Indications

Posterior mandibular area

The twinklon® 4 is specifically indicated for multiple implantation in the posterior mandibular area in cases of severe atrophy of the bone. The implant is a reliable alternative to vertical bone reconstruction which is unpredictable in this area.

...Preserving the residual bone volume
Fields of application

Implantology
Pre-implant surgery
Orthognathic surgery
Reconstructive Surgery
Facial trauma surgery
Tumor surgery
Cranial surgery
Orthodontics
Training

Featured products are medical devices and as such carry the CE marking in accordance with Directive 93/42/EEC. It is possible that all medical devices presented are not available in all countries. For more information please contact the sales department of Global D.

Thank you to consult the instructions before use. If in doubt please contact the sales department of Global D. The instructions may in some cases be dematerialized. If it is the case a QR code and a URL link are present on the label of the device. Instructions are still available on request and at no extra cost within a period of 7 days. The request must be made at the following address: quality@globald.com.
Global D
Gets ahead of the game...

twinkon® 4
Ultra-short implant
The twinkon® 4 is an **ultra-short** (4 mm long) implant which can be used in 1-stage surgery. It is available in two diameters: 4.0 mm and 4.5 mm. This unique implant has been designed to provide an effective response to several major requirements:

The endosseous part has been optimised to obtain **immediate primary stability and rapid osseointegration**.

The emergence of the “transmucosal” collar has been profiled to enable the **formation of a thick protective mucosal-conjunctive tissue joint** which helps to preserve the residual bone mass.

The external friction-fit taper type prosthetic connection, positioned in the supra-crestal region, provides an **effective response from a periodontal and mechanical point of view**.
Pre-mounted implant driver
twin® 4 implants are fitted with a pre-mounted implant driver in order to provide optimum protection of the integrity of the connection when the implant is screwed into the bone. Once the implant is in place, the implant driver is also used to confirm that the emergence axis matches the prosthetical corridor of the future restoration.

Counter-torque wrench
The implant driver is removed using the counter-torque wrench. This wrench can be used with the straight or the angled end, depending on the situation. Its design enables to dismantle the assembly under optimum conditions while preserving the integrity of the primary anchorage of the implant.

twin® 4 drills
The 4.8 mm long drills have integrated depth stops which ensure optimum positioning of the implant collar in view of the benefits associated with the “Tissue Creeping Profile” concept. The 140° point angle reduces apical over-drilling near anatomical obstacles. The total height of the drills has been designed for ease of working in the mouth and to provide perfect visibility of the atrophic retro-mandibular area for which the twin® 4 is indicated.
Content of the twinkle® 4 kit

1. Torque wrench
   - DCDYN-70D

2. Counter-torque wrench
   - DCCTCE

3. Parallelometers (x2)
   - DIP2-2.5
   - DFTW20L48
   - DFTW25L48
   - DFTW30L48
   - DFTW35L48
   - DFTW40L48

4. Drill diameters
   - 2 mm
   - 2.5 mm
   - 3 mm
   - 3.5 mm
   - 4 mm

5. Manual implant driver
   - DCPIMCE

6. Short manual implant driver
   - DCPIMCEC

7. Contra-angle implant driver
   - DCPICACE

8. Short contra-angle implant driver
   - DCPICACEC

9. 1.2 mm manual hex screwdriver
   - DCM1.2L

10. Empty space for prosthetic instruments

Options

- Tapered pillar abutment extractor
  - DPEPCCE

- Abutment extractor
  - DEMCE

- Long abutment extractor
  - DEMCE

- 0.9 mm short manual screwdriver
  - DCM0.9

- Drill extension
  - DPROL
Vertical positioning of the implant

Ideally, the shoulder of the implant should be positioned slightly subcrestally to enable bone crimping.

Match with the prosthetical corridor

Due to its transmucosal collar topped with its external tapered connection, the twin® 4 must be positioned exactly to match the prosthetical corridor.

Drilling protocol

<table>
<thead>
<tr>
<th>ref.</th>
<th>Ø 2 mm drill</th>
<th>Ø 2.5 mm drill</th>
<th>Ø 3 mm drill</th>
<th>Ø 3.5 mm drill</th>
<th>Ø 4 mm drill</th>
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<tbody>
<tr>
<td>DFTW20L48</td>
<td>DFTW25L48</td>
<td>DFTW30L48</td>
<td>DFTW35L48</td>
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rpm 600-100 rpm

<table>
<thead>
<tr>
<th>Ø4L4</th>
<th>Ø4.5L4</th>
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Screw-retained fixed multiple prosthesis

Screw-retained straight tapered pillar abutment

The pillar abutment is embedded on the external tapered part by friction and screwed into the implant using the prosthesis fixing screw. This assembly is stable and has excellent mechanical fatigue strength. From a periodontal point of view, the absence of any micro-movement at the interface helps to create a tight anti-bacterial seal, thus providing optimum protection of the integrity of the biological area.

5.4 mm diameter emergence profile

The tapered pillar abutments of the twin® 4 system have been designed to obtain progressive emergence of the prosthesis. The 5/10th shoulder is wide enough to help increase the mechanical strength and improve the passive fit of the bridge framework.
### References of the implants, screws and laboratory components

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>twinKon® 4 Ø4 L 4 mm</td>
<td>DPTWKCT4L4</td>
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<tr>
<td>twinKon® 4 Ø4.5 L 4 mm</td>
<td>DPTWKCT4.5L4</td>
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<tr>
<td>Healing screw, Ø 6.5 mm, Height 2.6 mm</td>
<td>DVCITWK6.5H2.6</td>
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<tr>
<td>Healing screw, Ø 6.5 mm, Height 4 mm</td>
<td>DVCITWK6.5H4</td>
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<tr>
<td>Short Pick-up impression coping on pillar abutment</td>
<td>DTPICVTWK</td>
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<tr>
<td>Direct implant Pop-up impression coping</td>
<td>DTPOPVTWK</td>
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<tr>
<td>twinKon® Tapered pillar, Ø5.4 Height 2.4 mm</td>
<td>DPCCEH1</td>
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<tr>
<td>twinKon® Tapered pillar, Ø5.4 Height 3.4 mm</td>
<td>DPCCEH2</td>
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<td>Tapered pillar abutment cover</td>
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<td>Long Pick-up impression coping on tapered pillar abutment</td>
<td>DTIPICVCE</td>
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<td>Extra long Pick-up impression coping on tapered pillar abutment</td>
<td>DTLIPICVCE</td>
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<td>Tapered pillar abutment analogue</td>
<td>DAICE</td>
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<td>Burnout cylinder for tapered pillar abutment</td>
<td>DGCIVCE</td>
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<tr>
<td>Titanium cylinder</td>
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<td>Mixed cylinder</td>
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<td>Abutment analogue</td>
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### Références instrumentation prothétique

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<tr>
<td>Kit de prothèses twinKon® 4</td>
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<tr>
<td>Trousse de prothèse twinKon® vide</td>
<td>DCCEPS</td>
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<tr>
<td>Préhenseur/Extracteur de pilier conique twinKon®</td>
<td>DPEPCCE</td>
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<tr>
<td>Clé dynamométrique Universal</td>
<td>DCDYN-2</td>
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<tr>
<td>Tournevis manuel Universal standard, hexagonal, Ø 1.2 mm</td>
<td>DCM1.2</td>
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