Back to the roots

THE Q-IMPLANT-CONCEPT

This low-cost implant system was developed to cover many indications in implant dentistry. Designed to provide simplicity and clarity, we have created a system that removes many of the disadvantages of earlier implant systems. This single-phase enossal implant is made of titanium and there are no complex components. Its self-cutting thread achieves a high primary stability which allows the immediate placement of a temporary crown. The transgingival healing makes a second operation unnecessary and the sand-blasted surface reduces the time taken for osseointegration. These features, together with the mirror-finished implant head, aid wound healing and reduce post-operative infections.

THE IMPLANT HEAD

The top of the implant was designed with a 7° cone. It can be individually ground and can therefore be treated like a natural tooth. To avoid rotation, 4 symmetrical axial slots were placed on top. They also guide the wrench you use to screw in the implant. This gives you the possibility to supply the implant with a temporary suprastructure. Before impression, the slots should be blocked out with composite. Using a dental dam, you may even grind the top during or right after surgery. Easy mucosa- and gum- management is possible due to the mirror-finish. Your patient leaves your office with an aesthetic and functional solution on the day of surgery.

THE THREAD

Q-Implants are constructed with a self-cutting thread. Gentle bone-management and atraumatical insertion is possible by using minimal force. Even in the spongious bone of the upper jaw you reach a high primary stability. To reach this goal, we attached maximum importance in the development of a progressive designed thread with axial milling cuts, reducing stress and strain effects. This spreads jaw pressure equally to the bone. The axial cuts also avoid rotation. Bone shavings can be harvested and re-used during osteogenisis.

THE SURFACE

For maximum osseointegration the surface was etched and blasted with alumini-umoxide.
Mucosal surgery:
Using a TRINON scalpel, the mucosa is opened by a crestal cut. A fold of skin is then built to uncover the osseous structures. Alternatively a gum punch can be used.

Initial indentation of the bone:
Use a rotating drill to create an indentation on the surface of the bone. Alternatively use a trocar drill to punch the mucosa if flapless surgery technique is applied.

Pilot drill:
Considering both of optimal prosthetic and enossal position of the implant, the right direction of the pilot drill is chosen.

Shaping drill:
The shaping drill is performed with the selected diameter and length.

Insertion:
Taken from the sterile cover the implant is gently inserted into the prepared bone cavern with the insertion wrench. It may be helpful to use the handwheel or the handwrench. By its self-cutting design the implant gains maximum primary stability.

Suture:
After reaching the implants final position, the mucosa is stitched up tightly. This is not necessary if a gum punch was used.

The suprastructure:
A temporal suprastructure is recommended during the healing phase by means of using a MultiCap+ or a Silicone Cap. The final prosthetic suprastructure follows.
Prosthetics Procedure

After accomplished woundhealing and without inflammation in mucosal area, the prosthetical process can start. In case the implants head are grinded the prosthetical forming is settled with conventional methods. Normally the slots in the head get blocked out with composite and the standard dental impression is executed. The laboratory model and the dental transformation are the same as providing a grinded tooth.

If the implants head are not grinded the use of MultiCap+ is recommended. This multifunctional cap is shifted onto the implants head and the impression made with an impression spoon.

The laboratory implants (3QLab / 4QLab / 5QLab) are now inserted into the Muticap+ which are sticking in the impression material for casting the model. Finally the technical laboratory work can be performed in usual manners.

The choice of a thermoplastic synthetic material gives the dental technician the possibility to use the MultiCap+ as a burn-out basis for a variety of dental applications. MultiCap+ has a uniform material strength due to its conical shape and constant thickness. Several laboratory steps are considerably shortened by using these prefabricated moulds. MultiCap+ burns out completely at 850°C (1562°F) without residues, which allows the use of a wide variety of alloys. Weight in gold approx. 0.8 g (12.35 gr.), which allows for no waste!

