

Prosthesis Planning Kit

Surgical Manual



Document Name : SM.03 T6 Prosthetic Planning Kit

Publication Date : 17.07.2026

Revision No. : 00

Revision Date :



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This user manual includes instructions for use that are recommended for surgical applications of NucleOSS Dental Implant system. Treatment and surgical planning should be performed on the basis of clinical data and evaluations of physician in relation to the case.

Şanlılar Tıbbi Cihazlar Med. Kim. San. ve Tic. A.Ş.
info@nucleoss.com

Dear Clinician

Şanlılar A.Ş. , the manufacturer of the NucleOSS brand, was established in Izmir in 2001 and produced Turkey's first dental implant. In the light of meticulous R&D studies and knowledge, we continue to produce more innovative and user-friendly products for you with the excitement of the first day, by adopting world-class sensitive production protocols. In order to increase the quality of the operation and to enable more comfortable treatment processes, we design and develop quality and innovative products, and offer them to you.

We established the TFI (Together for Implantology) academy in order to create a platform where dentists can share their ideas, studies and information about implants within an ethical framework and thus contribute to the development of the field of implantology. As NucleOSS, we adopt reliable, quality and customer-oriented production with transparent, ethical and principled management.

We work more and more every day within the framework of our open to change and innovative approach, which is the first condition of progress and growth. We design new products, constantly change and develop with our understanding of management and production that values people.

We are growing thanks to your support... We are enchanting...



Salih ŞANLI

PRESIDENT

Nucleoss Prosthetic Planning Kit

These are specialized measurement and positioning tools that allow the dentist to precisely select the most accurate abutment angle, gingival height, and platform diameter in implant-supported applications. Accurate trials with these kits maximize the aesthetics, function, and lifespan of the prosthesis and the implant.

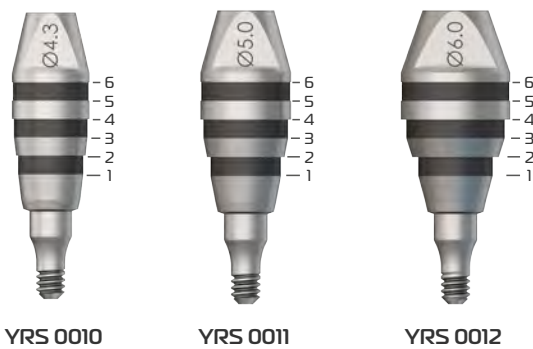
- It involves physically testing and trying on the angle and height values of the prosthetic component to be placed on the implant screw.
- It prevents incorrect abutment selection and provides full compatibility with abutment-level or screw-mounted prostheses.
- These typically include trial abutments and impression pins with varying angles (e.g., 0°, 15°, 25°) and gingival distances.



The parts included in the kit,

For Straight Abutments			For Angled Abutments	
Ø 4.3 mm  YRS 0010	Ø 5.0 mm  YRS 0011	Ø 6.0 mm  YRS 0012	15°  YRS 0013	25°  YRS 0014
For Multi Unit Abutments			Manual Hex Driver	
17°  YRS 0018	30°  YRS 0019	 YRS 0016	 T0 25251	

For Straight Abutments



In prosthetic planning, these parts are used to determine the most accurate abutment diameter and gingival height for treatments where straight abutments will be used.

Diameters are Ø 4.3 - 5.0 - 6.0 mm and measurements can be made from 1 to 6 mm.

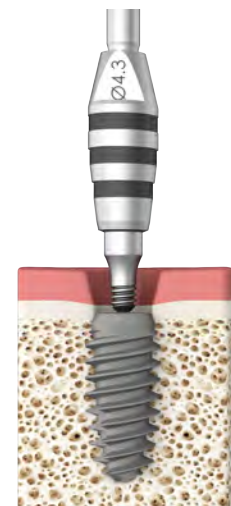
These parts are placed on the implant using the manual hex driver included in the set.



