# Xcem Implants

CE 0473 GMP ISO 9001 : 2000

CEM Dental

**XCEM IMPLANTS**
**DCL DENCARE (I) PVT. LTD.**

www.xcemimplants.com
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We have been successfully manufacturing and trading Dental Implants & accessories for many years in the UK and worldwide. In fact we have been serving the dental community for over 25 years during which period it has always been in the same family's ownership. It is the pride and consistency in service that we believe is the main asset achieving the company's mission.

Our organization has a highly motivated and dedicated team of research and production chemists, and our management team responds promptly and efficiently to the requirments of the dental profession.

**DCL DENCARE** (India) and **XCEM IMPLANTS** (UK) operates from specially designed premises equipped with uniquely commissioned high technology plant. The products are high precision engineered components made of state of CNC machines giving superior quality and reliability.

All our products comply with **British Standard** and have been thoroughly researched which enables us to combine superior performance with economical value,We have also been accredited with the **"CE"** mark and are extremely proud to know that we were one of the first India Dental Manufacturers to achieve this distinction.**DCL DENCARE** is also audited and approved by **FDA**.Because we listen to clinicians,patients and technicians,our products have been carefully developed to meet their most demanding and exacting standards.

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# A revolution in dental implant systems

SYLBUTMENT is the product of engineering research in which the perfect contact of two at surfaces is only possible theoretically but practically impossible.

## Unprecedented - a remarkable sealing eect

The Sealing Eect occurs because of elastic modication done by the pressure on the circular bands of the contact sides.

## Outstanding durability due to even stress distribution

The even contact surfaces uniformly transfer power from prosthetic appliances to xtures. Results of fatigue tests showed that not a single fatigue failure occurred when repeated high stress loads were applied.

## NO Gap

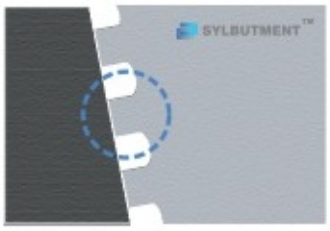
The circular bands act as a cushion within the limits of elastic modication when chewing force is applied.

## NO Loosening

The even surface contact of the circular grooved pattern evenly distributes chewing force within the limits of elasticity, preventing the screw from loosening and the abutment from swaying.

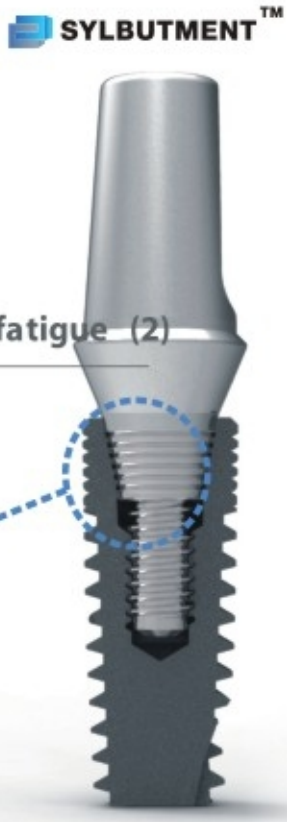
## The reason why SYLBUTMENT™ is strong against fa tigue (1)

When the abutment screw is fastened, elastic deformation occurs around the grooves of the SYLBUTMENT, creating a force which moves the abutment and xture together.




*Before fastening the Abutment Scre w*


*After fastening the Abutment Scre w*



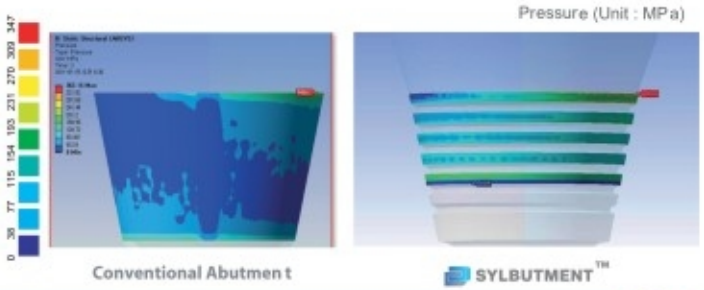

## The reason why SYLBUTMENT™ is strong against fatigue (2)

As shown in the gure above, chewing forces are experienced asymmetrically due to the grooves of the SYLBUTMENT acting as an elastic body. This rmly maintains the sealed state of the abutment and distributes the chewing forces evenly in the xture.


*The circular patt ern sec tion of SYLBUTMENT™ rec eiving che wing forc es*

## Pressure distr ibution at the c ontact surfaces of the Fixtures and the A butments (FEM Analy sis)

When conventional abutments experience asymmetrical chewing forces, the contact surfaces of the fixtures and abutments are separated; however, when a SYLBUTMENT is used, the contact surfaces are not separated.



# Submerged Fixture

## Gt2

### Connection

2.5 Hex indentation and 11 degree Morse Taper.

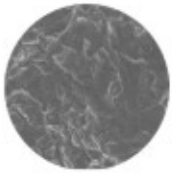

### Micro Thread

The deep 0.2 mm micro thread increases the surface area and induces a smooth connection with the larger main thread. Additionally, the micro thread increases thread contact with bone thereby improving the initial fixation effect.

### Dual Thread

As 0.8mm pitch of dual thread type, the surgery time is reduced.
(1.6mm per 1 rotation)

### RBM Surface



Surface areas are increased through blasting by highly biocompatible Calcium Phosphate Media.

### Main Thread

When the fixture is inserted into the implant bed, the conical shape and lower deep thread of the fixture increase stability and make immediate loading possible.

### Cutting Edge

When placing the implants, the cutting edge of the Twist Type increases Self Tapping ability and minimizes Bone resistance.

### Apex

Apex has the dimension of D(fixture diameter)-0.7mm and the body shape has the overall tapered one.

# Nt2

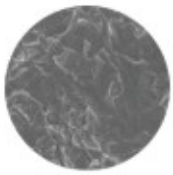
## Connection

2.5 Hex fastening Type of 11 degree Morse Taper Type


## Dual Thread

As 0.8 Dual Thread Type, the placing speed is very fast. (1.6mm per 1 rotation)

## RBM Surface



Surface areas are increased through blasting by highly biocompatible Calcium Phosphate Media.

## Main Thread

When the fixture is inserted into the implant bed, the conical shape and lower deep thread of the fixture increase stability and make immediate loading possible.

