

R. Bone Screws



CE 0123



Manufactured by:
ORTHOFIX Srl
Via Delle Nazioni 9, 37012 Bussolengo (Verona), Italy
Telephone +39 045 6719000, Fax +39 045 6719380

See Manual PM 010 "General Application Instructions", Quick Reference Guide PG 200 "The XCaliber Bone Screws", Quick Reference Guide XC-1903-QR "The XCaliber Cylindrical Bone Screws - Insertion Technique" and Brochure PC OST "OsteoTite Bone Screws Technical Monograph" for additional information.



1. Bone Screws



Total Length (mm)	Thread length (mm)					
	30	40	50	60	70	80 90
90	10160					
100	10162	10163				
110	10110	10100	10101			
120		10164				
130	10139	10114	10141			
150	10142	10165	10102	10111		
160			10143		10166	
170		10144		10145		10167
180			10103	10112		
200			10115	10116		10168



Total Length (mm)	Thread length (mm)		
	20	30	40
70	10190		
80	10191	10108	
100	10135	10136	10105
120	10137	10138	10106



Total Length (mm)	Thread length (mm)	
	20	35
70	10151	
80		10152



Total Length (mm)	Thread length (mm)	
	20	35
70	35100	
80		35101

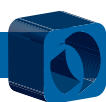
1
Cortical Screws
Shaft Ø 6mm
Thread Ø 6.0-5.0mm
(Drill bit Ø 4.8mm)

2
Cortical Screws
Shaft Ø 6mm
Thread Ø 4.5-3.5mm
(Drill bit Ø 3.2mm)

3
Cortical Screws
Shaft Ø 6mm
Thread Ø 3.5-3.2mm
(Drill bit Ø 2.9mm)

4
Pennig Wrist Cortical Screws
Shaft Ø 4mm
Thread Ø 3.3-3.0mm
(Drill bit Ø 2.7mm)

Note: All screws are also available packaged sterile. They can be ordered using the above code numbers preceded by 99- (e.g. 99-10160)



Bone Screws



Total Length (mm)	Thread length (mm)
70	20
	35156



Total Length (mm)	Thread length (mm)						
	30	40	50	60	70	80	90
110	T10110	T10100					
150			T10102				
110			T10103	T10112			
120	T10612						T10168
130		T10613					



Total Length (mm)	Thread length (mm)		
	20	30	40
70	T10190		
100		T10135	
120			T10137



Total Length (mm)	Thread length (mm)	
	20	35
70	T35100	
80		T35101

5
Pennig Wrist Cortical Screws
 Shaft Ø 4mm
 Thread Ø 3.0-2.5mm
 (Drill bit Ø 2mm)

6
Titanium Cortical Screws
 Shaft Ø 6mm
 Thread Ø 6.0-5.0mm
 (Drill bit Ø 4.8mm)

7
Titanium Cortical Screws
 Shaft Ø 6mm
 Thread Ø 4.5-3.5mm
 (Drill bit Ø 3.2mm)

8
Titanium Pennig Cortical Screws
 Shaft Ø 4mm
 Thread Ø 3.3-3.0mm
 (Drill bit Ø 2.7mm)

Note: The screw is also available packaged sterile. It can be ordered using the above code number preceded by 99- (e.g. 99-35156)



2. Self-Drilling Bone Screws



Total Length (mm)	Thread length (mm)						
	30	40	50	60	70	80	90
150	911530	911540	911550	911560	911570	911580	911590
260	912630	912640	912650	912660	912670	912680	912690



Total Length (mm)	Thread length (mm)			
	40	50	60	80
150	10170	10113		
220	10172	10173	10104	
250				10178



Total Length (mm)	Thread length (mm)
	40
120	10195



Total Length (mm)	Thread length (mm)	
	20	30
60	37100	
70		37101
100		37102



Total Length (mm)	Thread length (mm)				
	15	18	20	25	30
50		M310			
60			M311	M312	M313
70	M321		M314	M315	M316
100					M317

1 Self-drilling XCaliber Screws Shaft Ø 6mm Thread Ø 6.0-5.6mm

Used self-drilling in cancellous bone.
In diaphyseal bone pre-drilling is recommended:

- drill bit Ø 4.8mm when the bone is hard
- drill bit Ø 3.2mm in poor quality bone or in the metaphyseal region

2 Self-drilling Cortical Screws Shaft Ø 6mm Thread Ø 6.0-5.0mm

3 Self-drilling Cortical Screws Shaft Ø 6mm Thread Ø 4.5-3.5mm

4 Pennig Wrist Self-Drilling Cortical Screws Shaft Ø 4mm Thread Ø 3.3-3.0mm (Drill bit Ø 2.7mm)

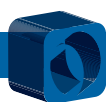
5 Self-drilling Cortical Screws Shaft Ø 3mm Thread Ø 3.0-2.5mm (Drill bit Ø 2mm). For use with the M100 Range