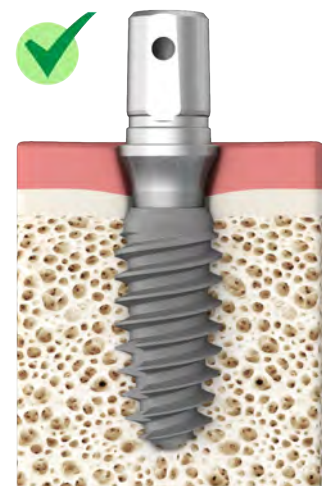
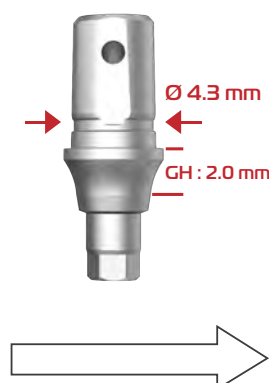
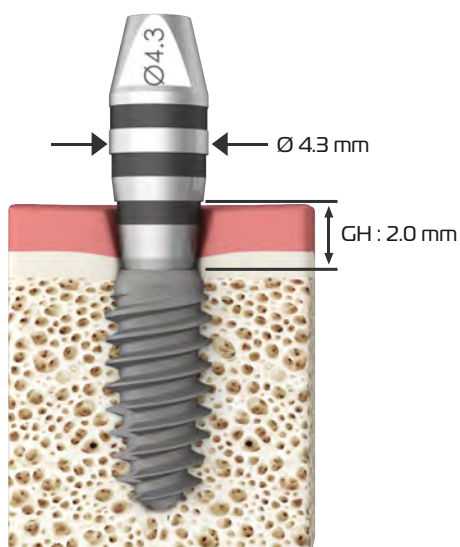
Usage for Standard Straight Abutments



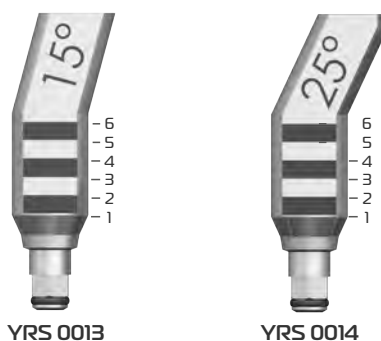
The straight measuring part and manual hex driver to be used are prepared.
A Ø 4.3 mm measuring part was used in this treatment.



The impression part is placed in the implant.



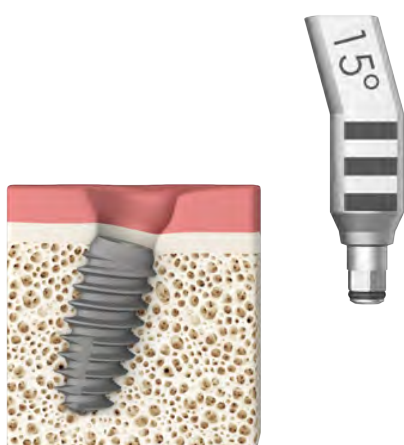
For Angled Abutments



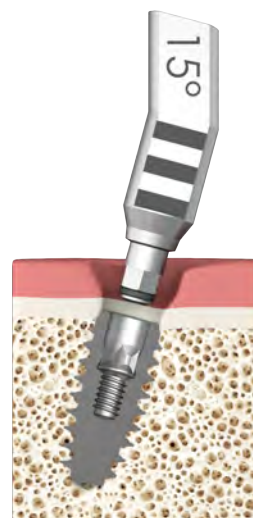
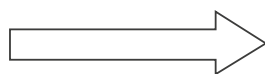
In prosthetic planning, these parts are used to determine the most accurate abutment diameter and gingival height for treatments where the implant is at a 15° or 25° angle.

Measurements can be taken from 1 to 6 mm.

