

Multi Unit Abutments

Global PM Dept. | Product PM Team



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3. Multi Unit Abutment's components
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1. Understanding of multi unit abutments

Comparison of abutments

A common abutment

Cement
Abutment



IS-II active

A multi unit abutment



CCM Cylinder



Multi Unit Abutment

IS-II active

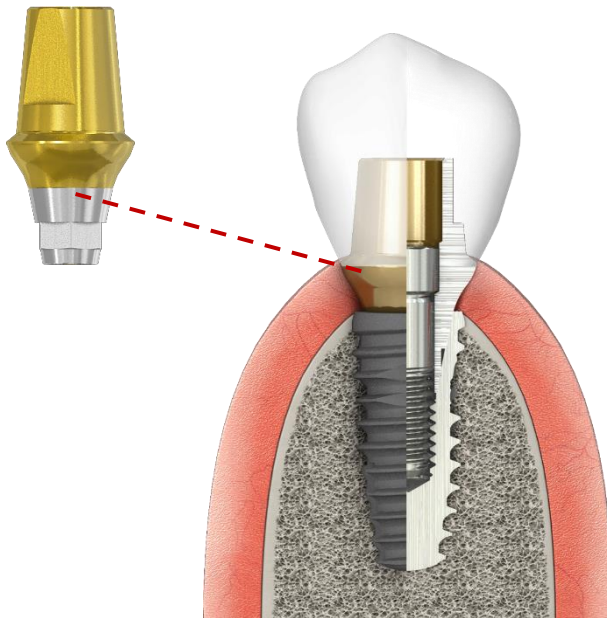
Features of a multi unit abutments:

- ✓ Dual structure: a CCM cylinder is mounted onto the Multi Unit Abutment
- ✓ Abutment level Impression
- ✓ Screw type Prosthesis
- ✓ Used for multiple cases (bridge cases)
- ✓ Offers a range of angulations and sizes for maximum flexibility
- ✓ Enables passive fit of prosthetics for enhanced durability

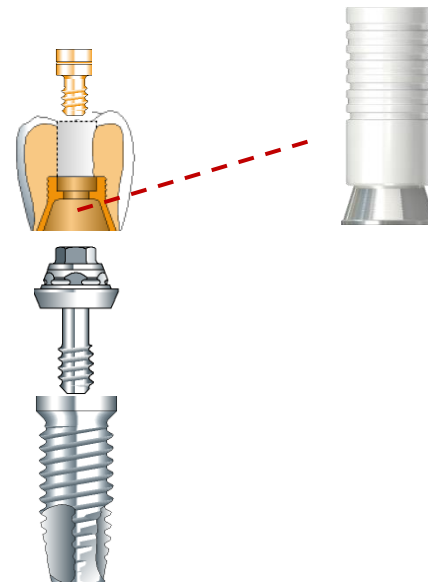
1. Understanding of multi unit abutments

