



# Pro Guided Surgery

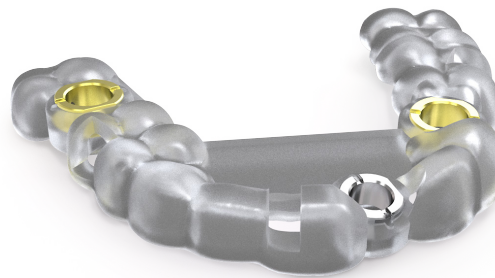
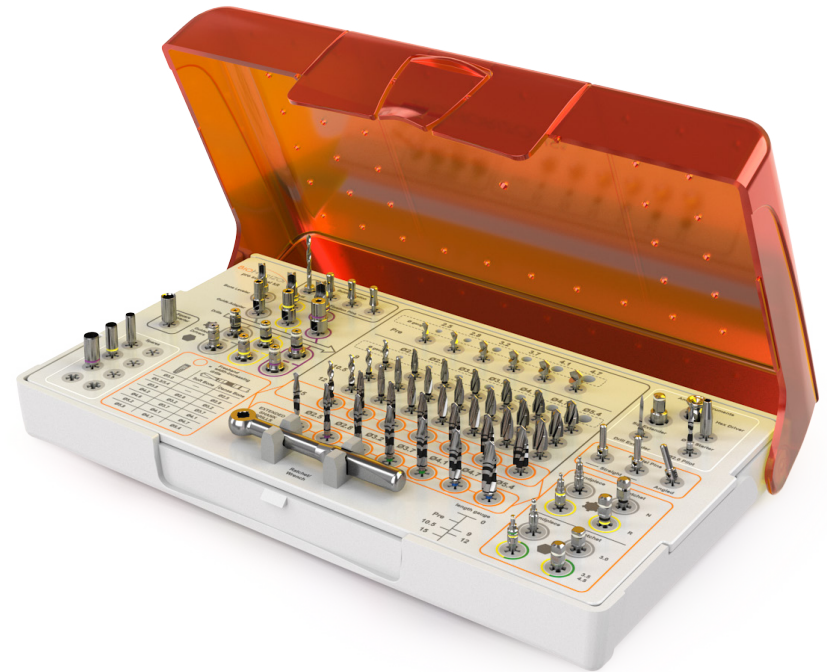
compatibility specifications

## the BioHorizons guided surgery system

The BioHorizons Pro guided surgery system offers an innovative workflow that supports a streamlined, keyless guided implant placement and traditional freehand protocols in a single kit. In either workflow, the drilling protocols allow for easy undersizing of the osteotomy when working in soft bone.

## perfect fit for precise implant placement

The PRO5000 surgical kit can be used to place the Tapered family of implants including: Tapered Pro Conical, Tapered Pro, Internal, Plus and 3.0 implants.



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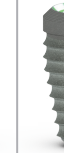












































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# Tapered Family Guided Specifications

## color coding

BioHorizons Tapered family implants can be used in guided surgery protocols with the PRO5000 kit and associated instruments. The BioHorizons guided workflow is designed for fully guided placement of bone level implants.

A color-coding system is used to easily identify the appropriate instruments for a given surgical sequence. The master cylinders are designed to engage with surgical instruments and drivers to ensure the surgical protocol produces the planned result. The combination of drill lengths and offsets provide a protocol for placement of various implant lengths.

|                       | Tapered Pro  |  |  |  | Tapered Internal   |  |  |  | Tapered Plus   |  |  |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| body diameter         | <br>3.8mm   | <br>4.2mm   | <br>4.6mm   | <br>5.2mm   | <br>3.0mm   | <br>3.4mm   | <br>3.8mm   | <br>4.6mm   | <br>3.8mm   | <br>4.6mm   | <br>5.8mm   |
| master cylinder       |             |             |             |             |             |             |             |             |             |             |             |
| guide adapters        |            |            |            |            |            |            |            |            |            |            |            |
| prosthetic connection | <br>3.0mm | <br>3.5mm | <br>3.5mm | <br>4.5mm | <br>3.0mm | <br>3.0mm | <br>3.5mm | <br>4.5mm | <br>3.0mm | <br>3.5mm | <br>4.5mm |
| implant driver        |           |           |           |           |           |           |           |           |           |           |           |


























# Tapered Family Guided Specifications

## color coding

BioHorizons Tapered family implants can be used in guided surgery protocols with the PRO5000 kit and associated instruments. The BioHorizons guided workflow is designed for fully guided placement of bone level implants.

