

NEW

ABUTMENT P.A.D.r

Disparallel Screw Retained Prosthesis




sweden & martina

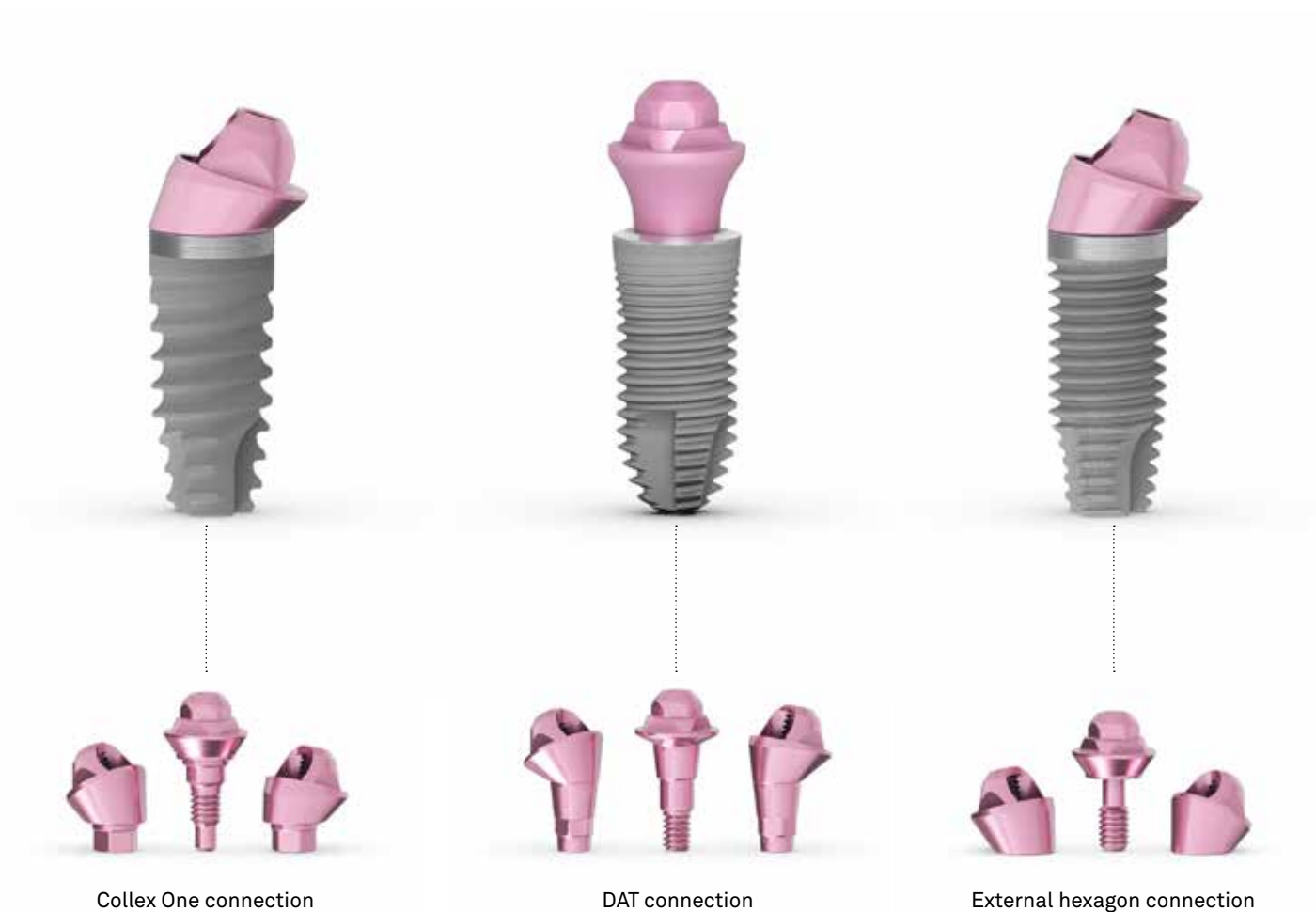
New P.A.D.r ABUTMENT for Disparallel Screw Retained Prosthesis

P.A.D.r abutments are simple to insert, they are short, narrow and with reduced size, particularly suitable in rehabilitation of the partially or totally edentulous arches and in situations of reduced horizontal and vertical spaces.

