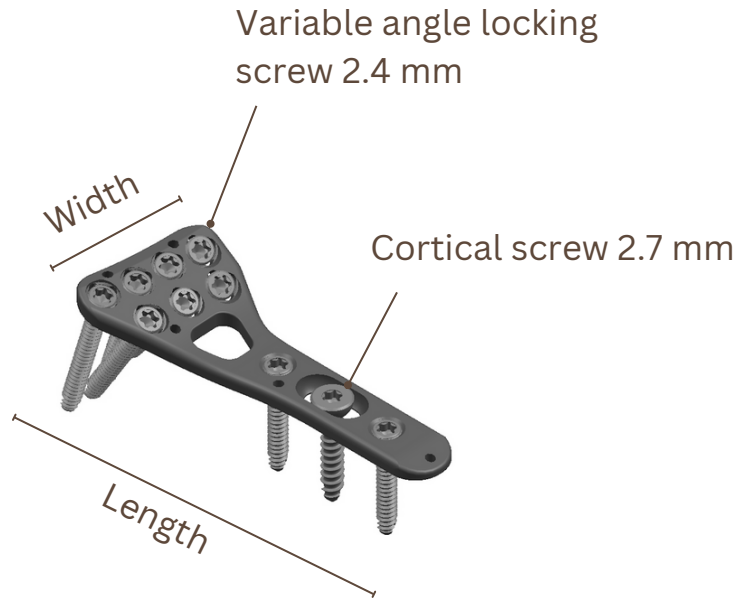
## GREATER TUBERCLE LOCKING PLATE (GT)



Item no./Reference	Head hole	Shaft hole	Side	Length (mm)
PLHLPBT3501	10	1	R/L	50
PLHLPBT3502	10	2	R/L	73
PLHLPBT3503	10	3	R/L	86
PLHLPBT3504	10	4	R/L	99
PLHLPBT3506	10	6	R/L	125
PLHLPBT3508	10	8	R/L	151
PLHLPBT3510	10	10	R/L	177
PLHLPBT3512	10	12	R/L	203
PLHLPBT3514	10	14	R/L	229

# DISTAL RADIUS LOCKING PLATE AND SCREW

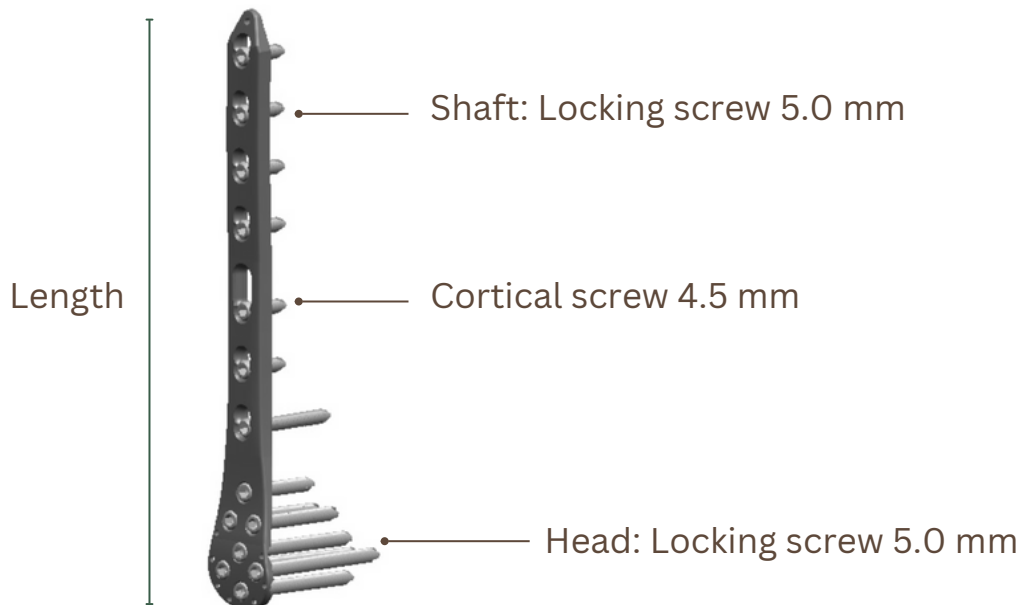
Material: Titanium Alloy (ASTM F136)