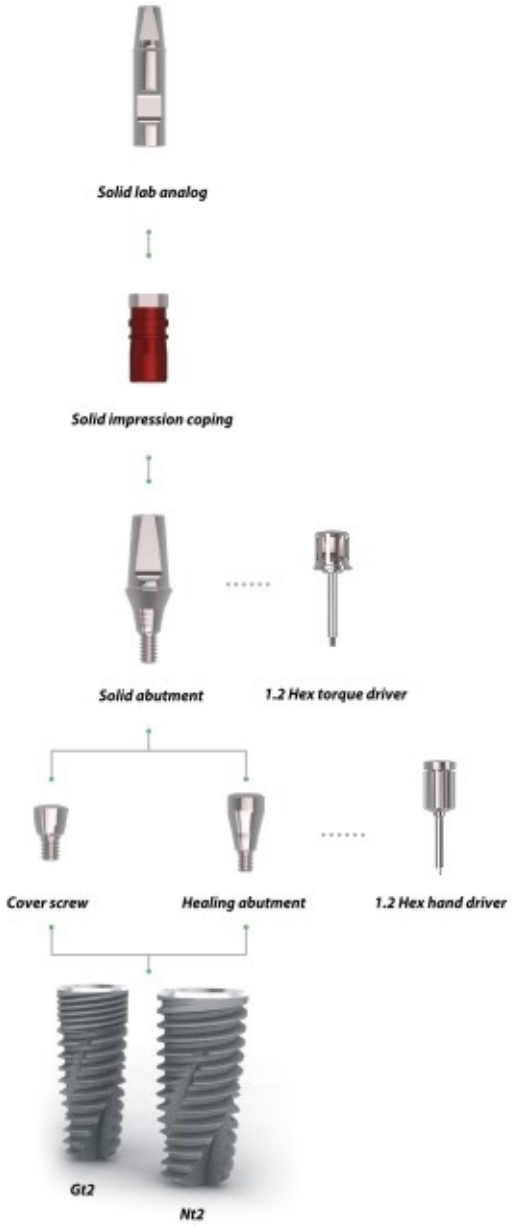
## Cutting Edge

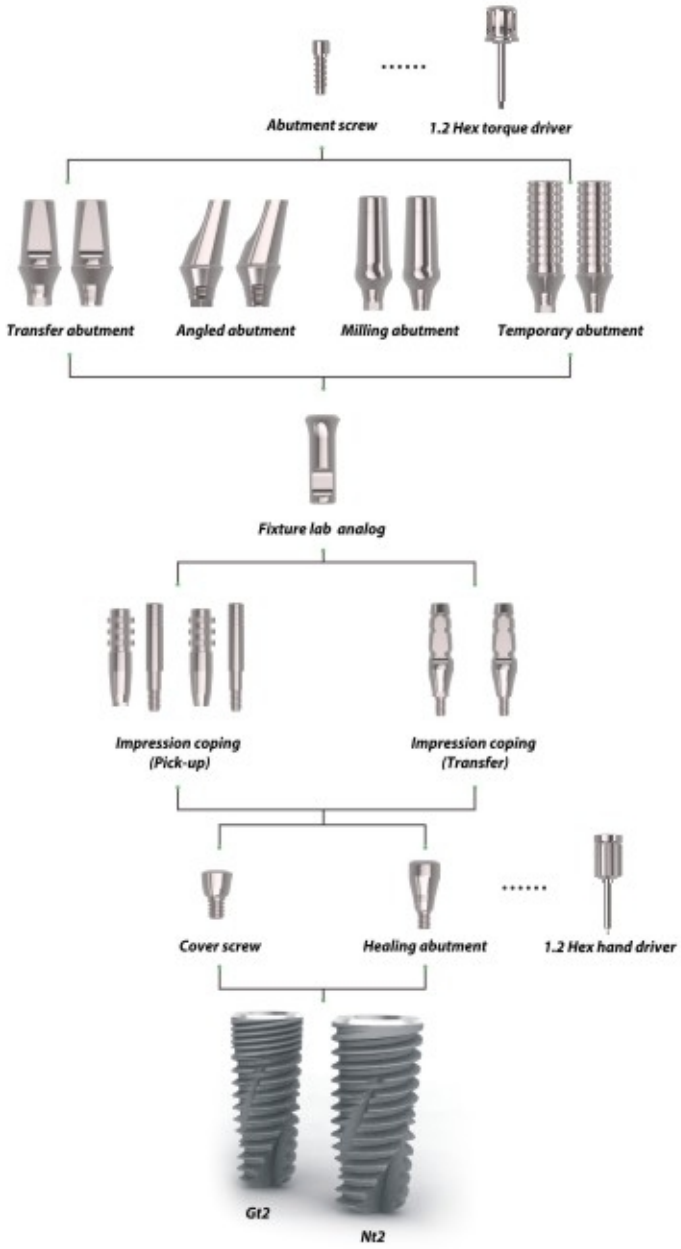
When placing the implants, the cutting edge of the Twist Type increases Self Tapping ability and minimizes Bone resistance.

## Apex

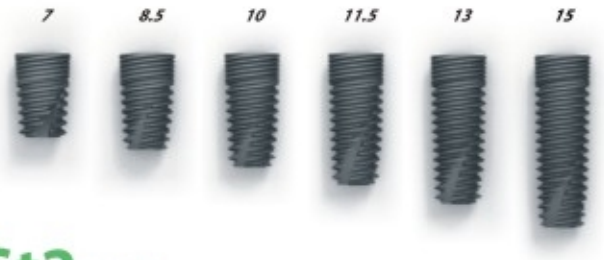
As a structure of D (Diameter) - 0.7mm, the overall Tapered type

# Submerged system
# Flow chart




Abutment screw
1.2 Hex torque driver
Transfer abutment
Angled abutment
Milling abutment
Temporary abutment
Fixture lab analog
Impression coping (Pick-up)
Impression coping (Transfer)
Cover screw
Healing abutment
1.2 Hex hand driver
Gt2
Nt2

# Submerged Fixture




- Mini
- *Regular*
- Wide
- Ultra-wide

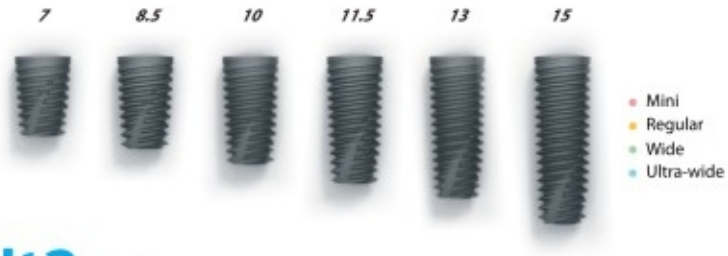
## Gt2 mini

| *Length* | • *D3.5* |
|---|---|
| *8.5* | *GT2 35085 M T* |
| *10* | *GT2 3510 M T* |
| *11.5* | *GT2 35115 M T* |
| *13* | *GT2 3513 M T* |
| *15* | *GT2 3515 M T* |