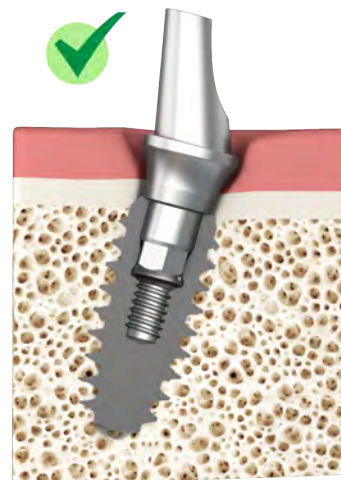
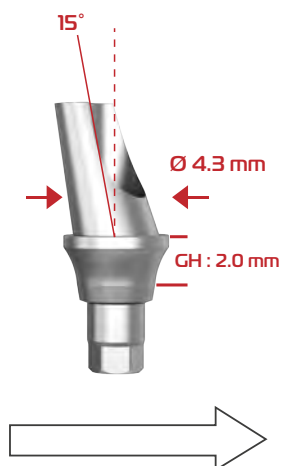
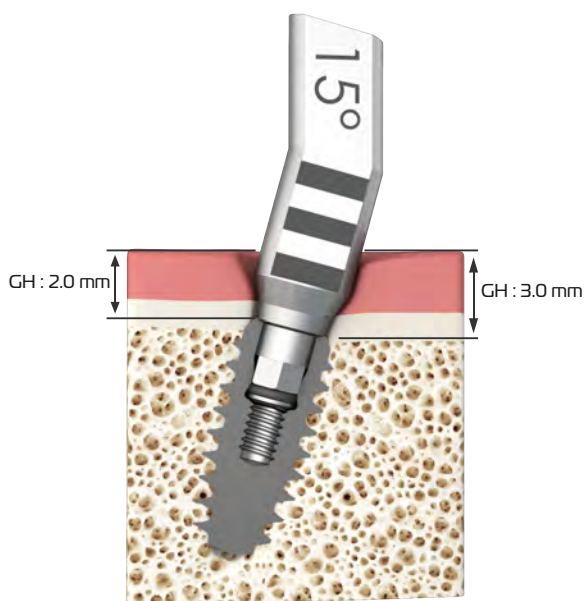
Usage for Standard Angled Abutments



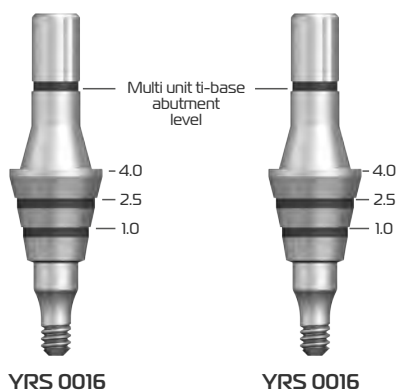
Angled impression part to be used
A 15° impression part was used in this treatment.



The impression part is placed
in the implant.



For Multi Unit Straight Abutments



In prosthetic planning, these parts are used to determine the correct gingival height for the multi-unit straight abutment to be used in treatments where the implant is straight.

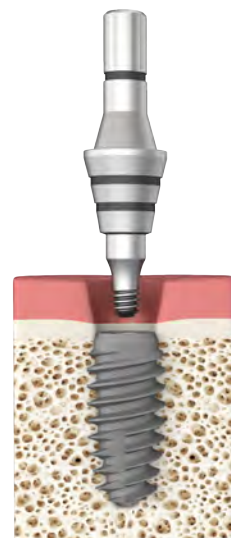
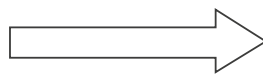
Measurements can be made from 1 to 4 mm.

This set includes 2 multi-unit straight impression parts.