6 Self-drilling Cortical Screws Shaft Ø 3mm Thread Ø 2.5-2.0mm For use with the M100 Range



Total Length (mm)	Thread length (mm)	
	15	20
40	M300	
45		M301

Note: All screws are also available packaged sterile. They can be ordered using the above code numbers preceded by 99- (e.g. 99-911530)



3. Osteotite Bone Screws (with Hydroxyapatite coating)



Total Length (mm)	Thread length (mm)						
	30	40	50	60	70	80	90
90	99-60160						
100	99-60162	99-60163					
110	99-60110	99-60100	99-60101				
120		99-60164					
130	99-60139	99-60114	99-60141				
150	99-60142	99-60165	99-60102	99-60111			
160			99-60143		99-60166		
170		99-60144		99-60145		99-60167	
180			99-60103	99-60112			
200			99-60115	99-60116			99-60168
220	99-60612	99-60613					
250			99-60614	99-60615			



Total Length (mm)	Thread length (mm)		
	20	30	40
120	99-60137	99-60138	99-60106

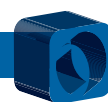


Total Length (mm)	Thread length (mm)	
	20	35
70	99-65100	
80		99-65101

1
OsteoTite Cortical Screws, Sterile
Shaft Ø 6mm
Thread Ø 6.0-5.0mm
(Drill bit Ø 4.8mm)

2
OsteoTite Cortical Screws, Sterile
Shaft Ø 6mm
Thread Ø 4.5-3.5mm

3
OsteoTite Cortical Screws, Sterile
Shaft Ø 4mm
Thread Ø 3.3-3.0mm
(Drill bit Ø 2.7mm)



4. Osteotite Self-Drilling Bone Screws (with Hydroxyapatite coating)



Total Length (mm)	Thread length (mm)						
	30	40	50	60	70	80	90
150				99-60146			
160					99-60147		
170						99-60148	
180							99-60149
220	99-60171	99-60172	99-60173				
250	99-60174						



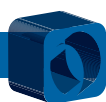
Total Length (mm)	Thread length (mm)						
	30	40	50	60	70	80	90
150 QC	99-611530	99-611540	99-611550	99-611560	99-611570	99-611580	99-611590
260 QC	99-612630	99-612640	99-612650	99-612660	99-612670	99-612680	99-612690

1
OsteoTite Self-drilling Cortical Screws, Sterile
 Shaft Ø 6mm
 Thread Ø 6.0-5.0mm

2
XCaliber Osteotite Bone Screws, Sterile
 Shaft Ø 6mm
 Thread Ø 6.0-5.6mm

Used self-drilling in cancellous bone.
 In diaphyseal bone pre-drilling is recommended:

- drill bit Ø 4.8mm when the bone is hard
- drill bit Ø 3.2mm in poor quality bone or in the metaphyseal region



5. Self-Drilling XCaliber Cylindrical Screws

1



Total Length (mm)	Thread length (mm)									
	25	30	35	40	45	50	60	70	80	90
180 QC	941625	941630	941635	941640	941645	941650	941660	941670	941680*	941690*
260 QC	942625	942630	942635	942640	942645	942650	942660	942670	942680*	942690*

2



Total Length (mm)	Thread length (mm)									
	25	30	35	40	45	50	60	70	80	90
150 QC				944540						
180 QC	941525	941530	941535	941540	941545	941550	941560	941570		
260 QC	942525	942530	942535	942540	942545	942550	942560	942570	942580*	942590*

3



Total Length (mm)	Thread length (mm)				
	20	25	30	35	40
100 QC	943420		943430		943440
120 QC	944420		944430		944440
150 QC	945420	945425	945430	945435	945440
180 QC	946420		946430		946440

4



Total Length (mm)	Thread length (mm)				
	15	20	25	30	35
100 QC		947320	947325		
120 QC	948315	948320	948325	948330	948335

1
Self-Drilling XCaliber Cylindrical Screws
Shaft Ø 6mm
Thread Ø 6mm

2
Self-Drilling XCaliber Cylindrical Screws
Shaft Ø 6mm
Thread Ø 5mm

3
Self-Drilling XCaliber Cylindrical Screws
Shaft Ø 6mm
Thread Ø 4mm

4
Self-Drilling XCaliber Cylindrical Screws
Shaft Ø 4mm
Thread Ø 3mm

Notes: Total length includes AO Connector.
AO Connector length is 25mm

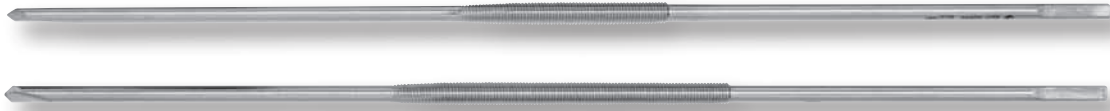
All screws are also available packaged sterile.
They can be ordered using the above code
numbers preceded by 99- (e.g. 99-941630)