A color-coding system is used to easily identify the appropriate instruments for a given surgical sequence. The master cylinders are designed to engage with surgical instruments and drivers to ensure the surgical protocol produces the planned result. The combination of drill lengths and offsets provide a protocol for placement of various implant lengths.

### Tapered Pro Conical

|                |   |   |   |   |   |
|----------------|---|---|---|---|---|
| body diameter  |    |    |    |    |    |
|                | 3.3mm   | 3.8mm   | 4.2mm   | 4.6mm   | 5.2mm   |
|                |    |    |    |    |    |
|                |   |   |   |   |   |
|                |  |  |  |  |  |
|                | Narrow  | Narrow  | Regular   | Regular   | Regular   |
| implant driver |  |  |  |  |  |

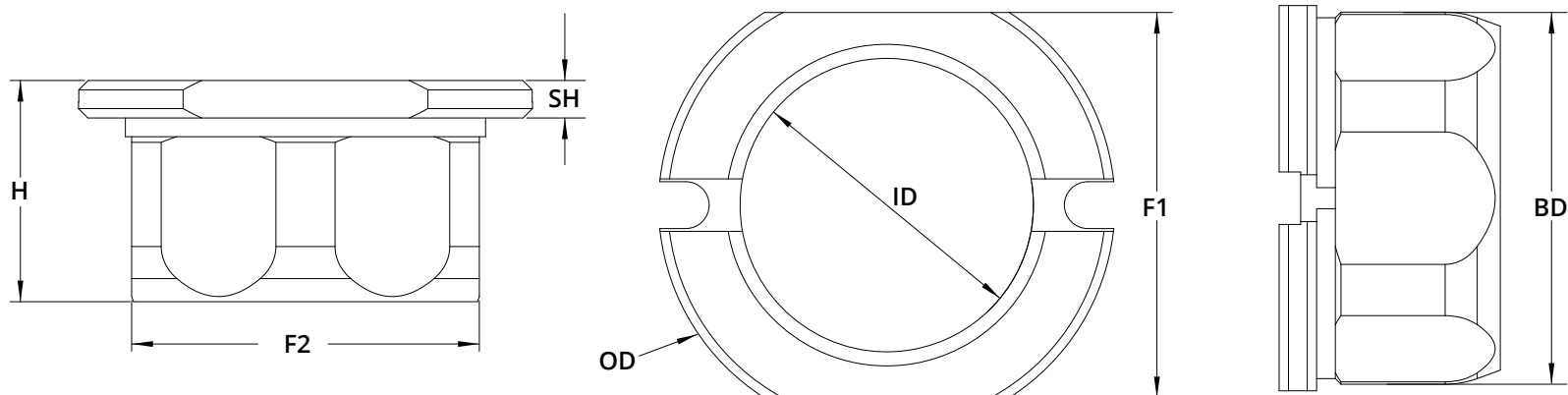
# Tapered Family Guided Specifications




master cylinders

## Master Cylinders (pack of 10)



|                   |  |
|-------------------|--|
| <b>PROMCGY-10</b> | Pro Master Cylinder, Grey (pack of 10)   |
| <b>PROMCYL-10</b> | Pro Master Cylinder, Yellow (pack of 10) |
| <b>PROMCPR-10</b> | Pro Master Cylinder, Purple (pack of 10) |



| Part Number   | Height (H) | Shoulder Height (SH) | Body Outer Diameter (BD) | Top Outer Diameter (OD) | Inner Diameter (ID) | Flat to Flat (F1) | Hex Flat to Flat (F2) |
|---|------------|----------------------|--------------------------|-------------------------|---------------------|-------------------|-----------------------|
| PROMCGY  | 3.00mm     | 0.51mm               | Ø5.04mm                  | Ø6.18mm                 | Ø3.97mm             | 5.22mm            | 4.71mm                |
| PROMCYL  |            |                      | Ø5.88mm                  | Ø7.02mm                 | Ø4.81mm             | 6.06mm            | 5.55mm                |
| PROMCPR  |            |                      | Ø7.10mm                  | Ø8.24mm                 | Ø6.03mm             | 7.28mm            | 6.77mm                |