After the processing of the model all prosthetic possibilities are available. (e.g. ceramics full bridge)
The Q-Box

The Q-Box was designed for clarity and simplicity. It can be easily stacked into an autoclave and its sturdy construction ensures stability even following many sterilisation procedures. Every system component has its own unmistakable place making it easy for the operating assistant to locate the correct component quickly and efficiently. The titanium bowl can be used for blending bone augmentation material as well as the temporary storage of operating instruments.

<table>
<thead>
<tr>
<th>Steribox complete with instruments</th>
<th>Pilot-drill</th>
<th>Shaping-drill</th>
<th>Drill for cortical bone</th>
<th>Implant-holder</th>
<th>Insertion wrench</th>
<th>Mechanical insertion wrench</th>
<th>Hand wheel</th>
<th>Driver handle</th>
<th>Gum punch</th>
</tr>
</thead>
<tbody>
<tr>
<td>QBOXC2</td>
<td>PDQ1</td>
<td>SDQ3</td>
<td>SDHQ3</td>
<td>QGRIP</td>
<td>IWQS</td>
<td>IKQ3</td>
<td>HWQ1</td>
<td>DHQ1</td>
<td>3 mm 3QPUNCH</td>
</tr>
<tr>
<td></td>
<td>2x</td>
<td>1x</td>
<td>1x</td>
<td>1x</td>
<td>1x</td>
<td>1x</td>
<td>1x</td>
<td>1x</td>
<td>4 mm 4QPUNCH</td>
</tr>
</tbody>
</table>

incl. rotating drill

Q-Tom

with the Q-Tom set the implantologist receives a bone-spreading and bone-condensing equipment completing the Q-Implant product range. These osteotomes made of titanium convince through their delicate design, maximum biocompatibility and elegant handling. The angulation of the convex working-ends support the use in frontal as well as in molar region. The Q-Tom set includes seven osteotomes beginning with a diameter of 1,8 mm.

The diameter rises by 0.2 mm per instrument to the maximum diameter of 3 mm. Through the minimal spreading of only 0.2 mm the operative effort and at the same time the risk of bone fractures in the spongy region is lowered. The excellent visibility of the lasermarking (length 8, 10, 12, and 14 mm) gives maximum safety for insertion depth.

<table>
<thead>
<tr>
<th>Complete set</th>
<th>Osteotom Q-Tom No. 1 (Bone Spreader)</th>
<th>Osteotom Q-Tom No. 2 (Bone Spreader)</th>
<th>Osteotom Q-Tom No. 3 (Bone Spreader)</th>
<th>Osteotom Q-Tom No. 4 (Bone Spreader)</th>
<th>Osteotom Q-Tom No. 5 (Bone Spreader)</th>
<th>Osteotom Q-Tom No. 6 (Bone Spreader)</th>
<th>Osteotom Q-Tom No. 7 (Bone Spreader)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTOMC</td>
<td>QTOM1</td>
<td>QTOM2</td>
<td>QTOM3</td>
<td>QTOM4</td>
<td>QTOM5</td>
<td>QTOM6</td>
<td>QTOM7</td>
</tr>
<tr>
<td></td>
<td>1.8 mm</td>
<td>2.0 mm</td>
<td>2.2 mm</td>
<td>2.4 mm</td>
<td>2.6 mm</td>
<td>2.8 mm</td>
<td>3.0 mm</td>
</tr>
</tbody>
</table>
In every case Q-Implant®

The Q-Implant product range suits all indications. Such as single tooth treatment and bridges, increasement of pillars in reduced set of teeth and in edentulous jaws. It might be loaded immediately after tooth extraction and serves perfectly for immediate suprastructure, because of the high primary stability that is achieved by its very specific thread design.

Q-Implant, the implant system of the present and future!