* Upon request

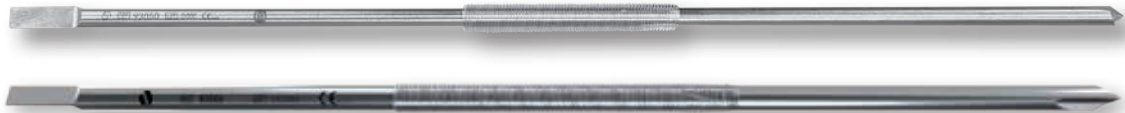


6. Transfixing Pins

1



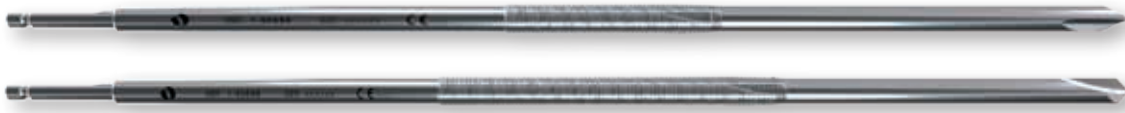
2



3



4



1

Transfixing pin 4mm

92050 Total length 260mm, thread length 50mm, thread Ø 5mm, shaft Ø 4mm

92080 Total length 260mm, thread length 80mm, thread Ø 5mm, shaft Ø 4mm

2

Transfixing pin 6mm

93050 Total length 260mm, thread length 50mm, thread Ø 7mm, shaft Ø 6mm

93080 Total length 260mm, thread length 80mm, thread Ø 7mm, shaft Ø 6mm

3

Transfixing pin 4mm - Quick Connect

1-92050 Total length 260mm, thread length 50mm, thread Ø 5mm, shaft Ø 4mm

1-92080 Total length 260mm, thread length 80mm, thread Ø 5mm, shaft Ø 4mm

4

Transfixing pin 6mm - Quick Connect

1-93050 Total length 260mm, thread length 50mm, thread Ø 7mm, shaft Ø 6mm

1-93080 Total length 260mm, thread length 80mm, thread Ø 7mm, shaft Ø 6mm

Notes: for Quick Connect Pins, total length includes AO Connector.

AO Connector length is 25mm

All screws are also available packaged sterile.

They can be ordered using the above code numbers preceded by 99- (e.g. 99-92050).



7. Instrumentation



1



2



3



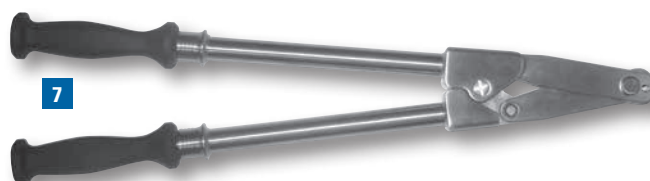
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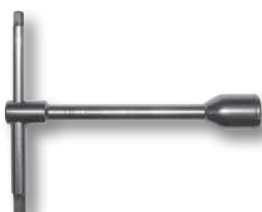
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6



7



8



9



10



11

1 10130 Screw Shaft Ø 6mm

Length 50mm

Used where screw configuration within a clamp is not symmetrical and would lead to unequal stresses being exerted on the individual screws within a cluster. By taking the place of a screw, it balances the load on the clamp cover.

2 10200 Sterilizable Screw Covers

3 35200 Pennig Sterilizable Screw Covers

4 11015 Depth Gauge

For assessment of thread length

5 91120 Hand Drill

For insertion of XCaliber Bone Screws

6 91125 Ruler

7 91101 Bone Screw Cutter

To be used with XCaliber Bone Screws

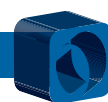
8 91150 Universal T-Wrench

To be used with XCaliber Bone Screws

9 91140 Bone Screw Rack (for sterile screws)