## Gt2 R/W/U

| *Length* | • *D4.0* | • *D4.5* | • *D5.0* |
|---|---|---|---|
| *7* | *GT2 4007 M T* | GT2 4507 MT | GT2 5007 MT |
| *8.5* | *GT2 40085 M T* | GT2 45085 MT | GT2 50085 MT |
| *10* | *GT2 4010 M T* | GT2 4510 MT | GT2 5010 MT |
| *11.5* | *GT2 40115 M T* | GT2 45115 MT | GT2 50115 MT |
| *13* | *GT2 4013 M T* | GT2 4513 MT | GT2 5013 MT |
| *15* | *GT2 4015 M T* | GT2 4515 MT | GT2 5015 MT |

| *Length* | • *D5.5* | • *D6.0* | • *D6.5* | • *D7.0* |
|---|---|---|---|---|
| *7* | *GT2 5507 M T* | GT2 6007 MT | GT2 6507 MT | GT2 7007 MT |
| *8.5* | *GT2 55085 M T* | GT2 60085 MT | GT2 65085 MT | GT2 70085 MT |
| *10* | *GT2 5510 M T* | GT2 6010 MT | GT2 6510 MT | GT2 7010 MT |
| *11.5* | *GT2 55115 M T* | GT2 60115 MT | GT2 65115 MT | GT2 70115 MT |
| *13* | *GT2 5513 M T* | GT2 6013 MT | GT2 6513 MT | GT2 7013 MT |
| *15* | *GT2 5515 M T* | GT2 6015 MT | GT2 6515 MT | GT2 7015 MT |




## Nt2 mini

| Length | D3.5 |
|---|---|
| 8.5 | NT2 35085 T |
| 10 | NT2 3510 T |
| 11.5 | NT2 35115 T |
| 13 | NT2 3513 T |
| 15 | NT2 3515 T |


## Nt2 R/W/U

| Length | D4.0 | D4.5 | D5.0 |
|---|---|---|---|
| 7 | NT2 4007 T | NT2 4507 T | NT2 5007 T |
| 8.5 | NT2 40085 T | NT2 45085 T | NT2 50085 T |
| 10 | NT2 4010 T | NT2 4510 T | NT2 5010 T |
| 11.5 | NT2 40115 T | NT2 45115 T | NT2 50115 T |
| 13 | NT2 4013 T | NT2 4513 T | NT2 5013 T |
| 15 | NT2 4015 T | NT2 4515 T | NT2 5015 T |

| Length | D5.5 | D6.0 | D6.5 | D7.0 |
|---|---|---|---|---|
| 7 | NT2 5507 T | NT2 6007 T | NT2 6507 T | NT2 7007 T |
| 8.5 | NT2 55085 T | NT2 60085 T | NT2 65085 T | NT2 70085 T |
| 10 | NT2 5510 T | NT2 6010 T | NT2 6510 T | NT2 7010 T |
| 11.5 | NT2 55115 T | NT2 60115 T | NT2 65115 T | NT2 70115 T |
| 13 | NT2 5513 T | NT2 6013 T | NT2 6513 T | NT2 7013 T |
| 15 | NT2 5515 T | NT2 6015 T | NT2 6515 T | NT2 7015 T |

# Submerged Abutment

- Mini
- Regular
- Wide
- Ultra-wide


**Closing screw** mini

| Height | |
|---|---|
| 0.5 | MICS 5005 |
| 2 | MICS 5020 |

**Closing screw** R/W/U

| Height | |
|---|---|
| 0.5 | 22HCSR 5005 |
| 2 | 22HCSR 5020 |

Method

Use 1.2 Hex hand driver
5~8Ncm Joining torque

Usage

Used to prevent foreign materials from entering after the fixture insertion


## Healing abutment mini

| | G/H | Height 3 | Height 4 | Height 5 | Height 7 |
|---|---|---|---|---|---|
| D4.0 | 1 | MHA 4013 | | | |
| | 2 | | MHA 4024 | MHA 4025 | |
| | 3 | | | | MHA 4037 |
| D4.5 | 1 | MHA 4513 | | | |
| | 2 | | MHA 4524 | MHA 4525 | |
| | 3 | | | | MHA 4537 |

## Healing abutment R/W/U

| | G/H | Height 3 | Height 4 | Height 5 | Height 7 |
|---|---|---|---|---|---|
| D4.0 | 1 | SHA 401030 | | | |
| | 2 | | SHA 402040 | SHA 402050 | |
| | 3 | | | | SHA 403070 |
| D4.5 | 1 | SHA 451030 | | | |
| | 2 | | SHA 452040 | SHA 452050 | |
| | 3 | | | | SHA 453070 |
| D5.0 | 1 | SHA 501030 | | | |
| | 2 | | SHA 502040 | SHA 502050 | |
| | 3 | | | | SHA 503070 |
| D6.0 | 1 | SHA 601030 | | | |
| | 2 | | SHA 602040 | SHA 602050 | |
| | 3 | | | | SHA 603070 |
| D6.5 | 1 | SHA 651030 | | | |
| | 2 | | SHA 652040 | SHA 652050 | |
| | 3 | | | | SHA 653070 |

**Method**

Use 1.2 Hex hand driver
5~8Ncm of joining torque

**Usage**

Used to protect the connecting part of the implant
Acts as the shape of the gingiva after surgery
Abutment is chosen according to the patient's gingival height.


Protect cap

## Solid abutment mini

SYLBUTMENT™

| | H | G/H 1 | G/H 2 | G/H 3 | G/H 4 | G/H 5 |
|---|---|---|---|---|---|---|
| D4.0 | 4 | MSA 4014 | MSA 4024 | MSA 4034 | MSA 4044 | MSA 4054 |
| | 5.5 | MSA 4015 | MSA 4025 | MSA 4035 | MSA 4045 | MSA 4055 |
| | 7 | MSA 4017 | MSA 4027 | MSA 4037 | MSA 4047 | MSA 4057 |
| D4.5 | 4 | MSA 4514 | MSA 4524 | MSA 4534 | MSA 4544 | MSA 4554 |
| | 5.5 | MSA 4515 | MSA 4525 | MSA 4535 | MSA 4545 | MSA 4555 |
| | 7 | MSA 4517 | MSA 4527 | MSA 4537 | MSA 4547 | MSA 4557 |

## Solid abutment R/W/U

SYLBUTMENT™

| | H | G/H 1 | G/H 2 | G/H 3 | G/H 4 | G/H 5 |
|---|---|---|---|---|---|---|
| D4.0 | 4 | SSA 401040 | SSA 402040 | SSA 403040 | SSA 404040 | SSA 405040 |
| | 5.5 | SSA 401055 | SSA 402055 | SSA 403055 | SSA 404055 | SSA 405055 |
| | 7 | SSA 401070 | SSA 402070 | SSA 403070 | SSA 404070 | SSA 405070 |
| D4.5 | 4 | SSA 451040 | SSA 452040 | SSA 453040 | SSA 454040 | SSA 455040 |
| | 5.5 | SSA 451055 | SSA 452055 | SSA 453055 | SSA 454055 | SSA 455055 |
| | 7 | SSA 451070 | SSA 452070 | SSA 453070 | SSA 454070 | SSA 455070 |
| D5.0 | 4 | SSA 501040 | SSA 502040 | SSA 503040 | SSA 504040 | SSA 505040 |
| | 5.5 | SSA 501055 | SSA 502055 | SSA 503055 | SSA 504055 | SSA 505055 |
| | 7 | SSA 501070 | SSA 502070 | SSA 503070 | SSA 504070 | SSA 505070 |
| D6.0 | 4 | SSA 601040 | SSA 602040 | SSA 603040 | SSA 604040 | SSA 605040 |
| | 5.5 | SSA 601055 | SSA 602055 | SSA 603055 | SSA 604055 | SSA 605055 |
| | 7 | SSA 601070 | SSA 602070 | SSA 603070 | SSA 604070 | SSA 605070 |
| D6.5 | 4 | SSA 651040 | SSA 652040 | SSA 653040 | SSA 654040 | SSA 655040 |
| | 5.5 | SSA 651055 | SSA 652055 | SSA 653055 | SSA 654055 | SSA 655055 |
| | 7 | SSA 651070 | SSA 652070 | SSA 653070 | SSA 654070 | SSA 655070 |

