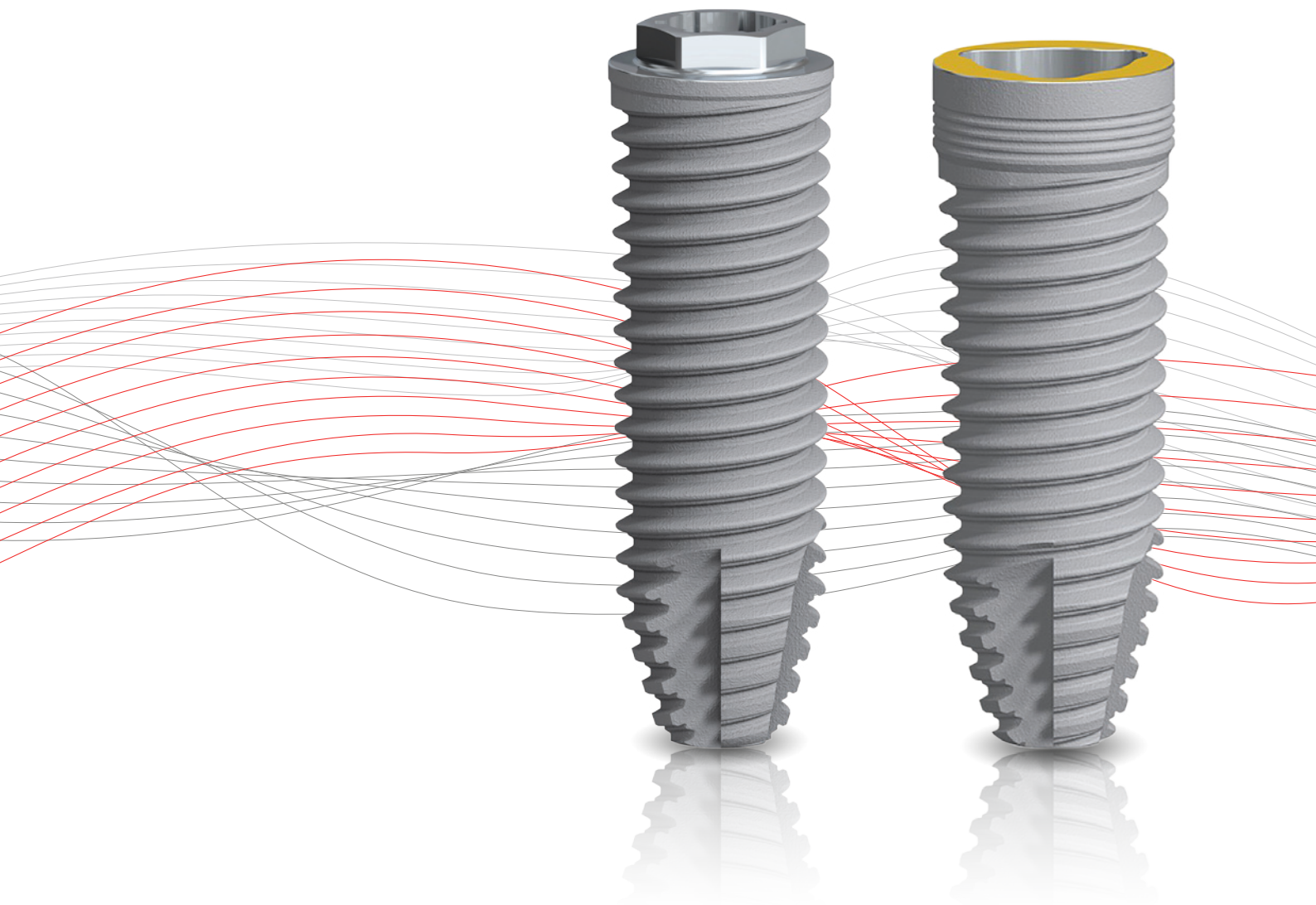


# NobelSpeedy® Groovy and NobelSpeedy® Replace Procedures manual



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# Quick guide

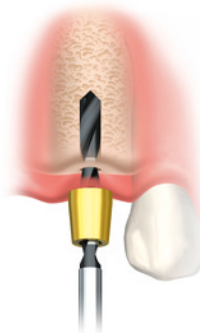
**Note:** This quick guide shows the placement of a NobelSpeedy Groovy RP  $\varnothing$  4 mm implant in medium bone density.

## Flap technique

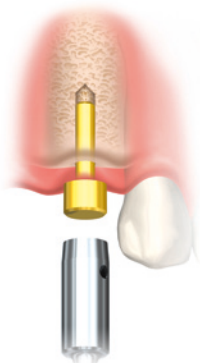


## Flapless technique

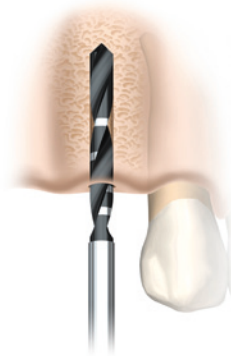
Drill Guide/Twist Drill with Tip  $\varnothing$  2 mm



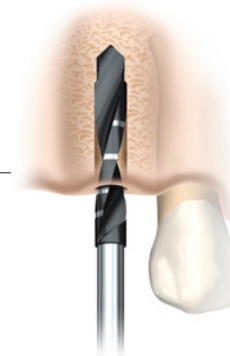
Tissue Punch/Tissue Punch Guide



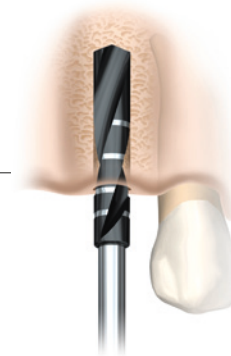
Twist Drill with Tip  
 $\varnothing$  2.0 mm



Twist Step Drill  
 $\varnothing$  2.4/2.8 mm



Twist Drill  
 $\varnothing$  3.2 mm



Implant placement

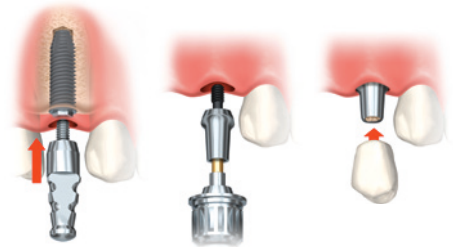
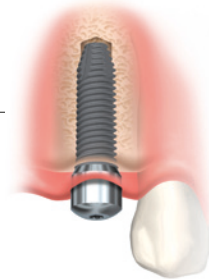
Two-stage  
delayed function



One-stage  
immediate function



One-stage  
delayed function



# NobelSpeedy® Groovy and NobelSpeedy® Replace

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## High initial stability supports immediate function

- Fully threaded from head to apex for maximum engagement.
- Slightly tapered body and conical apex allow for underpreparation and bicortical anchorage.

---

## Time-efficient

Short drilling protocol reduces chair-time.

---

## Enhanced osseointegration

Unique oxidized TiUnite surface with grooves (Groovy) increases implant stability through faster bone formation and ensures long-term success.



---

## Exceptional flexibility

- External and internal connection with comprehensive prosthetic assortments.
- Complete range of diameters and lengths, including narrow diameter and short implants.



NobelSpeedy  
Groovy NP  
Ø 3.3mm



NobelSpeedy  
Shorty

---

## Ideal for edentulous cases

The original and widely documented implant for the All-on-4 solution.

### Optimal stability in all bone qualities

- Slightly tapered two-piece self-tapping implant system.
- Specially designed for high implant stability in soft bone.
- Sharp apex allows for underpreparation and cuts through grafted or locally dense bone.
- Double-lead threads for fast implant insertion.
- For one- and two-stage surgical procedures.

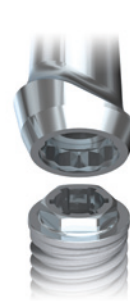


### One implant body, two prosthetic connections

Comprehensive range of prefabricated and individualized restorations, providing precision of fit and excellent esthetics.

#### External hex connection

- Unmatched prosthetic versatility with a choice of 6 to 12 positions (depending on the abutment).
- Short crown-to-first-thread distance, ideal for use with thin marginal soft tissue.



External hex connection



Internal tri-channel connection

#### Internal tri-channel connection

- Three channels ensure accurate placement of the abutment in 120° increments.
- Unrivalled tactile feel when positioning the prosthetic components, aiding correct and secure placement even in locations with poor visibility.
- Color-coded implants and prosthetic components for accurate and fast identification.




# Platform concept

## Platforms

To facilitate treatment planning, clinical procedures, and component identification, implants are organized according to a “platform concept”.





The platform marking corresponds to the implant-abutment interface.

### NobelSpeedy® Groovy

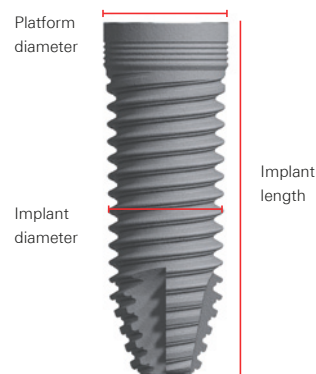
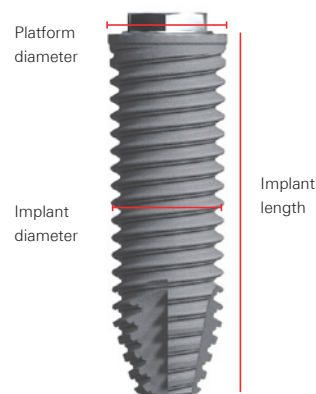
Platform	Platform diameter	Implant diameter	Lengths
	Ø 3.5	Ø 3.3	10, 11.5, 13, 15
	Ø 4.1	Ø 4.0	7, 8.5, 10, 11.5, 13, 15, 18
	Ø 5.1	Ø 5.0 Ø 6.0	7, 8.5, 10, 11.5, 13, 15, 18 7, 8.5, 10, 11.5, 13, 15, 18

All measurements in mm.

### NobelSpeedy® Replace

Platform	Platform diameter	Implant diameter	Lengths
	Ø 3.5	Ø 3.5	10, 11.5, 13, 15
	Ø 4.3	Ø 4.0	10, 11.5, 13, 15, 18
	Ø 5.0	Ø 5.0	10, 11.5, 13, 15, 18
	Ø 6.0	Ø 6.0	10, 11.5, 13, 15, 18

All measurements in mm.





# Important considerations for implant placement

NobelSpeedy is an endosseous threaded dental implant made from biocompatible commercially pure grade 4 titanium with TiUnite surface.

## Indications

Oral implants are to be integrated in the jaw bone (osseointegration) and used for anchoring or supporting tooth replacements in either jaw. Restorations range from a single tooth to a fixed/removable full dental arch or overdenture applications to restore chewing function.

## Contraindications

It is contraindicated placing dental implants in patients:

- Medically unfit for an oral surgical procedure.
- With inadequate bone volume unless an augmentation procedure can be considered.
- In whom adequate size, number or desirable position of implants cannot be achieved to provide safe support of functional or eventually parafunctional loads.

**Narrow platform:** Limited inter-dental space. Not enough alveolar bone for an RP implant.

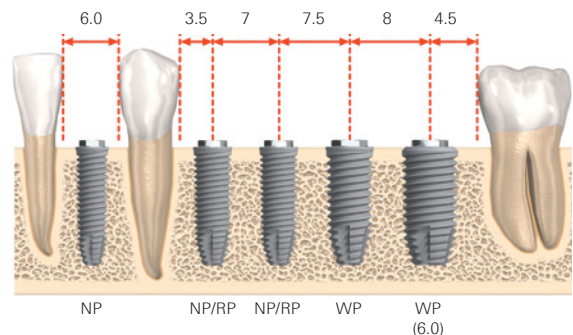
**Regular platform:** From single anterior tooth loss to full-arch restorations.

**Wide platform:** Where additional loading can be expected. Wider diameter implant/abutment post to build “molar-sized” crown. For higher initial stability in soft bone.

**6.0:** Wider diameter implant/abutment post to build “molar-sized” crowns and larger anterior teeth. Best suited for maxillary incisors and cuspids, as well as maxillary and mandibular molars.

## Minimal distances

Approximate minimal distances between implants (in mm) for restorative simplicity taking the average size of the final restoration (incisors, canines, premolars and molars) into account.



# TiUnite® surface

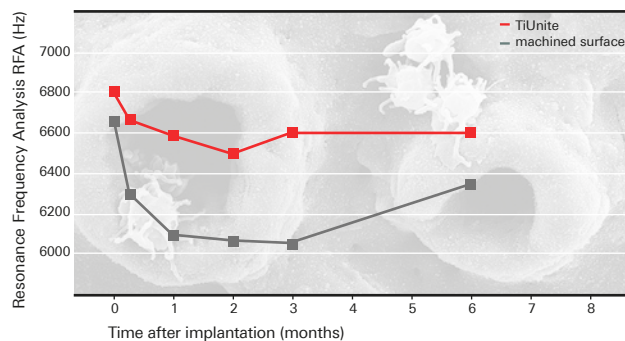
## A unique surface

TiUnite is a moderately rough thickened titanium oxide layer with high crystallinity and phosphorus content. Its ceramic-like properties and micropores ensure high osteoconductivity and fast anchorage to the collagen matrix.

## Proven to perform

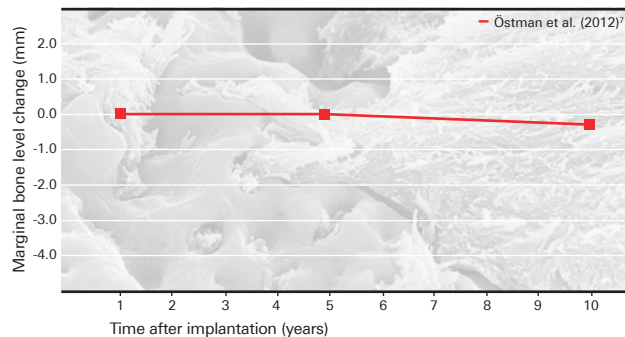
- Proven longevity with clinical follow-up data of 10 and more years.<sup>6,7,11</sup>
- High performance under the most challenging conditions including soft bone and immediate loading.<sup>1,2,9,12,13,14,16</sup>
- Stability maintained at a high level during the critical healing phase after implant insertion due to enhanced osseointegration and anchorage in surrounding bone.<sup>3,4,5</sup>
- Stable marginal bone levels after the initial bone remodeling phase and over the long term.<sup>6,7,11,15</sup>
- Soft tissue defense morphology behaves similarly to soft tissue around a natural tooth.<sup>8</sup>
- Long-term success with cumulative survival rates of 97.1 – 99.2% after more than 10 years.<sup>6, 7,11</sup>

## High stability in the critical healing phase



Higher stability with immediately loaded implants with TiUnite surface than with the same implants with machined surface in the posterior maxilla.<sup>3</sup>

## Stable marginal bone levels over the long term



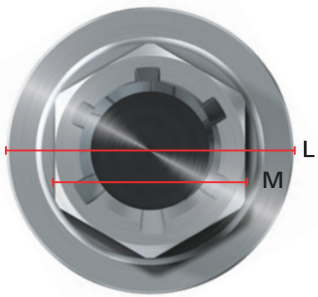
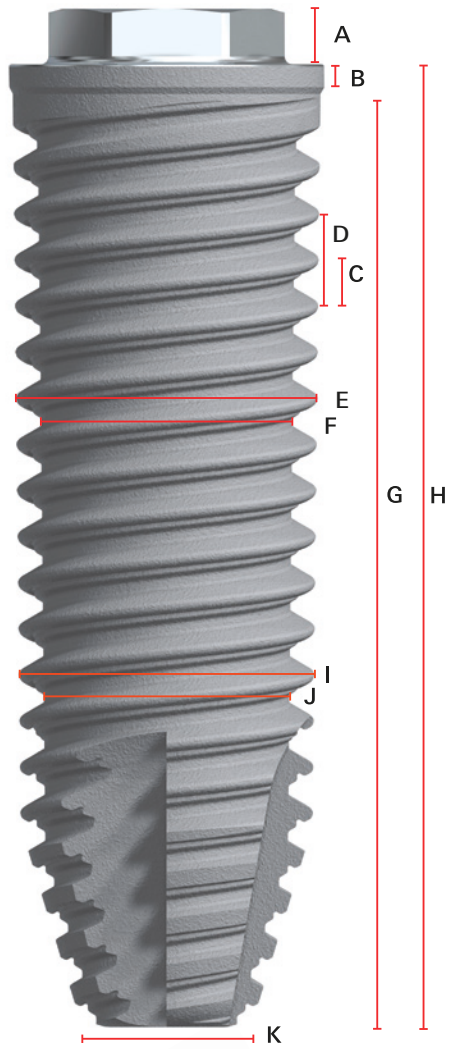
Stable marginal bone levels after initial remodeling. Baseline adjusted at year 1.