Configuration of multi unit abutment

A common abutment

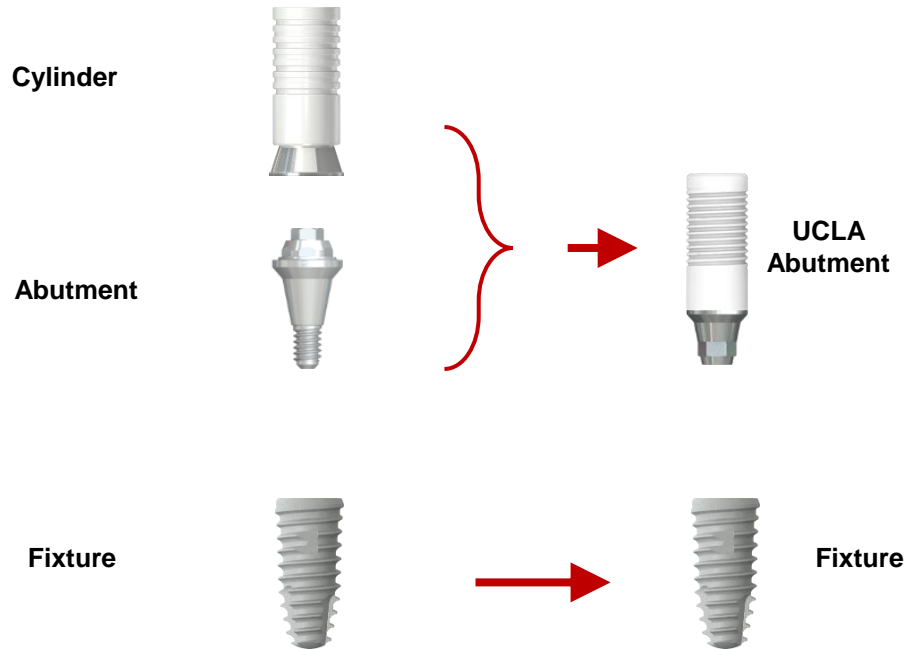


A multi unit abutment



1. Understanding of multi unit abutments

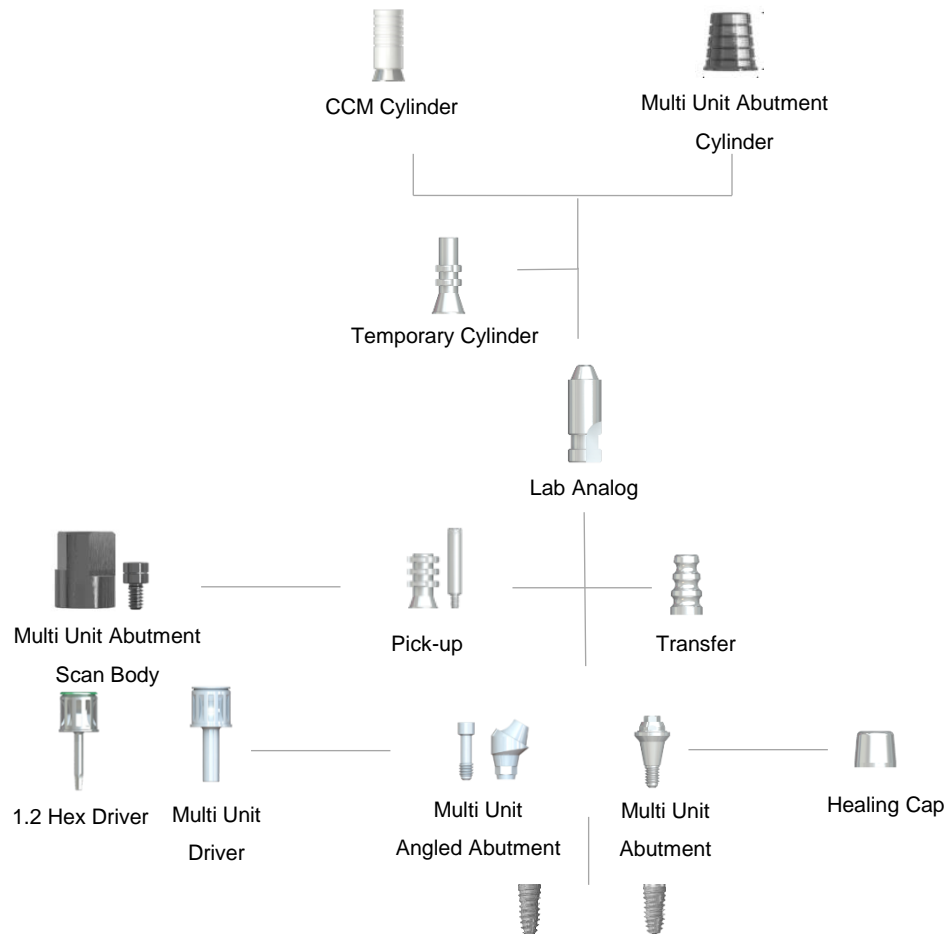
History of development of UCLA abutments



- The Universal Castable Long Abutments (UCLA) were invented by Lewis at UCLA university in 80's
- UCLA abutments were developed for prosthesis on single or multiple implants
- Used as a replacement for cylinder since the early 90s
- Due to the popularization of CAD/CAM equipment, the use rate of UCLA abutments is decreased

2. Neobiotech Multi Unit Abutments

Prosthetic flow chart



2. Neobiotech Multi Unit Abutments

IS Multi Unit Abutments (straight)

IS Multi Unit Abutments may be used for multiple-case restorations:

- ✓ Screw-retained restorations (SRP) at the abutment level
- ✓ Cast alloy bars overdentures
- ✓ Fixed / detachable (hybrid) restorations

Tightening torque:

- *Abutment: 30Ncm*
- *Cylinder Screw: 15 Ncm*



Cuff(mm)	1.0	2.0	3.0	4.0
Product name	ISMUA4810S	ISMUA4820S	ISMUA4830S	ISMUA4840S

✓ Cuff 1, 2, 3, 4 mm

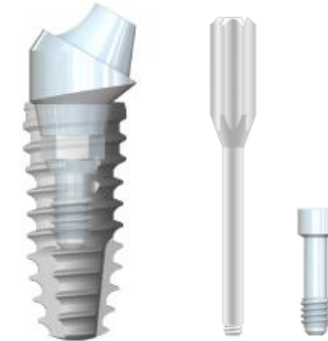
*Holder (MUAH48) included

2. Neobiotech Multi Unit Abutments

IS Multi Unit Angled Abutments

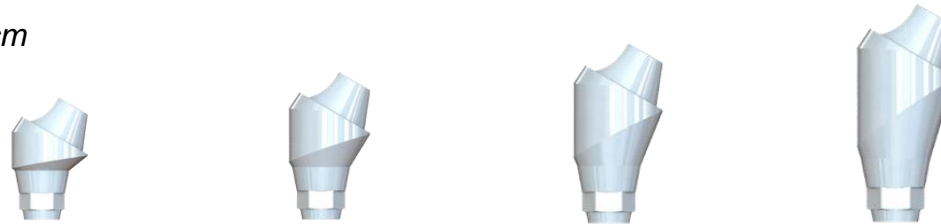
IS Multi Unit Angled Abutments may be used for multiple-case restorations:

- ✓ Screw-retained restorations (SRP) at the abutment level
- ✓ Cast alloy bars overdentures
- ✓ Fixed / detachable (hybrid) restorations



Tightening torque:

- Abutment: 30Ncm
- Cylinder Screw: 15 Ncm



Cuff(mm)		1.0	2.0	3.0	4.0
Hex	17°	ISAHMUA1410S	ISAHMUA1420S	ISAHMUA1430S	ISAHMUA1440S
	30°	ISAHMUA3410S	ISAHMUA3420S	ISAHMUA3430S	ISAHMUA3440S
Non-Hex	17°	ISANMUA1410S	ISAHMUA1420S	ISAHMUA1430S	ISAHMUA1440S
	30°	ISANMUA3410S	ISAHMUA3420S	ISAHMUA3430S	ISAHMUA3440S