**Method**

Use solid driver for D4.0 products and the 1.2 Hex torque driver for the rest of the products
25~25Ncm joining torque

**Components**

Solid abutment + Protect cap

**Usage**

Used on the conventional cement type produced prosthesis
All-in-one abutment and screw structure


## Transfer abutment Hex mini

SYLBUTMENT™

| | H | G/H 1 | G/H 2 | G/H 3 | G/H 4 | G/H 5 |
|---|---|---|---|---|---|---|
| D4.5 | 4 | MTA 4514H | MTA 4524H | MTA 4534H | MTA 4544H | MTA 4554H |
| | 5.5 | MTA 4515H | MTA 4525H | MTA 4535H | MTA 4545H | MTA 4555H |
| | 7 | MTA 4517H | MTA 4527H | MTA 4537H | MTA 4547H | MTA 4557H |


## Transfer abutment Non-Hex mini

SYLBUTMENT™

| | H | G/H 1 | G/H 2 | G/H 3 | G/H 4 | G/H 5 |
|---|---|---|---|---|---|---|
| D4.5 | 4 | MTA 4514N | MTA 4524N | MTA 4534N | MTA 4544N | MTA 4554N |
| | 5.5 | MTA 4515N | MTA 4525N | MTA 4535N | MTA 4545N | MTA 4555N |
| | 7 | MTA 4517N | MTA 4527N | MTA 4537N | MTA 4547N | MTA 4557N |

**Method**

Use 1.2 Hex torque driver
25~35Ncm joining torque

**Components**

Transfer abutment + Abutment screw
Choice of variety of sizes according to gingival height

**Usage**

Conventional cement retained type abutment


## Transfer abutment Hex R/W/U

SYLBUTMENT™

| | H | G/H 1 | G/H 2 | G/H 3 | G/H 4 | G/H 5 |
|---|---|---|---|---|---|---|
| D4.5 | 4 | STA 451040 H | STA 452040 H | STA 453040 H | STA 454040 H | STA 455040 H |
| | 5.5 | STA 451055 H | STA 452055 H | STA 453055 H | STA 454055 H | STA 455055 H |
| | 7 | STA 451070 H | STA 452070 H | STA 453070 H | STA 454070 H | STA 455070 H |
| D5.0 | 4 | STA 501040 H | STA 502040 H | STA 503040 H | STA 504040 H | STA 505040 H |
| | 5.5 | STA 501055 H | STA 502055 H | STA 503055 H | STA 504055 H | STA 505055 H |
| | 7 | STA 501070 H | STA 502070 H | STA 503070 H | STA 504070 H | STA 505070 H |
| D6.0 | 4 | STA 601040 H | STA 602040 H | STA 603040 H | STA 604040 H | STA 605040 H |
| | 5.5 | STA 601055 H | STA 602055 H | STA 603055 H | STA 604055 H | STA 605055 H |
| | 7 | STA 601070 H | STA 602070 H | STA 603070 H | STA 604070 H | STA 605070 H |
| D6.5 | 4 | STA 651040 H | STA 652040 H | STA 653040 H | STA 654040 H | STA 655040 H |
| | 5.5 | STA 651055 H | STA 652055 H | STA 653055 H | STA 654055 H | STA 655055 H |
| | 7 | STA 651070 H | STA 652070 H | STA 653070 H | STA 654070 H | STA 655070 H |


## Transfer abutment Non-Hex R/W/U

SYLBUTMENT™

| | H | G/H 1 | G/H 2 | G/H 3 | G/H 4 | G/H 5 |
|---|---|---|---|---|---|---|
| D4.5 | 4 | STA 451040 N | STA 452040 N | STA 453040 N | STA 454040 N | STA 455040 N |
| | 5.5 | STA 451055 N | STA 452055 N | STA 453055 N | STA 454055 N | STA 455055 N |
| | 7 | STA 451070 N | STA 452070 N | STA 453070 N | STA 454070 N | STA 455070 N |
| D5.0 | 4 | STA 501040 N | STA 502040 N | STA 503040 N | STA 504040 N | STA 505040 N |
| | 5.5 | STA 501055 N | STA 502055 N | STA 503055 N | STA 504055 N | STA 505055 N |
| | 7 | STA 501070 N | STA 502070 N | STA 503070 N | STA 504070 N | STA 505070 N |
| D6.0 | 4 | STA 601040 N | STA 602040 N | STA 603040 N | STA 604040 N | STA 605040 N |
| | 5.5 | STA 601055 N | STA 602055 N | STA 603055 N | STA 604055 N | STA 605055 N |
| | 7 | STA 601070 N | STA 602070 N | STA 603070 N | STA 604070 N | STA 605070 N |
| D6.5 | 4 | STA 651040 N | STA 652040 N | STA 653040 N | STA 654040 N | STA 655040 N |
| | 5.5 | STA 651055 N | STA 652055 N | STA 653055 N | STA 654055 N | STA 655055 N |
| | 7 | STA 651070 N | STA 652070 N | STA 653070 N | STA 654070 N | STA 655070 N |

**Method**

Use 1.2 Hex torque driver
25~35Ncm joining torque

**Components**

Transfer abutment + Abutment screw
Choice of variety of sizes according to gingival height

**Usage**

Conventional cement retained type abutment

A Type B Type


## Angled abutment Hex mini SYLBUTMENT™

| A Type | A | G/H 2 | G/H 4 |
|---|---|---|---|
| D4.5 | 15 | MAA 4521 A | MAA 4541 A |
| | 25 | MAA 4522 A | MAA 4542 A |

| B type | A | G/H 2 | G/H 4 |
|---|---|---|---|
| D4.5 | 15 | MAA 4521 B | MAA 4541 B |
| | 25 | MAA 4522 B | MAA 4542 B |

H = 7mm


## Angled abutment Non-Hex mini SYLBUTMENT™

| | A | G/H 2 | G/H 4 |
|---|---|---|---|
| D4.5 | 15 | MAA 4521 N | MAA 4541 N |
| | 25 | MAA 4522 N | MAA 4542 N |

H = 7mm

**Method**

Use 1.2 Hex torque driver
25~35Ncm joining torque

**Components**

Angled abutment + Abutment screw
15˚ / 25˚ composition

**Usage**

Conventional cement retained type abutment
Used in revising the fixture's path
Used in cases when the prosthesis' path needs to be adjusted


