

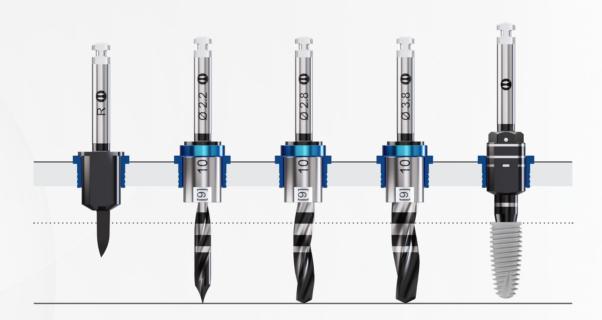


Developed By P-I Brånemark





Fully Guided Surgery novel stepwise approach



Precision • Sensitivity • Versatility









The P-I Brånemark • Guided & Conventional novel stepwise approach was developed to simplify clinical procedures and reduce the potential risks associated with guided surgery providing flexibility for conventional procedures by using the same Instruments and Kit.

Designed to increase tridimensional accuracy of Implant positioning, the Instruments overcome the inherent tactile feedback reduction, visualization and access limitations of surgical site preparation and Implant installation when using surgical guides.

Combined with the MT-F Implant System, the novel Guided & Conventional concept is a stepwise approach to the modern, immediate and digitalized implantology which keeps clinicians focused on patients and in control of procedures, even when plans change during surgery.

The P-I Guided & Conventional provides a predictable, minimally invasive and versatile solution for precise tridimensional positioning of Implants with an optimal esthetic outcome when used with integrated digital diagnostic, planning and prosthetic software.







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Guided & Conventional

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Wash Tray Surgical + Prosthetic





State-of-the-art

Less friction

Only titanium Stop is in contact with Sleeve

Less trauma

Constant apical angle • Diamond Like Carbon

High performance

P-I custom technology

Exceptional cutting performance

P-I Conical Drills' performance in dense bone, at the highest recommended rotation, without gradual diameter increments and applying constant feeding, present a very low friction coefficient therefore lower temperature transmission to bone tissue. Data on file.



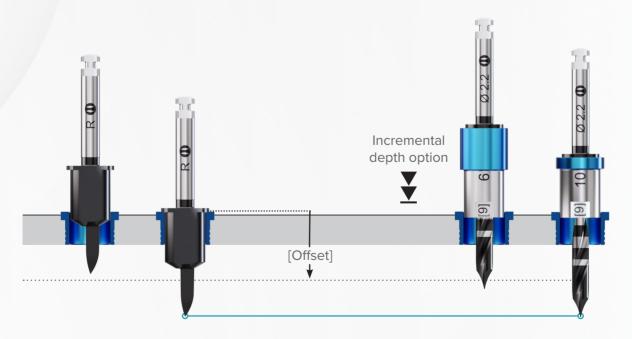
Drill frictionless through Sleeve

Screw-retained Stops are the only contact with Sleeves • Titanium to titanium Initial and Conical Drills do not rotate against surgical guide or Sleeves Potential reduction of both temperature and debris release on surgical site



Fully Guided • Precision in all steps

Crestal Drills are continuously guided through Sleeves in Offset [9] and [10.5] Initial and Conical Drills are oriented by previous drilling steps and Stops Screw-retained Stops provide accuracy and stability



Same Instruments for Guided & Conventional

Guided Surgery - GS identification



Guided • All



Narrow - N



Regular - R • Long - L



Regular - R • Short - S

For conventional procedure





Short and Long Drills GS

Insertion Drivers GS

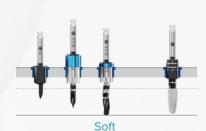
Unmatched versatility

Less Instruments • Keyless • Mountless

Shorter Drills and Stops can be used for incremental preparation depth of osteotomy Stops can be pre-assembled according to planning

▼ Incremental depth option

__ MT-F 3.75 x 10 • Offset [9]







Full depth option

_ MT-F 3.75 x 10 • Offset [9]





Surgical Sequence according to bone density

Implant installation





Effective Insertion Torque Value



Reduced contact area • Diamond Like Carbon • Less friction on Sleeve Safe pick-up, installation and removal • Avoids undesired movement Possible further Implant submersion through Sleeve

Handpiece • Manual • Torque Wrench

Combinations Narrow Regular Regular Short Long Drill • GS Stop • GS 🗘 drilling depth [Offset] reference [Offset] Sleeve • GS [9] top of Sleeve 10 13 8.5 11.5 13 • MTF 11.5

[10.5] Offset [10.5] and Biological Width oriented positioning should consider drilling depth compensation.