The new P.A.D.r prosthetic components studied by Sweden & Martina don't replace but coexist with the existing systematic composed by the P.A.D. abutments.

The P.A.D.r abutment offers to clinician maximum freedom and ergonomics of the over-structure.

The P.A.D.r components are anodized in pink, to make these solutions more mimetic and acceptable by the patient.



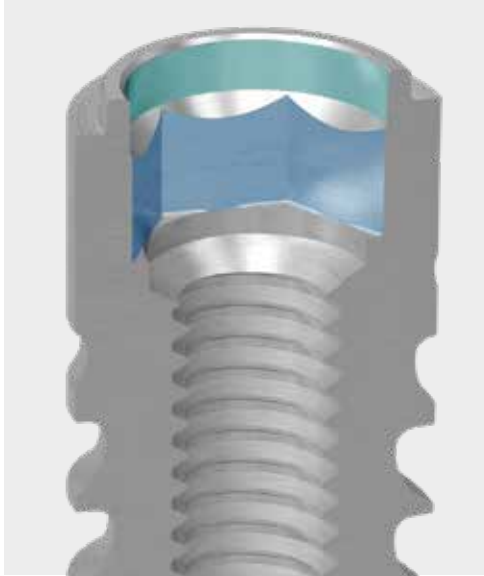
The new P.A.D.r abutments are available straight and angled at 17° and at 30°, for the internal hexagon connection, for DAT conical connection and for external hexagon connection.

At disposal for the clinicians, are also available prosthetic components dedicated to the over-structure production.

Exclusively for the new P.A.D.r abutments there are specific T-Connect with the possibility to have parallel screw or angled screw hole*.

Premium One, Kohno One, Shelta and Prama implants: Collex One connection

The Collex connection, documented since 1996, is characterized by a large internal hexagon and a collar that guides the prosthetic maneuvers, interpenetrating the post. This interlocking solution manages to confer stability and solidity to the implant-prosthetic complex, helping the correct distribution of chewing loads.



The strength properties of the Collex One connection are documented by various studies in which higher values in terms of strength and prosthetic stability of the Collex One have been showed compared to other connections without collar.

Covani U., Ricci M., Tonelli P., Barone A.

**An evaluation of new designs in implant-abutment connections:
a finite element method assessment**

Implant Dentistry Volume 22, Number 3 2013

Marchetti E., Ratta S., Mummolo S., Tecco S., Pecci R., Bedini R., Marzo G.

**Evaluation of an Endosseous Oral Implant System According to
UNI EN ISO 14801 Fatigue Test Protocol**

Implant Dent 2014;0:1-7

Sweden & Martina implants with Collex One connection are: Premium One, Kohno One, Shelta and Prama. Available in different diameters, these implants share a single connection platform, with a 2.30 mm hexagon, which makes surgical and prosthetic management considerably simplified.



PREMIUM KOHNO ONE















SHELTA













PRAMA

Straight P.A.D.r abutments, for direct screwing on implants with Collex One connection

usable with diameter	ø 3.30	ø 3.80	ø 4.25	ø 5.00
	Prama - all diameters Premium One ø 3.30 mm Premium One, Kohno One, Shelta ø 3.80 mm	Premium One, Kohno One, Shelta ø 3.80 - 4.25 - 5.00 mm Shelta ø 6.00 mm	Premium One, Kohno One, Shelta ø 4.25 - 5.00 mm Shelta ø 6.00 mm	Premium One, Kohno One, Shelta ø 5.00 mm Shelta ø 6.00 mm
transgingival h				
1.50 mm	 A-PADR-AD330-15	 A-PADR-AD380-15	 AS-PADR-AD425-15	 AS-PADR-AD500-15
3.00 mm	 A-PADR-AD330-30	 A-PADR-AD380-30	 AS-PADR-AD425-30	 AS-PADR-AD500-30
4.00 mm	 A-PADR-AD330-40	 A-PADR-AD380-40	 AS-PADR-AD425-40	 AS-PADR-AD500-40

