

## TORQUE WRENCH - ADAPTERS

JDTWKL	<b>JD</b> TORQUE® TORQUE WRENCH
10 08 11	<b>STAR</b> TORQUE WRENCH ADAPTER
10 08 11 L	<b>LONG STAR</b> TORQUE WRENCH ADAPTER
10 08 12	<b>STAR</b> TORQUE WRENCH ADAPTER [ABUTMENTS]
10 08 12 L	<b>LONG STAR</b> TORQUE WRENCH ADAPTER [ABUTMENTS]
10 08 14	<b>EXTRA LONG</b> STAR TORQUE WRENCH ADAPTER

10 08 10	<b>CRUCIFORM</b> TORQUE WRENCH ADAPTER
10 08 10 L	<b>LONG CRUCIFORM</b> TORQUE WRENCH ADAPTER
10 08 13	<b>EXTRA LONG</b> CRUCIFORM TORQUE WRENCH ADAPTER



## Product warnings

### IMPRESSION TAKING

General Observations:

- Customized trays must be employed for impression taking for each case.
- Use quality materials and follow the manufacturer's instructions.
- Check that the implant connection is clean (blood, debris).
- Take the necessary precautions to avoid that the elements loosen intraorally, this can lead to their ingestion or aspiration.

10 09 01 G - 10 09 13 G - 10 09 16 G

The transfer is for single use, do not reuse.

It is recommended to use polyether or poly-vinylsiloxane for one stage impression taking.

10 09 02 G

Confirm that the flat faces are perfectly registered in the impression.

10 09 04 G - 10 09 11 G - 10 09 12 G

- Free the screw from the excess impression material before it sets.
- Depending on the opposing arch and adjacent teeth or restorations, gingival height selects the appropriate transfer (long or short).
- It is necessary to verify the correct seating of the transfer to the implant and/or abutment if one stage impression taking is chosen.

### MODEL POURING

Check the stability of the transfer-analog complex before pouring.

Quality materials should be used and follow the manufacturer's directions.

10 09 07

Verify that the sheath fully covers the analog rod and seats properly before proceeding to pour the impression.

### PROSTHETIC PLANNING KIT

The elements included in this prosthetic study kit must be cleaned, disinfected and sterilized when destined to intraoral use.

Do not sterilize the Octacone® and the study Abutments more than 15 times [134° 4 min].

The Octacone® and the Abutments are not to be used for dental prosthesis construction.

### OCTACONE® AND PILLAR

General Observations:

- Do not apply tightening forces [5 Ncm maximum] to the Abutments or the Octacone during dental prosthesis construction until its final insertion where a 30 Ncm torque must be used.
- Never exceed a torque force of 30 Ncm.
- In case of Provisional Octacone, the torque force for final placement is 15 Ncm.
- The use of the corresponding castable patten and reamer is of utmost importance to achieve optimal supra-structure fit.

### 4° PILLAR

10 10 03 - 10 10 04

4° Abutments should not be milled on the working model because their position don't depend on the internal octagon.

Height prepping the abutment will difficult its placement or removal because the star screw driver will have fitting difficulties.

### 25° PILLAR

10 10 15

It cannot be milled.

### 4° OCTACONE® · ANGULATED OCTACONE®

10 10 05 - 10 10 06 / 10 10 09 - 10 10 10 - 10 10 11 - 10 10 12

Do not prep under 4 mm.

### TIGHT TO CONE SYSTEM

It includes a star fixation screw, extractor screw.

The screw must be tapped to the device correctly (counterclockwise) before placing the device onto the analog and/or implant.

Once it is placed correctly, the screw is free within it and has approximate axial movement of 1mm. This indicates that the Octacone® is ready for placement to the analog and/or implant.

It is indispensable to tighten correctly the screw to the Octacone® prior to its placement.

### GOLD OCTACONE®

10 10 13 G

For the over-cast, must choose an alloy according to ISO 9693-1 and ISO 22674 standards. Design parameters to be used in the final restoration:

Maximum length of the restoration 14 mm

Minimum wall tickness 0,45 mm

Minimum post height 3,5 mm\*

Maximum angulation 30°

\*Do not cut the piece below 3.5 mm to avoid exposing the metal

Not appropriate for screw retained multiple prosthesis.