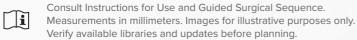
Offset [10.5] cannot be used with MT-F h = 15.

3.75

4.1

h=18 For MT-F h=18 use Drill Stop - GS - 15, and the final drilling depth is determined conventionally without surgical guide.

4.8 For MT-F Ø4.8 use Conical Drill - GS - 3.8 for soft bone. The following drilling steps are performed conventionally without surgical guide. Implant insertion can be performed through Sleeve - GS - R.





Dimensions





Regular Short 35

Regular Long 40



Drill • GS









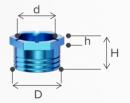


Stop • GS 🗘









| d | 1.8 | 3.5 | 5 |
|---|-----|-----|---|
| D | 4.2 | 4 | 6 |
| h | 0.7 | 1 | 1 |
| Н | 7 | 4 | 4 |
| f | 5 | 4.5 | 6 |
| F | 5 | 4.5 | 7 |





Sleeve - GS - N can also be used in limited spaces and for marking the initial drilling steps preceding conventional (free hand) surgical site finalization for the sleeveless installation of MT-F Ø3.75, 4.1 and 4.8.



Consult Instructions for Use, Implant Dimensions and Guided Surgical Sequence. Measurements in millimeters. Images for illustrative purposes only. Verify available libraries and updates before planning.

• Dimensions









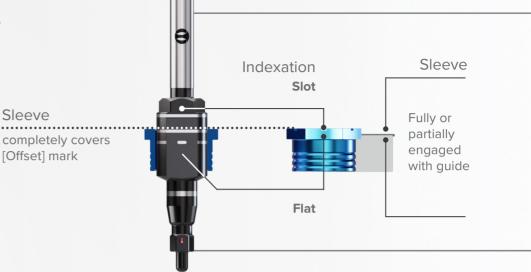
One Interface for all Implants



DIGITAL Prosthetic Solutions at pibranemark.com

Alignments







• The flat part of the Sleeve - R and the Sleeves' slots can be positioned buccally to align with the prosthetic orientation of the Implant Insertion Driver (flat areas, upper hexagon and precision dot) which are aligned to Implant and Prosthetic Components' indexation.



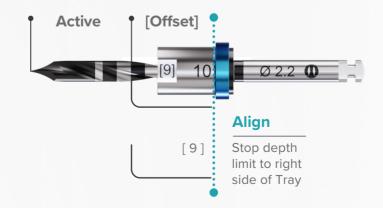


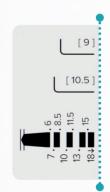
- For angled Conical Abutments, and in case of mesiodistal space limitation, the flat part of the Sleeve - R can be mesially oriented leading to a Sleeve corner to buccal positioning.
- When the Sleeve R is positioned corner to buccal, the prosthetic orientation of the Implant Insertion Driver can be directed to the corner of the Sleeve - R, and between the Sleeves' slots, for a buccal indexation of Implant and Prosthetic Components (except with angled Conical Abutments).