SEM images courtesy of Dr. Peter Schüpbach, Switzerland.

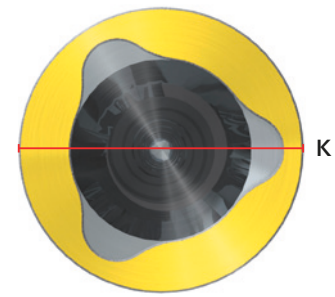
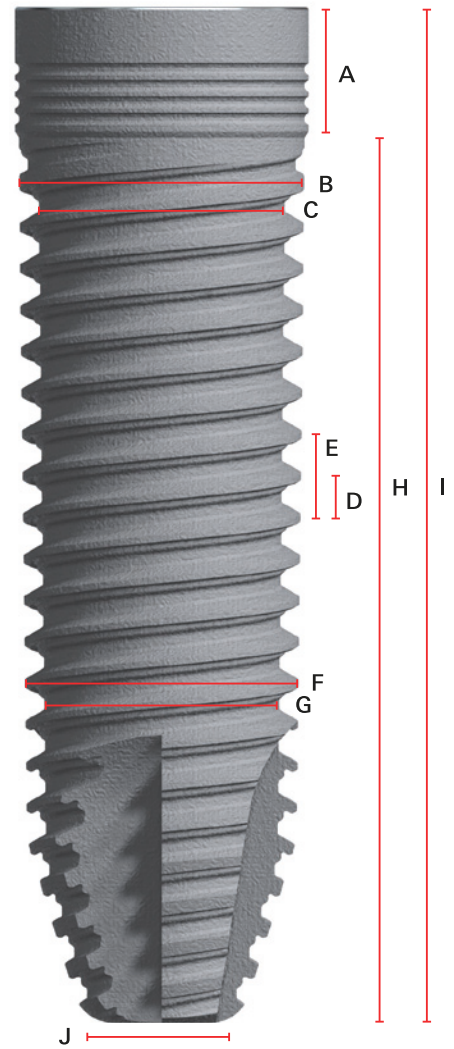
<sup>1</sup> Glauser R. Implants with an Oxidized Surface Placed Predominately in Soft Bone Quality and Subjected to Immediate Occlusal Loading: Results from a 7-Year Clinical Follow-Up. Clin Implant Dent Relat Res 2011 [Epub ahead of print]. <sup>2</sup> Liddel G and Henry P. The immediately loaded single implant-retained mandibular overdenture: a 36-month prospective study. Int J Prosthodont 2010; 23:13-21. <sup>3</sup> Glauser R, Portmann M, Ruhstaller P, Lundgren AK, Hammerle CH, Gottlow J. Stability measurements of immediately loaded machined and oxidized implants in the posterior maxilla. A comparative clinical study using resonance frequency analysis. Applied Osseointegration Research 2001; 2:27-9. <sup>4</sup> Zechner W, Tangl S, Furst G, Tepper G, Thams U, Mailath G, Watzek G. Osseous healing characteristics of three different implant types. Clin Oral Implants Res 2003; 14:150-7. <sup>5</sup> Ivanoff CJ, Widmark G, Johansson C, Wennerberg A. Histologic evaluation of bone response to oxidized and turned titanium micro-implants in human jawbone. Int J Oral Maxillofac Implants 2003;18:341-8. <sup>6</sup> Degidi M, Nardi D, and Piattelli A, 10-Year Follow-Up of Immediately Loaded Implants with TiUnite Porous Anodized Surface. Clin Implant Dent Relat Res 2012 [Epub ahead of print]. <sup>7</sup> Östman PO, Hellman M, Sennerby L. Ten years later. Results from a prospective single-centre clinical study on 121 oxidized (TiUnite) Brånemark implants in 46 patients. Clin Implant Dent Relat Res 2012 [Epub ahead of print]. <sup>8</sup> Schüpbach P, Glauser R. The defense architecture of the human periimplant mucosa: a histological study. J Prosthet Dent 2007; 97(6 Suppl):15-25. <sup>9</sup> Mura P. Immediate Loading of Tapered Implants Placed in Postextraction Sockets: Retrospective Analysis of the 5-Year Clinical Outcome. Clin Implant Dent Relat Res [Epub ahead of print]. <sup>10</sup> Rieben AS, Alifanz J, Jannu AS. Survival rates of implants with a highly crystalline phosphate enriched surface – a literature review [#191], in 20th Annual Scientific Congress of the European Association for Osseointegration, 2011: Athens, Greece. <sup>11</sup> Glauser R. Eleven-year results of implants with an oxidized surface placed predominantly in soft bone and subjected to immediate occlusal loading. Clin Oral Implants Res 2012;23 suppl 7;140-1. <sup>12</sup> McAllister BS, Cherry JE, Kolinski ML, Parrish KD, Pumphrey DW, Schroering RL. Two-year Evaluation of a Variable-Thread Tapered Implant in Extraction Sites with Immediate Temporization: A Multicenter Clinical Trial. Int J Oral Maxillofac Implants 2012; 27:611-8. <sup>13</sup> Rocci A, Martignoni M, Gottlow J. Immediate loading of Brånemark System TiUnite and machined-surface implants in the posterior mandible: a randomized open-ended clinical trial. Clin Implant Dent Relat Res 2003; 5 suppl 1:57-63. <sup>14</sup> Marzola R, Scotti R, Fazi G, Schincaglia GP. Immediate loading of two implants supporting a ball attachment-retained mandibular overdenture: a prospective clinical study. Clin Implant Dent Relat Res 2007; 9:136-43. <sup>15</sup> Nickenig H, Wichmann M, Schlegel K, Nkenke E, Eitner S. Radiographic evaluation of marginal bone levels adjacent to parallel-screw cylinder machined-neck implants and rough-surfaced micro-threaded implants using digitized panoramic radiographs. Clin Oral Implants Res 2009;20:550-4. <sup>16</sup> Arnhart C, Kiehlbassa AM, Martinez-de Fuentes R, Goldstein M, Jackowski J, Lorenzoni M, Maiorana C, Mericske-Stern R, Pozzi A, Rompen E, Sanz M, Strub JR. Comparison of variable-thread tapered implant designs to a standard tapered implant design after immediate loading. A 3-year multicentre randomised controlled trial. Eur J Oral Implantol. 2012;5:123-36

# Implant specifications

NobelSpeedy® Groovy



NobelSpeedy® Replace



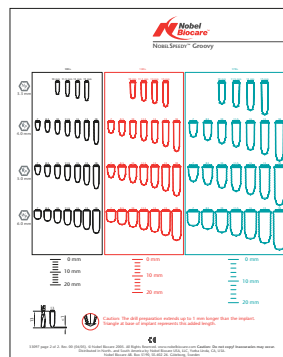
### NobelSpeedy® Groovy

Platform		A	B	C	D	E	F	G	H	I	J	K	L	M
		Hex height	Collar height	Thread spacing	Thread pitch	Major diameter 1	Minor diameter 1	Threaded length	Length	Major diameter 2	Minor diameter 2	Tip diameter	Collar diameter	Hex width
double-lead thread*														
NP	3.3x10mm	0.7	0.3	0.5	1.0	3.35	2.85	9.23	9.5	3.15	2.65	1.8	3.5	2.4
	3.3x11.5mm	0.7	0.3	0.5	1.0	3.35	2.85	10.73	11.0	3.15	2.65	1.8	3.5	2.4
	3.3x13mm	0.7	0.3	0.5	1.0	3.35	2.85	12.23	12.5	3.15	2.65	1.8	3.5	2.4
	3.3x15mm	0.7	0.3	0.5	1.0	3.35	2.85	14.23	14.5	3.15	2.65	1.8	3.5	2.4
RP	Shorty	0.7	0.3	0.6	1.2	4.0	3.36	6.23	6.5	3.8	3.16	2.2	4.1	2.7
	4x8.5mm	0.7	0.3	0.6	1.2	4.0	3.36	7.73	8.0	3.8	3.16	2.2	4.1	2.7
	4x10mm	0.7	0.3	0.6	1.2	4.0	3.36	9.23	9.5	3.8	3.16	2.2	4.1	2.7
	4x11.5mm	0.7	0.3	0.6	1.2	4.0	3.36	10.73	11.0	3.8	3.16	2.2	4.1	2.7
	4x13mm	0.7	0.3	0.6	1.2	4.0	3.36	12.23	12.5	3.8	3.16	2.2	4.1	2.7
	4x15mm	0.7	0.3	0.6	1.2	4.0	3.36	14.23	14.5	3.8	3.16	2.2	4.1	2.7
	4x18mm	0.7	0.3	0.6	1.2	4.0	3.36	17.23	17.5	3.8	3.16	2.2	4.1	2.7
WP	Shorty	0.7	0.3	0.8	1.6	4.93	4.09	6.23	6.5	4.73	3.89	2.7	5.1	3.4
	5x8.5mm	0.7	0.3	0.8	1.6	4.93	4.09	7.73	8.0	4.73	3.89	2.7	5.1	3.4
	5x10mm	0.7	0.3	0.8	1.6	4.93	4.09	9.23	9.5	4.73	3.89	2.7	5.1	3.4
	5x11.5mm	0.7	0.3	0.8	1.6	4.93	4.09	10.73	11.0	4.73	3.89	2.7	5.1	3.4
	5x13mm	0.7	0.3	0.8	1.6	4.93	4.09	12.23	12.5	4.73	3.89	2.7	5.1	3.4
	5x15mm	0.7	0.3	0.8	1.6	4.93	4.09	14.23	14.5	4.73	3.89	2.7	5.1	3.4
	5x18mm	0.7	0.3	0.8	1.6	4.93	4.09	17.23	17.5	4.73	3.89	2.7	5.1	3.4
WP 6.0	Shorty	0.7	0.4	0.8	1.6	5.93	5.09	6.1	6.5	5.73	4.89	3.8	5.1	3.4
	6x8.5mm	0.7	0.4	0.8	1.6	5.93	5.09	7.6	8.0	5.73	4.89	3.8	5.1	3.4
	6x10mm	0.7	0.4	0.8	1.6	5.93	5.09	9.11	9.5	5.73	4.89	3.8	5.1	3.4
	6x11.5mm	0.7	0.4	0.8	1.6	5.93	5.09	10.61	11.0	5.73	4.89	3.8	5.1	3.4
	6x13mm	0.7	0.4	0.8	1.6	5.93	5.09	12.11	12.5	5.73	4.89	3.8	5.1	3.4
	6x15mm	0.7	0.4	0.8	1.6	5.93	5.09	14.11	14.5	5.73	4.89	3.8	5.1	3.4
	6x18mm	0.7	0.4	0.8	1.6	5.93	5.09	17.11	17.5	5.73	4.89	3.8	5.1	3.4

All measurements in mm. Sectional measurements do not necessarily add up to total length.  
 \* The implants move twice the thread spacing with each rotation.

### Radiographic template

Used with radiographic imaging as a guide for selecting the correct implant size.



### NobelSpeedy® Replace

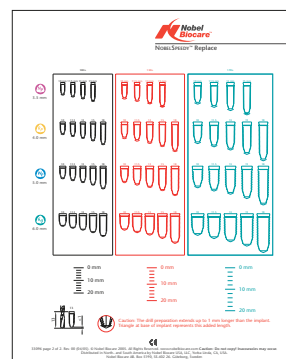
Platform		A	B	C	D	E	F	G	H	I	J	K
		Collar height	Major diameter 1	Minor diameter 1	Thread spacing	Thread pitch	Major diameter 2	Minor diameter 2	Threaded length	Overall length	Tip diameter	Collar diameter
double-lead thread*												
<b>NP</b>	3.5x10mm	1.5	3.51	3.01	0.5	1.0	3.31	2.81	7.75	9.25	1.9	3.5
	3.5x11.5mm	1.5	3.51	3.01	0.5	1.0	3.31	2.81	9.25	10.75	1.9	3.5
	3.5x13mm	1.5	3.51	3.01	0.5	1.0	3.31	2.81	10.75	12.25	1.9	3.5
	3.5x15mm	1.5	3.51	3.01	0.5	1.0	3.31	2.81	12.75	14.25	1.9	3.5
<b>RP</b>	4x10mm	1.5	4.1	3.46	0.6	1.2	3.9	3.26	7.75	9.25	2.2	4.3
	4x11.5mm	1.5	4.1	3.46	0.6	1.2	3.9	3.26	9.25	10.75	2.2	4.3
	4x13mm	1.5	4.1	3.46	0.6	1.2	3.9	3.26	10.75	12.25	2.2	4.3
	4x15mm	1.5	4.1	3.46	0.6	1.2	3.9	3.26	12.75	14.25	2.2	4.3
	4x18mm	1.5	4.1	3.46	0.6	1.2	3.9	3.26	15.75	17.25	2.2	4.3
<b>WP</b>	5x10mm	1.5	4.9	4.26	0.8	1.6	4.7	4.06	7.75	9.25	2.7	5.0
	5x11.5mm	1.5	4.9	4.26	0.8	1.6	4.7	4.06	9.25	10.75	2.7	5.0
	5x13mm	1.5	4.9	4.26	0.8	1.6	4.7	4.06	10.75	12.25	2.7	5.0
	5x15mm	1.5	4.9	4.26	0.8	1.6	4.7	4.06	12.75	14.25	2.7	5.0
	5x18mm	1.5	4.9	4.26	0.8	1.6	4.7	4.06	15.75	17.25	2.7	5.0
<b>6.0</b>	6x10mm	1.5	5.9	5.26	0.8	1.6	5.7	5.06	7.75	9.25	3.8	6.0
	6x11.5mm	1.5	5.9	5.26	0.8	1.6	5.7	5.06	9.25	10.75	3.8	6.0
	6x13mm	1.5	5.9	5.26	0.8	1.6	5.7	5.06	10.75	12.25	3.8	6.0
	6x15mm	1.5	5.9	5.26	0.8	1.6	5.7	5.06	12.75	14.25	3.8	6.0
	6x18mm	1.5	5.9	5.26	0.8	1.6	5.7	5.06	15.75	17.25	3.8	6.0

All measurements in mm. Sectional measurements do not necessarily add up to total length.

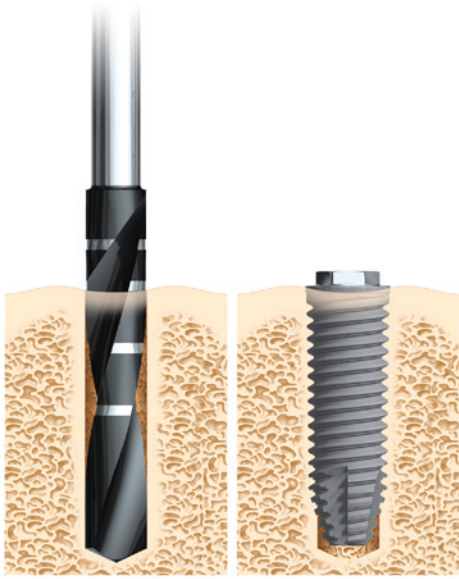
\* The implants move twice the thread spacing with each rotation.

### Radiographic template

Used with radiographic imaging as a guide for selecting the correct implant size.



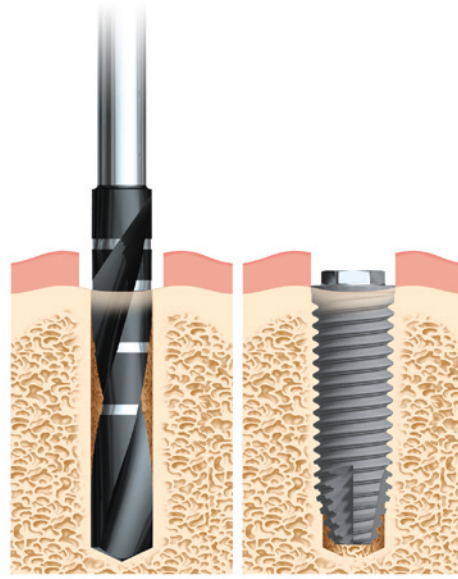
## Surgical access



### Standard flap procedure

Used when it is necessary:

- to observe the underlying alveolar bone and adjacent anatomical structures.
- to place bone and/or connective tissue grafts.