# Tapered Family Guided Specifications

## surgical protocols

Please reference the following information to identify the correct protocol for guided placement of the Tapered family implants with the PRO5000 instruments.

For select implants, the final drill is an optional step in the sequence, to be used for dense bone preparation. The cells for these drills are marked in orange.




| Pro Master Cylinder, Grey (PROMCGY-10) |          |        |              |               |            |              |               |               |               |                |
|--|----------|--------|--------------|---------------|------------|--------------|---------------|---------------|---------------|----------------|
|  | Diameter | Length | Bone Leveler | Guide Adapter | Drill 1    | Drill 2      | Drill 3       | Drill 4       | Drill 5       | Implant Driver |
| Tapered Internal                       | 3.0mm    | 10.5mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 10.5mm |               |               | Hex Grey       |
|  |          | 12.0mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 12.0mm |               |               | Hex Grey       |
|  |          | 15.0mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 12.0mm | Ø2.5 x 15.0mm |               | Hex Grey       |
| Tapered Pro Conical                    | 3.3mm    | 9.0mm  | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.8 x 9.0mm  |               |               | Conical Grey   |
|  |          | 10.5mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 10.5mm | Ø2.8 x 10.5mm |               | Conical Grey   |
|  |          | 12.0mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 12.0mm | Ø2.8 x 12.mm  |               | Conical Grey   |
|  |          | 15.0mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 12.0mm | Ø2.5 x 15.0mm | Ø2.8 x 15.0mm | Conical Grey   |
| Tapered Internal                       | 3.4mm    | 9.0mm  | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.8 x 9.0mm  |               |               | Hex Grey       |
|  |          | 10.5mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 10.5mm | Ø2.8 x 10.5mm |               | Hex Grey       |
|  |          | 12.0mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 12.0mm | Ø2.8 x 12.mm  |               | Hex Grey       |
|  |          | 15.0mm | Grey         | Grey          | Ø2.5 – PRE | Ø2.5 x 9.0mm | Ø2.5 x 12.0mm | Ø2.5 x 15.0mm | Ø2.8 x 15.0mm | Hex Grey       |
| Tapered Pro Conical                    | 3.8mm    | 9.0mm  | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø3.2 x 9.0mm  |               |               | Conical Grey   |
|  |          | 10.5mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 10.5mm | Ø3.2 x 10.5mm |               | Conical Grey   |
|  |          | 12.0mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø3.2 x 12.0mm |               | Conical Grey   |
|  |          | 15.0mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø2.8 x 15.0mm | Ø3.2 x 15.0mm | Conical Grey   |
| Tapered Pro                            | 3.8mm    | 9.0mm  | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø3.2 x 9.0mm  |               |               | Hex Grey       |
|  |          | 10.5mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 10.5mm | Ø3.2 x 10.5mm |               | Hex Grey       |
|  |          | 12.0mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø3.2 x 12.0mm |               | Hex Grey       |
|  |          | 15.0mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø2.8 x 15.0mm | Ø3.2 x 15.0mm | Hex Grey       |
| Tapered Plus                           | 3.8mm    | 9.0mm  | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø3.2 x 9.0mm  |               |               | Hex Grey       |
|  |          | 10.5mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 10.5mm | Ø3.2 x 10.5mm |               | Hex Grey       |
|  |          | 12.0mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø3.2 x 12.0mm |               | Hex Grey       |
|  |          | 15.0mm | Grey         | Grey          | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø2.8 x 15.0mm | Ø3.2 x 15.0mm | Hex Grey       |

# Tapered Family Guided Specifications

## surgical protocols

Please reference the following information to identify the correct protocol for guided placement of the Tapered family implants with the PRO5000 instruments.