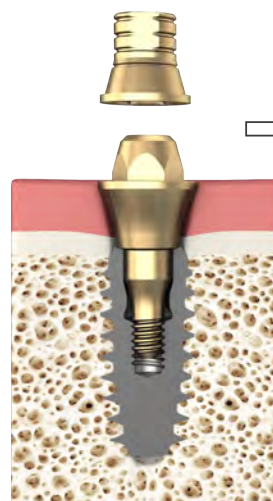
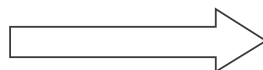
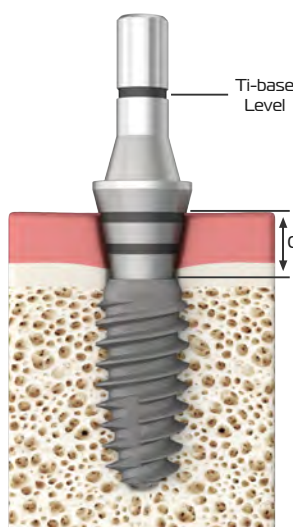
Usage for Multi Unit Straight Abutments



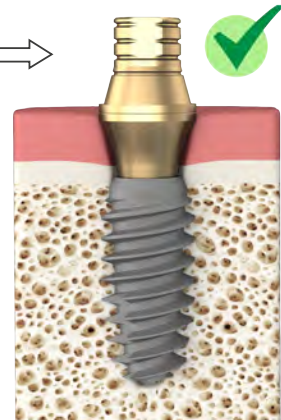
A multi-unit straight measuring part is prepared.



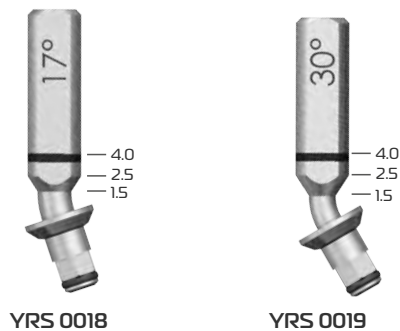
The impression part is placed in the implant.



Multi Unit CAD/CAM
Ti-base Abutment



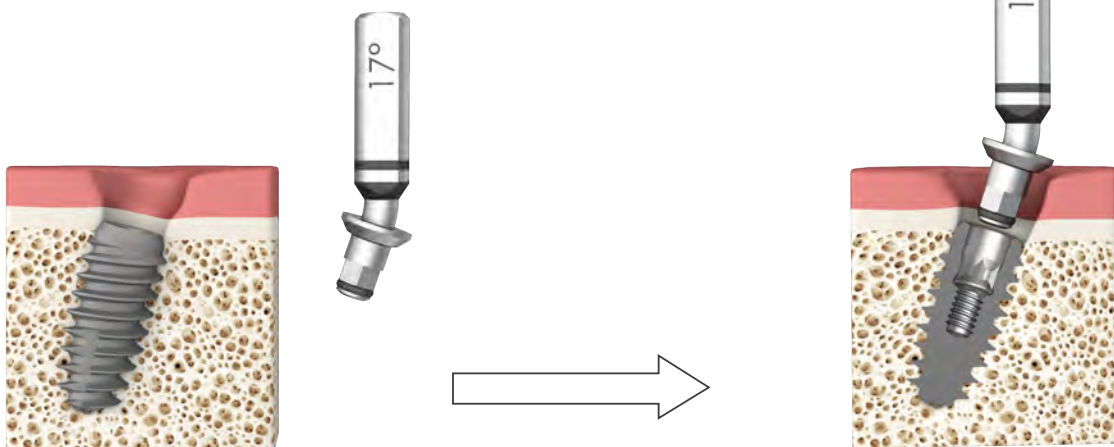
For Multi Unit Angled Abutments



In prosthetic planning, these parts are used to determine the most accurate gingival height for the multi-unit abutment to be used in treatments where the implant is at a 17° or 30° angle.