### Flapless procedure

May be used when:

- there is sufficient quantity and quality of alveolar bone and soft tissue.
- it is not necessary to raise a flap to safely direct drilling procedure in relation to the anatomy.

### Notes:

- When using a flapless approach add soft tissue height to drill depth.
- Confirm available bone and significant anatomical landmarks, such as blood vessels, nerves, and concavities. Use conventional diagnostic tools, such as radiographic imaging, probing and palpation, and 3D imaging if indicated.

# Drilling sequence

## Drill technique

The twist and twist step drills are made of stainless steel with an amorphous diamond coating, which gives them their black color. The drills should be used together with copious external irrigation.

- Use an in-and-out motion and drill in bone for 1 to 2 seconds.
- Move the drill up without stopping handpiece motor. This also allows the irrigation to flush away debris.
- Proceed until desired depth is reached in accordance with bone quality and implant diameter.

## Notes:

- Twist, twist step drills, counterbores and screw taps are disposable and should be used for one surgery only.
- Do not re-sterilize disposable drills.
- The twist and twist step drills together with the drilling protocol allow for underpreparation in soft bone for enhanced stability, and provide a passive fit in dense bone.
- In common indications, there is the possibility of fewer drilling steps.
- Stop drilling if there is no irrigation.
- A drill extension shaft may be used to facilitate the procedure. If the drill extension shaft is used together with the drill, external irrigation at the contra-angle should be supplemented. Only use the drill extension shaft with drills.

**Tip:** Irrigate the site with saline solution (using a syringe) to remove bone chips before using the next drill.

## Product reference lines



## Depth measurement system

The parallel drills have a true depth measurement system: all drills and components are marked to prepare the site to the correct depth and obtain a secure and predictable position.

**Caution:** The drill preparation is up to 1 mm longer than the implant. Allow for this additional length when drilling near vital anatomical structures.

**Note:** The marks on the twist drills indicate actual millimeter lengths and correspond to the top of the implant collar. Final vertical positioning depends on several clinical parameters, including esthetics, tissue thickness and available vertical height.

## Drilling protocols according to bone quality

### NobelSpeedy® Groovy

Platform	Ø Implant	Soft bone	Medium bone	Dense bone
NP	3.3	Ø 2.0	Ø 2.0	Ø 2.0 Ø 2.4/2.8
RP	4.0	Ø 2.0 (Ø 2.4/2.8)	Ø 2.0 Ø 2.4/2.8 Ø 3.2	Ø 2.0 Ø 2.4/2.8 Ø 3.4
WP	5.0	Ø 2.0 Ø 2.4/2.8 Ø 3.0	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6 Ø 3.8/4.2
WP	6.0	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6 Ø 3.8/4.2	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6 Ø 3.8/4.2 Ø 5.0

All data in mm.

### NobelSpeedy® Replace

Platform	Ø Implant	Soft bone	Medium bone	Dense bone
NP	3.5	Ø 2.0	Ø 2.0 Ø 2.4/2.8	Ø 2.0 Ø 2.4/2.8
RP	4.0	Ø 2.0 (Ø 2.4/2.8)	Ø 2.0 Ø 2.4/2.8 Ø 3.2	Ø 2.0 Ø 2.4/2.8 Ø 3.4
WP	5.0	Ø 2.0 Ø 2.4/2.8 Ø 3.0	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6 Ø 3.8/4.2
WP	6.0	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6 Ø 3.8/4.2	Ø 2.0 Ø 2.4/2.8 Ø 3.2/3.6 Ø 3.8/4.2 Ø 5.0

All data in mm.

### Notes:

- Drills within brackets (–) denote widening of the cortex only. Counterbores and screw taps are available if deemed necessary.
- For NP implants in extremely soft bone, a Ø 1.5 mm Twist Drill is available.



### Flap procedure

When using a flap procedure, make an incision and raise a flap.

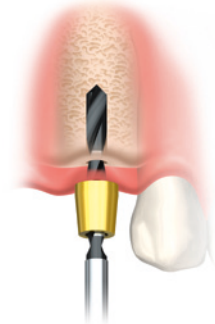


### Flapless procedure: option A

#### Determine implant position

- Drill through gingival tissue and into alveolar crest with the Twist Drill with Tip  $\varnothing$  2 mm.
- Use the Drill Guide to aid proper positioning.
- Drill to 15 mm drill line (measured in relation to the top of the drill guide) for implants 13 mm or longer.


Maximum speed  2000 rpm

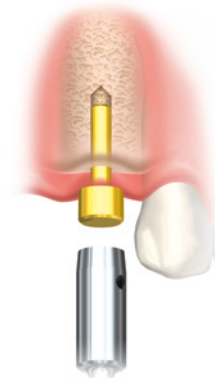
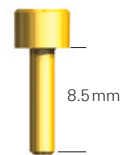


#### Punch the soft tissue

- Insert the appropriate size Tissue Punch Guide into the  $\varnothing$  2 mm pilot hole.
- Connect the Tissue Punch to the contra-angle head and place the punch over the punch guide.
- Using high speed, cut through soft tissue down to the crest.
- Using a scalpel, cut around the tissue plug perpendicular to the alveolar crest to release the tissue plug from the alveolar crest.

**Note:** This technique is recommended only if there is a sufficient amount of attached mucosa. After punching, there should be at least 1 mm of attached mucosa available around the surgical entrance and later around the abutment.

Maximum speed  800 rpm

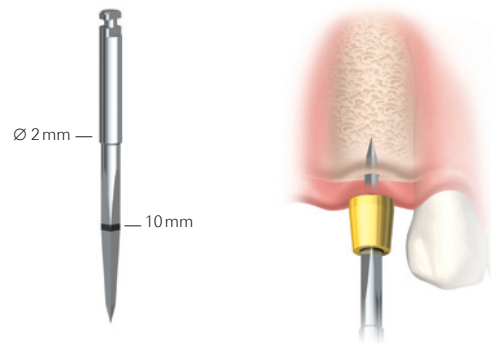


**Flapless procedure: option B**

**Use precision drill**

- To facilitate initial soft tissue penetration and creation of a crestal starting point (also after flap preparation), the Precision Drill can be used before Twist Drill with Tip  $\varnothing$  2 mm.
- Drill with the precision drill through soft tissue and into the alveolar crest.
- Use the Drill Guide to aid proper positioning when using the flapless approach.

Maximum speed  2000 rpm

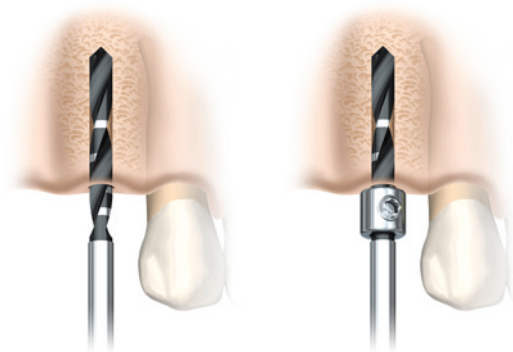


The following illustrations show the drilling steps for NobelSpeedy Groovy RP and NobelSpeedy Replace RP in medium bone density. For other diameters and bone densities, see page 16.

**1 Drill with Twist Drill with Tip  $\varnothing$  2 mm**

- Drill to the appropriate depth using the Twist Drill with Tip  $\varnothing$  2 mm and copious irrigation. Drill stops are available for all diameters to facilitate drilling to correct depth (see appendix).
- When using a flapless procedure, measure tissue thickness with probe. Add the tissue thickness to the drilling depth for correct site preparation. Be aware of anatomical landmarks.

Maximum speed  2000 rpm

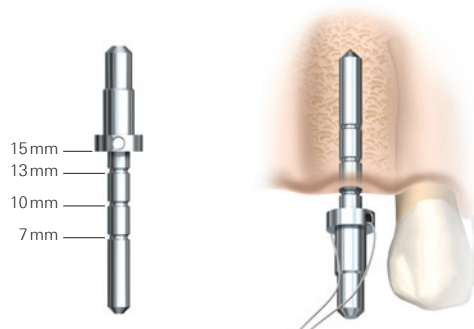


**Note:** When placing multiple implants, proceed to next implant site before continuing with next drilling sequence.

**Tip:** Irrigate the site with saline solution (using a syringe) to remove bone chips before using the next drill.


**2 Check osteotomy direction**

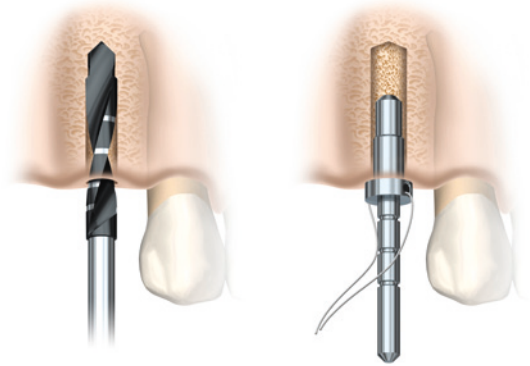
- Check correct direction and seating using Direction Indicator  $\varnothing$  2.0/ $\varnothing$  2.4–2.8 mm.
- If necessary, adjust site preparation.



**3 Drill with Twist Step Drill Ø 2.4/2.8 mm**

- Continue site preparation using Twist Step Drill Ø 2.4/2.8 mm.
- Check orientation using Direction Indicator Ø 2.0/Ø 2.4–2.8 mm.

Maximum speed  2000 rpm

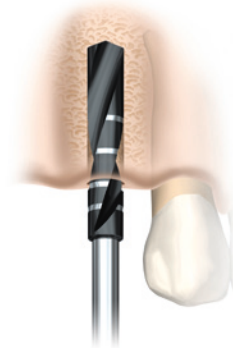


**4 Drill with Twist Drill Ø 3.2 mm**

Finalize site preparation using Twist Drill Ø 3.2 mm.

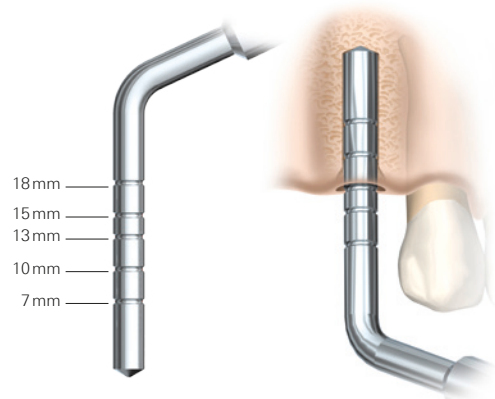
This is the final drill step for NobelSpeedy Groovy RP and NobelSpeedy Replace RP implants in medium bone density.

Maximum speed  2000 rpm



**5 Determine implant length**

Determine implant length using the Depth Probe.



NobelSpeedy Groovy

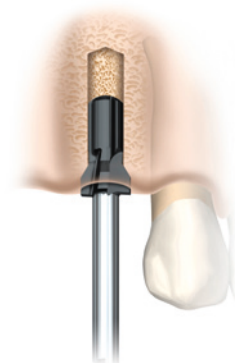
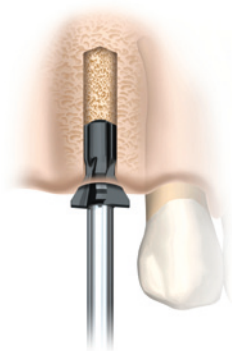
NobelSpeedy Replace

**6 Option: use counterbore if indicated**

If required, use the counterbore for the respective implant system to adapt the implant site to the implant head.

**Note:** Bone quality and marginal cortical layer thickness must be taken into account. The counterbore should remain within the marginal cortical bone to obtain proper implant stability, especially in situations with soft bone.

Maximum speed  2000rpm



**7 Option: use screw tap if indicated**

In medium to dense bone, pre-tapping may be required.

- Select the screw tap that matches the diameter of the implant to be placed.
- Insert the screw tap into the prepared implant site using low speed (25rpm).
- Apply firm pressure and begin rotating the screw tap slowly. When the threads engage, allow screw tap to feed without pressure.
- Switch the handpiece to reverse mode and back the screw tap out.

Low speed  Max 45Ncm



# Implant insertion

The following illustrations show RP implants. The same procedure applies for NP, WP and 6.0 implants.

## 1 Unpack implant

Each implant is packaged in a double aseptic vial system. The outer package has a printed label with product data including diameter and length. The inner titanium casing is also marked with implant platform and size.

- Pull the red tab to disengage the plastic shrink-wrap film and unscrew the lid.
- Take out the sterile inner titanium casing and lift off the plastic cap to gain access to implant.
- Record the implant size and LOT number on the patient's chart with the two peel-off labels from the outer vial.

### Notes:

- No cover screw co-packed with NobelSpeedy implants.
- NobelSpeedy Replace implants and packaging are color-coded.

### NobelSpeedy Groovy



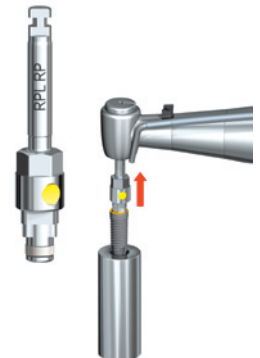
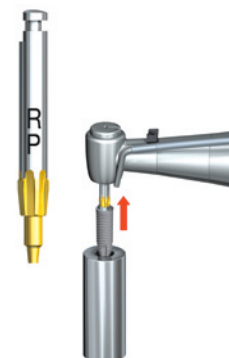
### NobelSpeedy Replace



Color-coded packaging for NobelSpeedy Replace

## 2 Pick up implant

- Connect the appropriate Implant Driver to the handpiece.
- Pick up implant by applying light pressure on the implant driver.



NobelSpeedy Groovy

NobelSpeedy Replace

**3 Insert implant**

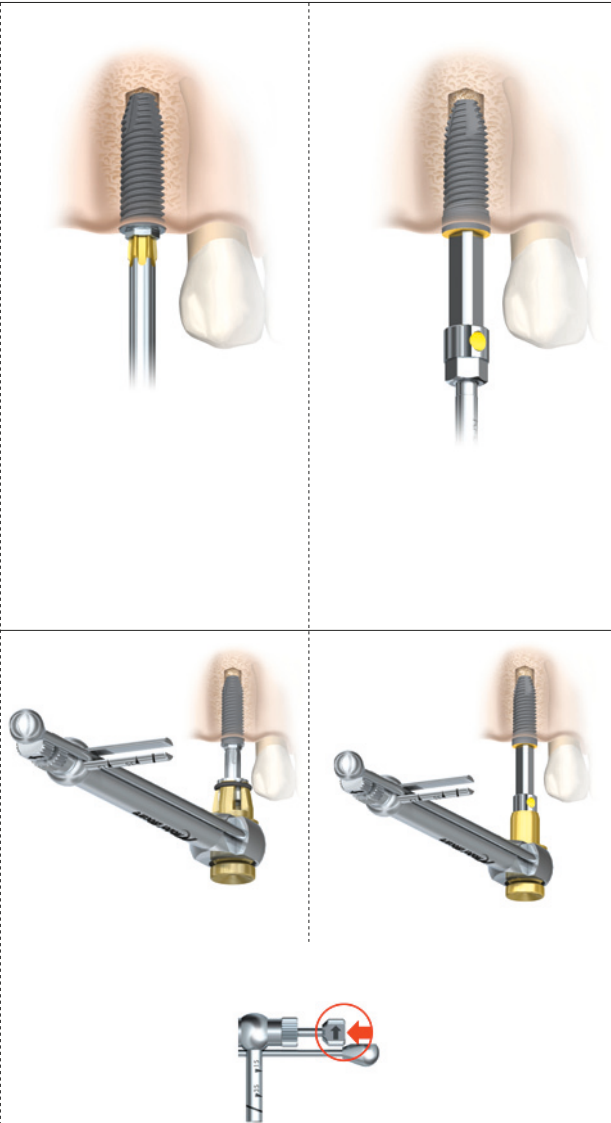
- Insert the implant into the osteotomy using low speed (25 rpm) and torque between 20–45 Ncm.
- Insert the implant using incremental increase of torque until fully seated. Do not exceed 45 Ncm.
- Ensure that the implant driver is in alignment with the implant during insertion.
- Remove the driver with a gentle upward motion.

Low speed  Max 45 Ncm

**Caution:** Overtightening the implant may lead to damage of the implant, fracture, or necrosis of the bone site.

If the implant gets stuck during implant installation or 45 Ncm is achieved before fully seated, rotate the implant counter-clockwise using drilling machine or manual surgical driver in reverse mode, and remove implant from site.