Item no./Reference	Head hole	Shaft hole	Side	Width (mm)	Length (mm)
VDRFPLRT2003/2403	7	3	R	20/24	48
VDRFPLRT2004/2404	7	4	R	20/24	57
VDRFPLRT2005/2405	7	5	R	20/24	66
VDRFPLRT2006/2406	7	6	R	20/24	75
VDRFPLRT2008/2408	7	8	R	20/24	93
VDRFPLLT2003/2403	7	3	L	20/24	48
VDRFPLLT2004/2404	7	4	L	20/24	57
VDRFPLLT2005/2405	7	5	L	20/24	66
VDRFPLLT2006/2406	7	6	L	20/24	75
VDRFPLLT2008/2408	7	8	L	20/24	93

# DISTAL FEMUR LOCKING PLATE AND SCREW

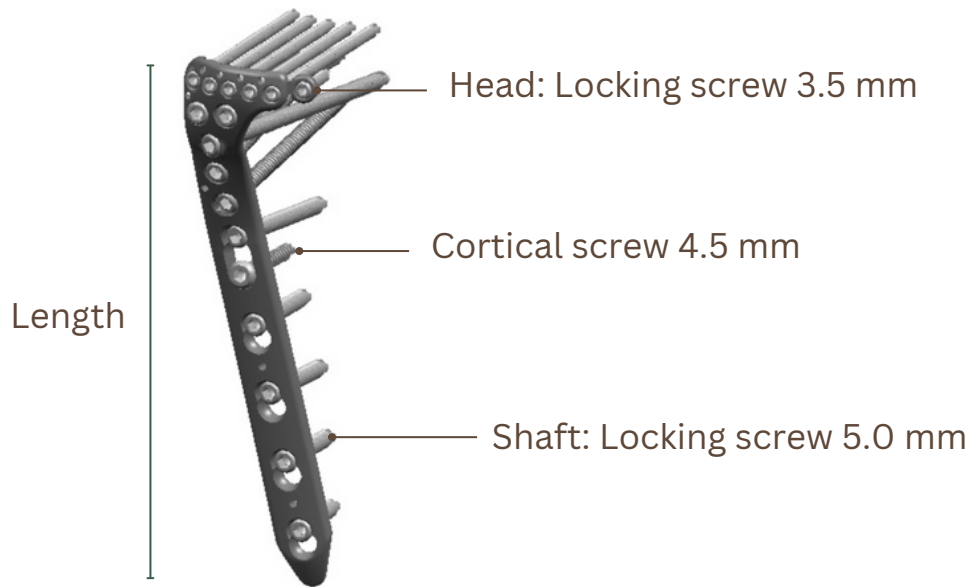
Material: Titanium Alloy (ASTM F136)



Item no./Reference	Head hole	Shaft hole	Side	Length (mm)
DLFLPRT5005	7	5	R	164
DLFLPRT5007	7	7	R	204
DLFLPRT5009	7	9	R	244
DLFLPRT5011	7	11	R	284
DLFLPRT5013	7	13	R	324
DLFLPLT5005	7	5	L	164
DLFLPLT5007	7	7	L	204
DLFLPLT5009	7	9	L	244
DLFLPLT5011	7	11	L	284
DLFLPLT5013	7	13	L	324