A Type


B Type


## Angled abutment Hex R/W/U SYLBUTMENT™

| A Type | A | G/H 2 | G/H 4 |
|---|---|---|---|
| D4.5 | 15 | SAA 452015 A | SAA 454015 A |
| | 25 | SAA 452025 A | SAA 454025 A |
| D5.0 | 15 | SAA 502015 A | SAA 504015 A |
| | 25 | SAA 502025 A | SAA 504025 A |
| D6.0 | 15 | SAA 602015 A | SAA 604015 A |
| | 25 | SAA 602025 A | SAA 604025 A |
| D6.5 | 15 | SAA 652015 A | SAA 654015 A |
| | 25 | SAA 652025 A | SAA 654025 A |

| B type | A | G/H 2 | G/H 4 |
|---|---|---|---|
| D4.5 | 15 | SAA 452015 B | SAA 454015 B |
| | 25 | SAA 452025 B | SAA 454025 B |
| D5.0 | 15 | SAA 502015 B | SAA 504015 B |
| | 25 | SAA 502025 B | SAA 504025 B |
| D6.0 | 15 | SAA 602015 B | SAA 604015 B |
| | 25 | SAA 602025 B | SAA 604025 B |
| D6.5 | 15 | SAA 652015 B | SAA 654015 B |
| | 25 | SAA 652025 B | SAA 654025 B |

H = 7mm


## Angled abutment Non-Hex R/W/U SYLBUTMENT™

| | A | G/H 2 | G/H 4 |
|---|---|---|---|
| D4.5 | 15 | SAA 452015 N | SAA 454015 N |
| | 25 | SAA 452025 N | SAA 454025 N |
| D5.0 | 15 | SAA 502015 N | SAA 504015 N |
| | 25 | SAA 502025 N | SAA 504025 N |
| D6.0 | 15 | SAA 602015 N | SAA 604015 N |
| | 25 | SAA 602025 N | SAA 604025 N |
| D6.5 | 15 | SAA 652015 N | SAA 654015 N |
| | 25 | SAA 652025 N | SAA 654025 N |

H = 7mm

**Method**

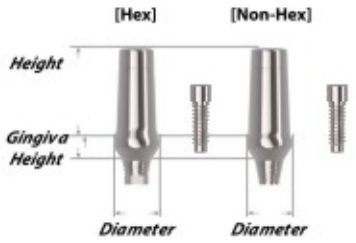
Use 1.2 Hex torque driver
25~35Ncm joining torque

**Components**

Angled abutment + Abutment screw
15˚ / 25˚ composition

**Usage**

Conventional cement retained type abutment
Used in revising the fixture's path
Used in cases when the prosthesis' path needs to be adjusted




## Milling abutment mini

SYLBUTMENT™

| | G/H 2 | | G/H 4 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D4.5 | MMA 4529 H | MMA 4529 N | MMA 4549 H | MMA 4549 N |

## Milling abutment R/W/U

SYLBUTMENT™

| | G/H 2 | | G/H 4 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D5.0 | SMA 5029 H | SMA 5029 N | SMA 5049 H | SMA 5049 N |
| D6.0 | SMA 6029 H | SMA 6029 N | SMA 6049 H | SMA 6049 N |

H = 9mm

**Method**

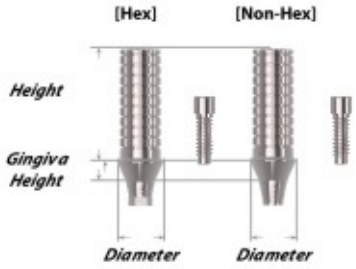
Use 1.2 Hex torque driver
25~35Ncm joining torque

**Components**

Millng abutment + Abutment screw

**Usage**

Used in cases when the height or margin of abutment needs to be customized




## Temporary abutment mini

SYLBUTMENT™

| | G/H 2 | | G/H 4 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D4.5 | MTPA 452 H | MTPA 452 N | MTPA 454 H | MTPA 454 N |

## Temporary abutment R/W/U

SYLBUTMENT™

| | G/H 2 | | G/H 4 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D5.0 | STPA 502 H | STPA 502 N | STPA 504 H | STPA 504 N |

H = 10mm

**Method**

Use 1.2 Hex torque driver
25~35Ncm joining torque

**Components**

Temporary abutment + Abutment screw

**Usage**

Used in cases making the temporary prosthesis


## Solid lab analog M/R/W/U

| | Height 4 | Height 5.5 | Height 7 |
|---|---|---|---|
| D4.0 | S-SLA 4040 | S-SLA 4055 | S-SLA 4070 |
| D4.5 | S-SLA 4540 | S-SLA 4555 | S-SLA 4570 |
| D5.0 | S-SLA 5040 | S-SLA 5055 | S-SLA 5070 |
| D6.0 | S-SLA 6040 | S-SLA 6055 | S-SLA 6070 |
| D6.5 | S-SLA 6540 | S-SLA 6555 | S-SLA 6570 |

Method

Used on solid abutment features
Used to produce the model for solid Impression coping connection pick up inside the oral cavity

Usage

Solid abutment is materialized in the oral cavity on the working replica


## Solid impression coping M/R/W/U

| | Height 4 | Height 5.5 | Height 7 |
|---|---|---|---|
| D4.0 | S-IC 4040 | S-IC 4055 | S-IC 4070 |
| D4.5 | S-IC 4540 | S-IC 4555 | S-IC 4570 |
| D5.0 | S-IC 5040 | S-IC 5055 | S-IC 5070 |
| D6.0 | S-IC 6040 | S-IC 6055 | S-IC 6070 |
| D6.5 | S-IC 6540 | S-IC 6555 | S-IC 6570 |

Method

Used on solid Abutment features
Integration of existing positioning cylinder and Impression Cap

## Fixture lab analog mini

M-FLA 35

## Fixture lab analog R/W/U

S-FLA 45

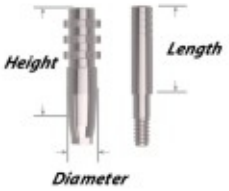
Method

For Gt2/Nt2
Used on abutment features
Used to produce the model for solid Impression coping
Connection pick up inside the oral cavity

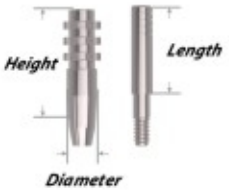
Usage

Fixture is materialized in the oral cavity on the working replica

[Hex]




[Non-Hex]




## Impression coping (Pick-up) mini

| | Length 10 | | Length 15 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D4.0 | M-ICP4010H | M-ICP4010N | M-ICP4015H | M-ICP4015N |

## Impression coping (Pick-up) R/W/U

| | Length 10 | | Length 15 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D4.5 | S-ICP4510H | S-ICP4510N | S-ICP4515H | S-ICP4515N |

## Impression coping Guide pin (Pick-up) mini

| Length 10 | Length 15 | Length 20 |
|---|---|---|
| M-PG 100 | M-PG 150 | M-PG 200 |