- Place the implant back into titanium casing before proceeding further.
- Use a wider drill, screw tap or counterbore to widen the site. If screw tap is used place the screw tap into prepared implant site using low speed 25 rpm and drill to appropriate length. Switch the handpiece to reverse mode and back the screw tap out.
- Continue with implant installation until desired position is achieved.



Manual Torque Wrench Surgical in reverse mode for removal of implant

**4 Adjust and tighten manually**

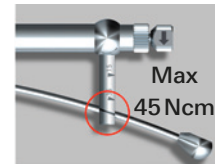
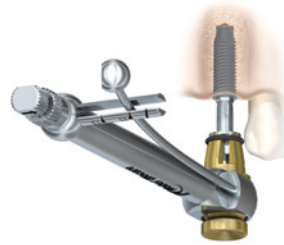
- NobelSpeedy Groovy: Connect the appropriate implant driver to the Brånemark System Manual Torque Wrench Surgical and place the implant to its final depth.
- NobelSpeedy Replace: Connect Implant Driver NobelReplace to NobelReplace Manual Torque Wrench Surgical and place implant to final depth.
- For immediate function, the implant should be able to withstand a final tightening torque of 35–45 Ncm.

**Caution:**

- Do not exceed 45 Ncm.
- If insufficient stability is attained for immediate function, do not load the implant. Wait for sufficient conventional healing (one-stage or two-stage approach).

NobelSpeedy Groovy

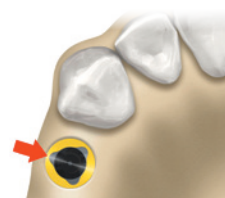
NobelSpeedy Replace



**Implant orientation for NobelSpeedy Replace**

For implants with internal tri-channel connection, make sure that one of the tri-channel lobes is pointing towards the buccal/facial wall. This ensures ideal abutment orientation.

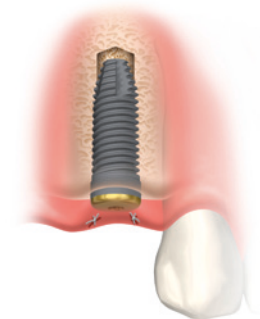
**Tip:** One of the black markings on the implant driver should point buccally.



**5 Place cover screw (for a two-stage surgical approach)**

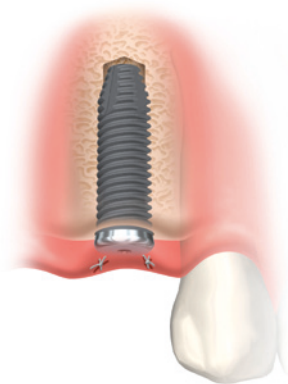
- Place the cover screw on top of the implant using the correct driver. For NobelSpeedy Groovy use a Cover Screw Driver Brånemark System Hexagon and for NobelSpeedy Replace use a Screwdriver Unigrip.
- Make sure that the cover screw is fully seated to prevent bone in-growth between the cover screw and implant platform. Final tightening has to be done manually.
- Close and suture tissue flap around the implant using desired technique.

**Note:** No cover screw is co-packed with the implants.



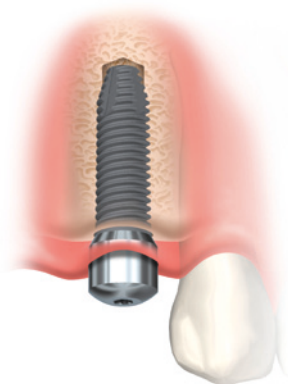
## Finalization of implant surgery

There are three options for finalizing the implant surgery.



### **Two-stage delayed function**

Connect a cover screw to the implant. For NobelSpeedy Groovy use Cover Screw Driver Brånemark System Hexagon and for NobelSpeedy Replace use Screwdriver Unigrip. Suture tissue flap using desired technique.



### **One-stage delayed function**

Use Screwdriver Unigrip to connect a healing abutment to implant. If applicable, suture back the soft tissue.



### **One-stage immediate function**

Provisionalize implant for immediate esthetics and function, using Nobel Biocare temporary or final abutments.



# Second-stage surgery

## Instruments for second-stage surgery

The two-stage surgical procedure protects dental implants from inadvertent functional loading by submerging them below the mucosa at the time of placement.

Use two-stage delayed function:

- When a prolonged healing time is desired.
- In compromised cases with decreased healing capacity.
- When extensive and advanced grafting procedures are used.

Cover Screw Mill Brånemark System and Bone Mill Brånemark System should be handled manually.

Bone Mill with Guide Brånemark System and Bone Mill with Guide NobelReplace can be handled either manually (with handle for machine instruments) or with the drilling machine.



Soft Tissue Punch

### NobelSpeedy Groovy

### NobelSpeedy Replace



Cover Screw Mill  
Brånemark System



Bone Mill  
Brånemark System



Bone Mill with Guide  
Brånemark System



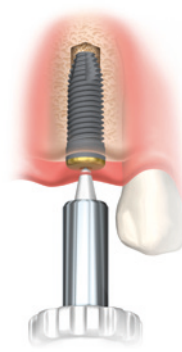
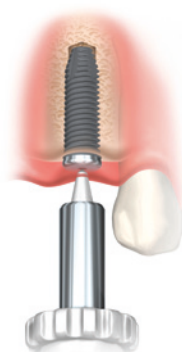
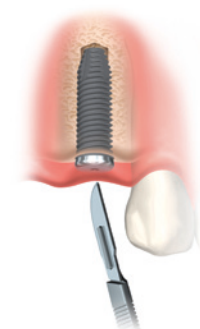
Bone Mill with Guide  
NobelReplace

NobelSpeedy Groovy

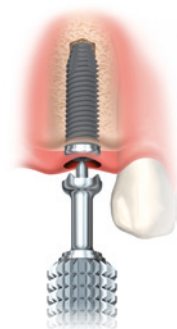
NobelSpeedy Replace

**1 Uncover the implant**

– Make an incision to expose cover screw or use the Soft Tissue Punch in case of sufficient amount of attached mucosa.

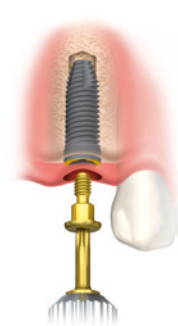
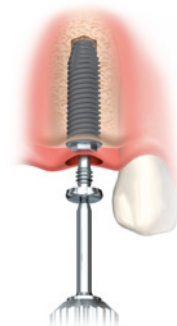



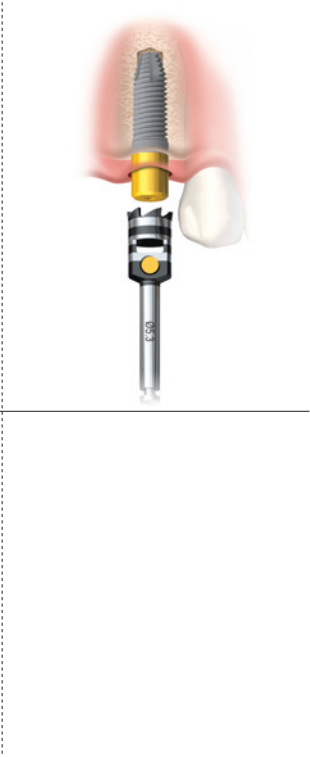
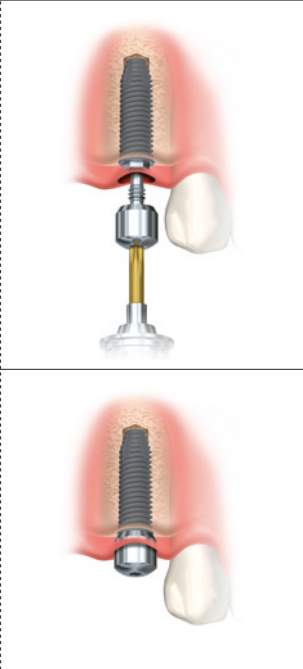
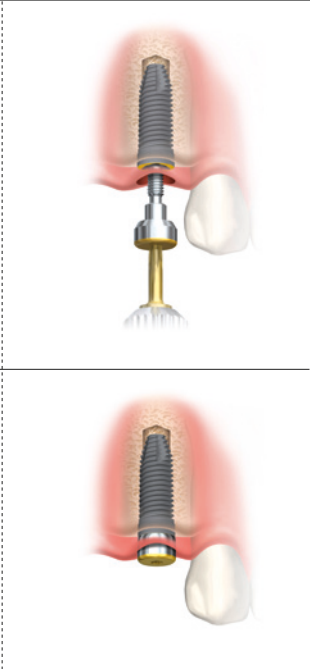
– If required, use the Cover Screw Mill Brånemark System for NobelSpeedy Groovy implants to remove any bone overgrowth above cover screw.



**2 Remove cover screw**

Remove the cover screw using Cover Screw Driver Brånemark System Hexagon for NobelSpeedy Groovy and Screwdriver Unigrip for NobelSpeedy Replace.



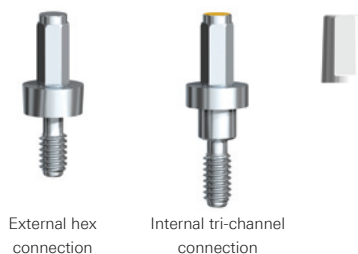
	NobelSpeedy Groovy	NobelSpeedy Replace
<p><b>3 Remove bone overgrowth</b></p> <p>After removing the cover screw, remove any bone around the implant platform that may hinder an abutment from being fully seated on the implant. This is often the case when the implant has been placed below the bone crest. For bone removal around NobelSpeedy Groovy use Bone Mill with Guide Brånemark System (machine) or Bone Mill Brånemark System (manual); for bone removal around NobelSpeedy Replace use Bone Mill with Guide NobelReplace.</p> <p><b>Note:</b> The bone mill with guide can be handled either manually (with handle for machine instruments) or with the drilling machine.</p>		
<p><b>4 Connect healing abutment</b></p> <ul style="list-style-type: none"> <li>- Connect suitable healing abutment to implant using Screwdriver Manual Unigrip.</li> <li>- In case of a prepared flap, suture back the soft tissue.</li> </ul> <p><b>Alternative:</b> If possible, connect the final abutment using Screwdriver Unigrip.</p>		

# Temporary restorations

## Temporary single-unit restoration, cement-retained (chair-side procedure)

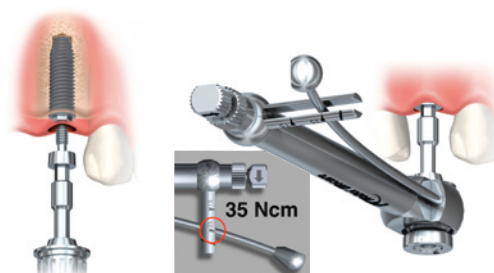
The following illustrations show the use of the Immediate Temporary Abutment.

Provisionalization must be done in immediate function cases and is a common option for altering the soft tissue after a healing abutment has been used (soft tissue management).



### 1 Connect abutment to implant

- Attach the abutment onto the implant and tighten to 35 Ncm with the Screwdriver Machine Multi-unit and Manual Torque Wrench Prosthetic.
- If the implant rotates while tightening the abutment, re-evaluate primary stability of the implant and consider a submerged approach.



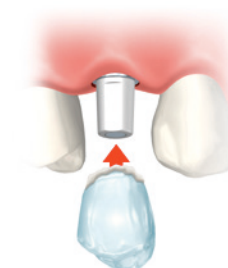
### 2 Adjust the abutment

- Adjust the abutment for height and clearance if necessary.
- Try-in plastic coping (supplied with the abutment) and relieve for clearance if necessary.



### 3 Fabricate and cement temporary crown

- Fabricate a temporary crown with traditional methods using either acrylic or composite.
- If the laboratory has made a prefabricated provisional crown, adjust and reline it to the abutment.
- Cement using temporary cement.



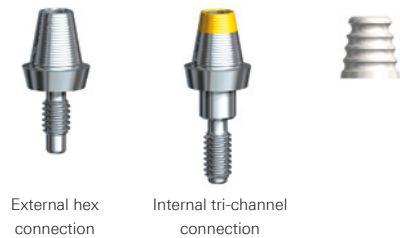
**Warning:** Do not use polyurethane cement with plastic/ temporary copings; the cement will not cure.

**Caution:** In a fresh/open wound, avoid getting any cement below the soft tissue or remove it carefully. Consider using rubber dam or other options to prevent excess cement.

### Temporary multiple-unit restoration, cement-retained (chair-side procedure)

The following illustrations show the use of the QuickTemp Abutment Conical.

Provisionalization must be done in immediate function cases and is a common option for altering the soft tissue after a healing abutment has been used (soft tissue management).



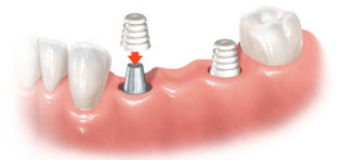
#### 1 Connect abutments to implants

Attach the abutments onto the implants and tighten to 35Ncm with the Screwdriver Unigrip and Manual Torque Wrench Prosthetic.



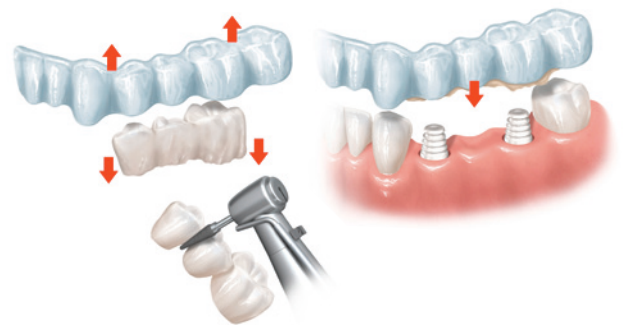
#### 2 Try-in plastic copings

Try-in the plastic copings; they should securely snap onto the abutments.



#### 3 Make a temporary bridge

- Fabricate a temporary bridge with traditional methods using either acrylic or composite.
- If the laboratory has made a pre-fabricated provisional bridge, adjust and reline it to the abutments.



#### 4 Cement bridge on abutments

Cement using temporary cement.

**Warning:** Do not use polyurethane cement with plastic/ temporary copings; the cement will not cure.

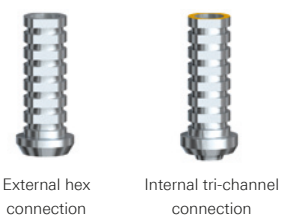
**Caution:** In a fresh/open wound, avoid getting any cement below the soft tissue or remove it carefully. Consider using rubber dam or other options to prevent excess cement.



### Temporary multiple-unit restoration, screw-retained (chair-side procedure)

The following illustrations show the use of the Temporary Abutment Non-Engaging (for multiple splinted restorations). For individual implants, use engaging abutments.

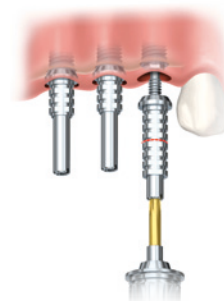
Provisionalization must be done in immediate function cases and is a common option for altering the soft tissue after a healing abutment has been used (soft tissue management).



#### 1 Connect abutments to implants

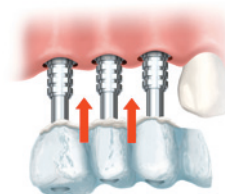
- Attach the abutments onto the implants and adjust for height and clearance if necessary.
- Fasten the abutments with guide pins that extend beyond the occlusal plane with the Screwdriver Manual Unigrip.

**Note:** Abutment screw is included with the abutment. Guide pin (available in two lengths: 20mm [standard length] and 30mm) has to be ordered separately.



#### 2 Make acrylic template

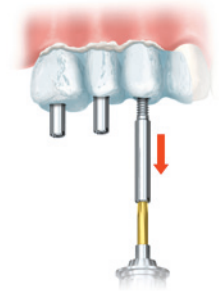
- Fabricate acrylic template for chair-side temporization.
- Make access holes to allow guide pins to protrude.
- If the laboratory has made a prefabricated provisional bridge, make access holes to allow guide pins to protrude (if not already done) and adjust it to the abutments.
- Fill template with acrylic or composite and seat over temporary abutments.



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### 3 Adjust temporary restoration

- After seating, loosen the guide pins to remove the restoration.
- Trim and polish the restoration. It is important to have a smooth surface adjacent to the surrounding soft tissue.