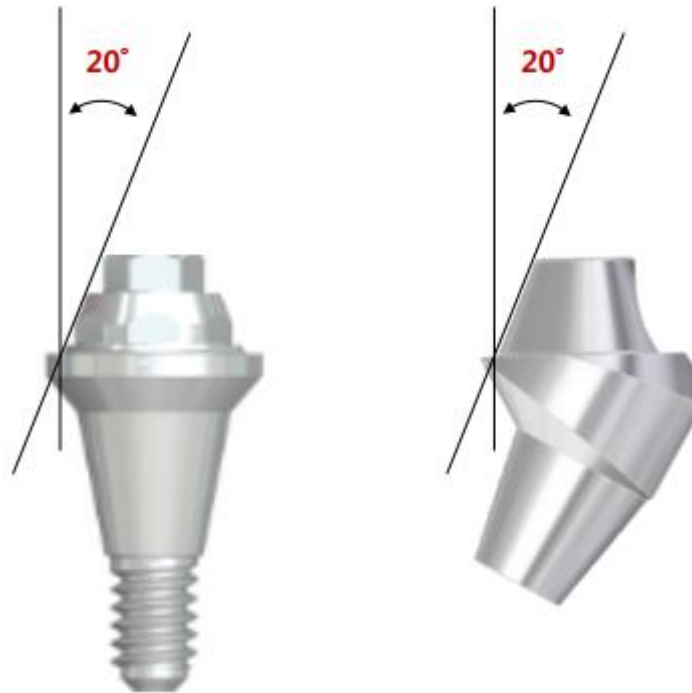
- ✓ Cuff 1, 2, 3, 4 mm
- ✓ Hex / Non-Hex
- ✓ 17° / 30°

*Holder (AMUAH35), Abutment Screw (ISAMUAS20) included

2. Neobiotech Multi Unit Abutments

Angle compensation

Structure of Neobiotech multi unit abutments allow to compensate angles of deviation up to 20° (on one side) and 40° on both sides.

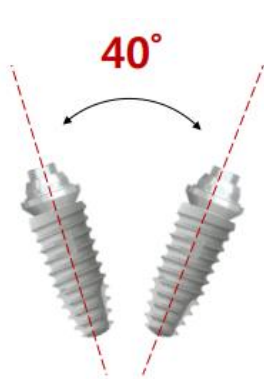


40° angle compensation on both sides is available

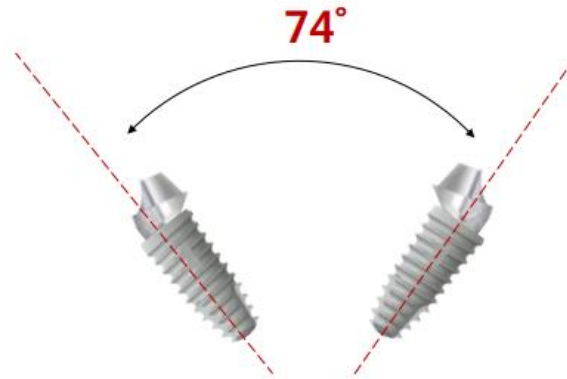
2. Neobiotech Multi Unit Abutments

Angle compensation

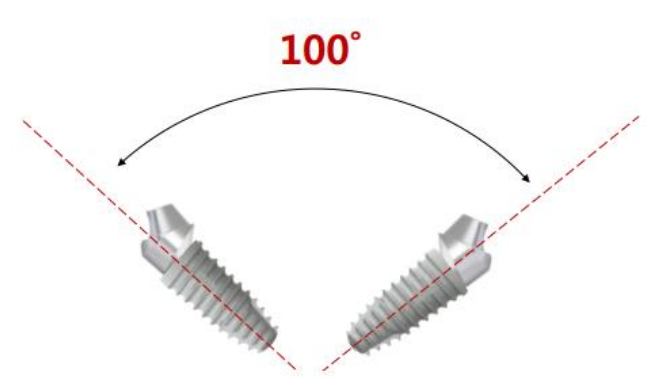
With the IS Multi Unit Abutment, divergences of up to 20° (on one side) and 40° can be compensated (on both sides). If 17° Angled Abutment is used, the angled compensation is 37° (on one side) and 74° (on both sides). For 30° Angled Abutment the angle divergence is up to 100° (both sides).