## Impression coping Guide pin (Pick-up) R/W/U

| Length 10 | Length 15 | Length 20 |
|---|---|---|
| S-PG 100 | S-PG 150 | S-PG 200 |

Method

Use 1.2 Hex hand driver

Components

Impression coping + Guide pin
10mm/15mm/20mm Guide pin size

Usage

Use of custom tray
Increases the ease of various guide pin size

[Hex]

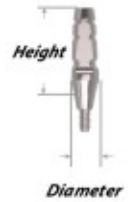

## Impression coping (Transfer) mini

| | Length 11 | | Length 15 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D4.0 | M-ICT 4011 H | M-ICT 4011 N | M-ICT 4015 H | M-ICT 4015 N |

## Impression coping (Transfer) R/W/U

| | Length 11 | | Length 15 | |
|---|---|---|---|---|
| | Hex | Non-Hex | Hex | Non-Hex |
| D4.5 | S-ICT 4511 H | S-ICT 4511 N | S-ICT 4515 H | S-ICT 4515 N |

[Non-Hex]




Method

Use 1.2 Hex hand driver

Components

Impression coping + Guide pin (2 pieces)
11mm / 15mm Coping size

Usage

Existing tray is used

# Common components of Surgical kits

## Guide drill

| | Diameter | Length |
|---|---|---|
| GDR 20B | 2.0 | 15 |

- Easily forms the first hole in the initial drilling
- Marks the direction of the initial drilling in the cortical bone structure
- Only the triangular tip of the drill bit is used
- Bone density is assessed through the guide drill

## Drill extention

| | Diameter |
|---|---|
| DRE 002 | 2.4 |

- To extend the length of the used drills and other surgical equipment handpieces.

## Parallel pin

| | D1 | D2 | D3 | L |
|---|---|---|---|---|
| TPAP 50B | 5.0 | 2.8 | 2.2 | 10 |

- *Confirms the direction and distance in bone preparation.*
- Confirms the distance of spaces in multi-insertions.

## Torque wrench

TRW 400 B

- Used when inserting the fixture and fastening the screw
- Possible 15/25/35N tool adjustment

## Fixrure driver Hex mini

| | | Hex |
|---|---|---|
| For Hand piece | MMHL 002S | 2.1 |
| | MMHL 002L | 2.1 |
| For Torque wrench | RMHL 002S | 2.1 |
| | RMHL 002L | 2.1 |

## Fixture driver Hex R/W/U

| | | Hex |
|---|---|---|
| For Hand piece | MHL 002S | 2.5 |
| | MHL 002L | 2.5 |
| For Torque wrench | RHL 002S | 2.5 |
| | RHL 002L | 2.5 |

## Fixture driver Octa

| | | Octa |
|---|---|---|
| For Hand pece | MOL 002S | 3.1 |
| | MOL 002L | 3.1 |
| For Torque wrench | ROL 002S | 3.1 |
| | ROL 002L | 3.1 |

For Hand piece
- Fastened with hand piece engine
- For Hand Piece is used to insert and fasten the fixture
- Designed to prevent dropping when picking up the fixture to be fastened

For Torque wrench
- Fastened with torque wrench
- For Torque Wrench is used to insert and fasten the fixture
- Designed to prevent dropping when picking up the fixture to be fastened.

## 1.2 Hex driver

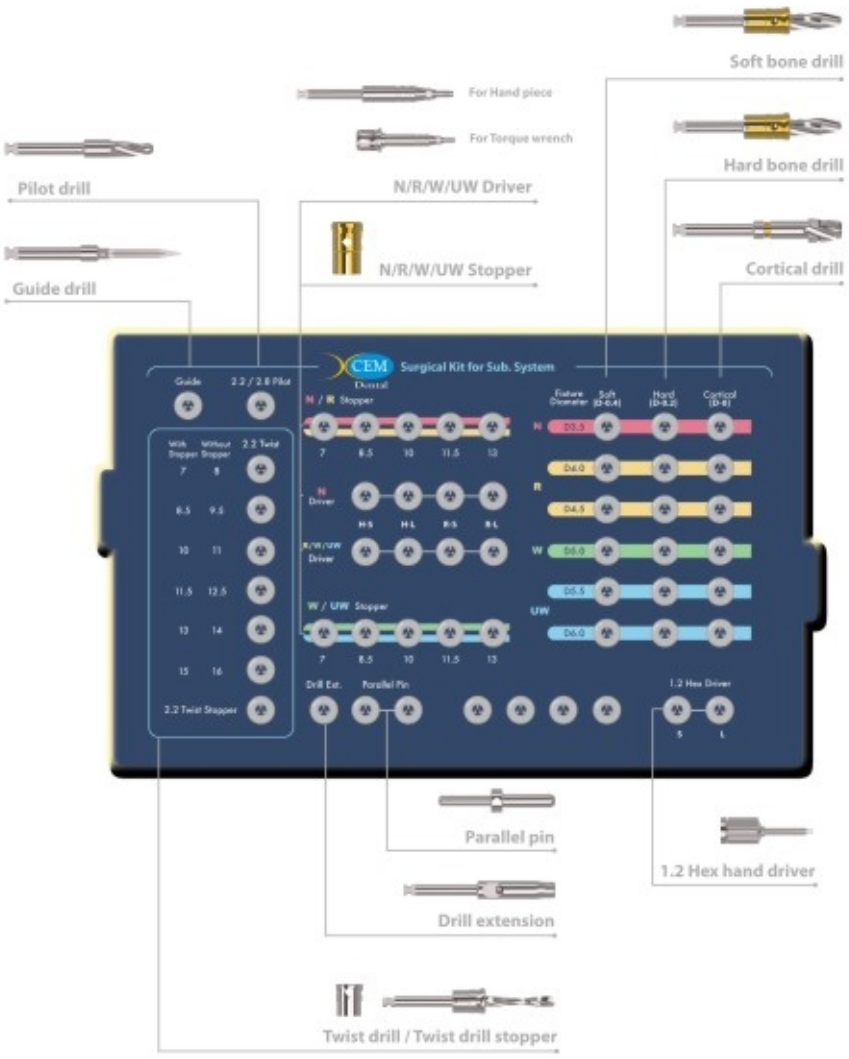
| | | Length | Hex |
|---|---|---|---|
| Hand driver | THV 12SB | 8 | 1.2 |
| | THV 12LB | 15 | 1.2 |
| Machine driver | MHV 12SB | 8 | 1.2 |
| | MHV 12LB | 12 | 1.2 |
| Torque driver | RHV 12SB | 8 | 1.2 |
| | RHV 12LB | 15 | 1.2 |

Hand driver
- Hand driver is used when manually fastening the fixture with the joined abutment and screw

Machine driver
- Driver for engine

Torque driver
- Driver for fastening torque wrench

# Submerged stopper drill
# Surgical kit



## Twist drill

| | Diameter | Length | |
|---|---|---|---|
| | | With stopper | Without stopper |
| TDR 07 iR | 2.2 | 7.0 | 8.5 |
| TDR 085 iR | 2.2 | 8.5 | 9.5 |
| TDR 10 iR | 2.2 | 10 | 11 |
| TDR 115 iR | 2.2 | 11.5 | 12.5 |
| TDR 13 iR | 2.2 | 13 | 14 |
| TDR 15 iR | 2.2 | 15 | 16 |