Q-IMPLANT®

- A popular and effective one-phase concept
- Ideal for immediate temporisation and immediate loading
- Two different neck heights: Standard (4 mm) and Short (2 mm)
- In diameter 2,5; 3,5; 3,9; 4,5 and 5,6 mm
- And length 8, 10, 12 or 14 mm available

GIP

- An innovative one-phase concept
- Appropriate for strongly atrophied but wide lower and upper jaw
- Ideal for immediate temporisation and immediate loading
- Neck height 0,6 mm
- In diameter 6,3 and 7,0 mm
- And length 4, 5, 6, 7 mm available
**Q³-Implant®**

- one-phase implant with ballpoint-head
- excellent to be incorporated in existing overdentures
- or its implant supported new creation
- in diameter 3.5 mm and 4.5 mm
- and length 8, 10, 12 or 14 mm available

**Q₂-Implant®**

- two-phase implant with inner cone
- universal in use, fits all indications
- suitable for immediate and delayed loading and temporisation
- compatible to many other systems
- in diameter 4.0 and 5.6 mm
- and length 8, 10, 12 or 14 mm available

**QK-Implant®**

- two-phase implant with external hexagon
- universal in use, fits all indications
- suitable for immediate and delayed loading and temporisation
- compatible to many other systems
- in diameter 3.5; 3.75 and 4.5 mm
- and length 8, 10, 12 or 14 mm available
## Implants

### Q-Implant

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>8 mm</td>
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<td>3Q08</td>
<td>39Q08</td>
<td>4Q08</td>
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<tr>
<td>10 mm</td>
<td>25Q10</td>
<td>3Q10</td>
<td>39Q10</td>
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<tr>
<td>12 mm</td>
<td>25Q12</td>
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<td>14 mm</td>
<td>25Q14</td>
<td>3Q14</td>
<td>39Q14</td>
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### Standard

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<tbody>
<tr>
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<tr>
<td>5 mm</td>
<td>25Q10</td>
<td>3Q10</td>
<td>39Q10</td>
</tr>
<tr>
<td>6 mm</td>
<td>25Q12</td>
<td>3Q12</td>
<td>39Q12</td>
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<tr>
<td>7 mm</td>
<td>25Q14</td>
<td>3Q14</td>
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### Short

<table>
<thead>
<tr>
<th></th>
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<tr>
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<td>3Q08</td>
<td>39Q08</td>
</tr>
<tr>
<td>5 mm</td>
<td>25Q10</td>
<td>3Q10</td>
<td>39Q10</td>
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<tr>
<td>6 mm</td>
<td>25Q12</td>
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<tr>
<td>7 mm</td>
<td>25Q14</td>
<td>3Q14</td>
<td>39Q14</td>
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### GIP-Implant

<table>
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<tr>
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<tr>
<td>4 mm</td>
<td>63GIP104</td>
<td>GIP4</td>
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<tr>
<td>5 mm</td>
<td>63GIP105</td>
<td>GIP5</td>
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<tr>
<td>6 mm</td>
<td>63GIP106</td>
<td>GIP6</td>
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<tr>
<td>7 mm</td>
<td>63GIP107</td>
<td>GIP7</td>
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### Q³ Implant with matrix

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<tbody>
<tr>
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<td>23Q08</td>
<td>3Q308</td>
<td>45Q308</td>
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<tr>
<td>10 mm</td>
<td>23Q10</td>
<td>3Q310</td>
<td>45Q310</td>
</tr>
<tr>
<td>12 mm</td>
<td>23Q12</td>
<td>3Q312</td>
<td>45Q312</td>
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<tr>
<td>14 mm</td>
<td>23Q14</td>
<td>3Q314</td>
<td>45Q314</td>
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### QK Implant with cover screw

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<tr>
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<tbody>
<tr>
<td>8 mm</td>
<td>4QK08</td>
<td>56QK08</td>
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<tr>
<td>10 mm</td>
<td>4QK10</td>
<td>56QK10</td>
</tr>
<tr>
<td>12 mm</td>
<td>4QK12</td>
<td>56QK12</td>
</tr>
<tr>
<td>14 mm</td>
<td>4QK14</td>
<td>56QK14</td>
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</table>