**Straight Multi Unit
Abutment**
 $20 \times 2 = 40^\circ$



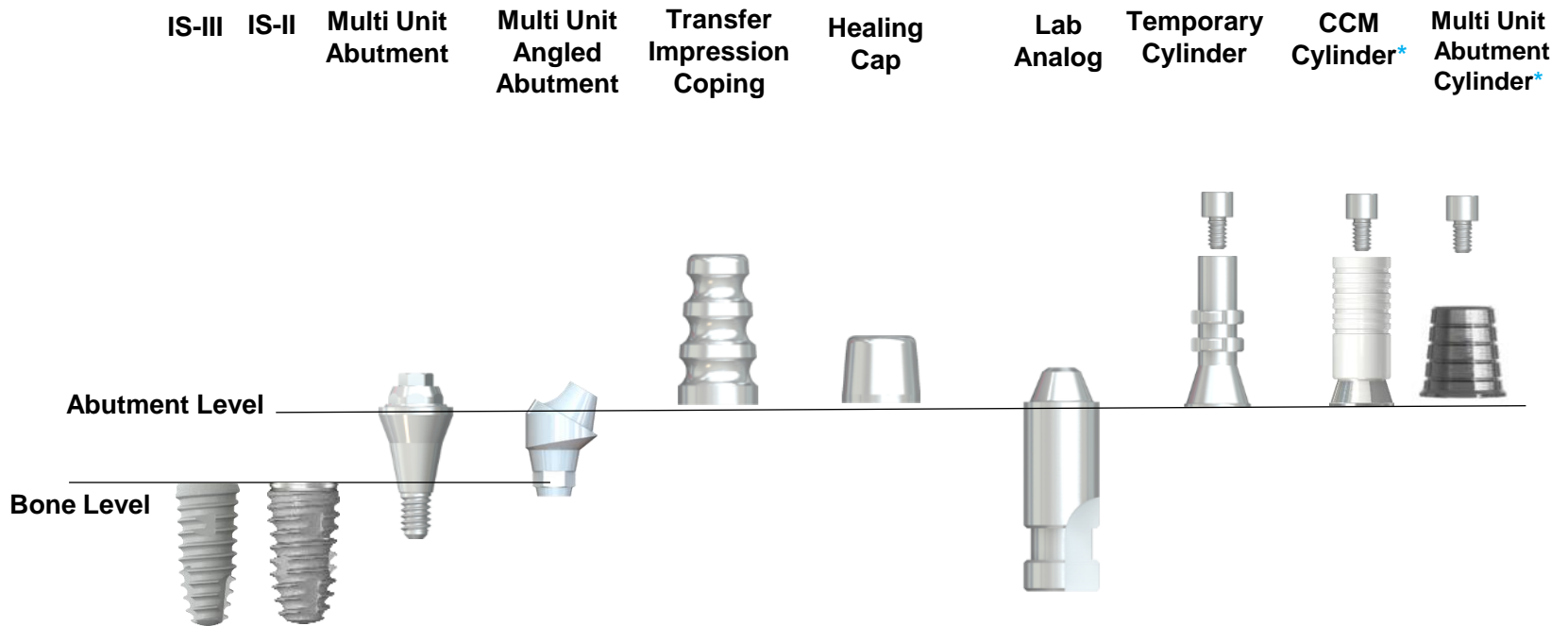
**17° Angled Multi Unit
Abutment**
 $(17+20) \times 2 = 74^\circ$



**30° Angled Multi Unit
Abutment**
 $(30+20) \times 2 = 100^\circ$

3. Multi Unit Abutment's components

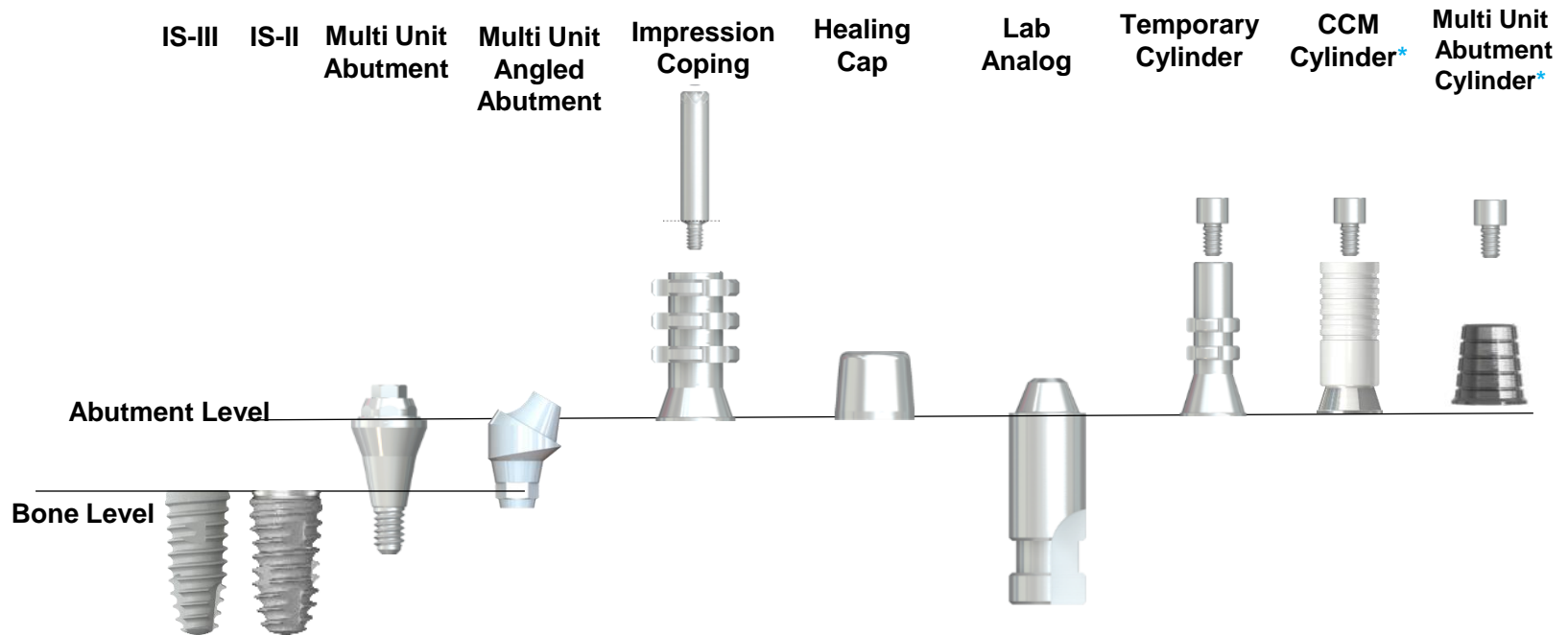
Prosthetic Flow (transfer)