10 11220 Alignment Grid

11 93161 Hand Drill QC



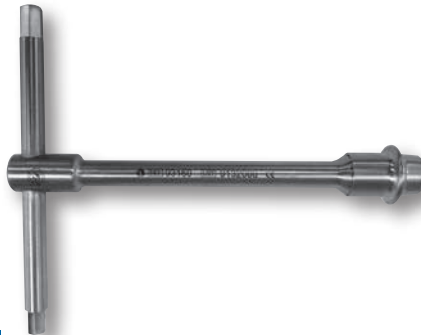
Instrumentation

12



13

15



14

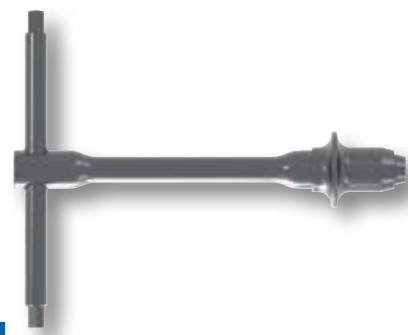


16

17



18



12

X-Wires without olive

11014 Ø 1.5mm, length 250mm

(To be used with 3.2mm Cannulated Drill Bit)

11146 Ø 2mm, length 150mm

(To be used with 4.8mm Cannulated Drill Bit)

13

11000 T-Wrench

Used to insert or remove bone screws

14

99-11013 Cannulated Drill Bit with Wire

Ø 3.2mm length 150mm, sterile

With 1.8mm cannulation

15

93160 Screw T Wrench QC

16

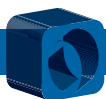
93175 T wrench 4mm shaft

17

M210 T Wrench

18

93162 T-Wrench QC Hexagon 5-5



Instrumentation



19



20



21



22



23



24



25

19

Screw Guides

13103 Length 32mm
11122 Length 45mm
11102 Length 60mm
11137 Length 80mm
11103 Length 100mm
11124 Length 160mm
Screw Guide length depends on soft tissue dimensions

20

Ruland Pilot Wire Guides

Ø 2.0mm
11144 Length 75mm
11145 Length 115mm
For insertion of X-Wires

21

Drill Guides

Ø 2.9mm
13105 Length 20mm

Ø 3.2mm

13104 Length 20mm
11106 Length 40mm
11116 Length 80mm

Ø 4.8mm

11104 Length 40mm
11138 Length 60mm
11105 Length 80mm
11125 Length 140mm

Drill Guide size depends on Drill Bit diameter and Screw Guide length

22

11004 Tapered Trocar

Used within a screw guide to locate an appropriate position on the cortex

23

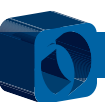
10017 Allen Wrench 6mm

24

30017 Allen Wrench 5mm

25

11111 Hammer
11112 Hammer Interchangeable Head
11117 Hammer Locking Nut



Instrumentation



26



28

27



29

26
10012 Allen Wrench 3mm

27
Drill Bit Stop Units
13005 Ø 2.7/2.9mm
11006 Ø 3.2mm
11005 Ø 4.8mm

28
Drill Bits
Ø 2.9mm
1300101 Length 140mm
For Ø 3.5-3.2mm cortical screws

13001 Drill Bit Kit Ø 2.9mm
Consisting of: 1 Allen Wrench 3mm,
1 Drill Bit Stop Unit Ø 2.7/2.9mm and
1 Drill Bit 140mm

Ø 3.2mm
1300301 Length 140mm
1100301 Length 200mm
For Ø 4.5-3.5mm cortical screws and
for Ø 6.0-5.6mm XCaliber screws in poor

quality diaphyseal bone or in metaphyseal
region

13003, 11003 Drill Bit Kits
Ø 3.2mm
Consisting of: 1 Allen Wrench 3mm,
1 Drill Bit Stop Unit Ø 3.2mm and
1 Drill Bit (140mm in Kit 13003
and 200mm in Kit 11003)

Ø 4.8mm
1100101 Length 180mm
1100201 Length 240mm
1100701 Length 280mm
For Ø 6-5mm cortical screws and
for Ø 6.0-5.6mm XCaliber screws in hard
diaphyseal bone

11001, 11002, 11007 Drill Bit Kits
Ø 4.8mm
Consisting of: 1 Allen Wrench 3mm,
1 Drill Bit Stop Unit Ø 4.8mm and
1 Drill Bit (180mm in Kit 11001;
240mm in Kit 11002 and 280mm
in Kit 11007)

29
Cannulated Drill Bits
Ø 3.2mm
1101301 Length 150mm
1101101 Length 200mm
With 1.8mm cannulation

11013, 11011 Cannulated Drill Bit Kits
Ø 3.2mm
Consisting of: 1 Allen Wrench 3mm,
1 Drill Bit Stop Unit Ø 3.2mm and
1 Cannulated Drill Bit (150mm in Kit
11013; 200mm in Kit 11011)

Ø 4.8mm
1101701 Length 150mm
1101601 Length 250mm
1101201 Length 280mm
With 2.2mm cannulation

11012 Cannulated Drill Bit Kit
Ø 4.8mm
Consisting of: 1 Allen Wrench 3mm,
1 Drill Bit Stop Unit Ø 4.8mm and
1 Cannulated Drill Bit 280mm