- Initial hole is formed at the marked region by the guide drill
- Caution is used to the adjacent space's depth and parallel

Regular bone : With stopper
Irregular bone : Without stopper
1mm longer without stopper and it is used in case of irregular bone

## Twist drill Stopper

| | Diameter | Length |
|---|---|---|
| STR 1 MM | 4.4 | 6.0 |

## Pilot drill

| | D1 | D2 |
|---|---|---|
| PDR 2230 | 2.2 | 3.0 |

- After the initial drilling the Ø2.2 entry way is expanded to Ø3.0 for the tubal drill entry of both the tapered drill and straight drill

## Stopper

| | Diameter | Length |
|---|---|---|
| STR 07 | 4.4 | 11.5 |
| STR 085 | 4.4 | 10.5 |
| STR 10 | 4.4 | 9.0 |
| STR 115 | 4.4 | 7.5 |
| STR 13 | 4.4 | 6.0 |
| STW 07 | 5.8 | 11.5 |
| STW 085 | 5.8 | 10.5 |
| STW 10 | 5.8 | 9.0 |
| STW 115 | 5.8 | 7.5 |
| STW 13 | 5.8 | 6.0 |

## Soft drill

| | D1 | D2 | Length |
|---|---|---|---|
| IPDS 35 | 2.4 | 3.1 | 15 |
| IPDS 40 | 2.9 | 3.6 | 15 |
| IPDS 45 | 3.4 | 4.1 | 15 |
| IPDS 50 | 3.9 | 4.6 | 15 |
| IPDS 55 | 4.4 | 5.1 | 15 |
| IPDS 60 | 4.9 | 5.6 | 15 |
| IPDS 65 | 5.4 | 6.1 | 15 |
| IPDS 70 | 5.9 | 6.6 | 15 |

## Hard bone drill

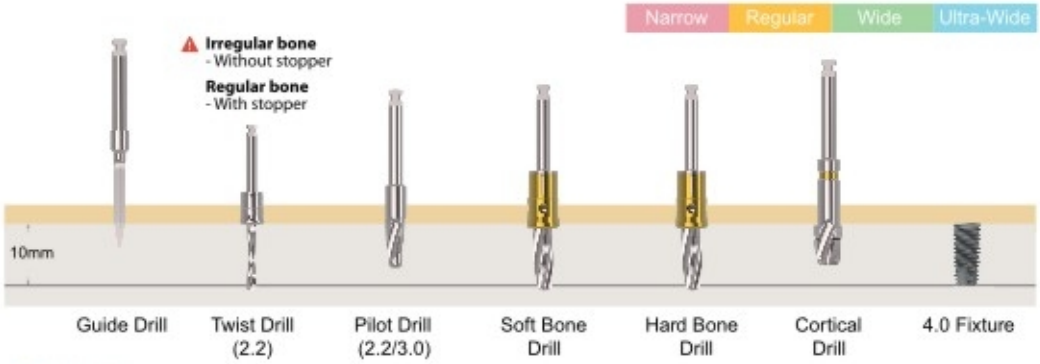
| | D1 | D2 | Length |
|---|---|---|---|
| IPDS 35H | 2.6 | 3.3 | 15 |
| IPDS 40H | 3.1 | 3.8 | 15 |
| IPDS 45H | 3.6 | 4.3 | 15 |
| IPDS 50H | 4.1 | 4.8 | 15 |
| IPDS 55H | 4.6 | 5.3 | 15 |
| IPDS 60H | 5.1 | 5.8 | 15 |
| IPDS 65H | 5.6 | 6.3 | 15 |
| IPDS 70H | 6.1 | 6.8 | 15 |

## Cortical drill

| | D1 | D2 | L1 | L2 |
|---|---|---|---|---|
| ICD 35 | 3.5 | 3.3 | 2 | 2 |
| ICD 40 | 4.0 | 3.8 | 2 | 2 |
| ICD 45 | 4.5 | 4.3 | 2 | 2 |
| ICD 50 | 5.0 | 4.8 | 2 | 2 |
| ICD 55 | 5.5 | 5.3 | 2 | 2 |
| ICD 60 | 6.0 | 5.8 | 2 | 2 |
| ICD 65 | 6.5 | 6.3 | 2 | 2 |
| ICD 70 | 7.0 | 6.8 | 2 | 2 |

- Used to prevent the Fixture's neck region to be caught in the cortical bone
- Composed of the equivalent dimension of the neck-size of the fixture to be inserted.

# Submerged stopper drill kit drilling sequence




S.D : Soft Bone Drill [D - 0.4]
H.D : Hard Bone Drill [D - 0.2]
C.D : Cortical Drill [D - 0.0]