* Depending on restoration plan, CCM Cylinder can be used for screw-retained prosthesis restorations, and Multi Unit Abutment Cylinder can be used for cement-retained prosthesis restorations.

3. Multi Unit Abutment's components

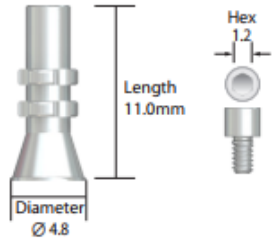
Prosthetic Flow (Pick up)



* Depending on restoration plan, CCM Cylinder can be used for screw-retained prosthesis restorations, and Multi Unit Abutment Cylinder can be used for cement-retained prosthesis restorations.

3. Multi Unit Abutment's components

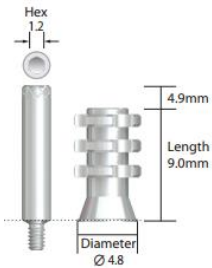
Multi Unit Abutment's components



Temporary Cylinder, Non-Hex	
Length(mm)	11.0
Product name	MUATPCN48

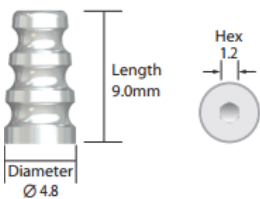
*Cylinder Screw (MUAS14) is included

Intended use: the device is used for fabricating of temporary prosthetic



Pick-up Impression Coping	
Length(mm)	9.0
Product name	MUAIP48

Intended use: the device is used for taking an impression for prosthetic fabrication by open tray technique



Transfer Impression Coping	
Length(mm)	9.0
Product name	MUAIT48

Intended use: the device is used for taking an impression for prosthetic fabrication by closed tray technique

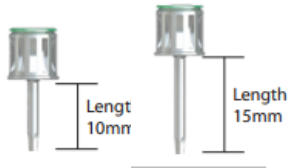
3. Multi Unit Abutment's components

Multi Unit Abutment's components



Lab Analog	
Product name	MUALA48

Intended use: the device is used for duplication of the implant position for fabricating of restorations



1.2 Hex Driver		
Length(mm)	10mm	15mm
Product name	HD1210S	HD1215S

Intended use: 1.2 Hex Driver is used for fixing of IS Multi Unit Angled Abutment

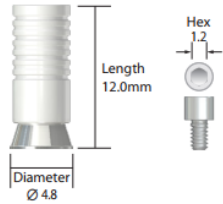


Multi Unit Abutment Driver	
Product name	MUAD48S

Intended use: Multi Unit Abutment Driver is used for fixing of IS Multi Unit Abutment

3. Multi Unit Abutment's components

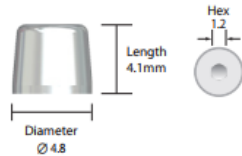
Multi Unit Abutment's components



CCM Cylinder, Non-Hex	
Length(mm)	12.0
Product name	MUACCN48

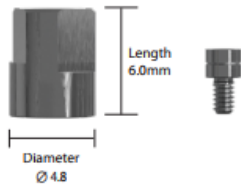
*Cylinder Screw (MUAS14) is included

Intended use: a customized abutment for fabricating of permanent restorations



Healing Cap	
Length(mm)	4.1
Product name	MUAHC48

Intended use: Healing Cap is used for contouring the soft tissue

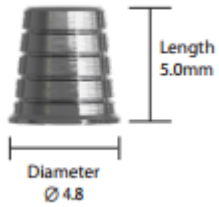


Multi Unit Abutment Scan Body	
Product name	MUASB48

Intended use: Multi Unit Abutment Scan Body is used for taking a digital impression