For select implants, the final drill is an optional step in the sequence, to be used for dense bone preparation. The cells for these drills are marked in orange.



| Pro Master Cylinder, Yellow (PROMCYL-10) |          |        |              |               |            |              |               |               |               |                |
|--|----------|--------|--------------|---------------|------------|--------------|---------------|---------------|---------------|----------------|
|  | Diameter | Length | Bone Leveler | Guide Adapter | Drill 1    | Drill 2      | Drill 3       | Drill 4       | Drill 5       | Implant Driver |
| Tapered Internal                         | 3.8mm    | 9.0mm  | Yellow       | Yellow        | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø3.2 x 9.0mm  |               |               | Hex Yellow     |
|  |          | 10.5mm | Yellow       | Yellow        | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 10.5mm | Ø3.2 x 10.5mm |               | Hex Yellow     |
|  |          | 12.0mm | Yellow       | Yellow        | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø3.2 x 12.0mm |               | Hex Yellow     |
|  |          | 15.0mm | Yellow       | Yellow        | Ø2.8 – PRE | Ø2.8 x 9.0mm | Ø2.8 x 12.0mm | Ø2.8 x 15.0mm | Ø3.2 x 15.0mm | Hex Yellow     |
| Tapered Pro Conical                      | 4.2mm    | 9.0mm  | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.7 x 9.0mm  |               |               | Conical Yellow |
|  |          | 10.5mm | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.2 x 10.5mm | Ø3.7 x 10.5mm |               | Conical Yellow |
|  |          | 12.0mm | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.2 x 12.0mm | Ø3.7 x 12.0mm |               | Conical Yellow |
|  |          | 15.0mm | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.2 x 12.0mm | Ø3.2 x 15.0mm | Ø3.7 x 15.0mm | Conical Yellow |
| Tapered Pro                              | 4.2mm    | 9.0mm  | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.7 x 9.0mm  |               |               | Hex Yellow     |
|  |          | 10.5mm | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.2 x 10.5mm | Ø3.7 x 10.5mm |               | Hex Yellow     |
|  |          | 12.0mm | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.2 x 12.0mm | Ø3.7 x 12.0mm |               | Hex Yellow     |
|  |          | 15.0mm | Yellow       | Yellow        | Ø3.2 – PRE | Ø3.2 x 9.0mm | Ø3.2 x 12.0mm | Ø3.2 x 15.0mm | Ø3.7 x 15.0mm | Hex Yellow     |
| Tapered Pro Conical                      | 4.6mm    | 9.0mm  | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø4.1 x 9.0mm  |               |               | Conical Yellow |
|  |          | 10.5mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 10.5mm | Ø4.1 x 10.5mm |               | Conical Yellow |
|  |          | 12.0mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø4.1 x 12.0mm |               | Conical Yellow |
|  |          | 15.0mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø3.7 x 15.0mm | Ø4.1 x 15.0mm | Conical Yellow |
| Tapered Pro                              | 4.6mm    | 9.0mm  | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø4.1 x 9.0mm  |               |               | Hex Yellow     |
|  |          | 10.5mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 10.5mm | Ø4.1 x 10.5mm |               | Hex Yellow     |
|  |          | 12.0mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø4.1 x 12.0mm |               | Hex Yellow     |
|  |          | 15.0mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø3.7 x 15.0mm | Ø4.1 x 15.0mm | Hex Yellow     |
| Tapered Plus                             | 4.6mm    | 9.0mm  | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø4.1 x 9.0mm  |               |               | Hex Yellow     |
|  |          | 10.5mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 10.5mm | Ø4.1 x 10.5mm |               | Hex Yellow     |
|  |          | 12.0mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø4.1 x 12.0mm |               | Hex Yellow     |
|  |          | 15.0mm | Yellow       | Yellow        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø3.7 x 15.0mm | Ø4.1 x 15.0mm | Hex Yellow     |




# Tapered Family Guided Specifications

## surgical protocols

Please reference the following information to identify the correct protocol for guided placement of the Tapered family implants with the PRO5000 instruments.

