

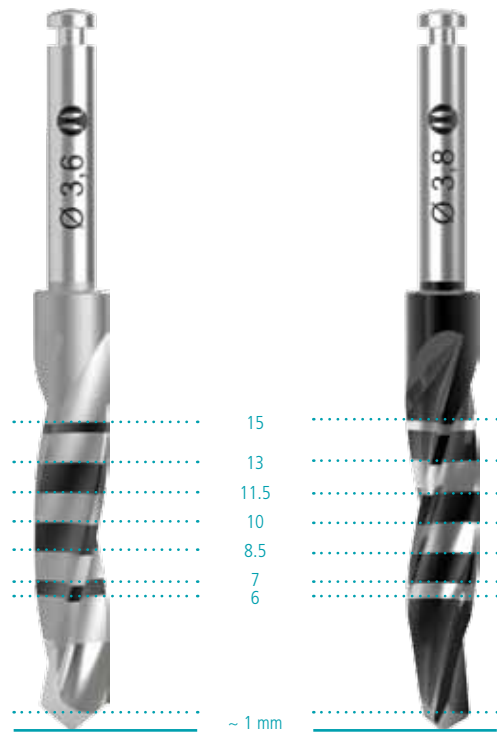


Developed By P-I Brånemark

Surgical Protocol

Surgical Protocol

Drill Markings



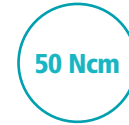
Throughout preparation, coordinated in and out movements of the drills should be applied



Irrigation should be constant and directed the leading edge of the Drills



Only use a torque wrench when at least 3/4 of the implant is inserted in the alveolus



The installation of Functional Implants should not exceed 50 Ncm in any clinical cases.

Internal Grip Drivers must be fully adapted to the implants throughout the insertion, and movements for correcting direction should not be applied.

Torques that exceed the maximum torque indicated, and poorly adapted Internal Grip Drivers can cause unwanted locking of the driver in the implant. (In these cases, a slight counter-torque, without moving the implant, should be applied to remove the Driver).

The removal of the Drivers should always be done along the vertical axis.

See the Instructions for Use prior to installation of products

Warning: The instruments required for surgical preparation, performed by a trained and qualified practitioner, must exhibit ideal conditions regarding physical condition, maintenance, cleanliness and sterilization.



Surgical Sequence

Surgical Sequence | Cylindrical Drill

Ø	Drill	2.2	2.4	2.6	P 2/3	2.8	3.0	3.3	3.6	P 3/4	4.0	4.3	4.6	Dense Drill	
	r.p.m. 600 - 1,200 50		
Implant															
Hexagon with center dot 3.3	✓	(S)	(N)	✓	(D)										VD
Hexagon 3.75	✓			✓	(S)	(N)	(D)								VD
Hexagon with center dot 4.0	✓			✓		(S)	(N)	3.0+	(D)						VD
Circle with center dot 4.8	✓			✓		✓		(S)	✓			(N)	(D)		VD
Hexagon 5.0	✓			✓		✓			✓		(S)	(N)	(D)		VD

(S) = Soft

(N) = Normal

(D) = Dense

(VD) = Very Dense





Surgical Sequence | Conical Drill

Ø	Drill	2.2	2.8	3.4	3.8	4.6	4.8	Dense Drill
	r.p.m.	600 - 1,200						50

Implant	Drill	2.2	2.8	3.4	3.8	4.6	4.8	Dense Drill
Hexagon with center dot 3.3	✓	(S-N-D)						VD
Hexagon 3.75	✓	(S)	(N-D)					VD
Hexagon with center dot 4.0	✓	(S)	*	(N-D)				VD
Circle with center dot 4.8	✓	✓	*	(S)	(N-D)			VD
Hexagon 5.0	✓	✓	*	(S)	*	(N-D)		VD

* Optional

(S) = Soft

(N) = Normal

(D) = Dense

(VD) = Very Dense











Torques

The background features a light grey gradient with several overlapping circles. A large teal circle is on the left, a white circle is in the center, an orange circle is at the bottom, and a grey circle is on the right. The circles overlap in various ways, creating a layered effect.