# PROXIMAL TIBIA LOCKING PLATE AND SCREW

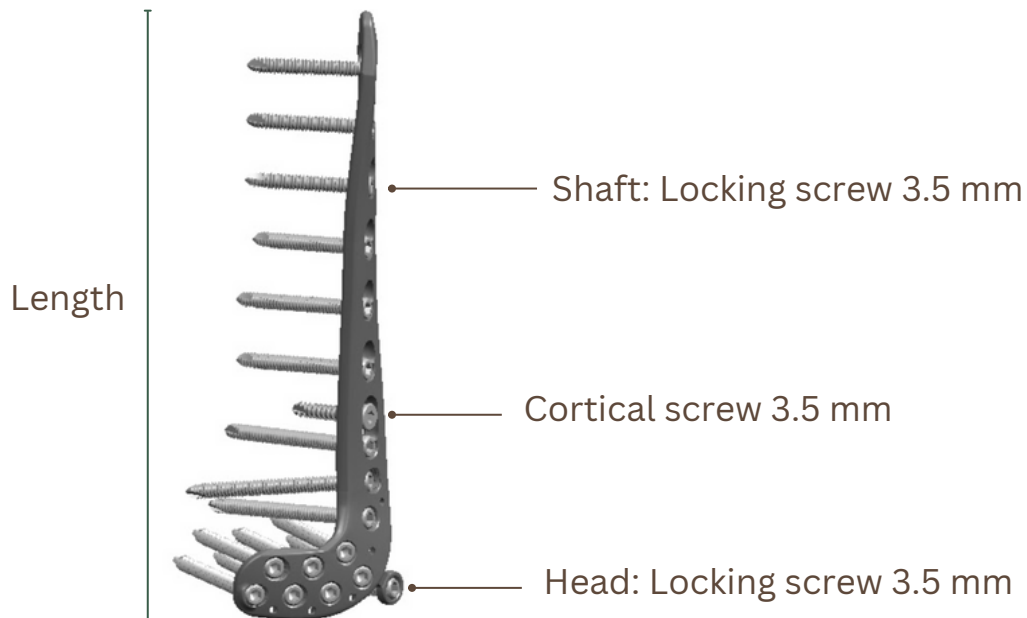
Material: Titanium Alloy (ASTM F136)



Item no./Reference	Head hole	Shaft hole	Side	Length (mm)
PLTLPRT5003	11	3	R	117
PLTLPRT5005	11	5	R	165
PLTLPRT5007	11	7	R	205
PLTLPRT5009	11	9	R	245
PLTLPRT5011	11	11	R	285
PLTLPRT5013	11	13	R	325
PLTLPLT5003	11	3	L	117
PLTLPLT5005	11	5	L	165
PLTLPLT5007	11	7	L	205
PLTLPLT5009	11	9	L	245
PLTLPLT5011	11	11	L	285
PLTLPLT5013	11	13	L	325

# DISTAL TIBIA LOCKING PLATE AND SCREW

Material: Titanium Alloy (ASTM F136)



Item no./Reference	Head hole	Shaft hole	Side	Length (mm)
DLTLPRT35005	8	5	R	84
DLTLPRT35007	8	7	R	110
DLTLPRT35009	8	9	R	137
DLTLPRT35011	8	11	R	164
DLTLPRT35013	8	13	R	191
DLTLPLT35005	8	5	L	84
DLTLPLT35007	8	7	L	110
DLTLPLT35009	8	9	L	137
DLTLPLT35011	8	11	L	164
DLTLPLT35013	8	13	L	191





# SCREW SYSTEM

## • Variable Angle Locking Screw

Material: Titanium Alloy (ASTM F136)

Feature:

- Variable Angle Locking Screw allow for up to 15 degrees of angulation from center
- Fully threaded shaft
- Self-tapping tip