For select implants, the final drill is an optional step in the sequence, to be used for dense bone preparation. The cells for these drills are marked in orange.



| Pro Master Cylinder, Purple (PROMCPR-10) |          |        |              |               |            |              |               |               |               |                |
|--|----------|--------|--------------|---------------|------------|--------------|---------------|---------------|---------------|----------------|
|  | Diameter | Length | Bone Leveler | Guide Adapter | Drill 1    | Drill 2      | Drill 3       | Drill 4       | Drill 5       | Implant Driver |
| Tapered Internal                         | 4.6mm    | 9.0mm  | Purple       | Purple        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø4.1 x 9.0mm  |               |               | Hex Purple     |
|  |          | 10.5mm | Purple       | Purple        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 10.5mm | Ø4.1 x 10.5mm |               | Hex Purple     |
|  |          | 12.0mm | Purple       | Purple        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø4.1 x 12.0mm |               | Hex Purple     |
|  |          | 15.0mm | Purple       | Purple        | Ø3.7 – PRE | Ø3.7 x 9.0mm | Ø3.7 x 12.0mm | Ø3.7 x 15.0mm | Ø4.1 x 15.0mm | Hex Purple     |
| Tapered Pro Conical                      | 5.2mm    | 9.0mm  | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.7 x 9.0mm  |               |               | Conical Purple |
|  |          | 10.5mm | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.1 x 10.5mm | Ø4.7 x 10.5mm |               | Conical Purple |
|  |          | 12.0mm | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.1 x 12.0mm | Ø4.7 x 12.0mm |               | Conical Purple |
|  |          | 15.0mm | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.1 x 12.0mm | Ø4.1 x 15.0mm | Ø4.7 x 15.0mm | Conical Purple |
| Tapered Pro                              | 5.2mm    | 9.0mm  | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.7 x 9.0mm  |               |               | Hex Purple     |
|  |          | 10.5mm | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.1 x 10.5mm | Ø4.7 x 10.5mm |               | Hex Purple     |
|  |          | 12.0mm | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.1 x 12.0mm | Ø4.7 x 12.0mm |               | Hex Purple     |
|  |          | 15.0mm | Purple       | Purple        | Ø4.1 – PRE | Ø4.1 x 9.0mm | Ø4.1 x 12.0mm | Ø4.1 x 15.0mm | Ø4.7 x 15.0mm | Hex Purple     |
| Tapered Plus                             | 5.8mm    | 9.0mm  | Purple       | Purple        | Ø4.7 – PRE | Ø4.7 x 9.0mm | Ø5.4 x 9.0mm  |               |               | Hex Purple     |
|  |          | 10.5mm | Purple       | Purple        | Ø4.7 – PRE | Ø4.7 x 9.0mm | Ø4.7 x 10.5mm | Ø5.4 x 10.5mm |               | Hex Purple     |
|  |          | 12.0mm | Purple       | Purple        | Ø4.7 – PRE | Ø4.7 x 9.0mm | Ø4.7 x 12.0mm | Ø5.4 x 12.0mm |               | Hex Purple     |
|  |          | 15.0mm | Purple       | Purple        | Ø4.7 – PRE | Ø4.7 x 9.0mm | Ø4.7 x 12.0mm | Ø4.7 x 15.0mm | Ø5.4 x 15.0mm | Hex Purple     |