Angled P.A.D.r abutments for implants with Collex One connection

usable with diameter	ø 3.30	ø 3.80	ø 4.25	ø 5.00
	Prama - all diameters Premium One ø 3.30 mm Premium One, Kohno One, Shelta ø 3.80 mm	Premium One, Kohno One, Shelta ø 3.80 - 4.25 - 5.00 mm Shelta ø 6.00 mm	Premium One, Kohno One, Shelta ø 4.25 - 5.00 mm Shelta ø 6.00 mm	Premium One, Kohno One, Shelta ø 5.00 mm Shelta ø 6.00 mm
transgingival h				
3.00 mm	 A-PADR-AA330-173	 A-PADR-AA380-173	 AS-PADR-AA425-173	 AS-PADR-AA500-173
5.00 mm	 A-PADR-AA330-175	 A-PADR-AA380-175	 AS-PADR-AA425-175	 AS-PADR-AA500-175
3.00 mm	 A-PADR-AA330-303	 A-PADR-AA380-303	 AS-PADR-AA425-303	 AS-PADR-AA500-303
5.00 mm	 A-PADR-AA330-305	 A-PADR-AA380-305	 AS-PADR-AA425-305	 AS-PADR-AA500-305

Angled at 17°

Angled at 30°

PADR-VM-180 screw included

PADR-VTRAL-140-M transfer screw included

Important warning

Prosthetic components with ø 3.30 mm are used to create prosthetic Platform Switching with ø 3.80 mm implants and rest safely on the implant collar.