### Co-Cr OCTACONE®

10 10 16 G

For the over-cast, must choose an alloy according to ISO 9693-1 and ISO 22674 standards. Design parameters to be used in the final restoration:

Maximum length of the restoration 14 mm

Minimum wall tickness 0,45 mm

Minimum post height 3,5 mm\*

Maximum angulation 30°

\*Do not cut the piece below 3.5 mm to avoid exposing the metal.

Not appropriate for screw retained multiple prosthesis.

### 12° OCTACONE®

10 10 14

It cannot be milled.

### TIGHT TO CONE SYSTEM

The screw must be tapped to the device correctly (counterclockwise) before placing the device onto the analog and/or implant.

Once it is placed correctly, the screw is free within it and has approximate axial movement of 1mm. This indicates that the Octacone® is ready for placement to the analog and/or implant.

It is indispensable to tighten correctly the screw to the Octacone® prior to its placement.

A torque force of 25 Ncm should be applied on the supra-structure retaining screws.

### ANGULATED OCTACONE® · SCREWRETAINED

OCCLUSALSCREW

10 10 31 - 10 10 34

Do not apply tightening forces [5 Ncm maximum] to the Abutments or the Octacone during dental prosthesis construction until its final insertion where a 30 Ncm torque must be used.

A torque force of 15 Ncm must be applied on the retaining screws for supra-structures, Occlusal Screw.

Exceeding torque values of 15 Ncm can lead to screw breakage.

The Angulated Octacone® (Occlusal Screw) cannot be milled.

### TIGHT TO CONE SYSTEM

The screw must be tapped to the device correctly (counterclock-wise) before placing the device onto the analog and/or implant.

Once it is placed correctly, the screw is free within it and has approximate axial movement of 1mm. This indicates that the Octacone® is ready for placement to the analog and/or implant.

It is indispensable to tighten correctly the screw to the Octacone® prior to its placement.

### PROVISIONAL OCTACONE®

10 10 19 G - 10 10 23 G

Made in titanium, it should be milled with the appropriate drills.

Provisional Octacone® must remain in mouth not more than 90 days.

The torque force for final placement is 15 Ncm.

### PROVISIONAL ESTHETIC OCTACONE®

10 10 24 G - 10 10 25 G

Made in PMMA with the titanium interface to the implant and titanium retaining screw.

Prep procedures must avoid the titanium interface in order to not break the esthetic coverage.

Provisionals with Octacone® Provisional abutments must be remained in mouth not more than 28 days.

The torque force for final placement is 15 Ncm.



## list of references

10 05 14 G	EC G 12° PROTECTIVE CAP
10 05 15 G	EC G 25° PROTECTIVE CAP
10 08 10	CRUCIFORM TORQUE WRENCH ADAPTER
10 08 10 L	LONG CRUCIFORM TORQUE WRENCH ADAPTER
10 08 11	STAR TORQUE WRENCH ADAPTER
10 08 11 L	LONG STAR TORQUE WRENCH ADAPTER
10 08 12	STAR TORQUE WRENCH ADAPTER [ABUTMENTS]
10 08 12 L	LONG STAR TORQUE WRENCH ADAPTER [ABUTMENTS]
10 08 13	EXTRA LONG CRUCIFORM TORQUE WRENCH ADAPTER
10 08 14	EXTRA LONG STAR TORQUE WRENCH ADAPTER
10 09 01 G	EC G DISPOSABLE TRANSFER [6 UN.]
10 09 02 G	EC G TRANSFER
10 09 04 G	EC G TRANSFER OPEN TRAY
10 09 05 G	EC G REMOVABLE ANALOG
10 09 11 G	EC G 12° OCTACONE® ABUTMENT TRANSFER OPEN TRAY
10 09 12 G	EC G 25° PILLAR ABUTMENT TRANSFER OPEN TRAY
10 09 13 G	EC G 12° TRANSFER ABUTMENT
10 09 14 G	EC G 12° REMOVABLE ANALOG
10 09 15 G	EC G 25° REMOVABLE ANALOG
10 09 16 G	EC G 25° TRANSFER ABUTMENT
10 10 02	4° PILLAR ABUTMENT - 4.5 MM
10 10 02 LAB	4° PILLAR ABUTMENT - 4.5 MM TRIAL [10 UN.]
10 10 03	4° PILLAR ABUTMENT - 6 MM
10 10 03 LAB	4° PILLAR ABUTMENT - 6 MM TRIAL [10 UN.]
10 10 05	OCTACONE ABUTMENT - EC 4° - 4.5 MM
10 10 06	OCTACONE ABUTMENT - EC 4° - 6 MM
10 10 09	6° ANGULAR OCTACONE® ABUTMENT
10 10 09 LAB	ANGULAR OCTACONE® ABUTMENT - 6° TRIAL [10 UN.]
10 10 10	12° ANGULAR OCTACONE® ABUTMENT
10 10 10 LAB	ANGULAR OCTACONE® ABUTMENT - 12° TRIAL [10 UN.]
10 10 11	17° ANGULAR OCTACONE® ABUTMENT
10 10 11 LAB	ANGULAR OCTACONE® ABUTMENT - 17° TRIAL [10 UN.]
10 10 12	22° ANGULAR OCTACONE® ABUTMENT