  Ø 2.4 mm	<table border="1"> <thead> <tr> <th>Item no./ Reference</th> <th>Length (mm)</th> </tr> </thead> <tbody> <tr><td>VRT24008</td><td>8</td></tr> <tr><td>VRT24009</td><td>9</td></tr> <tr><td>VRT24010</td><td>10</td></tr> <tr><td>VRT24011</td><td>11</td></tr> <tr><td>VRT24012</td><td>12</td></tr> <tr><td>VRT24013</td><td>13</td></tr> <tr><td>VRT24014</td><td>14</td></tr> <tr><td>VRT24015</td><td>15</td></tr> <tr><td>VRT24016</td><td>16</td></tr> <tr><td>VRT24017</td><td>17</td></tr> <tr><td>VRT24018</td><td>18</td></tr> <tr><td>VRT24019</td><td>19</td></tr> <tr><td>VRT24020</td><td>20</td></tr> <tr><td>VRT24022</td><td>22</td></tr> <tr><td>VRT24024</td><td>24</td></tr> <tr><td>VRT24026</td><td>26</td></tr> <tr><td>VRT24028</td><td>28</td></tr> <tr><td>VRT24030</td><td>30</td></tr> <tr><td>VRT24032</td><td>32</td></tr> <tr><td>VRT24034</td><td>34</td></tr> </tbody> </table>	Item no./ Reference	Length (mm)	VRT24008	8	VRT24009	9	VRT24010	10	VRT24011	11	VRT24012	12	VRT24013	13	VRT24014	14	VRT24015	15	VRT24016	16	VRT24017	17	VRT24018	18	VRT24019	19	VRT24020	20	VRT24022	22	VRT24024	24	VRT24026	26	VRT24028	28	VRT24030	30	VRT24032	32	VRT24034	34	  Ø 3.5 mm	<table border="1"> <thead> <tr> <th>Item no./ Reference</th> <th>Length (mm)</th> </tr> </thead> <tbody> <tr><td>VRT35010</td><td>10</td></tr> <tr><td>VRT35012</td><td>12</td></tr> <tr><td>VRT35014</td><td>14</td></tr> <tr><td>VRT35016</td><td>16</td></tr> <tr><td>VRT35018</td><td>18</td></tr> <tr><td>VRT35020</td><td>20</td></tr> <tr><td>VRT35022</td><td>22</td></tr> <tr><td>VRT35024</td><td>24</td></tr> <tr><td>VRT35026</td><td>26</td></tr> <tr><td>VRT35028</td><td>28</td></tr> <tr><td>VRT35030</td><td>30</td></tr> <tr><td>VRT35032</td><td>32</td></tr> <tr><td>VRT35034</td><td>34</td></tr> <tr><td>VRT35036</td><td>36</td></tr> <tr><td>VRT35038</td><td>38</td></tr> <tr><td>VRT35040</td><td>40</td></tr> <tr><td>VRT35042</td><td>42</td></tr> <tr><td>VRT35044</td><td>44</td></tr> <tr><td>VRT35046</td><td>46</td></tr> <tr><td>VRT35048</td><td>48</td></tr> <tr><td>VRT35050</td><td>50</td></tr> <tr><td>VRT35052</td><td>52</td></tr> <tr><td>VRT35054</td><td>54</td></tr> <tr><td>VRT35056</td><td>56</td></tr> <tr><td>VRT35060</td><td>60</td></tr> </tbody> </table>	Item no./ Reference	Length (mm)	VRT35010	10	VRT35012	12	VRT35014	14	VRT35016	16	VRT35018	18	VRT35020	20	VRT35022	22	VRT35024	24	VRT35026	26	VRT35028	28	VRT35030	30	VRT35032	32	VRT35034	34	VRT35036	36	VRT35038	38	VRT35040	40	VRT35042	42	VRT35044	44	VRT35046	46	VRT35048	48	VRT35050	50	VRT35052	52	VRT35054	54	VRT35056	56	VRT35060	60	<table border="1"> <thead> <tr> <th>Item no./ Reference</th> <th>Length (mm)</th> </tr> </thead> <tbody> <tr><td>VRT35065</td><td>65</td></tr> <tr><td>VRT35070</td><td>70</td></tr> <tr><td>VRT35075</td><td>75</td></tr> <tr><td>VRT35080</td><td>80</td></tr> <tr><td>VRT35085</td><td>85</td></tr> <tr><td>VRT35090</td><td>90</td></tr> </tbody> </table>	Item no./ Reference	Length (mm)	VRT35065	65	VRT35070	70	VRT35075	75	VRT35080	80	VRT35085	85	VRT35090	90
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# SCREW SYSTEM