CSR and CSR RF SL implants: DAT connection

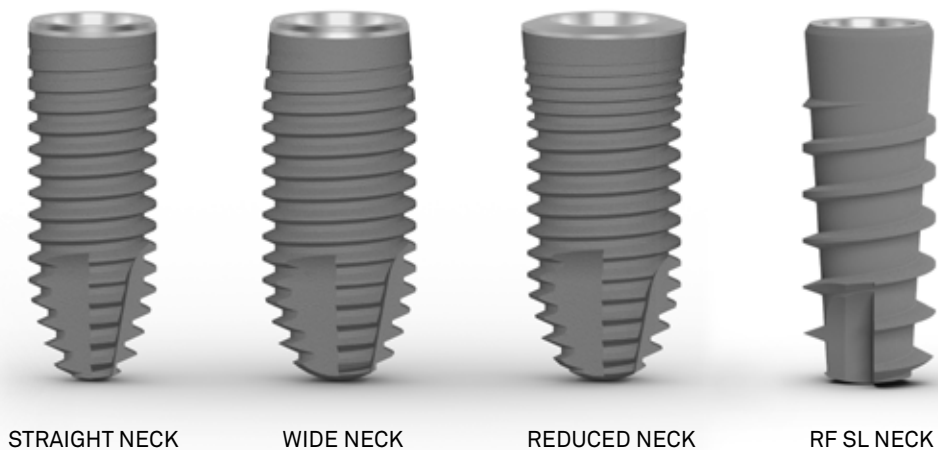
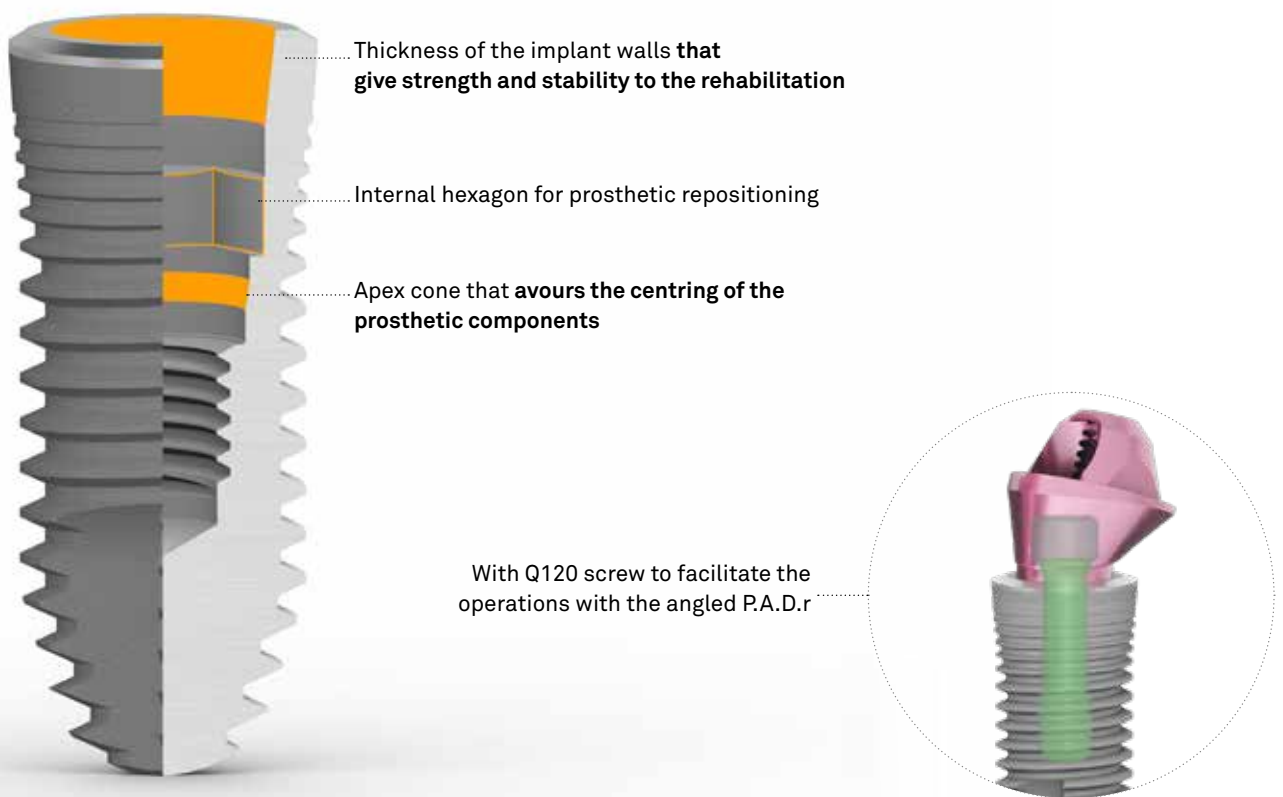
The DAT (Double Action Tight) connection is a double internal conical contact interface between the post and the implant and between the screw and post ensures excellent seal against bacterial infiltration, protecting the bone from the risk of peri-implant infections that could affect a correct osseointegration and the consequent implant survival.

The narrow-sized \varnothing 3.00 and \varnothing 3.50-mm implants feature the DAT-N connection, that is the double conical interface connection in the narrow version.









Gherlone E.F., Capparé P., Pasciuta R., Grusovin M.G., Mancini N., Burioni R.

Evaluation of resistance against bacterial microleakage of a new conical implant-abutment connection versus conventional connections: an in vitro study









New Microbiol. 2016 Jan;39(1):49-56



Straight P.A.D.r abutments, for direct screwing on implants with CSR connection

	connection DAT-N	connection DAT
usable with diameter	∅ 3.00ST - 3.50ST mm	∅ 3.80ST - 3.80 - 4.20 - 4.20RN - 5.00RN - 3.80RFSL - 4.25RFSL - 5.00RFSL mm
transgingival h		
1.00 mm	 VSR-PADR-AD-N-H1T1	 VSR-PADR-AD-H1T1
2.00 mm	 VSR-PADR-AD-N-H2T2	 VSR-PADR-AD-H2T2
3.00 mm	 VSR-PADR-AD-N-H3T3	 VSR-PADR-AD-H3T3
4.00 mm	 VSR-PADR-AD-N-H4T4	 VSR-PADR-AD-H4T4