3. Multi Unit Abutment's components

Multi Unit Abutment's components



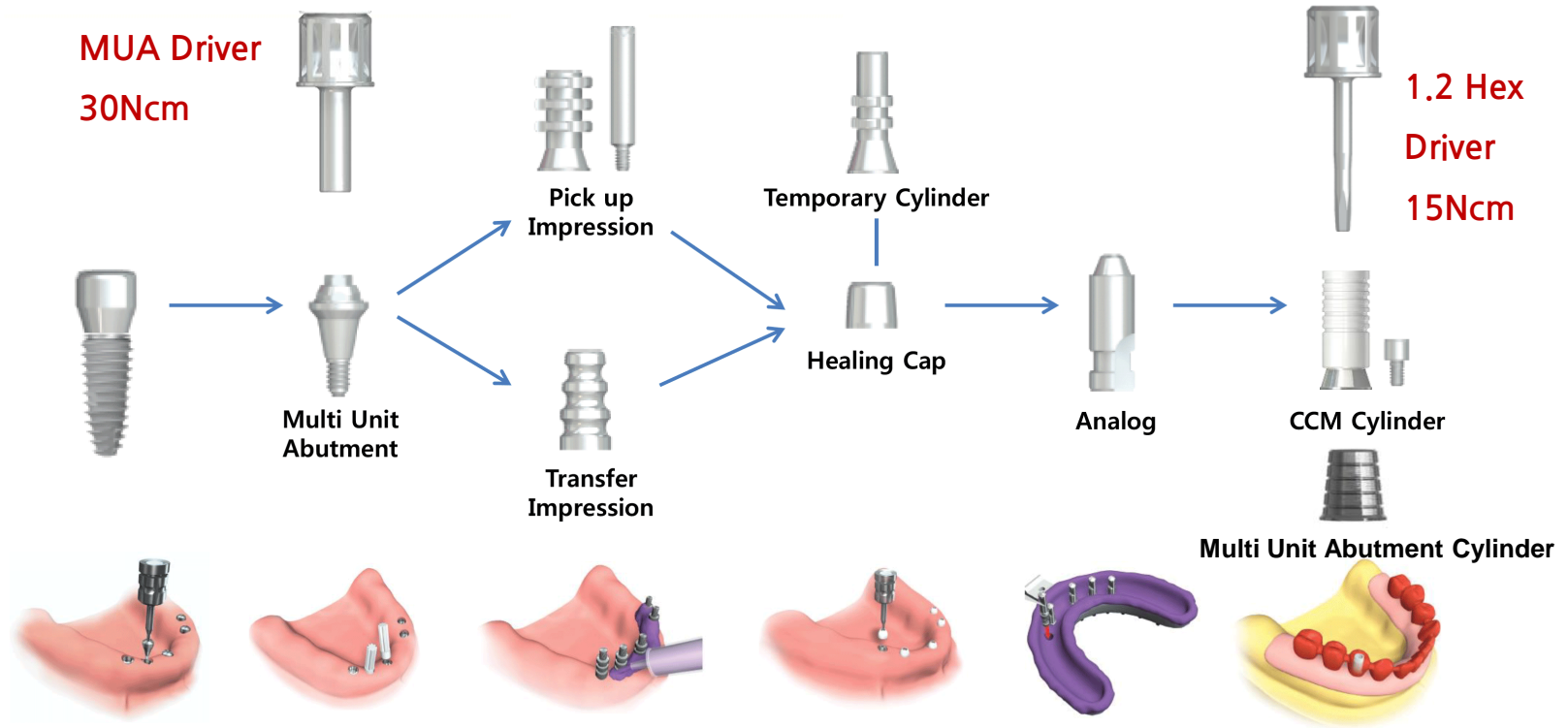
Multi Unit Abutment Cylinder	
Length(mm)	5.0
Product name	MUAC48

*Cylinder Screw (MUAS14) is included

Intended use: Multi Unit Abutment Cylinder is used for fabricating of digital prosthesis by CAD/CAM