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### 4 Connect temporary restoration

- Connect the provisional restoration with the supplied abutment screws.
- Tighten to 35Ncm using Manual Torque Wrench Prosthetic and Screwdriver Machine Unigrip.
- Fill screw access holes with suitable material.



# Final restorations

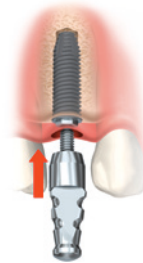
## Clinical and laboratory procedures

The following illustrations show closed-tray impression taking for a single-unit restoration.

### 1 Place impression coping

- Place the Impression Coping Closed Tray over the implant. Use the Screwdriver Unigrip to tighten the screw.
- Block out the Unigrip hole on the guide pin, if applicable.
- A radiograph may be taken to verify proper seating of the impression coping.

NobelSpeedy Groovy

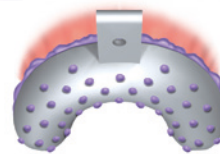
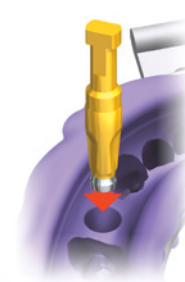
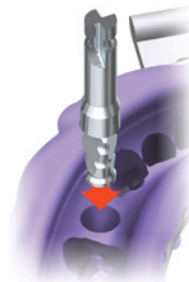


NobelSpeedy Replace



### 2 Take impression

- Inject a heavy body impression material (polyether material or polyvinylsiloxane) around each impression coping and into the tray. Record the impression.
- Remove the impression.
- Remove the impression coping and remove the block-out material. Thread the coping onto the corresponding implant replica.
- Place the impression coping implant replica assembly into its corresponding location in the impression and send it to the dental laboratory for model fabrication.

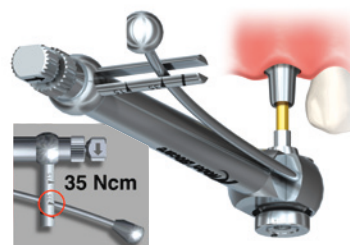


### 3 Laboratory procedures

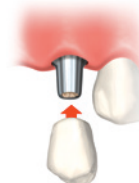
A final restoration is fabricated using conventional procedures.

### 4 Connect restoration

- Place the abutment onto the implant.
- Tighten to 35 Ncm using Manual Torque Wrench Prosthetic and Screwdriver Machine Unigrip.
- Check restoration and cement using appropriate cement.
- Remove excess cement in accordance with normal procedures.
- Check occlusion.









**Note:** A radiograph can help to confirm accurate seating of the abutment.





### Solutions for all indications

Nobel Biocare offers safe, reliable, and scientifically proven solutions for all clinical and budgetary needs. Restorations include prefabricated and individualized CAD/CAM abutments, single crowns to full-arch bridges, as well as implant bars overdenture. NobelProcera individualized precision-milled restorations deliver superior esthetics, strength, and consistent precision of fit in a full range of materials. For a complete overview of all prefabricated and individualized CAD/CAM restorations, see the Nobel Biocare product catalog.

-  Alumina
-  Zirconia
-  Titanium
-  Base Metal Alloy Cobalt Chromium
-  Telio® CAD (full-contour long-term acrylic temporary)
-  IPS e.max® CAD (full-contour crown)

### Cement-retained solutions on abutments



NobelProcera® Crown on prefabricated or individualized CAD/CAM abutment



NobelProcera® Bridge on prefabricated or individualized CAD/CAM abutments



NobelProcera® Bridge on prefabricated or individualized CAD/CAM abutments



### Screw-retained solutions on implants and Multi-unit Abutments



NobelProcera® screw-retained crown



NobelProcera® Implant Bridge (implant level)



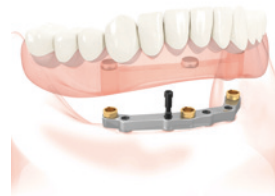
NobelProcera® Implant Bridge on Multi-unit Abutments



### Fixed and fixed-removable solutions for edentulous cases



Prosthesis on Locator® Abutments



NobelProcera® Implant Bar Overdenture with various attachment systems



NobelProcera® Implant Bridge on Multi-unit Abutments



# Flowchart – NobelSpeedy® Groovy



## Implant



### NobelSpeedy® Groovy NP

<b>Length mm</b>	10	11.5	13	15
<b>Ø 3.3mm</b>	33123	33124	33125	33126

*Cover screw not included*

## Drill

<b>Precision drill</b>	36118
------------------------	-------



### Twist drills

Ø 2 × 7–10mm	32296
Ø 2 × 7–15mm	32297
Ø 2 × 10–18mm	32299



### Twist step drills

Ø 2.4/2.8 × 7–10mm	32260
Ø 2.4/2.8 × 7–15mm	32261
Ø 2.4/2.8 × 10–18mm	32262



## Drill Stop

Ø 2.0mm	33063
Ø 2.8mm	33064



**Counterbore**

Counterbore NP	32281
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**Screw Tap**

10–15 mm	32289
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**Implant Driver**

26 mm	29126
34 mm	29127

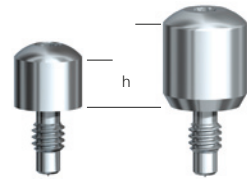


**Healing Abutment/  
Cover Screw**

**Healing Abutment**

<b>Ø 3.5 mm</b>	
3 mm	33441
5 mm	33442

<b>Ø 4.5 mm</b>	
3 mm	33443
5 mm	33444



**Cover Screw**

Cover Screw	28986
-------------	-------





**Implant**



**NobelSpeedy® Shorty RP**

Length mm	7
Ø 4.0mm	32146

*Cover screw not included*



**NobelSpeedy® Groovy RP**

Length mm	8.5	10	11.5	13	15	18
Ø 4.0mm	32147	32148	32149	32150	32151	32152

*Cover screw not included*

**Drill**

Precision drill	36118
-----------------	-------



**Twist drills**

Ø 2 × 7–10mm	32296
Ø 2 × 7–15mm	32297
Ø 2 × 10–18mm	32299
Ø 3 × 7–10mm	32266
Ø 3 × 7–15mm	32267
Ø 3 × 10–18mm	32268
Ø 3.2 × 7–10mm	32269
Ø 3.2 × 7–15mm	32270
Ø 3.2 × 10–18mm	32271
Ø 3.4 × 7–10mm	32272
Ø 3.4 × 7–15mm	32273
Ø 3.4 × 10–18mm	32274



**Twist step drills**

Ø 2.4/2.8 × 7–10mm	32260
Ø 2.4/2.8 × 7–15mm	32261
Ø 2.4/2.8 × 10–18mm	32262



**Drill Stop**

Ø 2.0 mm	33063
Ø 2.8 mm	33064
Ø 3.0 mm	33075
Ø 3.2 mm	33077
Ø 3.4 mm	33078



**Counterbore**

Counterbore RP	32283
----------------	-------



**Screw Tap**

<b>Ø 4.0 mm</b>	
7-13 mm	33072
7-18 mm	33073



**Implant Driver**

21 mm	29129
26 mm	29130
34 mm	29131

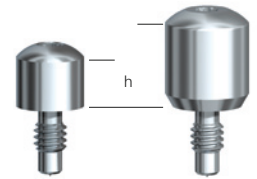


**Healing Abutment/  
Cover Screw**

**Healing Abutment**

<b>Ø 4.0 mm</b>	
3 mm	33445
5 mm	33446

<b>Ø 5.0 mm</b>	
3 mm	29137
5 mm	29139



**Cover Screw**

Cover Screw	28987
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## Implant



### NobelSpeedy® Shorty WP

Length mm	7
-----------	---

Ø 5.0mm	32153
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*Cover screw not included*



### NobelSpeedy® Groovy WP

Length mm	8.5	10	11.5	13	15	18
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Ø 5.0mm	32154	32155	32156	32157	32158	32159
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*Cover screw not included*

## Drill

Precision drill	36118
-----------------	-------



### Twist drills

Ø 2 × 7–10mm	32296
--------------	-------

Ø 2 × 7–15mm	32297
--------------	-------

Ø 2 × 10–18mm	32299
---------------	-------

Ø 3 × 7–10mm	32266
--------------	-------

Ø 3 × 7–15mm	32267
--------------	-------

Ø 3 × 10–18mm	32268
---------------	-------



### Twist step drills

Ø 2.4/2.8 × 7–10mm	32260
--------------------	-------

Ø 2.4/2.8 × 7–15mm	32261
--------------------	-------

Ø 2.4/2.8 × 10–18mm	32262
---------------------	-------

Ø 3.2/3.6 × 7–10mm	32263
--------------------	-------

Ø 3.2/3.6 × 7–15mm	32264
--------------------	-------

Ø 3.2/3.6 × 10–18mm	32265
---------------------	-------

Ø 3.8/4.2 × 7–10mm	32275
--------------------	-------

Ø 3.8/4.2 × 7–15mm	32276
--------------------	-------

Ø 3.8/4.2 × 10–18mm	32277
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**Drill Stop**

Ø 2 mm	33063
Ø 2.8 mm	33064
Ø 3 mm	33075
Ø 3.2 mm	33077
Ø 3.6 mm	33084
Ø 4.2 mm	33081



**Counterbore**

Counterbore WP	32285
----------------	-------



**Screw Tap**

Ø 5.0 mm	
7-13 mm	32292
7-18 mm	32293



**Implant Driver**

21 mm	29134
26 mm	29135

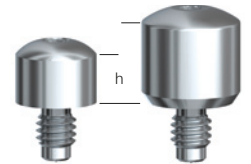


**Healing Abutment/  
Cover Screw**

**Healing Abutment**

Ø 5.0 mm	
3 mm	33447
5 mm	33448

Ø 6.0 mm	
3 mm	29141
5 mm	29143



**Cover Screw**

Cover Screw	28988
-------------	-------





## Implant



### NobelSpeedy® Shorty WP 6.0

Length mm 7

Ø 6.0mm 32139

*Cover screw not included*



### NobelSpeedy® Groovy WP 6.0

Length mm 8.5 10 11.5 13 15 18

Ø 6.0mm 32140 32141 32142 32143 32144 32145

*Cover screw not included*

## Drill

Precision drill 36118



### Twist drills

Ø 2 × 7–10mm 32296

Ø 2 × 7–15mm 32297

Ø 2 × 10–18mm 32299

Ø 5 × 7–10mm 32278

Ø 5 × 7–15mm 32279

Ø 5 × 10–18mm 32280



### Twist step drills

Ø 2.4/2.8 × 7–10mm 32260

Ø 2.4/2.8 × 7–15mm 32261

Ø 2.4/2.8 × 10–18mm 32262

Ø 3.2/3.6 × 7–10mm 32263

Ø 3.2/3.6 × 7–15mm 32264

Ø 3.2/3.6 × 10–18mm 32265

Ø 3.8/4.2 × 7–10mm 32275

Ø 3.8/4.2 × 7–15mm 32276

Ø 3.8/4.2 × 10–18mm 32277





**Drill Stop**

Ø 2 mm	33063
Ø 2.8 mm	33064
Ø 3.2 mm	33077
Ø 3.6 mm	33084
Ø 4.2 mm	33081



**Counterbore**

Counterbore WP	32285
----------------	-------



**Screw Tap**

<b>Ø 6.0 mm</b>	
7–13 mm	32294
7–18 mm	32295



**Implant Driver**

21 mm	29134
26 mm	29135

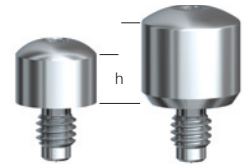


**Healing Abutment/  
Cover Screw**

**Healing Abutment**

<b>Ø 5.0 mm</b>	
3 mm	33447
5 mm	33448

<b>Ø 6.0 mm</b>	
3 mm	29141
5 mm	29143



**Cover Screw**

Cover Screw	28988
-------------	-------



# Flowchart – NobelSpeedy® Replace



## Implant



### NobelSpeedy® Replace NP

<b>Length mm</b>	10	11.5	13	15
<b>Ø 3.5 mm</b>	32196	32197	32198	32199

*Cover screw not included*

## Drill

<b>Precision drill</b>	36118
------------------------	-------



### Twist drills

Ø 2 × 7–10 mm	32296
Ø 2 × 7–15 mm	32297
Ø 2 × 10–18 mm	32299



### Twist step drills

Ø 2.4/2.8 × 7–10 mm	32260
Ø 2.4/2.8 × 7–15 mm	32261
Ø 2.4/2.8 × 10–18 mm	32262



## Drill Stop

Ø 2 mm	33063
Ø 2.8 mm	33064



**Counterbore**

Counterbore NP	32282
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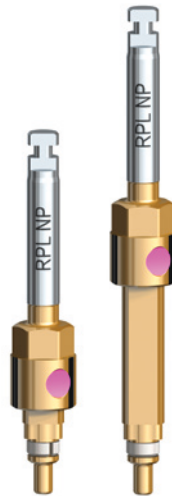
**Screw Tap**

10–15 mm	32289
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**Implant Driver**

Short	36124
Long	36125

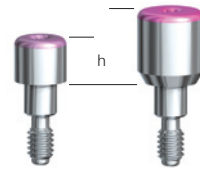


**Healing Abutment / Cover Screw**

**Healing Abutment**

<b>Ø 3.5 mm</b>	
3 mm	29436
5 mm	29437

<b>Ø 4.5 mm</b>	
3 mm	33449
5 mm	33450



<b>Cover Screw</b>	29433
--------------------	-------





## Implant



### NobelSpeedy® Replace RP

Length mm	10	11.5	13	15	18
Ø 4.0 mm	32200	32201	32202	32203	32204

*Cover screw not included*

## Drill

Precision drill	36118
-----------------	-------



### Twist drills

Ø 2 × 7–10 mm	32296
Ø 2 × 7–15 mm	32297
Ø 2 × 10–18 mm	32299
Ø 3.2 × 7–10 mm	32269
Ø 3.2 × 7–15 mm	32270
Ø 3.2 × 10–18 mm	32271
Ø 3.4 × 7–10 mm	32272
Ø 3.4 × 7–15 mm	32273
Ø 3.4 × 10–18 mm	32274



### Twist step drills

Ø 2.4/2.8 × 7–10 mm	32260
Ø 2.4/2.8 × 7–15 mm	32261
Ø 2.4/2.8 × 10–18 mm	32262
Ø 3.2/3.6 × 7–10 mm	32263
Ø 3.2/3.6 × 7–15 mm	32264
Ø 3.2/3.6 × 10–18 mm	32265



**Drill Stop**

Ø 2 mm	33063
Ø 2.8 mm	33064
Ø 3.2 mm	33077
Ø 3.4 mm	33078
Ø 3.6 mm	33084



**Counterbore**

Counterbore RP	32284
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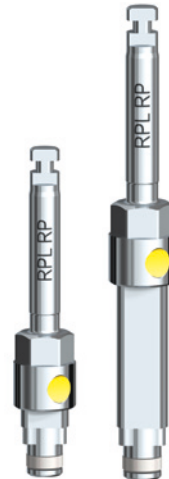
**Screw Tap**

<b>Ø 4 mm</b>	
7-13 mm	33072
7-18 mm	33073



**Implant Driver**

Short	36126
Long	36127

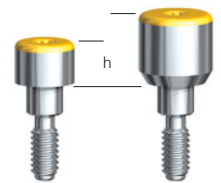


**Healing Abutment / Cover Screw**

**Healing Abutment**

<b>Ø 4.3 mm</b>	
3 mm	33535
5 mm	33536

<b>Ø 5.3 mm</b>	
3 mm	33451
5 mm	33452



<b>Cover Screw</b>	29434
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## Implant



### NobelSpeedy® Replace WP

Length mm	10	11.5	13	15	18
Ø 5.0 mm	32205	32206	32207	32208	32209

*Cover screw not included*

## Drill

Precision drill	36118
-----------------	-------



### Twist drills

Ø 2 × 7–10 mm	32296
Ø 2 × 7–15 mm	32297
Ø 2 × 10–18 mm	32299
Ø 3 × 7–10 mm	32266
Ø 3 × 7–15 mm	32267
Ø 3 × 10–18 mm	32268



### Twist step drills

Ø 2.4/2.8 × 7–10 mm	32260
Ø 2.4/2.8 × 7–15 mm	32261
Ø 2.4/2.8 × 10–18 mm	32262
Ø 3.2/3.6 × 7–10 mm	32263
Ø 3.2/3.6 × 7–15 mm	32264
Ø 3.2/3.6 × 10–18 mm	32265
Ø 3.8/4.2 × 7–10 mm	32275
Ø 3.8/4.2 × 7–15 mm	32276
Ø 3.8/4.2 × 10–18 mm	32277