Angled P.A.D.r abutments for implants with CSR connection

	connection DAT-N	connection DAT	
usable with diameter	∅ 3.00ST - 3.50ST mm	∅ 3.80ST - 3.80 - 4.20 - 4.20RN - 5.00RN - 3.80RFSL - 4.25RFSL - 5.00RFSL mm	
transgingival h			
3.00 mm	 VSR-PADR-AA-N-173-F	 VSR-PADR-AA-173-F	Angled at 17°
5.00 mm	 VSR-PADR-AA-N-175-F	 VSR-PADR-AA-175-F	
3.00 mm	 VSR-PADR-AA-N-303-F	 VSR-PADR-AA-303-F	Angled at 30°
5.00 mm	 VSR-PADR-AA-N-305-F	 VSR-PADR-AA-305-F	

DAT-N: VSR-PADR-VM-N-160-F screw included | DAT: VSR-PADR-VM-180-F screw included
PADR-VTRAL-140-M transfer screw included

Outlink² and Syra implants: External hexagon connection

Implants with External hexagon connection are available in two different connection platforms:

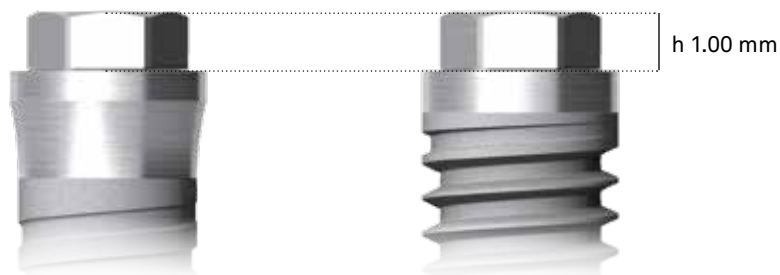
Platform with standard hexagon (2.70 mm)

The connection has a 2.70 mm standard hexagon, with height of 0.70 mm and a threading of M 2.0, and can be found in Outlink² implants with diameters 3.75 mm, 4.10 mm and 5.00 mm and in all Syra, Syra SL and Syra Short implants.



Platform with 2.40 mm hexagon






The 2.40 mm connection platform characterizes the Outlink² implants with diameters of 3.00 mm (SLIM), 3.30 mm and 4.10 SP mm (Platform Switching connection). In this case the external hexagon standard is 1.00 mm high to guarantee sturdiness and stability also in case of single crowns rehabilitation at premolar level.









Outlink² Slim

Outlink² ø 3.30 mm

Straight P.A.D.r abutments, for direct screwing on implants with external hexagon connection

usable with diameter	ø 3.30	ø 4.10
	Outlink ² ø 3.00 mm, ø 3.30 mm, ø 4.10 SP mm	Outlink ² ø 3.75 mm, ø 4.10 mm, ø 5.00 mm Syra all diameters
transgingival h		
1.50 mm	h  E-PADR-AD330-15	h  E-PADR-AD410-15
3.00 mm	h  E-PADR-AD330-30	h  E-PADR-AD410-30
4.00 mm	-	h  E-PADR-AD410-40

Angled P.A.D.r abutments for implants with external hexagon connection

usable with diameter	ø 3.30	ø 4.10
	Outlink ² ø 3.00 mm - 3.30 mm - 4.10 SP mm	Outlink ² ø 3.75 mm - 4.10 mm - 5.00 mm Syra all diameters
transgingival h		
3.00 mm	 h E-PADR-AA330-173	 h E-PADR-AA410-173
5.00 mm	-	 h E-PADR-AA410-175
3.00 mm	 h E-PADR-AA330-303	 h E-PADR-AA410-303
5.00 mm	-	 h E-PADR-AA410-305