### Q² Implant with cover screw

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>8 mm</td>
<td>35Q208</td>
<td>4Q208</td>
<td>45Q208</td>
</tr>
<tr>
<td>10 mm</td>
<td>35Q210</td>
<td>4Q210</td>
<td>45Q210</td>
</tr>
<tr>
<td>12 mm</td>
<td>35Q212</td>
<td>4Q212</td>
<td>45Q212</td>
</tr>
<tr>
<td>14 mm</td>
<td>35Q214</td>
<td>4Q214</td>
<td>45Q214</td>
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</table>
## Instruments

<table>
<thead>
<tr>
<th><strong>Pilot drill</strong></th>
<th><strong>Shaping drill</strong></th>
<th><strong>Drill for cortical bone</strong></th>
<th><strong>Insertion wrench</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>PDQ1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pilot drill

- **PDQ1**

### Shaping drill

- **2.5 mm**
  - **SDQ25**
  - **SDQ4**
- **3.5 mm**
  - **SDQ3**
- **3.9 mm**
  - **SDQ39**
- **4.5 mm**
  - **SDQ4**
  - **SDQ5**

### Drill for cortical bone

- **3.5 mm**
  - **SDHQ3**
  - **SDHQ4**
- **3.9 mm**
  - **SDHQ3**
  - **SDHQ4**
- **4.5 mm**
  - **SDHQ3**
  - **SDHQ4**
- **5.6 mm**
  - **SDHQ5**

### Insertion wrench

- **IWQS**
- **IWQL**

### Insertion hole drill

- **Q5108**

### Insertion hole drill for cortical bone

- **Q5104**
- **Q5105**
- **Q5106**
- **Q5107**
- **Q5104K**
- **Q5105K**
- **Q5106K**
- **Q5107K**

### Shaping drill

- **3.5 mm**
  - **SDQ3**
  - **SDHQ3**
- **4.5 mm**
  - **SDQ4**
  - **SDHQ4**
- **4.0 mm**
  - **Q4101**
  - **Q4102**

### Drill for cortical bone

- **3.5 mm**
  - **SDHQ3**
  - **SDHQ4**
- **4.5 mm**
  - **SDHQ3**
  - **SDHQ4**
- **5.6 mm**
  - **SDHQ5**
- **5.6 mm**
  - **Q4103**

### Insertion wrench

- **Q3123**
- **Q3124**

### Shaping drill

- **3.75 mm**
  - **Q2101**
- **4.5 mm**
  - **Q2102**

### Drill for cortical bone

- **5.6 mm**
  - **Q4103**

### Insertion wrench

- **Q2123**
- **Q2124**
<table>
<thead>
<tr>
<th>Mechanical insertion wrench</th>
<th>Hand wheel</th>
<th>Driver handle</th>
<th>Gum punch</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKQ3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q3120</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Mechanical insertion wrench</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q2120</td>
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<td></td>
<td></td>
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<tr>
<td>Q2121</td>
<td></td>
<td></td>
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<tr>
<td>Q2122</td>
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<table>
<thead>
<tr>
<th>Screwdriver</th>
</tr>
</thead>
<tbody>
<tr>
<td>short 20 mm</td>
</tr>
<tr>
<td>Q2113 (0.9 mm)</td>
</tr>
<tr>
<td>Q2114 (1.25 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Handpiece for screwdriver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q2112</td>
</tr>
<tr>
<td>Laboratory analog</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>2.5 mm 25QLAB</td>
</tr>
<tr>
<td>3.5 mm 3QLAB</td>
</tr>
<tr>
<td>3.9 mm 39QLAB</td>
</tr>
<tr>
<td>4.5 mm 4QLAB</td>
</tr>
<tr>
<td>5.6 mm 5QLAB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Laboratory analogue for Q³-Implants**</th>
<th>Transfer cap for Q³-Implants**</th>
<th>Matrix for Q³-Implants**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q3210</td>
<td>Q3310</td>
<td>Q3320 Q3321 Q3322 Q3323</td>
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<table>
<thead>
<tr>
<th>Gingivafomer</th>
<th>Cover screw</th>
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<tbody>
<tr>
<td>2 mm 4 mm</td>
<td>small big</td>
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<tr>
<td>Q4003 Q4004</td>
<td>Q4001 Q4002</td>
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<table>
<thead>
<tr>
<th>Gingivafomer</th>
<th>Cover screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 5 mm</td>
<td></td>
</tr>
<tr>
<td>Q2010 Q2011</td>
<td>Q2001</td>
</tr>
<tr>
<td>Q2012 Q2013</td>
<td></td>
</tr>
</tbody>
</table>