## • Locking Screw

Material: Titanium Alloy (ASTM F136)

Feature:

- Fixed angle locking screw
- Tapered thread head and fully threaded shaft
- Self-tapping tip



Item no./ Reference	Length (mm)	Item no./ Reference	Length (mm)
TLT35010	10	TLT35065	65
TLT35012	12	TLT35070	70
TLT35014	14	TLT35075	75
TLT35016	16	TLT35080	80
TLT35018	18	TLT35085	85
TLT35020	20	TLT35090	90
TLT35022	22	TLT35095	95
TLT35024	24	TLT35100	100
TLT35026	26		
TLT35028	28		
TLT35030	30		
TLT35032	32		
TLT35034	34		
TLT35036	36		
TLT35038	38		
TLT35040	40		
TLT35042	42		
TLT35044	44		
TLT35046	46		
TLT35048	48		
TLT35050	50		
TLT35052	52		
TLT35054	54		
TLT35056	56		
TLT35060	60		

Item no./ Reference	Length (mm)	Item no./ Reference	Length (mm)
TLT5010	10	TLT5065	65
TLT5012	12	TLT5070	70
TLT5014	14	TLT5075	75
TLT5016	16	TLT5080	80
TLT5018	18	TLT5085	85
TLT5020	20	TLT5090	90
TLT5022	22	TLT5095	95
TLT5024	24	TLT50100	100
TLT5026	26		
TLT5028	28		
TLT5030	30		
TLT5032	32		
TLT5034	34		
TLT5036	36		
TLT5038	38		
TLT5040	40		
TLT5042	42		
TLT5044	44		
TLT5046	46		
TLT5048	48		
TLT5050	50		
TLT5052	52		
TLT5054	54		
TLT5056	56		
TLT5060	60		

# SCREW SYSTEM

## • Cortical Screw

Material: Titanium Alloy (ASTM F136)

Feature:

- Compress plate to the bone
- Fully threaded shaft and self-tapping tip



Item no./ Reference	Length (mm)
CPT27008	8
CPT27009	9
CPT27010	10
CPT27011	11
CPT27012	12
CPT27013	13
CPT27014	14
CPT27015	15
CPT27016	16
CPT27017	17
CPT27018	18
CPT27019	19
CPT27020	20
CPT27022	22
CPT27024	24
CPT27026	26
CPT27028	28
CPT27030	30
CPT27032	32
CPT27034	34



Item no./ Reference	Length (mm)
CPT35010	10
CPT35012	12
CPT35014	14
CPT35016	16
CPT35018	18
CPT35020	20
CPT35022	22
CPT35024	24
CPT35026	26
CPT35028	28
CPT35030	30
CPT35032	32
CPT35034	34
CPT35036	36
CPT35038	38
CPT35040	40
CPT35042	42
CPT35044	44
CPT35046	46
CPT35048	48
CPT35050	50
CPT35055	55
CPT35060	60
CPT35065	65
CPT35070	70
CPT35075	75
CPT35080	80
CPT35085	85
CPT35090	90



Item no./ Reference	Length (mm)
CPT45010	10
CPT45012	12
CPT45014	14
CPT45016	16
CPT45018	18
CPT45020	20
CPT45022	22
CPT45024	24
CPT45026	26
CPT45028	28
CPT45030	30
CPT45032	32
CPT45034	34
CPT45036	36
CPT45038	38
CPT45040	40
CPT45042	42
CPT45044	44
CPT45046	46
CPT45048	48
CPT45050	50
CPT45052	52
CPT45054	54
CPT45056	56
CPT45060	60
CPT45065	65
CPT45070	70
CPT45075	75
CPT45080	80
CPT45085	85
CPT45090	90
CPT45095	95
CPT45100	100