Angled at 17°

Angled at 30°

*For implants ø 3.30 fixation PADR-VM-180 screw included | For implants ø 4.10 SE-PAD-VM-200 fixation screw included
PADR-VTRAL-140-M transfer screw included*

P.A.D.r prosthetic components

Protection caps



PADR-CG

Protection caps in titanium



PADR-CGP

Protection caps in PEEK

*PAD-VP-140 screw included with PADR-CG
PAD-VCGP-140 screw included with PADR-CGP*

Impression phase



PADR-CAP-EX

Snap-on cap for impression



PADR-TRA

Pick-up transfer, non engaging



PADR-ANA

Analog

Pick up transfer: PAD-VTRAL-140 screw included

P.A.D.r. components for prosthesis relining and luting technique



PADR-CP

PEEK sleeve, non engaging



PADR-CT

Titanium sleeve, non engaging



PADR-CCEM

PMMA castable sleeve



PADR-CC

PMMA castable sleeve, non engaging



PADR-BAS

Titanium sleeve without shoulder, for aesthetic reconstructions

PAD-VP-140 screw included except for PADR-CCEM

Castable sleeve with a metal base



PADR-UCRCO

PMMA post with base in cobalt chrome, non engaging

PAD-VP-140 screw included

P.A.D.r components for CAD-CAM prostheses



PADR-INT-CAMTRA-L Scanbody for intraoral use



PADR-TC-M-4 T-Connect non engaging for abutments P.A.D.r with cone height 4



PADR-TC-M-8 T-Connect non engaging for abutments P.A.D.r with cone height 8 and reduction cut



PADR-TCA-M (*) T-Connect non engaging for abutment P.A.D.r for angled screw hole



PADR-TC-CC-M-8 Castable sleeve for T-Connect, non engaging



PADR-TC-CC-S-8 Engaging castable sleeve for T-Connect for angled screw hole

PAD-VP-140 screw included

() 41.314.040.02-2 screw not included*

Screws for prostheses components



PAD-VP-140 Spare screw for components to be used on P.A.D.r abutments

PAD-VP-140-10 Spare screw for components to be used on P.A.D.r abutments, pack of 10 pcs



41.314.040.02-2 Talladium screw for PADR-TCA-M to use with dedicated screwdrivers DSPDCLH-24 and DSPDCLH-32



PAD-VTRAL-140 Spare screw for Pick-up transfer, long



PAD-VTRA-140 Spare screw for Pick-up transfer, short



PAD-VTRAL-140-MAN Spare screw for Pick-up transfer, for manual screwing

Insertion of straight P.A.D.r abutments

The following pages illustrate the insertion of straight and angled P.A.D.r abutments.

For purely explanatory purposes, the images show a lower arch with fixtures positioned with the All-on-Four* protocol, so as to illustrate the use of both straight and angled abutments.

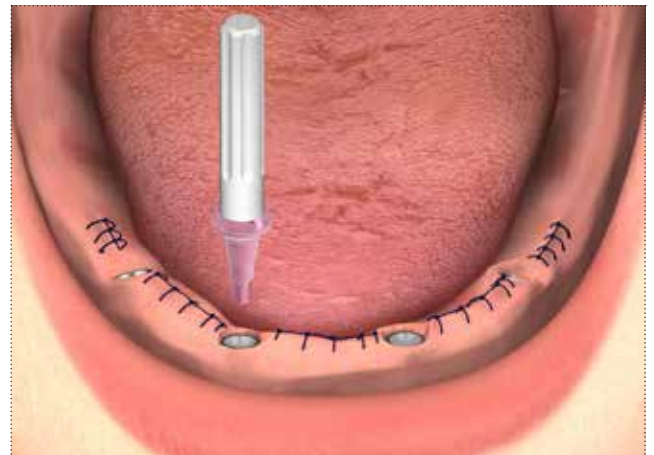
The same insertion procedures are applicable even if rehabilitation envisages the use of a greater number of implants.