⚠ A minimum distance of 3mm should be ensured between 2 Implants

Depth verification

Offset [9] example





Wash Tray • GS

Surgical + Prosthetic



Guided & Conventional

181040

All Instruments



Guided +

181041

Guided Surgery Instruments only includes Prosthetic Instruments



Tray • GS

131162

Tray only

| width | 190 |
|--------|-----|
| height | 61 |
| depth | 138 |

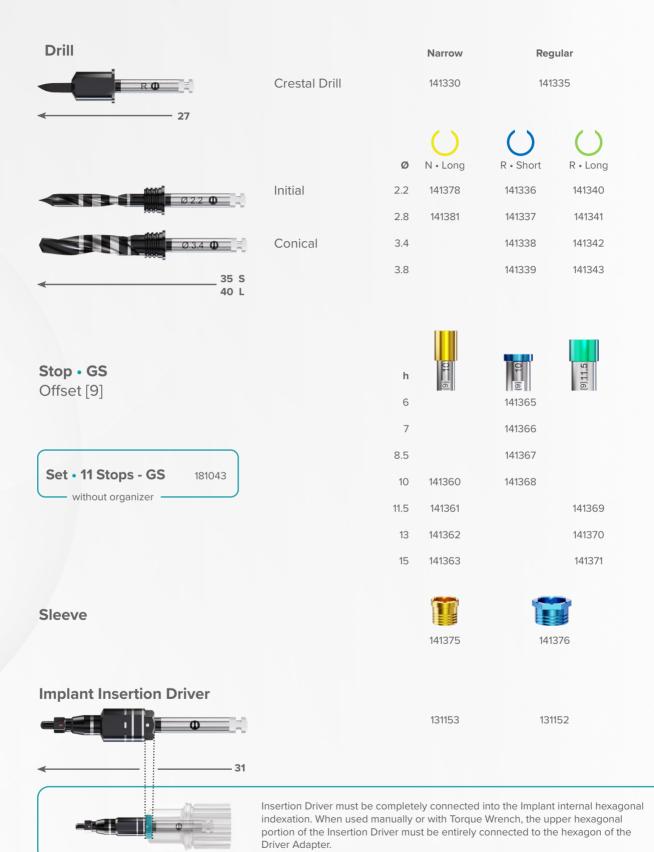


Stop Organizer • GS

141399

Organizer [9] only

Instruments • GS



Guide Fixation



Sleeve - Pin

141382



Pin Drill Ø1.7

141377



Fixation Pin

131167



Surgical Accessories

| | | Narrow | Regular |
|-------------|-------------------|--------|---------|
| Punch | | | |
| R O | Soft Tissue Punch | 141331 | 141332 |
| ← 9 | | | |
| | | | |
| Dense Drill | | | |
| R O | Dense Drill | 141344 | 141345 |
| 28 | | | |

Torque Wrench Kit



Prosthetic Instruments

| Hexagonal Ø 1.2 | Short Medium Long | 131010 131011 131012 |
|--|-------------------------|----------------------------|
| Conical Abutment Ø 2.0 Handling Tool, Angled | Short Medium | 131016 131017 102964 |
| Retriever MT | Short Medium | 141564 131131 |

Surgical Accessories • GS



In the event Stop cannot be easily removed by hand, use handpiece in reverse or the Surgical Adapter, with or without Torque Wrench, to stabilize the Drill and apply manual counter torque on the Stop using the Stop Removal Tool.



- Manufactured by Elos MedTech Pinol A/S 🕍 . Torque Wrench Kit includes Surgical & Prosthetic Adapters.
- Stop Removal Tool should be used when Surgical Adapter is not sufficient for the removal of Stop from Drill.
 Depth Probe is not part of Kit GS and should be ordered separately.

Stop · Conventional







| | () | () |
|------|-----------|----------|
| | R • Short | R • Long |
| h | | |
| 6 | 141592 | |
| 7 | 141593 | |
| 8.5 | 141594 | |
| 10 | 141590 | |
| 11.5 | 141591 | 141584 |
| 13 | 141600 | 141586 |
| 15 | 141601 | 141586 |
| 18 | | 141602 |

Guided Surgical Sequence



The subsequent Conical Drill, in terms of diameter, should be considered with a drilling depth of 6 mm, in order to not exceed 70 Ncm of Insertion Torque Value. The use of Dense Drills (15 - 50 rpm) can also be considered to lower the Insertion Torque Value. The use of Soft Tissue Punch (15 - 50 rpm) precedes Crestal Drill - GS use and can also be used in conventional surgery procedures.

Consult Instructions for Use and Guided Surgical Sequence in detail.