**Drill Stop**

Ø 2 mm	33063
Ø 2.8 mm	33064
Ø 3.0 mm	33075
Ø 3.2 mm	33077
Ø 3.6 mm	33084
Ø 4.2 mm	33081



**Counterbore**

Counterbore WP	32286
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**Screw Tap**

<b>Ø 5 mm</b>	
7-13 mm	32292
7-18 mm	32293



**Implant Driver**

Short	36128
Long	36129

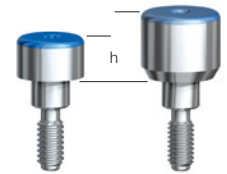


**Healing Abutment / Cover Screw**

**Healing Abutment**

<b>Ø 5.0 mm</b>	
3 mm	33453
5 mm	33454

<b>Ø 6.0 mm</b>	
3 mm	29446
5 mm	29447



<b>Cover Screw</b>	29435
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## Implant



### NobelSpeedy® Replace 6.0

<b>Length mm</b>	10	11.5	13	15	18
<b>Ø 6.0 mm</b>	32191	32192	32193	32194	32195

*Cover screw not included*

## Drill

<b>Precision drill</b>	36118
------------------------	-------



### Twist drills

Ø 2 × 7–10 mm	32296
Ø 2 × 7–15 mm	32297
Ø 2 × 10–18 mm	32299
Ø 5 × 7–10 mm	32278
Ø 5 × 7–15 mm	32279
Ø 5 × 10–18 mm	32280



### Twist step drills

Ø 2.4/2.8 × 7–10 mm	32260
Ø 2.4/2.8 × 7–15 mm	32261
Ø 2.4/2.8 × 10–18 mm	32262
Ø 3.2/3.6 × 7–10 mm	32263
Ø 3.2/3.6 × 7–15 mm	32264
Ø 3.2/3.6 × 10–18 mm	32265
Ø 3.8/4.2 × 7–10 mm	32275
Ø 3.8/4.2 × 7–15 mm	32276
Ø 3.8/4.2 × 10–18 mm	32277





**Drill Stop**

Ø 2mm	33063
Ø 2.8mm	33064
Ø 3.2mm	33077
Ø 3.6mm	33084
Ø 4.2mm	33081



**Counterbore**

Counterbore 6.0	32288
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**Screw Tap**

<b>Ø 6mm</b>	
7-13mm	32294
7-18mm	32295



**Implant Driver**

Short	36130
Long	36131

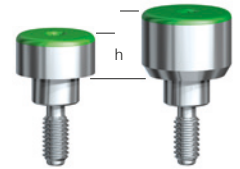


**Healing Abutment / Cover Screw**

**Healing Abutment**

<b>Ø 6.0mm</b>	
3mm	29998
5mm	29999

<b>Ø 7.0mm</b>	
3mm	33455
5mm	33457



<b>Cover Screw</b>	30087
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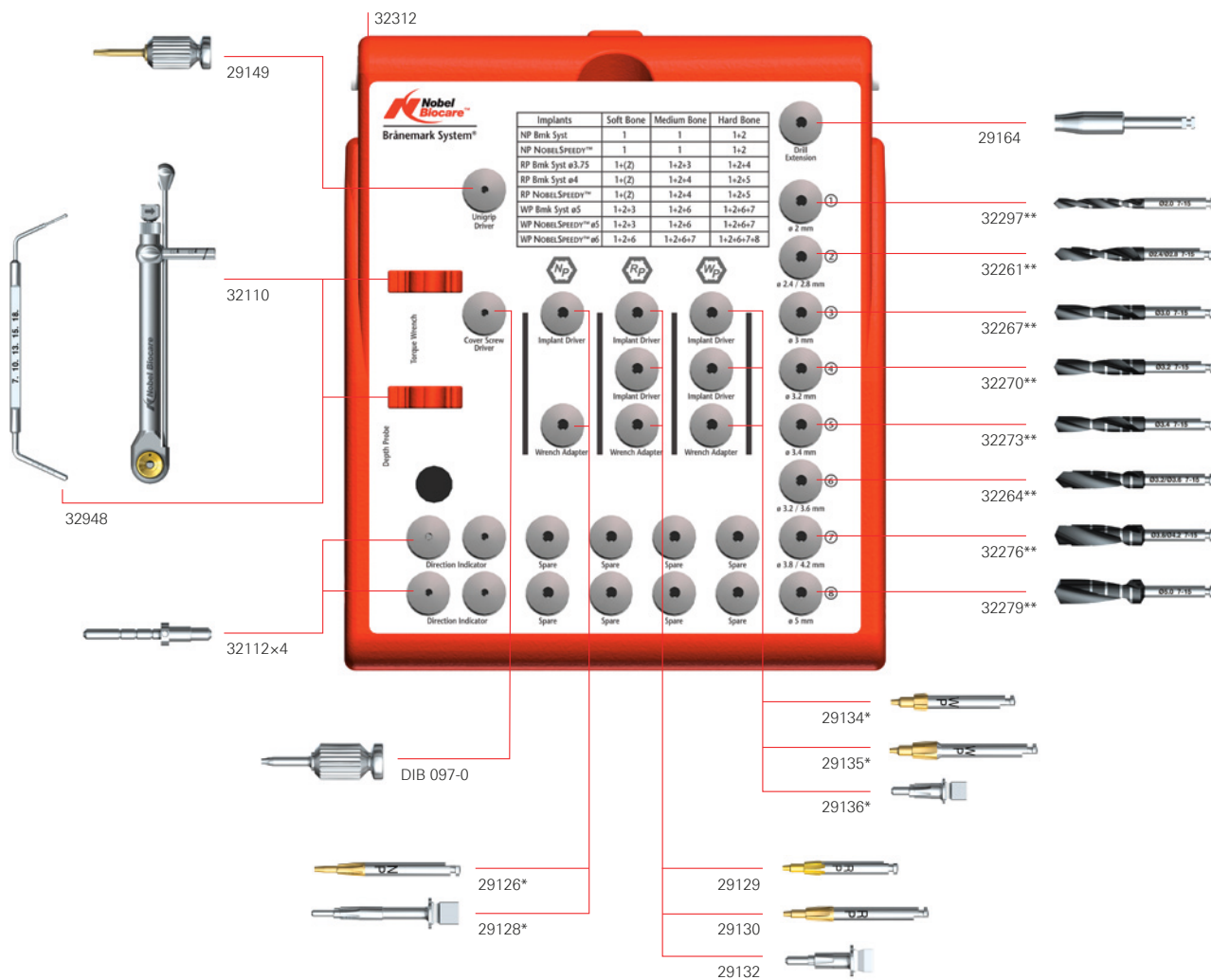


# Surgery kits

## 32302 Brånemark System® Surgery Kit

- Includes instruments to perform implant surgery for RP platform.
- For Brånemark System and NobelSpeedy Groovy and Shorty.
- Drilling protocol specified on surgical kit plate refers to Brånemark System Mk III Groovy and NobelSpeedy Groovy implants only.

**Note:** Instruments for NP and WP platforms need to be ordered separately.



\* Article not included in this kit.

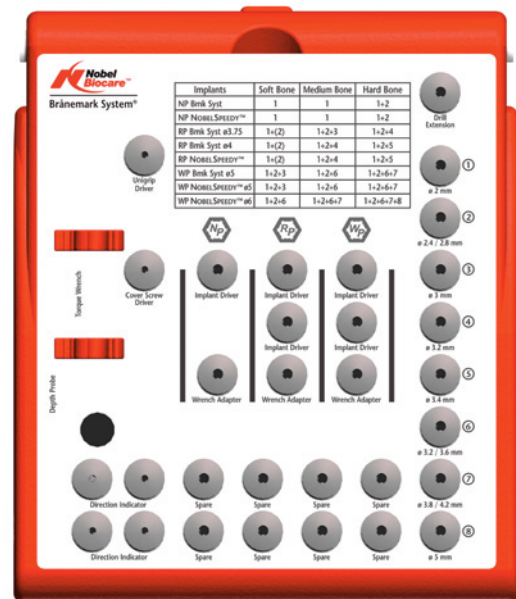
\*\* Article not included in this kit and also available in other lengths.

**Brånemark System® Surgery Kit 32302**

(The articles below can also be purchased individually.)

**Kit includes instruments for RP platform**

Surgery Kit Box	32312
Implant Driver Brånemark System® RP 21 mm	29129
Implant Driver Brånemark System® RP 26 mm	29130
Implant Driver Wrench Adapter Brånemark System® RP 12 mm	29132
Screwdriver Manual Unigrip™ 28 mm	29149
Cover Screw Driver Brånemark System® Hexagon DIB 097-0	
Drill Extension Shaft	29164
Direction Indicator Ø2/Ø2.4–2.8 mm × 4	32112
Brånemark System® Manual Torque Wrench Surgical	32110
Depth Probe	32948
Implant/Prosthetic Organizer	29532
Brånemark System® Wall Chart	33129
Brånemark System® NobelSpeedy® Radiographic Template	33097
Implant Sleeve Holder	29543

**Notes:**

- Instruments for NP and WP platforms need to be ordered separately.
- Drills are available for separate purchase and are not included in the kit.

### 37102 NobelReplace® Straight Surgery Kit

- Includes instruments to perform implant surgery for NP, RP and WP platforms.
- For NobelReplace Straight, Replace Select Straight, Replace Select TC and NobelSpeedy Replace.

**Note:** Instruments for NobelSpeedy Replace 6.0 implants need to be ordered separately.

Implants	Soft Bone	Medium Bone	Hard Bone
NP NOBELREPLACE®	1	1+2	1+2
NP NOBELSPEEDY™	1	1+2	1+2
RP NOBELREPLACE®	1+(2)	1+2+4	1+2+5
RP NOBELSPEEDY™	1+(2)	1+2+4	1+2+5
WP NOBELREPLACE®	1+2+3	1+2+6	1+2+6+7
WP NOBELSPEEDY™	1+2+3	1+2+6	1+2+6+7
6.0 NOBELSPEEDY™	1+2+6	1+2+6+7	1+2+6+7+8

Kit contents and part numbers:

- 32313: NobelReplace Straight Carrying Case
- 29149: Unigrip Driver
- 28839: Tongue Wrench
- 32948: Depth Gauge
- 32112 x 4: Direction Indicators
- 32282\*: NP Drill
- 36124: NP Drill
- 36125: NP Drill
- 32284\*: RP Drill
- 36126: RP Drill
- 36127: RP Drill
- 32288\*: WP Drill
- 36130\*: WP Drill
- 36131\*: WP Drill
- 32286\*: 6.0 Drill
- 36128: 6.0 Drill
- 36129: 6.0 Drill
- 29164: Drill Extension
- 32297\*\*: ø 2 mm Drill
- 32261\*\*: ø 2.4 / 2.8 mm Drill
- 32267\*\*: ø 3 mm Drill
- 32270\*\*: ø 3.2 mm Drill
- 32273\*\*: ø 3.4 mm Drill
- 32264\*\*: ø 3.2 / 3.6 mm Drill
- 32276\*\*: ø 3.8 / 4.2 mm Drill
- 32279\*\*: ø 5 mm Drill

\* Article not included in this kit.

\*\* Article not included in this kit and also available in other lengths.

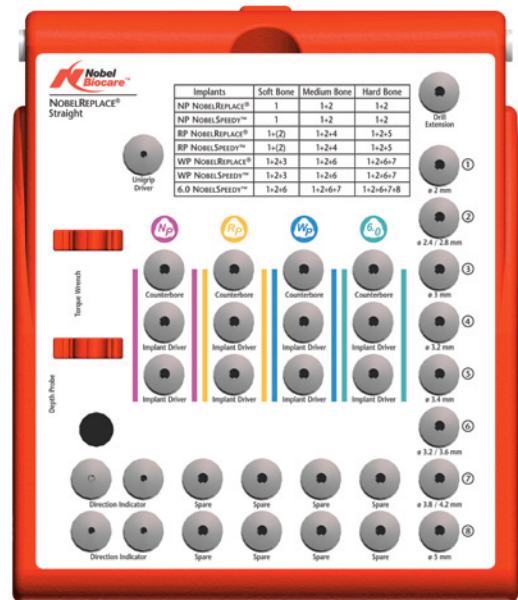
**NobelReplace® Straight Surgery Kit 37102**

(The articles below can also be purchased individually.)

**Kit includes instruments for NP, RP and WP platform**

NobelReplace® Straight Surgery Kit Box	32313
NobelReplace® Manual Torque Wrench Surgical	28839
Implant Driver NobelReplace® NP Short	36124
Implant Driver NobelReplace® NP Long	36125
Implant Driver NobelReplace® RP Short	36126
Implant Driver NobelReplace® RP Long	36127
Implant Driver NobelReplace® WP Short	36128
Implant Driver NobelReplace® WP Long	36129
Screwdriver Manual Unigrip™ 28mm	29149
Drill Extension Shaft	29164
Depth Probe	32948
Direction Indicator Ø 2/Ø 2.4–2.8mm × 4	32112
Implant/Prosthetic Organizer	29532
NobelReplace® Straight Wall Chart	37104
NobelReplace® Straight/NobelSpeedy® Replace Radiographic Template	33096
Replace Select™ TC Radiographic Template	71580
Implant Sleeve Holder	29543

**Note:** Instruments for NobelSpeedy Replace implants 6.0 need to be ordered separately.

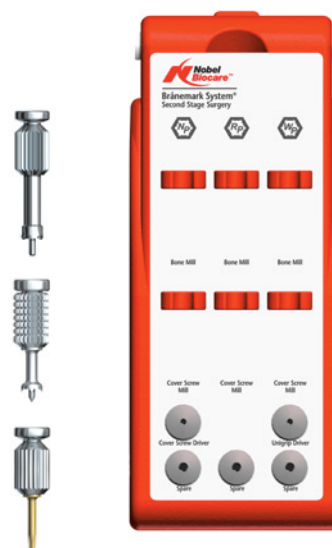


**Brånemark System® Second-stage Surgery Kit 32308**

(The articles below can also be purchased individually.)

Kit includes	
Brånemark System® Second Stage Surgery Kit Box	32315
Bone Mill Brånemark System® NP	28977
Bone Mill Brånemark System® RP	28978
Bone Mill Brånemark System® WP	28979
Cover Screw Mill Brånemark System® NP	28980
Cover Screw Mill Brånemark System® RP	28981
Cover Screw Mill Brånemark System® WP	28982
Cover Screw Driver Brånemark System® Hexagon	DIB 097-0
Screwdriver Manual Unigrip™ 28 mm	29149

**Note:** For Machine Bone Mill and Bone Mill Guide see page 61.



**Nobel Biocare® Flapless Surgery Kit 32304**

(The articles below can also be purchased individually.)

Kit includes	
Nobel Biocare® Flapless Surgery Kit Box	32317
Tissue Punch NP	29628
Tissue Punch RP	29629
Tissue Punch WP	29630
Tissue Punch 6.0	32672
Tissue Punch Guide NP	29631
Tissue Punch Guide RP	29632
Tissue Punch Guide WP	29633
Tissue Punch Guide 6.0	32673
Drill Guide NP	29634
Drill Guide RP	29635
Drill Guide WP	29636
Drill Guide 6.0	32674



**Prosthetic Kit 32309**

(The articles below can also be purchased individually.)