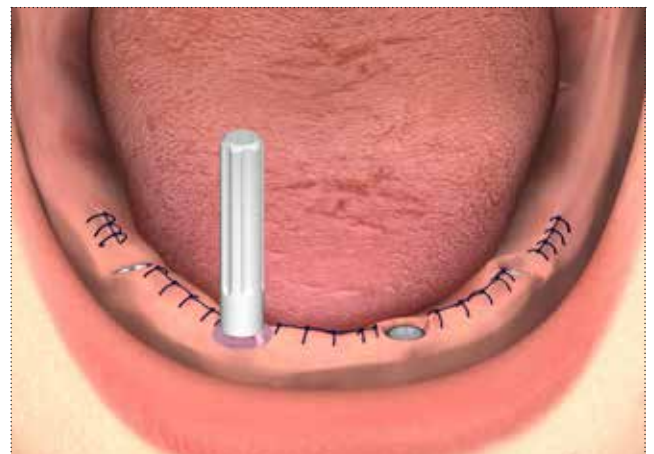
Use the abutment carrier supplied to transport straight P.A.D.r abutments into the patient's mouth. The carrier engages the upper hexagon of the P.A.D.r abutment, and it is therefore not necessary to fully insert it to obtain the correct retention.

Important warning

Straight P.A.D.r abutments are supplied in non-sterile packs. Before being used clinically, titanium abutments only must be sterilized in an autoclave. The carrier is made of POM, and can therefore not be sterilized in an autoclave. The carrier must therefore be cold-sterilized before being used to transport an abutment into the patient's mouth.



Insert the P.A.D.r abutment into the implant connection, identify the correct engagement between the abutment thread and the socket thread, and screw in for a few turns. Remove the carrier from the P.A.D.r abutment with a slight lever movement.



The screwing operation can be completed with the specific screwdriver (code AVV2-ABUT). This driver must be connected to the torque-control ratchet (code CRI5-KIT).



If necessary, an extension can be used (BPM-15), to be fitted between the hexagonal key and the head of the ratchet.

Important warning

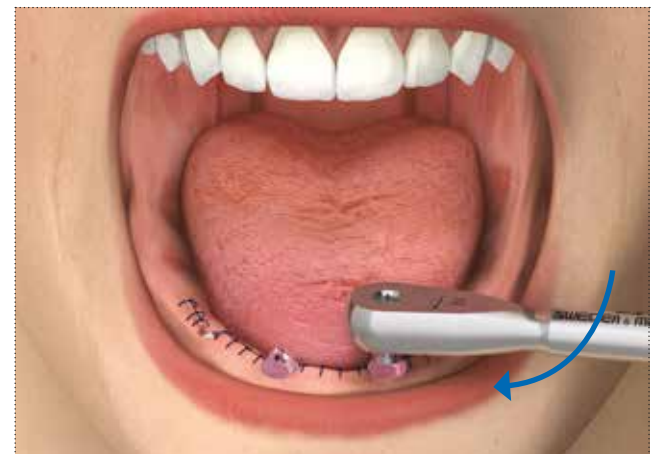
To guarantee the correct operation of instruments, periodic checks must be made to ensure that the retention of the O-rubber rings is adequate, replacing any that may be worn.



The maximum tightening torque for straight P.A.D.r abutments, when directly screw retained is 25–30 Ncm. In case of excessive torque there is a risk of deforming the threaded part of the abutment. As it is difficult to control the insertion torque of prosthetic components manually, the procedure must always be completed using the torque-control ratchet.

Important warning

To stabilize the working axis of the ratchet and the instruments fitted to it, it is advisable to rest the index finger of the free hand on the ratchet wheel on the head of the ratchet.