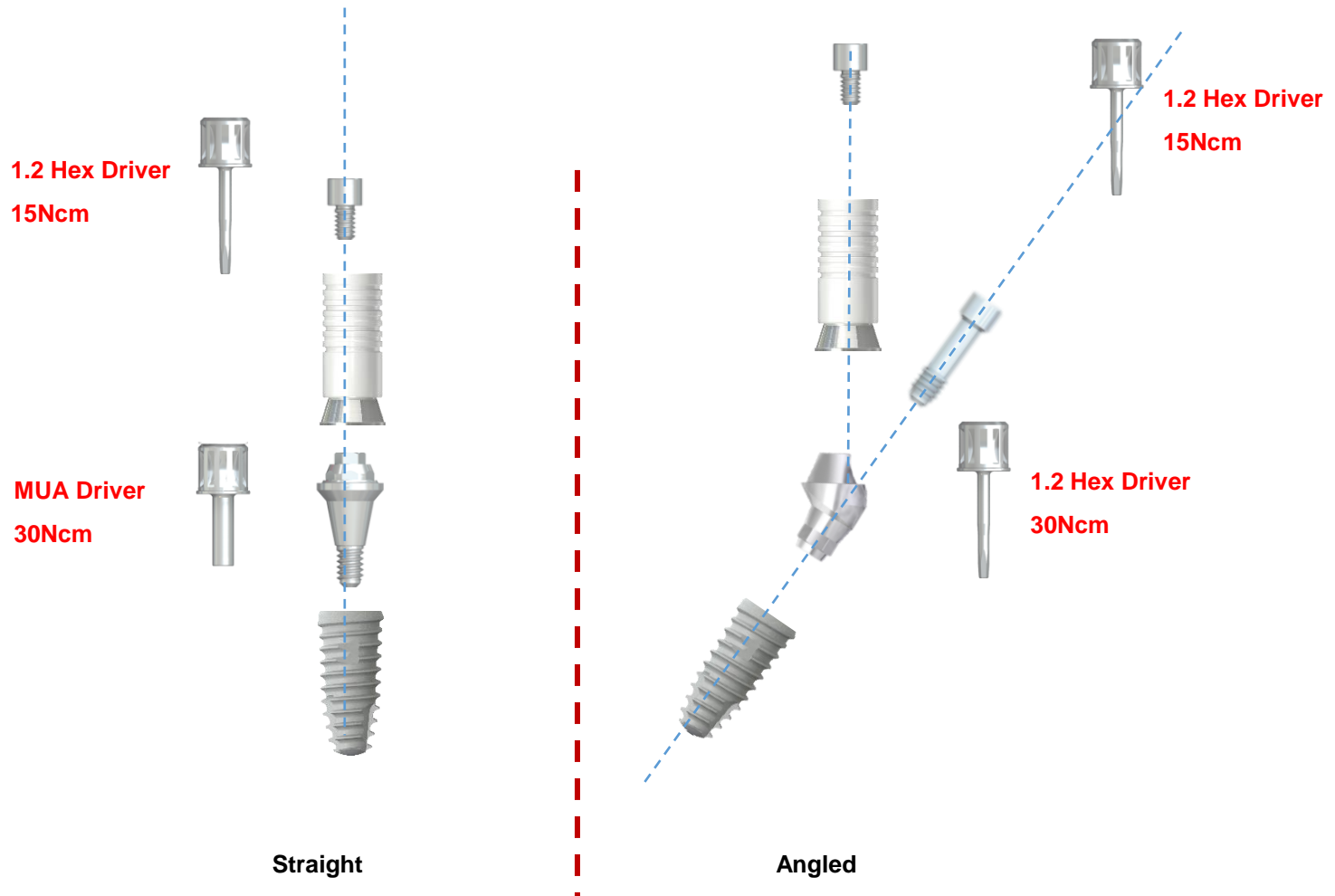
3. Multi Unit Abutment's components

Drivers for multi unit abutments



3. Multi Unit Abutment's components

Screw fastening method



3. Multi Unit Abutment's components

How to use Multi Unit Abutment Scan Body

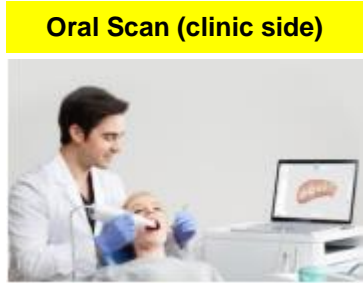


Scan Body



MUA

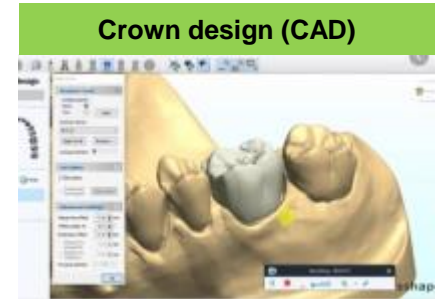
Fixture



Scan Body



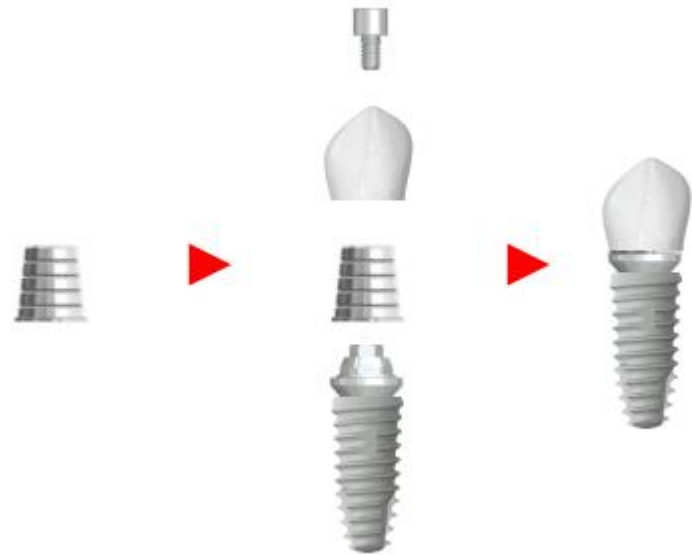
Analog



3. Multi Unit Abutment's components

How to use Multi Unit Abutment Cylinder

After fabricating of zirconia crown by CAM equipment, place the crown on the Multi Unit Abutment Cylinder