Kit includes	
Prosthetic Kit Box	32322
Manual Torque Wrench Prosthetic	29165
Screwdriver Machine Unigrip 20 mm	29151
Screwdriver Machine Unigrip 30 mm	29153
Screwdriver Machine Multi-unit 21 mm	29158



# Implants

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NobelSpeedy® Groovy NP 3.3 × 10 mm	33123		
NobelSpeedy® Groovy NP 3.3 × 11.5 mm	33124		
NobelSpeedy® Groovy NP 3.3 × 13 mm	33125		
NobelSpeedy® Groovy NP 3.3 × 15 mm	33126		
NobelSpeedy® Shorty RP 4.0 × 7 mm	32146		
NobelSpeedy® Groovy RP 4.0 × 8.5 mm	32147		
NobelSpeedy® Groovy RP 4.0 × 10 mm	32148		
NobelSpeedy® Groovy RP 4.0 × 11.5 mm	32149		
NobelSpeedy® Groovy RP 4.0 × 13 mm	32150		
NobelSpeedy® Groovy RP 4.0 × 15 mm	32151		
NobelSpeedy® Groovy RP 4.0 × 18 mm	32152		
NobelSpeedy® Shorty WP 5.0 × 7 mm	32153		
NobelSpeedy® Groovy WP 5.0 × 8.5 mm	32154		
NobelSpeedy® Groovy WP 5.0 × 10 mm	32155		
NobelSpeedy® Groovy WP 5.0 × 11.5 mm	32156		
NobelSpeedy® Groovy WP 5.0 × 13 mm	32157		
NobelSpeedy® Groovy WP 5.0 × 15 mm	32158		
NobelSpeedy® Groovy WP 5.0 × 18 mm	32159		
NobelSpeedy® Shorty WP 6.0 × 7 mm	32139		
NobelSpeedy® Groovy WP 6.0 × 8.5 mm	32140		
NobelSpeedy® Groovy WP 6.0 × 10 mm	32141		
NobelSpeedy® Groovy WP 6.0 × 11.5 mm	32142		
NobelSpeedy® Groovy WP 6.0 × 13 mm	32143		
NobelSpeedy® Groovy WP 6.0 × 15 mm	32144		
NobelSpeedy® Groovy WP 6.0 × 18 mm	32145		

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NobelSpeedy® Replace NP 3.5 × 10 mm	32196		
NobelSpeedy® Replace NP 3.5 × 11.5 mm	32197		
NobelSpeedy® Replace NP 3.5 × 13 mm	32198		
NobelSpeedy® Replace NP 3.5 × 15 mm	32199		
NobelSpeedy® Replace RP 4.0 × 10 mm	32200		
NobelSpeedy® Replace RP 4.0 × 11.5 mm	32201		
NobelSpeedy® Replace RP 4.0 × 13 mm	32202		
NobelSpeedy® Replace RP 4.0 × 15 mm	32203		
NobelSpeedy® Replace RP 4.0 × 18 mm	32204		
NobelSpeedy® Replace WP 5.0 × 10 mm	32205		
NobelSpeedy® Replace WP 5.0 × 11.5 mm	32206		
NobelSpeedy® Replace WP 5.0 × 13 mm	32207		
NobelSpeedy® Replace WP 5.0 × 15 mm	32208		
NobelSpeedy® Replace WP 5.0 × 18 mm	32209		
NobelSpeedy® Replace 6.0 6.0 × 10 mm	32191		
NobelSpeedy® Replace 6.0 6.0 × 11.5 mm	32192		
NobelSpeedy® Replace 6.0 6.0 × 13 mm	32193		
NobelSpeedy® Replace 6.0 6.0 × 15 mm	32194		
NobelSpeedy® Replace 6.0 6.0 × 18 mm	32195		

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# Surgical components

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## Tissue Punches

Tissue Punch NP	29628
Tissue Punch RP	29629
Tissue Punch WP	29630
Tissue Punch 6.0	32672




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## Tissue Punch Guides

Tissue Punch Guide NP	29631
Tissue Punch Guide RP	29632
Tissue Punch Guide WP	29633
Tissue Punch Guide 6.0	32673




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## Drill Guides

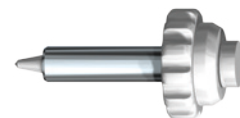
Drill Guide NP	29634
Drill Guide RP	29635
Drill Guide WP	29636
Drill Guide 6.0	32674




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## Soft Tissue Punches

Soft Tissue Punch Ø 4.1 mm, 5/pkg	32Z2000
Soft Tissue Punch Ø 5.2 mm, 5/pkg	32Z2002
Soft Tissue Punch Ø 6.2 mm, 5/pkg	32Z2004



## Drills

Precision Drill	36118
Twist Drill 1.5 × 7–15 mm	31278
Twist Drill with Tip 2 × 7–10 mm	32296
Twist Drill with Tip 2 × 7–15 mm	32297
Twist Drill with Tip 2 × 10–18 mm	32299
Twist Drill 3 × 7–10 mm	32266
Twist Drill 3 × 7–15 mm	32267
Twist Drill 3 × 10–18 mm	32268
Twist Drill 3.2 × 7–10 mm	32269
Twist Drill 3.2 × 7–15 mm	32270
Twist Drill 3.2 × 10–18 mm	32271
Twist Drill 3.4 × 7–10 mm	32272
Twist Drill 3.4 × 7–15 mm	32273
Twist Drill 3.4 × 10–18 mm	32274
Twist Drill 5 × 7–10 mm	32278
Twist Drill 5 × 7–15 mm	32279
Twist Drill 5 × 10–18 mm	32280
Twist Step Drill 2.4/2.8 7–10 mm	32260
Twist Step Drill 2.4/2.8 7–15 mm	32261
Twist Step Drill 2.4/2.8 10–18 mm	32262
Twist Step Drill 2.8/3.2 7–15 mm	34638
Twist Step Drill 2.8/3.2 10–18 mm	34639
Twist Step Drill 3.2/3.6 7–10 mm	32263
Twist Step Drill 3.2/3.6 7–15 mm	32264
Twist Step Drill 3.2/3.6 10–18 mm	32265
Twist Step Drill 3.8/4.2 7–10 mm	32275
Twist Step Drill 3.8/4.2 7–15 mm	32276
Twist Step Drill 3.8/4.2 10–18 mm	32277
Twist Step Drill 4.2/4.6 7–15 mm	34582
Twist Step Drill 4.2/4.6 10–18 mm	34583
Drill Kit 7–15 mm	35425



### 35425 Drill Kit 7–15 mm includes:



32297 Twist Drill with Tip 2 × 7–15 mm



32261 Twist Step Drill 2.4/2.8 7–15 mm



35426 Guide Drill

## Counterbores

Brånemark System® Counterbore NP	32281
Brånemark System® Counterbore RP	32283
Brånemark System® Counterbore WP	32285
NobelReplace® Counterbore NP	32282
NobelReplace® Counterbore RP	32284
NobelReplace® Counterbore WP	32286
NobelReplace® Counterbore 6.0	32288



**Screw Taps**

Screw Tap NP 10–15 mm	32289
Screw Tap RP Ø 3.75 7–13 mm	32290
Screw Tap RP Ø 3.75 7–18 mm	32291
Screw Tap RP Ø 4 7–13 mm	33072
Screw Tap RP Ø 4 7–18 mm	33073
Screw Tap WP Ø 5 7–13 mm	32292
Screw Tap WP Ø 5 7–18 mm	32293
Screw Tap WP Ø 6 7–13 mm	32294
Screw Tap WP Ø 6 7–18 mm	32295



Direction Indicator Ø 2/Ø 2.4–2.8 mm	32112
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**Implant Drivers**

Implant Driver Brånemark System® NP 26 mm	29126
Implant Driver Brånemark System® NP 34 mm	29127
Implant Driver Brånemark System® RP 21 mm	29129
Implant Driver Brånemark System® RP 26 mm	29130
Implant Driver Brånemark System® RP 34 mm	29131
Implant Driver Brånemark System® WP 21 mm	29134
Implant Driver Brånemark System® WP 26 mm	29135



Implant Driver NobelReplace® NP Short	36124
Implant Driver NobelReplace® NP Long	36125
Implant Driver NobelReplace® RP Short	36126
Implant Driver NobelReplace® RP Long	36127
Implant Driver NobelReplace® WP Short	36128
Implant Driver NobelReplace® WP Long	36129
Implant Driver NobelReplace® 6.0 Short	36130
Implant Driver NobelReplace® 6.0 Long	36131



**Bone Mills and Guides (machine)**

Bone Mill Guide Brånemark System® NP	33496
Bone Mill Guide Brånemark System® RP	33497
Bone Mill Guide Brånemark System® WP	33498
Bone Mill with Guide Brånemark System® NP Ø 4.5 mm	33392
Bone Mill with Guide Brånemark System® RP Ø 5.1 mm	33393
Bone Mill with Guide Brånemark System® WP Ø 6.5 mm	33495



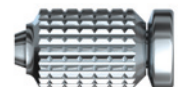
Bone Mill Guide NobelReplace® NP	36608
Bone Mill Guide NobelReplace® RP	36609
Bone Mill Guide NobelReplace® WP	36610
Bone Mill Guide NobelReplace® 6.0	33509
Bone Mill with Guide NobelReplace® NP Ø 4.6 mm	36830
Bone Mill with Guide NobelReplace® RP Ø 5.3 mm	36831
Bone Mill with Guide NobelReplace® WP Ø 6.5 mm	36832
Bone Mill with Guide NobelReplace® 6.0 Ø 7.0 mm	33505

**Bone Mills (manual)**

Bone Mill Brånemark System® NP	28977
Bone Mill Brånemark System® RP	28978
Bone Mill Brånemark System® WP	28979



Handle for machine instruments	29161
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Implant Retrieval Tool	36139
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The implant retrieval tool can be used to remove implants NP and RP in case the implant connection has been damaged and the ordinary implant driver cannot be used to remove the implant. It has an external hexagonal fitting that fits the Manual Torque Wrench Surgical (Art. No. 28839) including the Manual Torque Wrench Adapter (Art. No. 28840). The implant retrieval tool is for single use only and is delivered sterile.

**Cover Screws**

Cover Screw Brånemark System® NP	28986
Cover Screw Brånemark System® RP	28987
Cover Screw Brånemark System® WP	28988



Cover Screw NobelReplace® NP	29433
Cover Screw NobelReplace® RP	29434
Cover Screw NobelReplace® WP	29435
Cover Screw NobelReplace® 6.0	30087



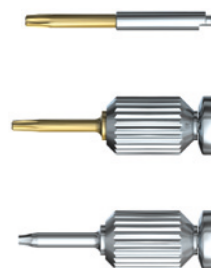
**Manual Torque Wrench**

Brånemark System® Manual Torque Wrench Surgical Adapter Surgical	32110 32111
NobelReplace® Manual Torque Wrench Surgical Adapter Surgical	28839 28840
Manual Torque Wrench Prosthetic Manual Torque Wrench Adapter Prosthetic	29165 29167



**Screwdrivers**

Screwdriver Machine Unigrip™ 20mm	29151
Screwdriver Machine Unigrip™ 25mm	29152
Screwdriver Machine Unigrip™ 30mm	29153
Screwdriver Machine Unigrip™ 35mm	29154
Screwdriver Manual Unigrip™ 20mm	29148
Screwdriver Manual Unigrip™ 28mm	29149
Screwdriver Manual Unigrip™ 36mm	29150
Cover Screw Driver Brånemark System® Hexagon	DIB 097-0



Surgical Drape Kit 2-pack	12T7400
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Drill Extension Shaft	29164
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Surgical Driver	32180
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Nobel Biocare® Osteotome Kit	32321
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# Temporary restorations


The following temporary abutments are the ones shown in this procedures manual.  
For the full assortment of abutments, see the Nobel Biocare product catalog.

## External hex connection

### Temporary Abutments

Immediate Temporary Abutment Brånemark System® NP	31643	
Immediate Temporary Abutment Brånemark System® RP	31644	
Immediate Temporary Abutment Brånemark System® WP	31655	
Plastic Coping Immediate Temporary Abutment	31656	
QuickTemp™ Abutment Conical Brånemark System® NP	33401	
QuickTemp™ Abutment Conical Brånemark System® RP	33402	
QuickTemp™ Abutment Conical Brånemark System® WP	33403	
Plastic Coping QuickTemp™ Abutment Conical	33404	
Temporary Abutment Non-Engaging Brånemark System® NP	29029	
Temporary Abutment Non-Engaging Brånemark System® RP	29031	
Temporary Abutment Non-Engaging Brånemark System® WP	29033	
Temporary Abutment Engaging Brånemark System® NP	29028	
Temporary Abutment Engaging Brånemark System® RP	29030	
Temporary Abutment Engaging Brånemark System® WP	29032	

### Healing Abutments

Healing Abutment Brånemark System® NP Ø 3.5 × 3 mm	33441	
Healing Abutment Brånemark System® NP Ø 3.5 × 5 mm	33442	
Healing Abutment Brånemark System® NP Ø 4.5 × 3 mm	33443	
Healing Abutment Brånemark System® NP Ø 4.5 × 5 mm	33444	
Healing Abutment Brånemark System® RP Ø 4 × 3 mm	33445	
Healing Abutment Brånemark System® RP Ø 4 × 5 mm	33446	
Healing Abutment Brånemark System® RP Ø 5 × 3 mm	29137	
Healing Abutment Brånemark System® RP Ø 5 × 5 mm	29139	
Healing Abutment Brånemark System® WP Ø 5 × 3 mm	33447	
Healing Abutment Brånemark System® WP Ø 5 × 5 mm	33448	
Healing Abutment Brånemark System® WP Ø 6 × 3 mm	29141	
Healing Abutment Brånemark System® WP Ø 6 × 5 mm	29143	

## Internal tri-channel connection

### Temporary Abutments

Immediate Temporary Abutment NobelReplace® NP	31637
Immediate Temporary Abutment NobelReplace® RP	31639
Immediate Temporary Abutment NobelReplace® WP	31640
Immediate Temporary Abutment NobelReplace® 6.0	31641
Plastic Coping Immediate Temporary Abutment	31656
QuickTemp™ Abutment Conical NobelReplace® NP	33398
QuickTemp™ Abutment Conical NobelReplace® RP	33399
QuickTemp™ Abutment Conical NobelReplace® WP	33400
Plastic Coping QuickTemp™ Abutment Conical	33404
Temporary Abutment Non-Engaging NobelReplace® NP	36835
Temporary Abutment Non-Engaging NobelReplace® RP	29037
Temporary Abutment Non-Engaging NobelReplace® WP	29039
Temporary Abutment Non-Engaging NobelReplace® 6.0	31457
Temporary Abutment Engaging NobelReplace® NP	36834
Temporary Abutment Engaging NobelReplace® RP	29036
Temporary Abutment Engaging NobelReplace® WP	29038
Temporary Abutment Engaging NobelReplace® 6.0	31456



### Healing Abutments

Healing Abutment NobelReplace® NP Ø 3.5 × 3 mm	29436
Healing Abutment NobelReplace® NP Ø 3.5 × 5 mm	29437
Healing Abutment NobelReplace® NP Ø 4.5 × 3 mm	33449
Healing Abutment NobelReplace® NP Ø 4.5 × 5 mm	33450
Healing Abutment NobelReplace® RP Ø 4.3 × 3 mm	33535
Healing Abutment NobelReplace® RP Ø 4.3 × 5 mm	33536
Healing Abutment NobelReplace® RP Ø 5.3 × 3 mm	33451
Healing Abutment NobelReplace® RP Ø 5.3 × 5 mm	33452
Healing Abutment NobelReplace® WP Ø 5.0 × 3 mm	33453
Healing Abutment NobelReplace® WP Ø 5.0 × 5 mm	33454
Healing Abutment NobelReplace® WP Ø 6.0 × 3 mm	29446
Healing Abutment NobelReplace® WP Ø 6.0 × 5 mm	29447
Healing Abutment NobelReplace® 6.0 Ø 6.0 × 3 mm	29998
Healing Abutment NobelReplace® 6.0 Ø 6.0 × 5 mm	29999
Healing Abutment NobelReplace® 6.0 Ø 7.0 × 3 mm	33455
Healing Abutment NobelReplace® 6.0 Ø 7.0 × 5 mm	33457





# Impression copings and implant replicas

For full assortment of impression copings see the Nobel Biocare product catalog.