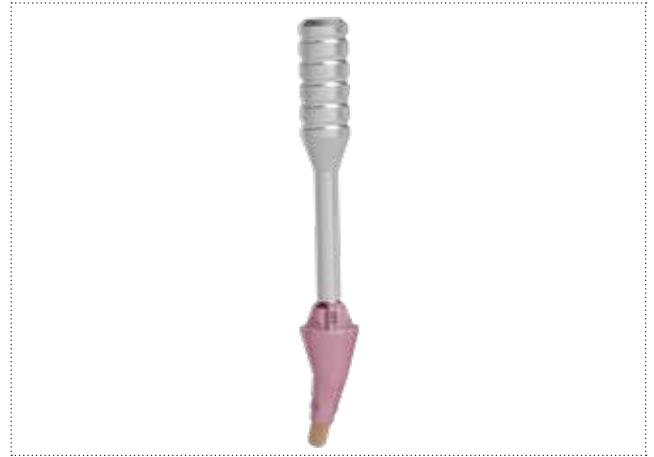
Insertion of angled P.A.D.r Abutments

To carry Angled P.A.D.r abutments inside the mouth, use the PADR-VTRAL-140-M transporter, which is sold already screwed to P.A.D.r.

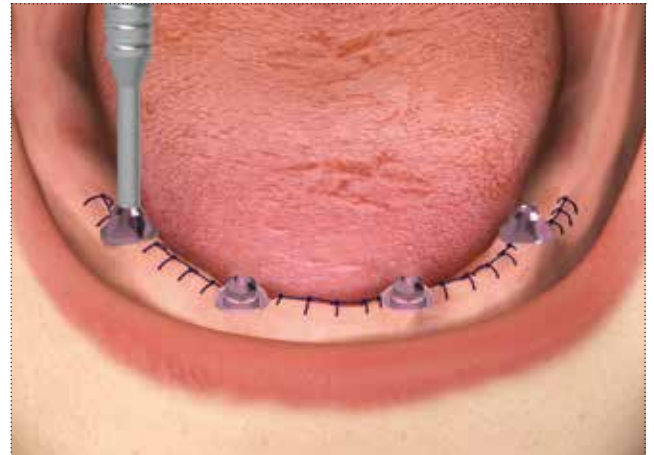
Important warning

Before being used clinically, the components must be sterilized in an autoclave.

It is advisable first to position the P.A.D.r in the implant connection and then to proceed with the insertion of the prosthetic screw.



Position the assembly carrier-angled P.A.D.r on the implant connection.



Keeping the abutment in place with the carrier, screw the connection screw fully.

Important warning

If there is a slight contact between the screwdriver and the transporter, just unscrew the transporter slightly and proceed.



Check for correct manual tightening torque again using the screwdriver (HSM-20-EX) with the ratchet (code CRI5-KIT).

Important warning

The maximum tightening torque for angled P.A.D.r abutments, fixed with through screw, is 20-25 Ncm. As it is difficult to control the insertion torque of prosthetic components manually, the procedure should always be completed using the torque-control ratchet. It is advisable to keep the ratchet in a perpendicular position during screwing operations, keeping the index finger of the free hand on the ratchet wheel to prevent swaying movements that could damage instruments and compromise the correct positioning of the abutments. In case of excessive torque there is a risk of ruining the threaded part of the screw.



Screw with a 15-20 Ncm torque. the temporary prosthesis on the P.A.D.r abutments with the PAD-VP-140.

Important warning

It is recommended to use new screws for tightening in the mouth.



Special warnings

When tightening transgingival screws and definitive tightening of post screws or prosthetic screws, it is recommended to adhere to the following tightening torques:

description	recommended torque
Healing abutments	8-10 Ncm
Transfer screws	8-10 Ncm
Through screws for tightening prosthetic overstructures onto P.A.D.r abutments	15-20 Ncm
Through screws for tightening angled abutments P.A.D.r onto implants	20-25 Ncm
Components screwed directly onto implants (e.g. straight P.A.D.r abutments)	25-30 Ncm

Excessive tightening torques may weaken the mechanical structure of screws and compromise prosthetic stability, with possible damage to the implant connection.

For more information on maintenance, cleaning/sterilization/storage of prosthetic components, surgical instrumentation and the CRI5-KIT torque control ratchet, please visit the website https://www.sweden-martina.com/it_it/ifu/



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