* also for QK und Q2 with Q-Cone abutment
** also for QK und Q2 mit Q-Ball abutment

white caps for dentist impression
blue caps for dental technician only

Temporarily Prosthesis made in 5 minutes. Please ask for detailed information.

Acrylic cap

with O-Ring green, standard
O-Ring green, hard
O-Ring blue, very soft

Temporarily Prosthesis made in 5 minutes. Please ask for detailed information.
## QK-Prosthetics

### Transfer/Laboratory

<table>
<thead>
<tr>
<th>Impression post</th>
<th>Laboratory analogue</th>
<th>Technician analogue</th>
<th>Fixing screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>q4010 (for 4QK)</td>
<td>Q4011 (for 4QK)</td>
<td>Q4041</td>
<td>Q4027</td>
</tr>
<tr>
<td>Q4029 (for 5,6 QK)</td>
<td>Q4028 (for 5,6 QK)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Abutments

#### Abutments screwed

- **Abutment**
  - screw, straight
  - Q4015
- **Plastic cap**
  - burn-out, screwed
  - length 10 mm
  - Q4016
- **Occlusal screw**
  - Q4017
  - Q4018

#### Abutments cemented incl. fixing screw.

- **Abutment**
  - cemented
  - length 5,5 mm
  - Q4012
- **Plastic cap**
  - burn-out, cemented
  - length 7 mm
  - bridge Q4013
  - crown Q4014

#### Abutments angled incl. fixing screw.

- **Abutment**
  - angled
  - 18°
  - length 2 mm
  - Q4022
- **Abutment**
  - angled
  - 18°
  - length 4 mm
  - Q4023

#### Q-Cone Abutments

- **Abutment**
  - 0 mm
  - Q4019
- **Abutment**
  - 2 mm
  - Q4021

#### Q-Ball Abutment

- **Q-Ball Abutments with matrix**
  - Q4026
  - Q4025
  - Q4024
  - Q4020

- **Fixing screw**
  - to be fixed with Q2110, Q2111 and Q2112
  - Prosthetics like Q-Implant Standard and Short

- **Q-Ball abutments with matrix**
  - Q4026
  - Q4025
  - Q4024
  - Q4020

- **Prosthetics like Q-Implant**
  - to be fixed with IWQ5, IWQL

- **Technician analogue**
  - fixing screw
  - 0 mm
  - 18°
  - 2 mm
  - 3 mm
  - 4 mm
## Abutments

### Straight and angled Abutments incl. fixing screw

<table>
<thead>
<tr>
<th>Angle</th>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>18°</td>
<td>Abutment</td>
<td>Q2051</td>
</tr>
<tr>
<td>18°</td>
<td>Abutment</td>
<td>Q2052</td>
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<tr>
<td>0°</td>
<td>Abutment</td>
<td>Q2053</td>
</tr>
<tr>
<td>0°</td>
<td>Abutment</td>
<td>Q2054</td>
</tr>
</tbody>
</table>