Recommended Torques

		 Hexagonal Platform			 <i>Amplified</i> [®]			Driver (mm)
		3.5	4.1	5.1	3.5	4.3	5.1	
Implants		≤ 50			≤ 50			Internal grip
Cover Screw		Manual			Manual			1.2
Healing Abutment		Manual			Manual			1.2
Straight Conical Abutment		25	35		25			2.0
Angled Conical Abutment			25		25			1.2
Cemented Cylinder Abutment		25	35		25			1.2



Recommended Torques

	 Hexagonal Platform			 <i>Amplified</i> [®]			Driver (mm)
	3.5	4.1	5.1	3.5	4.3	5.1	
Esthetic Abutment 	25	35		25			1.2
Cylinder on Implant 	25	35		25			1.2
Link 				25			1.2
Prosthesis Cylinders (Conical Abutment) 		15		15			1.2
Transfer copings 		Manual		Manual			1.2

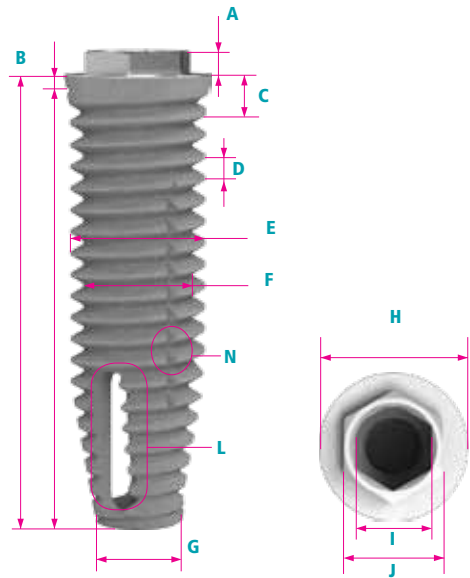


- The torque applied to the screws of Components must not exceed the torque obtained in the final installation of the implants.
- We recommend applying additional torque 5 minutes after the initial torque.



Materials and Dimensions

Functional Implants



$h \geq 10\text{mm}$

Material

Surface

Platform Ø

External Hexagon Ø

Internal Grip / Index Ø

Hexagon Height

Coronal Conical

3.3

3.75

4.0

5.0

3.3

4.0

4.8

Grade IV Titanium (ASTM 67)

Nano or Micro+Nano ($\mu+n$)

H

J

I

A

C

3.5

2.4

1.8

0.7

✓

4.1

2.7

2.1

0.7

✓

4.1

2.7

2.1

0.7

✓

5.1

2.7

2.1

0.7

✓

3.5

2.1

✓

4.3

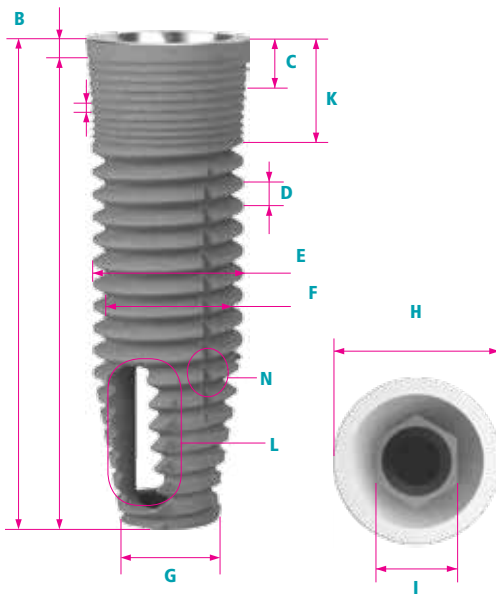
2.1

✓

5.1

2.1

✓



$h < 10\text{mm}$ |
Curtos

Material

Surface

Platform Ø

External Hexagon Ø

Internal Grip / Index Ø

Hexagon Height

Coronal Conical

3.75

4.0

5.0

3.3

4.0

4.8

Grade IV Titanium (ASTM 67)