Guided Surgical Sequence in detail

| ● MT-F | | Gu | Guide | | Guided Surgical Sequence | | | | | |
|--------|------|--------|--------|-------------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|-------------------|
| | | Offset | Sleeve | | 0 | 2 | | 3 Bone Densit | у | |
| Ø | h | 011300 | | Punch optional | Crestal | Initial | SOFT | NORMAL | DENSE | Implant Driver |
| | | | | 15-50 rpm | 600 - 1,200 rpm | 600 - 1,200 rpm | | 600 - 1,200 rpm | | ≤ 70 Ncm |
| 3.3 | 8.5 | [9] | R | R | R | Ø 2.2 + 8.5 | Ø 2.8 + 6 ▲ | Ø 2.8 + 8.5 | Ø 3.4 + 6 | R |
| 3.3 | 10.0 | [9] | R | R | R | Ø 2.2 + 10 | Ø 2.8 + 6 ▲ | Ø 2.8 + 10 | Ø 3.4 + 6 | R |
| 3.3 | 11.5 | [9] | R | R | R | Ø 2.2 + 11.5 | Ø 2.8 + 6 ▲ | Ø 2.8 + 11.5 | Ø 3.4 + 6 | R |
| 3.3 | 13.0 | [9] | R | R | R | Ø 2.2 + 13 | Ø 2.8 + 6 ▲ | Ø 2.8 + 13 | Ø 3.4 + 6 | R |
| 3.3 | 15.0 | [9] | R | R | R | Ø 2.2 + 15 | Ø 2.8 + 6 ▲ | Ø 2.8 + 15 | Ø 3.4 + 6 | R |
| 3.75 | 6.0 | [9] | R | R | R | Ø 2.2 + 6 | Ø 2.8 + 6 | Ø 3.4 + 6 ▲ | Ø 3.4 + 6 | R |
| 3.75 | 7.0 | [9] | R | R | R | Ø 2.2 + 7 | Ø 2.8 + 7 | Ø 3.4 + 6 ▲ | Ø 3.4 + 7 | R |
| 3.75 | 8.5 | [9] | R | R | R | Ø 2.2 + 8.5 | Ø 2.8 + 8.5 | Ø 3.4 + 6 ▲ | Ø 3.4 + 8.5 | R |
| 3.75 | 10.0 | [9] | R | R | R | Ø 2.2 + 10 | Ø 2.8 + 10 | Ø 3.4 + 6 ▲ | Ø 3.4 + 10 | R |
| 3.75 | 11.5 | [9] | R | R | R | Ø 2.2 + 11.5 | Ø 2.8 + 11.5 | Ø 3.4 + 6 ▲ | Ø 3.4 + 11.5 | R |
| 3.75 | 13.0 | [9] | R | R | R | Ø 2.2 + 13 | Ø 2.8 + 13 | Ø 3.4 + 6 ▲ | Ø 3.4 + 13 | R |
| 3.75 | 15.0 | [9] | R | R | R | Ø 2.2 + 15 | Ø 2.8 + 15 | Ø 3.4 + 6 ▲ | Ø 3.4 + 15 | R |
| 3.75 | 18.0 | [9] | R | R | R | Ø 2.2 + 15 | Ø 2.8 18 mark | Ø 3.4 6 mark ▲ | Ø 3.4 18 mark | R |
| 4.1 | 6.0 | [9] | R | R | R | Ø 2.2 + 6 | Ø 2.8 + 6 | Ø 3.4 + 6 ▲ | Ø 3.8 + 6 | R |
| 4.1 | 7.0 | [9] | R | R | R | Ø 2.2 + 7 | Ø 2.8 + 7 | Ø 3.4 + 7 ▲ | Ø 3.8 + 7 | R |
| 4.1 | 8.5 | [9] | R | R | R | Ø 2.2 + 8.5 | Ø 2.8 + 8.5 | Ø 3.4 + 8.5 ▲ | Ø 3.8 + 8.5 | R |
| 4.1 | 10.0 | [9] | R | R | R | Ø 2.2 + 10 | Ø 2.8 + 10 | Ø 3.4 + 10 ▲ | Ø 3.8 + 10 | R |
| 4.1 | 11.5 | [9] | R | R | R | Ø 2.2 + 11.5 | Ø 2.8 + 11.5 | Ø 3.4 + 11.5 ▲ | Ø 3.8 + 11.5 | R |
| 4.1 | 13.0 | [9] | R | R | R | Ø 2.2 + 13 | Ø 2.8 + 13 | Ø 3.4 + 13 ▲ | Ø 3.8 + 13 | R |
| 4.1 | 15.0 | [9] | R | R | R | Ø 2.2 + 15 | Ø 2.8 + 15 | Ø 3.4 + 15 ▲ | Ø 3.8 + 15 | R |