3. Multi Unit Abutment's components

How to fabricate Zirconia Crown

Cylinder Screw



Zirconia Crown Bridge



Multi Unit Abutment Cylinder



Multi Unit Abutment



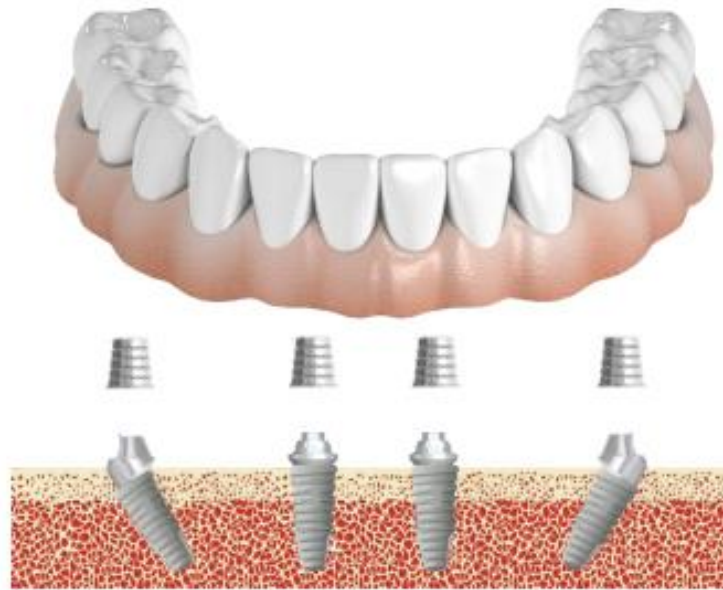
Fixture



3. Multi Unit Abutment's components

All-on-4 treatment

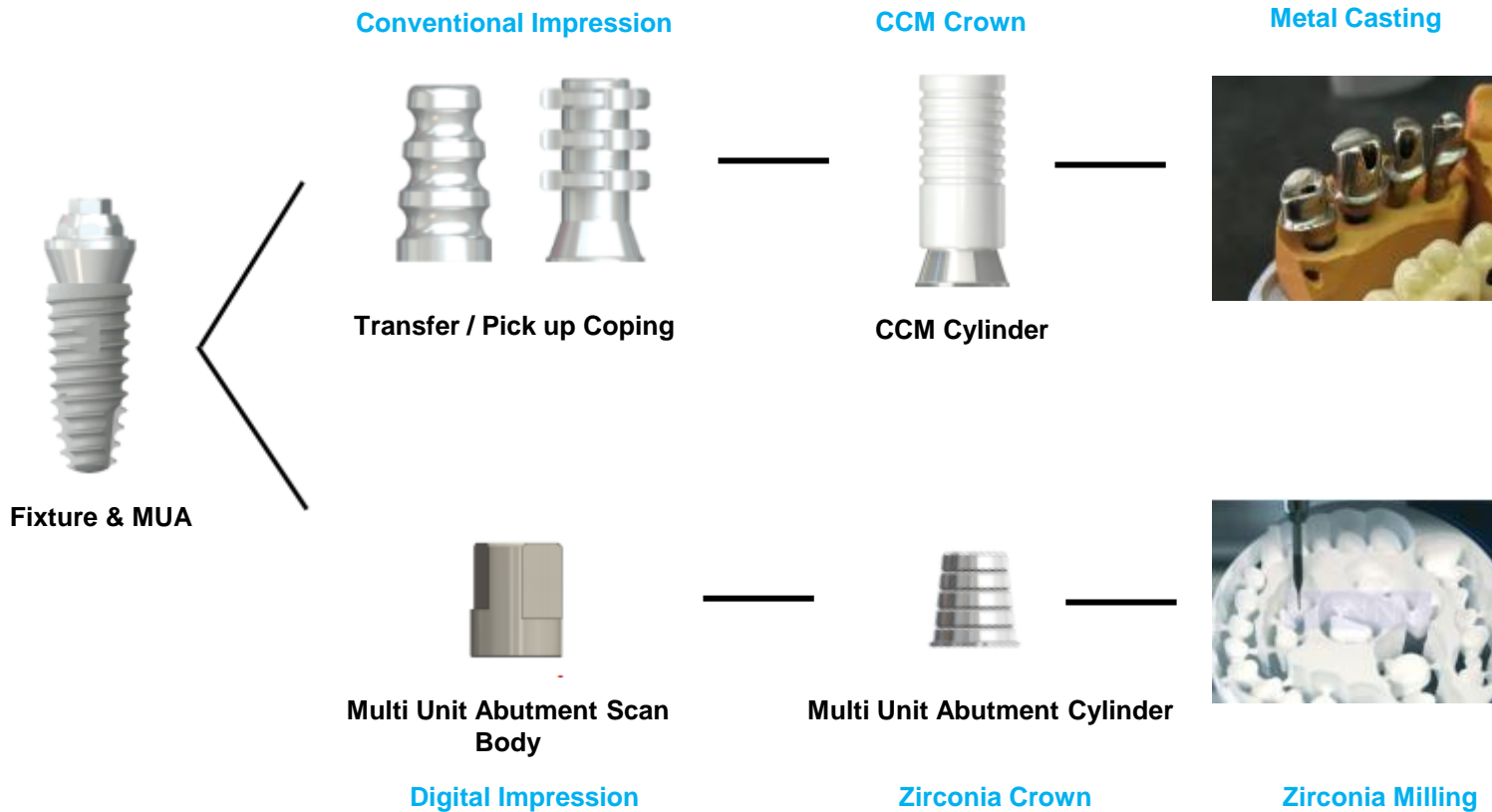
Multi unit abutments can be used for All-on-4 treatment. For this, place fixtures at 30° degrees in the posterior site and load the multi unit abutments



3. Multi Unit Abutment's components

Material for the prosthetics according impression taking method

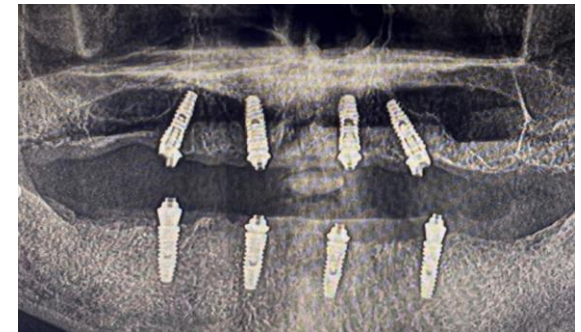
Zirconia restorations can be fabricated by CAD-CAM technology. For this technique Multi Unit Abutment Scan Body & Multi Unit Abutment Cylinder are used. Transfer Coping/Pick up Coping and CCM Cylinder are used for conventional impression technique.



4. Clinical Case

Bimaxillary Flapless All-on-4

Case by Dr. Nalat Wongwatjana



Thank You