### 3.5 Fixture


### 4.0 Fixture

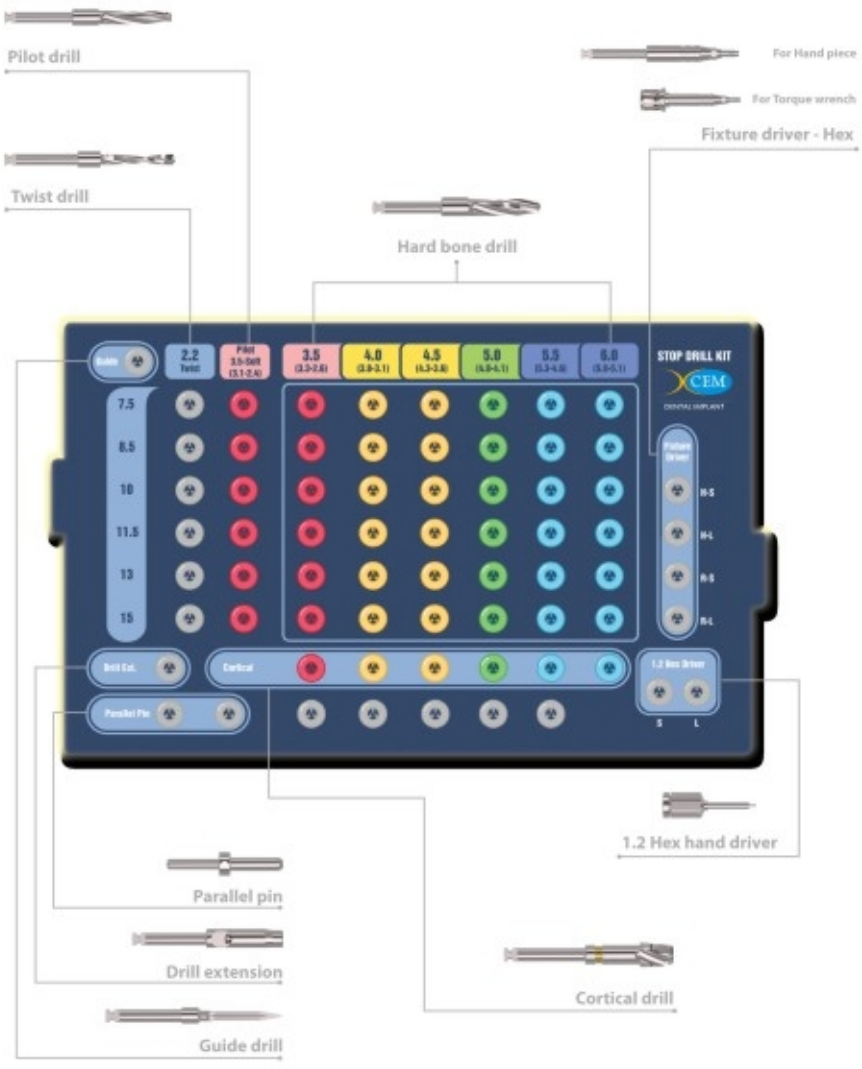

### 4.5 Fixture


### 5.0 Fixture


### 5.5 Fixture


### 6.0 Fixture

# Submerged full stop drill
# Surgical kit



## Twist drill

| | Diameter | Length |
|---|---|---|
| TDR 22075 | 2.2 | 7.5 |
| TDR 22085 | 2.2 | 8.5 |
| TDR 2210 | 2.2 | 10 |
| TDR 22115 | 2.2 | 11.5 |
| TDR 2213 | 2.2 | 13 |
| TDR 2215 | 2.2 | 15 |

- Initial hole is formed at the marked region by the guide drill
- Caution is used to the adjacent space's depth and parallel

## Pilot drill

| | D1 | D2 | Length |
|---|---|---|---|
| PDR 35075 | 2.4 | 3.1 | 7.5 |
| PDR 35085 | 2.4 | 3.1 | 8.5 |
| PDR 3510 | 2.4 | 3.1 | 10 |
| PDR 35115 | 2.4 | 3.1 | 11.5 |
| PDR 3513 | 2.4 | 3.1 | 13 |
| PDR 3515 | 2.4 | 3.1 | 15 |

- After the initial drilling the Ø2.2 entry way is expanded to Ø3.0 for the tubal drill entry of both the tapered drill and straight drill

## Cortical drill

| | D1 | D2 | L1 | L2 |
|---|---|---|---|---|
| ICD 35 | 3.5 | 3.3 | 2 | 2 |
| ICD 40 | 4.0 | 3.8 | 2 | 2 |
| ICD 45 | 4.5 | 4.3 | 2 | 2 |
| ICD 50 | 5.0 | 4.8 | 2 | 2 |
| ICD 55 | 5.5 | 5.3 | 2 | 2 |
| ICD 60 | 6.0 | 5.8 | 2 | 2 |

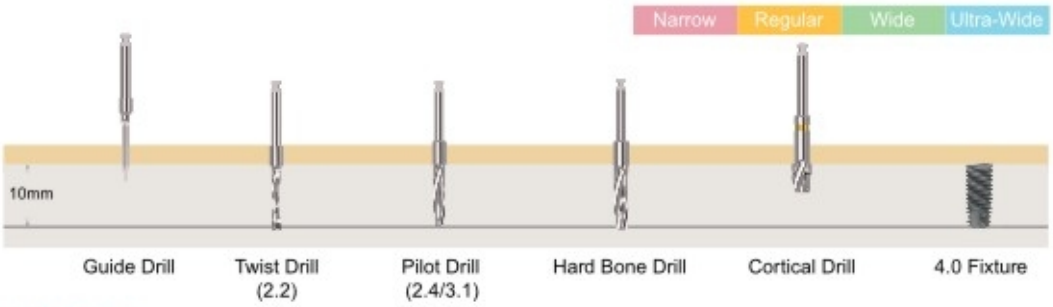
- Used to prevent the fixture's neck region to be caught in the cortical bone
- composed of the equivalent dimension of the neck-size of the fixture to be inserted.

## Hard Bone drill

| | D1 | D2 | Length |
|---|---|---|---|
| IPD 35075 | 2.6 | 3.3 | 7.5 |
| IPD 35085 | 2.6 | 3.3 | 8.5 |
| IPD 3510 | 2.6 | 3.3 | 10 |
| IPD 35115 | 2.6 | 3.3 | 11.5 |
| IPD 3513 | 2.6 | 3.3 | 13 |
| IPD 3515 | 2.6 | 3.3 | 15 |
| IPD 40075 | 3.1 | 3.8 | 7.5 |
| IPD 40085 | 3.1 | 3.8 | 8.5 |
| IPD 4010 | 3.1 | 3.8 | 10 |
| IPD 40115 | 3.1 | 3.8 | 11.5 |
| IPD 4013 | 3.1 | 3.8 | 13 |
| IPD 4015 | 3.1 | 3.8 | 15 |
| IPD 45075 | 3.6 | 4.3 | 7.5 |
| IPD 45085 | 3.6 | 4.3 | 8.5 |
| IPD 4510 | 3.6 | 4.3 | 10 |
| IPD 45115 | 3.6 | 4.3 | 11.5 |
| IPD 4513 | 3.6 | 4.3 | 13 |
| IPD 4515 | 3.6 | 4.3 | 15 |
| IPD 50075 | 4.1 | 4.8 | 7.5 |
| IPD 50085 | 4.1 | 4.8 | 8.5 |
| IPD 5010 | 4.1 | 4.8 | 10 |
| IPD 50115 | 4.1 | 4.8 | 11.5 |
| IPD 5013 | 4.1 | 4.8 | 13 |
| IPD 5015 | 4.1 | 4.8 | 15 |
| IPD 55075 | 4.6 | 5.3 | 7.5 |
| IPD 55085 | 4.6 | 5.3 | 8.5 |
| IPD 5510 | 4.6 | 5.3 | 10 |
| IPD 55115 | 4.6 | 5.3 | 11.5 |
| IPD 5513 | 4.6 | 5.3 | 13 |
| IPD 5515 | 4.6 | 5.3 | 15 |
| IPD 60075 | 5.1 | 5.8 | 7.5 |
| IPD 60085 | 5.1 | 5.8 | 8.5 |
| IPD 6010 | 5.1 | 5.8 | 10 |
| IPD 60115 | 5.1 | 5.8 | 11.5 |
| IPD 6013 | 5.1 | 5.8 | 13 |
| IPD 6015 | 5.1 | 5.8 | 15 |

- Used to expand the dimension of the equivalent body size of the fixture to be inserted into the Ø2.2 hole that is formed by twist drilling.
- To minimize bone resistance in order to prevent bone crack, necrosis and others, drills are used in stages starting with the smallest diameter.
- Fixture's own body shape is almost equivalent to the body shape

# Submerged full stop drill kit drilling sequence




H.D : Hard Bone Drill [D - 0.2]
C.D : Cortical Drill [D - 0.0]

## 3.5 Fixture


## 4.0 Fixture


## 4.5 Fixture


## 5.0 Fixture


## 5.5 Fixture


## 6.0 Fixture

CE 0473 GMP ISO 9001 : 2000

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