### UCLA Abutment

- **Fixing screw** (for UCLA and all other abutments)
  - **with screw** Q2058

### Q-Cone Abutments

- 2 mm Q2055
- 4 mm Q2057

- **to be fixed with** Q2110, Q2111 and Q2112
- **Prosthetics like** Q-Implant
- **Standard and Short**

### Q-Ball Abutment

- **Q-Ball Abutment with matrix**
  - 4 mm Q2063
  - 4 mm Q2062
  - 3 mm Q2061
  - 2 mm Q2059

- **to be fixed with** Q2110, Q2111 and Q2112
- **Prosthetics like** Q-Implant
Para-Tubes – suitable for all implant systems

An intelligent solution for perfect parallelism. A safe insertion is guaranteed with the right distance and optimal axis. Suitable for all implant systems.

Q-Para-Tubes-Set complete
(QPT08, QPT10, QPT12) with axis gauge and titanium box
QPTC

Depth and axis gauge
with laser marking in 8, 10 and 12 mm
Q8ML

Drilling guide
8 mm axis distance
QPT08

Drilling guide
10 mm axis distance
QPT10

Drilling guide
12 mm axis distance
QPT12

Additional options

<table>
<thead>
<tr>
<th>Additional options</th>
<th>Trocar drill</th>
<th>Rotating drill</th>
<th>Drill extender</th>
<th>Titanium Gaugeball</th>
<th>X-Ray Pattern</th>
<th>Titanium bowl</th>
<th>Depth gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>QX26</td>
<td>QX27</td>
<td>QX28</td>
<td>4QBALL</td>
<td>QXRAY</td>
<td>QX29</td>
<td>QPARAPIN</td>
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<tr>
<td>Universal Torque Ratchet</td>
<td>QX30</td>
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<td>Scale 1:2</td>
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<td>Scalpel Handle</td>
<td>QX31</td>
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</tbody>
</table>

Guide Tubes

Ø 2.4 mm length 10 mm straight
QX32

Ø 2.4 mm length 10 mm with shoulder
QX34

Ø 2.4 mm length 6 mm straight
QX33

Ø 3.4 mm length 6 mm straight
QX35

Ø 3.4 mm length 6 mm with shoulder
QX36
Trinon product range for medicine

**Q-BONE-RAFTING-SET**
- suitable for onlay-plastic and mesh supported augmentation
- bone screws in diameter 1.0 und 1.3 mm
- colour coding
- including titanium bowl for blending augmentation material or temporary storage of instruments

**Q-MESH**
- 3-dimensional formed titanium mesh
- applicable to totally atrophied maxilla
- reduced operation time
- easy to use
- individual modulation

**Q-MULTITRACTOR TYPE KARLSRUHE**
- modular, vertical titanium distractor
- pre-implantological augmentation of mandibula and maxilla
- innovative pin-basis-plate
- high stability
- minimally invasive surgery
- simplified treatment, reduced operation time

**BONE-PIN-SYSTEM**
- titanium pins in length 3 mm and 5 mm
- for attachment of titanium mesh, -foils and membranes
- appropriate for 3-dimensional bone reconstruction
- titanium mesh 0.1 und 0.2 mm
- titanium foil 20 μ und 40 μ

**OSTEOSYNTHESIS SYSTEM**
- appropriate for maxillofacial-surgery
- titanium bonescrews and boneplates
- screw diameter 1.0 / 1.2 / 1.5 / 1.8 / 2.0 and 2.3 mm
- screwtop optional with inner crosshead or inner square
- large variety of plates with thickness 0.6 mm and 1.0 mm

**SCALPELS**
- scalpels blades
- disposable scalpels

**MULTIF**
- external Ortho-Fixator made of titanium
- modular component system
- easy to use
- distraction, compression, dynamisation
HIGH QUALITY TITANIUM PRODUCTS SINCE 1993

MEDICINE

INDUSTRY

CONSUMER