## External hex connection

### Impression Copings Closed Tray

Impression Coping Closed Tray Brånemark System® NP Ø3.5 mm	33462
Impression Coping Closed Tray Brånemark System® NP Ø4.5 mm	33463
Impression Coping Closed Tray Brånemark System® RP Ø4.0 mm	33464
Impression Coping Closed Tray Brånemark System® RP Ø5.0 mm	29073
Impression Coping Closed Tray Brånemark System® WP Ø5.0 mm	33465
Impression Coping Closed Tray Brånemark System® WP Ø6.0 mm	29075



### Impression Copings Open Tray

Impression Coping Open Tray Brånemark System® NP Ø3.5 mm	33458
Impression Coping Open Tray Brånemark System® NP Ø4.5 mm	33459
Impression Coping Open Tray Brånemark System® RP Ø4.0 mm	33460
Impression Coping Open Tray Brånemark System® RP Ø5.0 mm	29072
Impression Coping Open Tray Brånemark System® WP Ø5.0 mm	33461
Impression Coping Open Tray Brånemark System® WP Ø6.0 mm	29074



### Implant Replicas

Implant Replica Brånemark System® NP	31158
Implant Replica Brånemark System® RP	31159
Implant Replica Brånemark System® RP 5/pkg	29108
Implant Replica Brånemark System® WP	31160



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**Internal tri-channel connection**
**Impression Copings Closed Tray**

Impression Coping Closed Tray NobelReplace® NP Ø3.5 mm	33537
Impression Coping Closed Tray NobelReplace® NP Ø4.5 mm	33470
Impression Coping Closed Tray NobelReplace® RP Ø4.3 mm	33540
Impression Coping Closed Tray NobelReplace® RP Ø5.3 mm	33471
Impression Coping Closed Tray NobelReplace® WP Ø5.0 mm	33472
Impression Coping Closed Tray NobelReplace® WP Ø6.0 mm	29494
Impression Coping Closed Tray NobelReplace® 6.0 Ø6.0 mm	30040
Impression Coping Closed Tray NobelReplace® 6.0 Ø7.0 mm	33473


**Impression Copings Closed Tray Low Profile**

Impression Coping Closed Tray Low Profile NobelReplace® NP Ø3.5 mm	33538
Impression Coping Closed Tray Low Profile NobelReplace® NP Ø4.5 mm	33474
Impression Coping Closed Tray Low Profile NobelReplace® RP Ø4.3 mm	33541
Impression Coping Closed Tray Low Profile NobelReplace® RP Ø5.3 mm	33475
Impression Coping Closed Tray Low Profile NobelReplace® WP Ø5.0 mm	33476
Impression Coping Closed Tray Low Profile NobelReplace® WP Ø6.0 mm	32178
Impression Coping Closed Tray Low Profile NobelReplace® 6.0 Ø6.0 mm	32179
Impression Coping Closed Tray Low Profile NobelReplace® 6.0 Ø7.0 mm	33477


**Impression Copings Closed Tray Plastic**

Impression Coping Closed Tray Plastic NobelReplace® NP Ø3.5 mm	35390
Impression Coping Closed Tray Plastic NobelReplace® NP Ø4.5 mm	35395
Impression Coping Closed Tray Plastic NobelReplace® RP Ø4.3 mm	35406
Impression Coping Closed Tray Plastic NobelReplace® RP Ø5.3 mm	35396
Impression Coping Closed Tray Plastic NobelReplace® WP Ø5.0 mm	35397
Impression Coping Closed Tray Plastic NobelReplace® WP Ø6.0 mm	35391
Impression Coping Closed Tray Plastic NobelReplace® 6.0 Ø6.0 mm	35394
Impression Coping Closed Tray Plastic NobelReplace® 6.0 Ø7.0 mm	35399


**Impression Copings Open Tray**

Impression Coping Open Tray NobelReplace® NP Ø3.5 mm	29485
Impression Coping Open Tray NobelReplace® NP Ø4.5 mm	33466
Impression Coping Open Tray NobelReplace® RP Ø4.3 mm	33539
Impression Coping Open Tray NobelReplace® RP Ø5.3 mm	33467
Impression Coping Open Tray NobelReplace® WP Ø5.0 mm	33468
Impression Coping Open Tray NobelReplace® WP Ø6.0 mm	29493
Impression Coping Open Tray NobelReplace® 6.0 Ø6.0 mm	30039
Impression Coping Open Tray NobelReplace® 6.0 Ø7.0 mm	33469


**Implant Replicas**

Implant Replica NobelReplace® NP	29498
Implant Replica NobelReplace® NP 20/pkg	29499
Implant Replica NobelReplace® RP	29500
Implant Replica NobelReplace® RP 20/pkg	29501
Implant Replica NobelReplace® WP	29502
Implant Replica NobelReplace® WP 20/pkg	29503
Implant Replica NobelReplace® 6.0	29995

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# Drill motors

## OsseoCare Pro – setting a smarter standard

The OsseoCare Pro combines unique handling features and an intuitive iPad® based interface – providing highest treatment efficiency and security.

With Contra-angle CA 20:1 L Micro-Series 1700470-001  
 With Contra-angle CA 20:1 L Micro-Series Kirschner-Meyer 1700471-001



## OsseoCare – precision in your hands

The powerful drill motor for a reliable treatment.

With Contra-angle CA 20:1 L Micro-Series 1700472-001  
 With Contra-angle CA 20:1 L Micro-Series Kirschner-Meyer 1700473-001  
 With Contra-angle CA 20:1 L Micro-Series (with software for US & Canadian market) 1700474-001  
 With Contra-angle CA 20:1 L Micro-Series Kirschner-Meyer (with software for US & Canadian market) 1700475-001



## Accessories

Irrigation Line (10/pkg) 1500984-010  
 Irrigation Clip (10/pkg) 1303711-010  
 Irrigations System Kirschner-Meyer 20:1 L (10/pkg) 1501621-010  
 Irrigation Line Kirschner-Meyer (10/pkg) 1501635-010  
 Handpiece / Motor Holder 1301575-001  
 Gallows for irrigation fluid 1303393-001  
 Contra-angle CA 20:1 L Micro-Series 1600873-001  
 Contra-angle CA 20:1 L Micro-Series Kirschner-Meyer 1600874-001  
 Motor MX-i LED® 1600875-001  
 Cable for MX-i LED® 1600606-001  
 Foot Control 1600631-001  
 Safety Fuse Ø5×20 250V (10/pkg) 1301560-010  
 Holder for iPad® 1 1305283-001  
 Holder for iPad® 2 1305284-001  
 Holder for iPad® 3 1305504-001  
 Screwdriver 1305436-001  
 Sterile Protection Film (10/pkg) 1501746-010



Contra-Angle for external irrigation

Kirschner Meyer hand-piece for external and internal irrigation

# Manual torque wrench

For the surgeon, the torque required to place implants provides insight into the initial stability of the implant. For restorative procedures, tightening the abutment and prosthetic screws to recommended torque specifications will more effectively control screw-joint integrity during patient function.

The manual torque wrench is a convenient tool for achieving the desired torque.

### Manual Torque Wrench – Surgical

Intended for tightening or adjusting implant position.  
 – Insert Implant Driver Wrench Adapter Brånemark System or Implant Driver NobelReplace.



### Manual Torque Wrench – Prosthetic

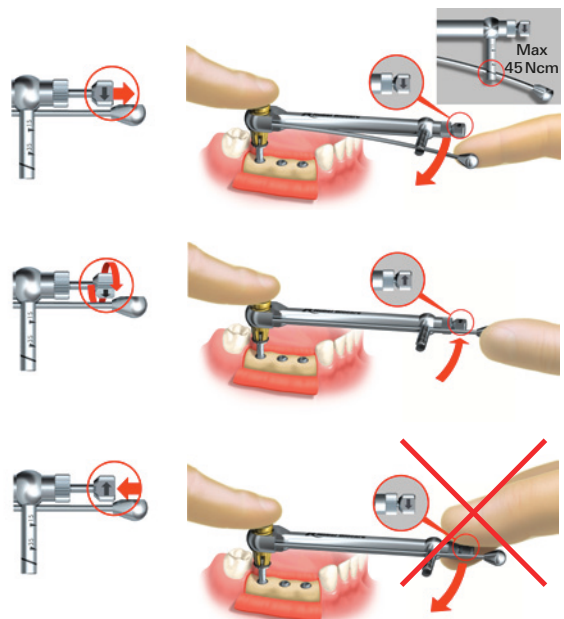
Intended for retaining screws with a tightening torque of 15–35 Ncm. Compatible with all machine screwdrivers.  
 – Insert the applicable driver.



### Use of Manual Torque Wrench Surgical

- Assemble the torque wrench by inserting the implant driver.
- To tighten an implant, adjust the direction indicator so that the arrow is pointing toward the level arm and rotate clockwise.
- To loosen an implant, adjust the direction indicator so that the arrow is pointing away from the level arm and rotate counter-clockwise.

**Warning:** Using the wrench body instead of the level arm may result in excessive torque being transferred to the screw and/or implant site.



# Osteotomes

The osteotomes are intended to be used in soft bone.

After initial twist-drill preparation to identified depth, the osteotomes are used to manually form the site by compressing the bone laterally, resulting in a denser bone-to-implant interface, rather than removing valuable bone from the surgical site.

Nobel Biocare osteotomes incorporate a universal design and can be used with Brånemark System, NobelReplace Tapered and Straight, Replace Select Tapered and Straight, NobelActive, NobelSpeedy, and NobelDirect implants.

## Procedure

- Mark and drill the initial pilot holes with Drill Ø 2 mm to full depth.
- Insert tip of osteotome Ø 2.5 mm into pilot hole and push the instrument into the bone while rotating it, avoiding side-to-side or off-axis leverage. In denser bone, it may be necessary to use a mallet to tap the osteotome to the proper depth.
- Leave the osteotome in place for about 10 seconds to allow the bone to relax.
- Remove the osteotome by simultaneously rotating the tool and withdrawing it.
- Using the same technique, continue with osteotomes Ø 3.0–5.0 mm to enlarge the site sequentially to the desired width and depth.

**Note:** The osteotome seating depths and diameters can vary from the standard procedure based on the judgement of the surgeon. In some situations, a stepped procedure may be used where the final osteotome is not seated to the full depth. This allows the tip of the implant to engage before the self-tapping delivery is begun.



The depth markings on the osteotomes correspond to the actual lengths: 8, 10, 13 and 16 mm.

# Drill stops

## Drill Stop Kit 32430

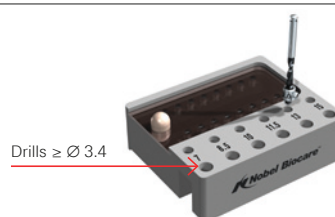
Kit includes	
Drill Stop Kit Box	33062
Drill Stop Ø 2 mm	33063
Drill Stop Ø 2.8 mm	33064
Drill Stop Ø 3 mm	33075
Drill Stop Ø 3.2 mm	33077
Drill Stop Ø 3.4 mm	33078
Drill Stop Ø 3.6 mm	33084
Drill Stop Ø 4.2 mm	33081



The drill stops allow for a safe and accurate surgical procedure by pre-determining the drill depth of twist drills and twist step drills. The kit is used to store, autoclave and facilitate the mounting of the drill stops.

### 1 Mount drill stop

- Slide drill stop onto corresponding drill.
- Place drill in mounting hole corresponding to desired drill depth. Use large holes for drills Ø 3.4 and above.



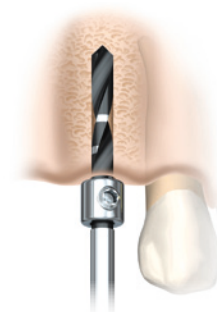
### 2 Tighten drill stop

Tighten the screw on the drill stop using Screwdriver Unigrip.



### 3 Drill to drill stop

Drill until predetermined drill depth is reached.



# Cleaning and sterilization

## Sterile components

The devices delivered sterile have a “Sterile” marking on the label. Opened packages of components that have never entered the oral cavity of a patient may be cleaned and sterilized/ autoclaved again, following the procedures stated below.



**Note:** Implants should never be re-sterilized.

## Implants

Implants are delivered sterile, are for single-use only, and must be used prior to the labeled expiration date. Do not use implants if the packaging has been damaged or previously opened.



## Twist and twist step drills, precision drill, screw taps and counterbores

The drills are disposable, delivered sterile, and should be discarded after use.



## Abutments and plastic copings

Multi-unit Abutment, Snappy Abutment, QuickTemp Abutment, and Immediate Temporary Abutment are delivered sterile. If re-sterilization is required, use steam sterilization for 5 minutes at 135°C/274°F.

### Notes:

- For re-sterilization of straight Multi-unit Abutment, remove plastic holder prior to procedure.
- Sterile plastic copings are for single-use only and should not be re-sterilized.



### Non-sterile components

Care and maintenance of reusable instruments are crucial for successful treatment. Well-maintained instruments not only safeguard your patients and staff against infection, but also are essential for the outcome of the total treatment.

### Surgical kit and kit box

For sterilization, use steam sterilization for 5 minutes at 135°C/274°F.



### Contra-angle

For cleaning and sterilization procedures, see specific instructions from respective manufacturer.

### Abutments and plastic copings

Abutments made of titanium, gold alloy, and plastic (PEEK) are delivered non-sterile. It is recommended to sterilize the abutment prior to placing it in the oral cavity. For sterilization, use steam sterilization for 5 minutes at 135°C/274°F.

#### Notes:

- If modifications have been made to the abutment, clean the abutment prior to sterilization.
- Non-sterile plastic copings should not be re-sterilized, as they are for single-use only.

### Zirconia abutments and Procera® Esthetic Abutment Selection Kit

Abutments and kit are delivered non-sterile. For sterilization, use steam sterilization for 5 minutes at 135°C/274°F.

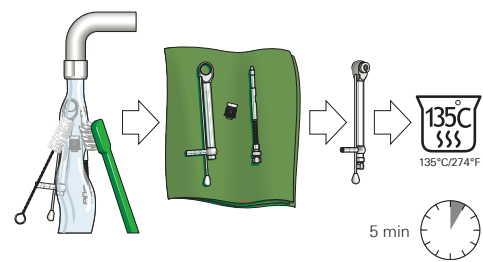




## Instruments, tooling, impression copings in metal, manual torque wrench

### Pre-cleaning

1. Remove residual tissue or bone by immersing the used instruments in cold water (<math><40^{\circ}\text{C}/104^{\circ}\text{F}</math>). Do not use fixation agents or hot water (>math>>40^{\circ}\text{C}/104^{\circ}\text{F}</math>) as this could influence subsequent cleaning results. Instruments should be kept in a wet environment until the next step is initiated.
2. Soak the instruments in 0.5% enzymatic cleaning solution (e.g enzymatic detergent with a pH level between 6–9) prepared with luke warm tap water for 5 minutes. Cleaning agents are available commercially. Please ask your supplier for details.
3. Scrub the outer, and if applicable also inner side of the instruments with a suitable soft-bristled nylon brush until all visible soil is removed.
4. Rinse outer and inner sides of the instruments with tap water to remove all cleaning solution.



### Automated cleaning, disinfection, and drying

1. Place the instruments on an instrument rack and load the instrument rack into the washer/disinfector. Start the cycle by applying the following:
  - a. 2 minutes pre-cleaning with cold water and emptying.
  - b. 5 minutes cleaning at 55°C/131°F with 0.5% cleaner Neodisher mediclean (Enzyme, NTA, Tenside) or equivalent (if Neodisher mediclean is not available in your market) and emptying.
  - c. 3 minutes neutralization with tap water and emptying.
  - d. 2 minutes intermediate rinsing with cold tap water and emptying.
2. Special instructions provided by the manufacturers of automated washing machines must be followed. Cleaning disinfectants are available commercially.



3. Dry the outer side of the instruments through drying cycle of washer/disinfector.
4. If needed, additional manual drying can be performed with a lint-free towel. Insufflate cavities of instruments by using sterile compressed air.

#### Functional testing and maintenance

Visually inspect for cleanliness with magnifying glasses. If necessary, perform reprocessing process again until the instruments are visibly clean.

#### Packaging

Place instruments in sterilization packets.

#### Sterilization

Sterilize the instruments by applying a fractionated pre-vacuum process (according to ISO 13060 / ISO 17665) following any respective country requirements.

*Parameters for the pre-vacuum cycle:*

- 3 pre-vacuum phases with at least 60 millibar

*New cycle:*

- Heat up to a minimum sterilization temperature of 132°C–134°C/269.6°F–273.2°F
- Maximum temperature: 135°C/274°F
- Minimum holding time: 3 minutes
- Drying time: minimum 10 minutes

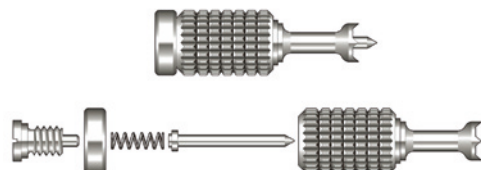
#### Storage

Store sterilized instruments in a dry, clean and dust-free environment at modest temperatures of 5°C to 40°C/41°F–104°F.

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#### Cover Screw Mill

1. Unscrew the screw on the back of the handle and remove the handle.
2. Remove the spring.
3. Remove the pin.
4. Clean the Cover Screw Mill as described above.
5. Let the items dry completely before re-assembling.
6. Sterilize as described above.



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