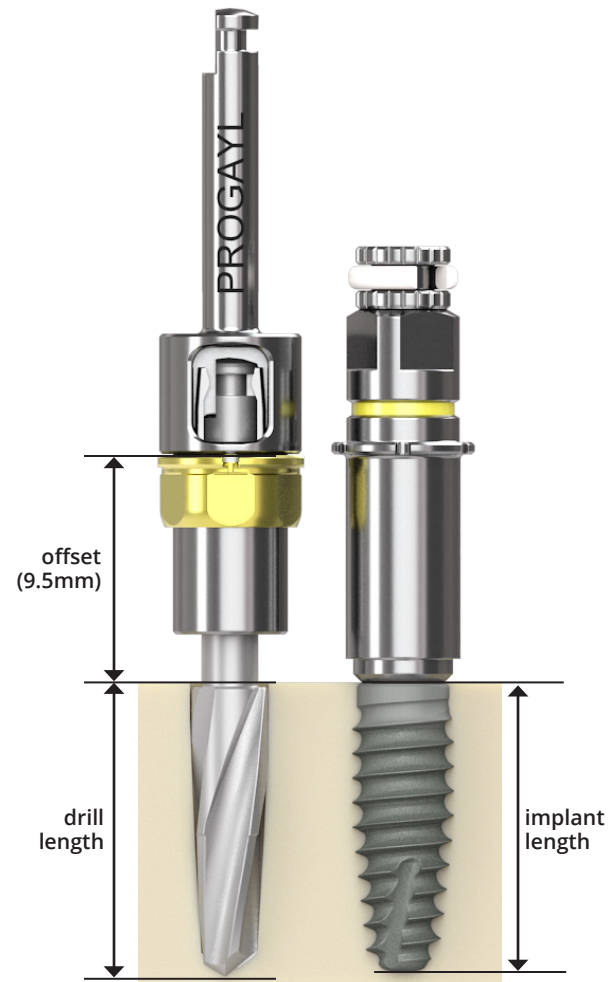
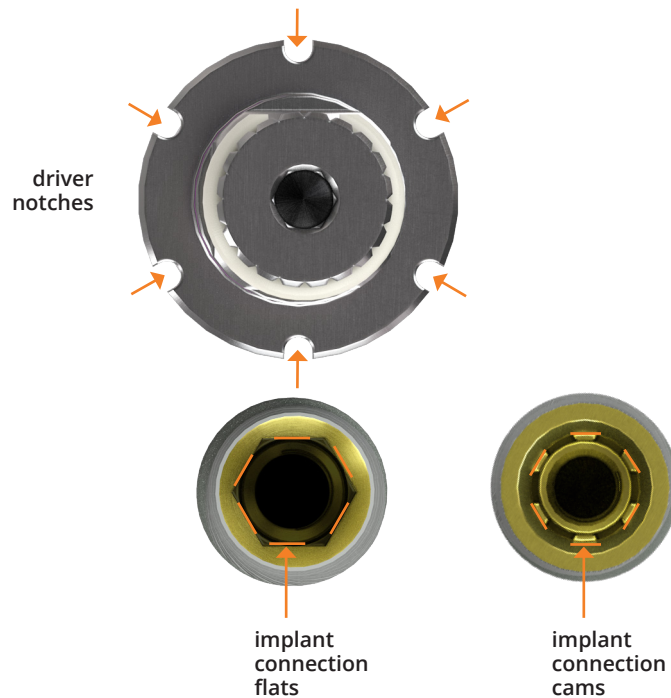
# Tapered Family Guided Specifications

## offset

### Offset and Drill length

The Pro Surgical System protocols use a depth increasing drill sequence to progressively increase the length of the osteotomy. A fixed 9.5mm offset is used for all implant lengths. The Guide Adapter component is designed to ensure that each drill length is adequately controlled by the Master Cylinder. Drills should be interchanged with the Guide Adapter, instead of the handpiece, until the osteotomy is complete.

When preparing for implant placement, the drivers are designed to control the depth of the implant placement, as well as the implant axis. Note the notches in the driver flange which correspond to the 6 flats of the implant connection. Use these flats to align one side of the connection parallel to the buccal wall.



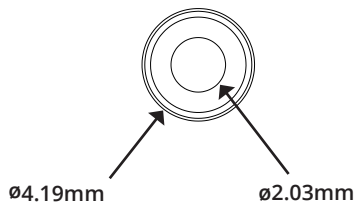
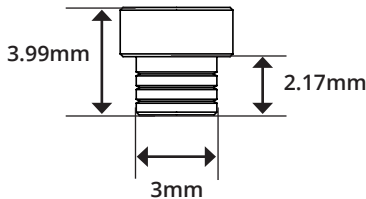
# Tapered Family Guided Specifications