10 10 12 LAB	ANGULAR OCTACONE ABUTMENT - 22° TRIAL [10 UN.]
10 10 13 G	G GOLD OCTACONE® ABUTMENT
10 10 14	12° OCTACONE® ABUTMENT
10 10 14 LAB	OCTACONE® ABUTMENT 12° TRIAL [10 UN.]
10 10 15	25° PILLAR ABUTMENT - 1 MM
10 10 15 LAB	25° PILLAR ABUTMENT - 1MM TRIAL [10 UN.]
10 10 16 G	G CO-CR OCTACONE® ABUTMENT
10 10 19 G	TEMPORARY OCTACONE® ABUTMENT [SINGLE]
10 10 23 G	TEMPORARY OCTACONE® ABUTMENT [BRIDGE]
10 10 23 G	EC G TEMPORARY ESTHETIC OCTACONE® [SINGLE]
10 10 24 G	EC G TEMPORARY ESTHETIC OCTACONE® [BRIDGE]
10 10 25 G	EC G TEMPORARY ESTHETIC OCTACONE® [BRIDGE]
10 10 31	22° SHORT ANGULAR OCTACONE® ABUTMENT [OCCLUSAL SCREW]
10 10 31 LAB	SHORT ANG. OCTACONE® ABUTMENT - 22° TRIAL [10 UN.]
10 10 34	17° SHORT ANGULAR OCTACONE® ABUTMENT [OCCLUSAL SCREW]
10 10 34 LAB	SHORT ANG. OCTACONE® ABUTMENT - 17° TRIAL [10 UN.]
10 11 01	STAR SCREW
10 11 02	CRUCIFORM SCREW [PHILLIPS]
10 11 05	STAR SCREW
10 11 07	LAB SCREW
10 11 09	CHIMNEY PROTECTOR
10 11 21	STAR SCREW [MICRO]
10 12 00 G	EC G CIRCULAR RING CASTABLE
10 12 02 G	CIRCULAR CASTABLE - EC G 4°
10 12 03 G	CIRCULAR CASTABLE - EC G 4°
10 12 05 GU	ANTI-ROTATING CASTABLE - EC G 4°
10 12 06 GU	ANTI-ROTATING CASTABLE - EC G 4°
10 12 14 G	CIRCULAR CASTABLE - EC G 12°
10 12 14 GU	OCTAGONAL CASTABLE - EC G 12°
10 12 15 G	CIRCULAR CASTABLE - EC G 25°
10 12 22 EC	CASTABLE CYLINDER [OCCLUSAL SCREW]
10 13 14 G	CIRCULAR TI FITTING - EC G 12°
10 13 14 GU	OCTAGONAL TI FITTING - EC G
10 13 15 G	CIRCULAR TI FITTING - EC G 25°
10 15 01	SHOULDER REAMER
10 15 02	ANGULAR OCTACONE ABUTMENT POSITIONER
JDTWKL	JDTORQUE® TORQUE

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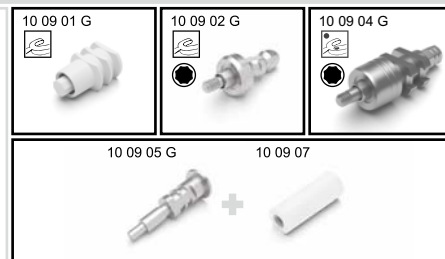
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ESSENTIAL CONE 6.0 MM PLATFORM