Nano or Micro+Nano ($\mu+n$)

H

J

I

A

C

4.1

2.7

2.1

0.7

✓

4.1

2.7

2.1

0.7

✓

5.1

2.7

2.1

0.7

✓

3.5

2.1

✓

4.3

2.1

✓

4.8

2.1



✓



Mini-Threads	Body Diameter	Internal Diameter	Thread Pitch	Conical Coronal	Platform Lateral Size	Torque Balance	Thread Entrance	Conical Apex	Apex Diameter (ø)	Chamber Entrance	Platform Switching (ø)
K	E	F	D	C	B	N			G	L	
√	3.3	2.7	0.6	1.3	0.3		1	√	2.3	3	
	3.75	3.1	0.6	1.3	0.3	√	1	√	2.6	3	
	4.0	3.4	0.6	1.3	0.3		1	√	2.9	3	
	5.0	4.4	1.2	1.3	0.3	√	2	√	3.6	3	1.0
√	3.3	2.7	0.6	1.3	0.3	√	1	√	2.3	3	0.7
√	4.0	3.4	0.6	1.3	0.3	√	1	√	2.9	3	0.8
√	4.8	4.2	1.2	1.3	0.3	√	2	√	3.5	3	1.6

Mini-Threads	Body Diameter	Internal Diameter	Thread Pitch	Conical Coronal	Platform Lateral Size	Torque Balance	Thread Entrance	Conical Apex	Apex Diameter (ø)	Chamber Entrance	Platform Switching (ø)
K	E	F	D	C	B	N			G	L	
	3.75	3.1	0.6	1.3	0.3		1	√	2.7	4	
	4.0	3.4	0.6	1.3	0.3		1	√	3.0	4	
	5.0	4.4	1.2	1.3	0.3		2	√	3.4	4	1.0
√	3.3	2.7	0.6	1.3	0.3		1	√	2.3	4	0.7
√	4.0	3.4	0.6	1.3	0.3		1	√	3.0	4	0.8
√	4.8	4.2	1.2	1.3	0.3		2	√	3.4	4	1.6

Materials | Prosthesis Components

	Material	 Hexagonal Platform	 Amplified®
Cover screw	Titanium	Grade IV	Grade IV
Healing abutment	Titanium	Grade IV	Grade IV
Straight Conical Abutment	Titanium	Grade IV	Grade V
Angled Conical Abutment	Titanium	Grade V	Grade V
Abutment - Cemented Cylinder	Titanium	Grade IV	Grade V
Esthetic Abutment	Titanium	Grade IV	Grade V
Cylinders			
. Titanium	Titanium	Grade IV	Grade V
. Cobalt-Chromium	Cobalt-Chromium-Molybdenum	CoCrMo	CoCrMo
. Calcinable	Polymer	Polymer	Polymer
Link			Grade V
Copings			
. Transfer	Titanium	Grade V	Grade V
. Calcinable	Polymer	Polymer	Polymer
Healing Caps	Polymer	Polymer	Polymer
Analogs	Titanium	Grade V	Grade V
Screws	Titanium	Grade V	Grade V
Drills			
. Cylindrical	Stainless Steel		
. Conical	Stainless Steel + DLC		
. Dense Drill	Stainless Steel		
Drivers	Stainless Steel		
Organizers	Stainless Steel/Polymer		

According to ASTM F67, F136, F1537, and F899 Norms

Melting Temperatures

Cobalt-Chromium-Molybdenum	1.390 °C 2.535 °F
Calcinable Polymer	165 °C 330 °F

* Pre-fabricated components present superior fit when compared to burnout modified components.



Developed By P-I Bränemark

www.pibranemark.com