ancillary



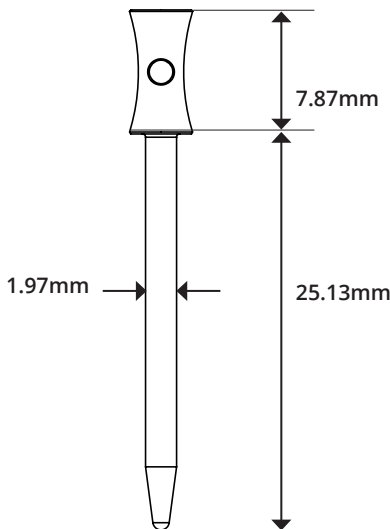
CGS-PS4-10

Fixation Pin Sleeve  
(pack of 10)



CGS-FP

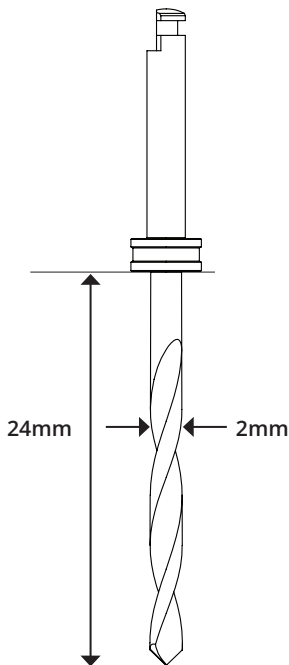
Guided Surgery  
Fixation Pin  
(3 included with kit)



122-024

2.0 x 24mm  
CGS Pilot Drill

Use 24mm pilot drill to create osteotomy for fixation pin.



# Ordering & Warranty Information

Territory Manager: \_\_\_\_\_

cell phone: \_\_\_\_\_

email and/or fax: \_\_\_\_\_

**BioHorizons Lifetime Warranty on Implants and Prosthetics for Clinicians:** All BioHorizons implants and prosthetic components include a Lifetime Warranty. BioHorizons implant or prosthetic components will be replaced if removal of that product is due to failure (excluding normal wear to overdenture attachments).

**Additional Warranties:** BioHorizons warranties surgical drills, taps and other surgical and restorative instruments.

**(1) Surgical Drills and Taps:** Surgical drills and taps include a warranty period of ninety (90) days from the date of initial invoice. Surgical instruments should be replaced when they become worn, dull, corroded or in any way compromised. Surgical drills should be replaced after 12 to 20 osteotomies.<sup>1</sup>

**(2) Instruments:** The BioHorizons manufactured instrument warranty extends for a period of one (1) year from the date of initial invoice. Instruments include drivers, implant site dilators and BioHorizons tools used in the placement or restoration of BioHorizons implants.

**Return Policy:** Product returns require a Return Authorization Form, which may be acquired by contacting Customer Care. The completed Return Authorization Form must be included with the returned product. For more information, please see the reverse side of the invoice that was shipped with the product.

**Disclaimer of Liability:** BioHorizons products may only be used in conjunction with the associated original components and instruments according to the Instructions for Use (IFU). Use of any non-BioHorizons products in conjunction with BioHorizons products will void any warranty or any other obligation, expressed or implied.

Treatment planning and clinical application of BioHorizons products are the responsibility of each individual clinician. BioHorizons strongly recommends completion of postgraduate dental implant education and adherence to the IFU that accompany each product. BioHorizons is not responsible for incidental or consequential damages or liability relating to use of our products alone or in combination with other products other than replacement or repair under our warranties.

**Distributed Products:** For information on the manufacturer's warranty of distributed products, please refer to their product packaging. Distributed products are subject to price change without notice.

**Validity:** Upon its release, this literature supersedes all previously published versions.

**Availability:** Not all products shown or described in this literature are available in all countries. BioHorizons continually strives to improve its products and therefore reserves the right to improve, modify, change specifications or discontinue products at any time.

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1. Heat production by 3 implant drill systems after repeated drilling and sterilization. Chacon GE, Bower DL, Larsen PE, McGlumphy EA, Beck FM. J Oral Maxillofac Surg. 2006 Feb;64(2):265-9. R30003b

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