ESSENTIAL CONE [0.7 / 1.5] IMPLANTS  
DIAMETER 4.8 MM



IMPRESSION TAKING



ESSENTIAL CONE [0.7 / 1.5] IMPLANTS  
DIAMETER 4.8 MM



CEMENTED PROSTHESIS

4°		4°				6°	12°	17°	22°
10 10 02 PILAR 30	10 10 03 PILAR 30	10 10 05 ttc 30	10 10 06 ttc 30	OCTACONE®	OCTACONE®	10 10 09 ttc 30	10 10 10 ttc 30	10 10 11 ttc 30	10 10 12 ttc 30
10 12 02 G	10 12 03 G	10 12 02 G	10 12 05 GU	10 12 03 G	10 12 06 GU	10 12 00 G			

CEMENT. y ATOR.

gold*	Cr-Co*
10 10 13 G OCTACONE®	10 10 16 G OCTACONE®

\*SCREW-RETAINED SINGLE UNIT PROSTHESIS  
DIRECT TO IMPLANT AND CEMENTED/LUTED  
PROSTHESIS

SCREW RETAINED PROSTHESIS

12°		25°		17°	22°
10 10 14 OCTACONE®	10 10 15 PILAR	10 10 34 ttc 30	10 10 31 ttc 30	OCTACONE®	OCTACONE®
10 12 14 G	10 12 14 GU	10 13 14 G	10 13 14 GU	10 12 15 G	10 13 15 G
10 11 01 15 PROVISIONAL PROSTHESIS 25 FINAL PROSTHESIS					

PROVISIONAL PROSTHESIS

titanium		esthetic	
10 10 19 G OCTACONE®	10 10 23 G OCTACONE®	10 10 24 G OCTACONE®	10 10 25 G OCTACONE®

prosthodontic system

Two synoptic tables [wide 6 mm platform and Planning Kit] allow to visualize and locate easily and quickly the prosthetic solutions and the correspondence between Essential® Cone devices.

**WARNING**  
DO NOT EXERT TIGHTENING FORCES ON THE DEVICES AND/OR SCREWS DURING THE CONSTRUCTION OF THE PROSTHESIS. DURING THE FINAL PLACEMENT OF THE PROSTHESIS, A TORQUE OF 30 NCM SHOULD BE APPLIED ON ALL PILLARS AND OCTACONE®, AND A TORQUE OF 25 NCM ON THE SUPRA-STRUCTURE RETAINING SCREWS. EXCEPT FOR REF. 10 11 21, WHICH MUST BE TIGHTENED TO 15 NCM.

ESSENTIAL CONE 6.0 MM PLATFORM

ONE STAGE IMPRESSION TAKING			
10 09 13 G	10 09 11 G	10 09 16 G	10 09 12 G
10 09 14 G	10 09 07	10 09 15 G	10 09 07
10 05 14 G	10 05 15 G		

SCREW RETAINED PROSTHESIS

12°		25°	
10 10 14 OCTACONE®	10 10 15 PILAR	10 12 14 G	10 12 14 GU
10 12 14 G	10 12 14 GU	10 13 14 G	10 13 14 GU
10 12 15 G	10 13 15 G		
10 11 01* 15 PROVISIONAL PROSTHESIS 25 FINAL PROSTHESIS			

\* CRUCIFORM SCREW IS RECOMMENDED WHEN STAR SCREW STAYS OUT OF THE ACCESS HOLE DUE TO HEIGHT.

cone essential cone 1.5 essential 6.0 MM



ttc TIGHT TO CONE SYSTEM

The TTC system is a two threaded screw, one clockwise and the other counter-clockwise. The clockwise thread is located at the apex of the screw and is responsible for Octacone fixation to the analog and/or implant. The counter-clockwise thread, located approximately in the middle of the screw, is responsible for self-untightening by Octacone®. The screw must be tapped to the device correctly (counter-clockwise) before placing it on the analog and/or implant. Once it is placed correctly, the screw is free within it and has an approximate axial movement of 1mm. This indicates that the octacone® is ready for placement to the analog and/or implant. It is indispensable to tighten correctly the screw to the Octacone® before placing it.