Incremental depth option

Possible use of shorter Stops - GS preceding final depth for increased angular accuracy through Sleeve

R = Regular • Short • Long ▲ Optional step for dense bone



• Guided Surgical Sequence in detail

| • N | ИТ-F | Gu | ide | Guided Surgical Sequence | | | | | | |
|-----|------|--------|--------|--------------------------|-----------------|------------------------|-----------------------------|------------------------|--------------------|------------------|
| | | Offset | Sleeve | | 1 | 2 | | 3 Bone Density | у | |
| Ø | h | | | Punch optional | Crestal | Initial | SOFT | NORMAL | DENSE | Implan Driver |
| | | | | 15-50 rpm | 600 - 1,200 rpm | 600 - 1,200 rpm | | 600 - 1,200 rpm | | ≤ 70 Ncm |
| 4.8 | 6.0 | [9] | R | R | R | Ø 2.2 + 6 | Ø 2.8 + 3.8 + 6 | Ø 4.6 6 mark ▲ | Ø 4.6 6 mark | R |
| 4.8 | 7.0 | [9] | R | R | R | Ø 2.2 + 7 | Ø 2.8 + 3.8 + 7 | Ø 4.6 6 mark ▲ | Ø 4.6 7 mark | R |
| 4.8 | 8.5 | [9] | R | R | R | Ø 2.2 + 8.5 | Ø 2.8 + 3.8 + 8.5 | Ø 4.6 6 mark ▲ | Ø 4.6 8.5 mark | R |
| 4.8 | 10.0 | [9] | R | R | R | Ø 2.2 + 10 | Ø 2.8 + 3.8 + 10 | Ø 4.6 6 mark ▲ | Ø 4.6 10 mark | R |
| 4.8 | 11.5 | [9] | R | R | R | Ø 2.2 + 10 | Ø 2.8 + 3.8 11.5 mark | Ø 4.6 6 mark ▲ | Ø 4.6 11.5 mark | R |
| 4.8 | 13.0 | [9] | R | R | R | Ø 2.2 + 10 | Ø 2.8 + 3.8 13 mark | Ø 4.6 6 mark ▲ | Ø 4.6 13 mark | R |
| 3.3 | 10.0 | [9] | | N | N | Ø 2.2 + 10 | Dense N ▲ | Ø 2.8 + 10 | Dense N | N |
| 3.3 | 11.5 | [9] | N | N | N | Ø 2.2 + 11.5 | Dense N ▲ | Ø 2.8 + 11.5 | Dense N | N |
| 3.3 | 13.0 | [9] | N | N | N | Ø 2.2 + 13 | Dense N ▲ | Ø 2.8 + 13 | Dense N | N |
| 3.3 | 15.0 | [9] | N | N | N | Ø 2.2 + 15 | Dense N ▲ | Ø 2.9 + 15 | Dense N | N |

Incremental depth option Possible use of shorter Stops - GS preceding final depth for increased angular accuracy through Sleeve

R = Regular N = Narrow

• Short • Long • Narrow

▲ Optional step for dense bone



Full

Prepare at planned full length of Implant position combining the Drills - GS and Stops - GS



In-Out

△ Coordinated in-and-out movement of Drill for better cooling



Irrigation

Constant cooled irrigation to the insertion margin of Drills



The subsequent Conical Drill, in terms of diameter, should be considered with a drilling depth of 6 mm, in order to not exceed 70 Ncm of Insertion Torque Value. The use of Dense Drills (15 - 50 rpm) can also be considered to lower the Insertion Torque Value.



[10.5]

Offset [10.5] and Biological Width oriented positioning should consider drilling depth





• Guided Surgical Sequence in detail











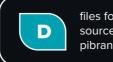
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files for open source software pibranemark.com