**SYMBOLS AND NOTES**

	CLOSED TRAY		ABUTMENT/OCTACONE HEIGHT 4.5 MM		STAR TIP
	OPEN TRAY		ABUTMENT/OCTACONE HEIGHT 6 MM		STAR TIP FOR ABUTMENTS

REAMERS

It is a tool for manual use that removes irregularities caused during the casting process. The reamers are essential in all of the procedures.

**10 15 01 ACCESS HOLE REAMER**  
Once the burn out patterns is casted, it can be used to polish the screw's seating place leaving them free of irregularities produced during the casting process. This reamer can be connected to the handle prosthetic screwdriver Ref. 9060, facilitating the manipulation in the reaming process.

**10 15 02 SHOULDER REAMER**  
The burn out pattern for cemented prosthesis is over contoured ["click"] which must be eliminated once casted. The shoulder reamer is used to polish the supra-structure seating area, leaving it free of irregularities produced during the casting process. This reamer can be connected to the handle prosthetic screwdriver ref. 9060, facilitating the manipulation in the reaming process.



PLANNING KIT EQUIVALENCE TABLES FOR PROSTHETIC\* STUDIES - BITE REGISTRATIONS

ANGULATION					
6°	12°	17°	22°		
10 10 09 LAB	10 10 10 LAB	10 10 11 LAB	10 10 34 LAB	10 10 12 LAB	10 10 31 LAB
10 10 09	10 10 10	10 10 11	10 10 34	10 10 12	10 10 31

\* IT ALLOWS TO DETERMINE THE HEIGHT OR ANGLE OF OCTACONE® AND CONFIRM THE HEIGHT OF THE ESSENTIAL® CONE ABUTMENTS

GOLD OCTACONE

**10 10 13 G GOLD OCTACONE ABUTMENT**  
Alloy specifications  
Composition Au-60%, Pt-19%, Pd-20%, Ir-1%.  
Fusion range 1415° - 1495°  
Thermal expansion [CET25-600°C] 12.2 µm/m°C  
Color Black  
Elasticity limits (Rp 0.2%) >640 N/mm²  
Vickers hardness > 230  
Elongation > 2%  
Mass 10 10 13 G 0.812 gr.\*

Cr-Co OCTACONE

**10 10 16 G Cr-Co OCTACONE ABUTMENT**  
Alloy specifications  
Composition Cr 26.00-30.00%, Mo 5.00 -7.00%, Si ≤ 1.00%, Mn ≤ 1.00%, Ni ≤ 1.00%, Fe ≤ 0.75%, N ≤ 0.25%, C ≤ 0.14%, Co (balance)  
Fusion range 1390 - 1415 °C  
Thermal expansion coefficient 13.2 µm/m°C  
Color Green  
Elasticity limit (Rp 0.2 %) >827 MPa  
Hardness < 320 Hv10  
Elongation > 12%  
Mass 10 10 16 G 0.39 gr.\*



\*ORIENTATIVE MASS. DEPENDS ON MANUFACTURE CHARACTERISTICS.



**IMPORTANT: FOR ANGLED SCREWED ABUTMENTS [10 10 31 / 10 10 34], LAB PIECES DIFFER FROM STANDARD ANGLED LAB PIECES IN THE INCORPORATION OF TWO FLAT FACES AT THE END.**

HEIGHT

10 10 14 LAB	10 10 15 LAB	10 10 02 LAB 2	10 10 03 LAB 3
10 10 14	10 10 15	10 10 02	10 10 03
10 10 14	10 10 15	10 10 02	10 10 03
10 10 14	10 10 15	10 10 02	10 10 03

NAMES AND REFERENCES INTERPRETATION

OCTACONE® OCTAGON ABUTMENTS

PILAR MONOBLOCK ABUTMENTS, NON-PREP

1X XX 00 XX  
L: LONG  
G: WIDE PLATFORM  
GU: SINGLE UNIT COPING FOR WIDE PLATFORM

- 08: ADAPTERS
- 09: TRANSFERS, ANALOGS AND SHEATHS
- 10: PILLAR AND OCTACONE
- 11: SCREWS
- 12: CASTABLE
- 13: TITANIUM COPINGS
- 14: RETENTIVE HEADS/ BALL ATTACHMENT
- 15: REAMERS