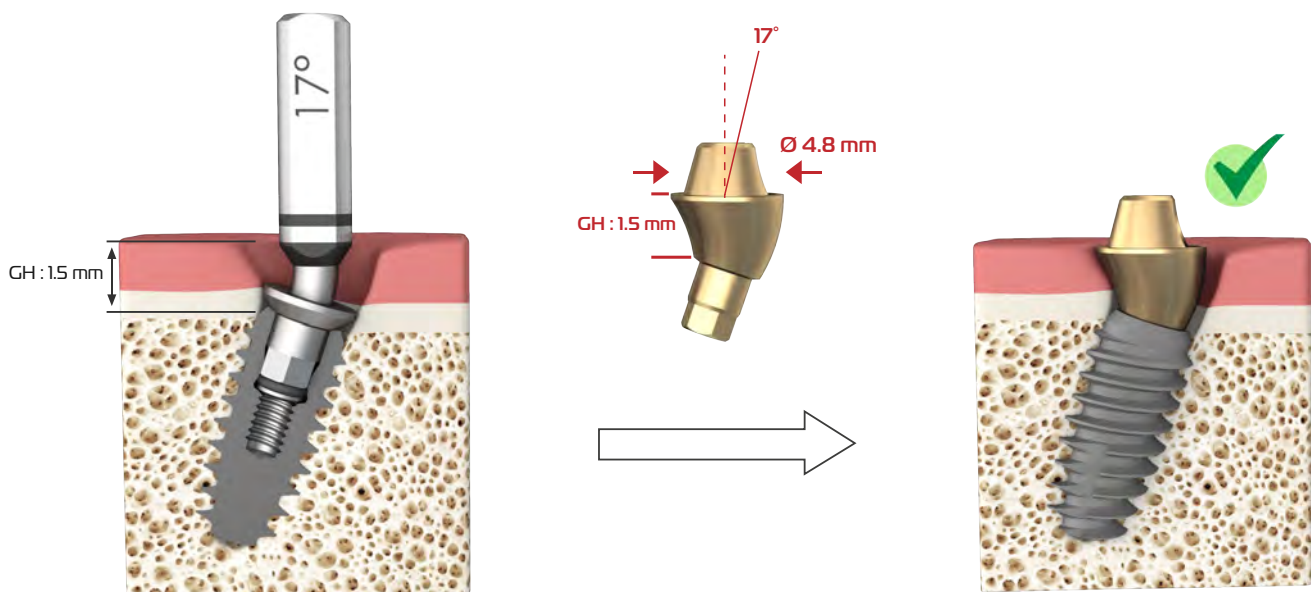
Measurements can be taken from 1 to 4 mm.

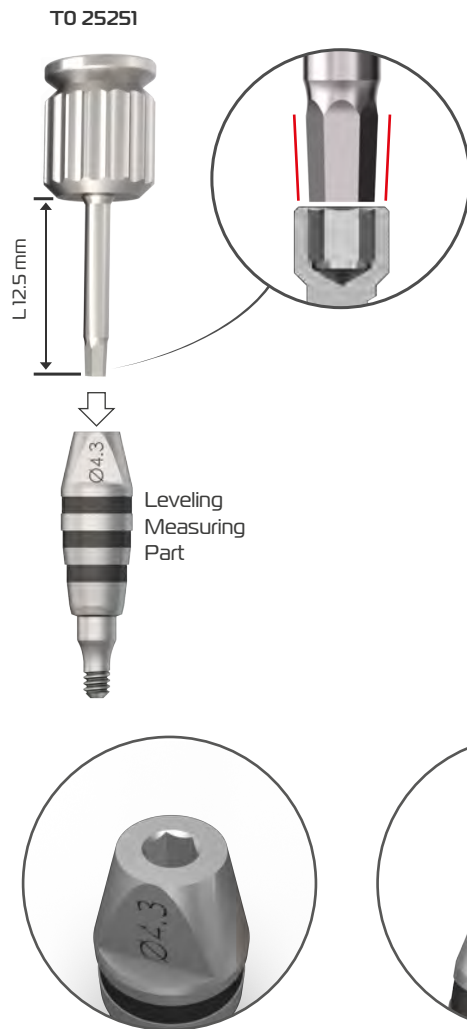
Usage for Multi Unit Angled Abutments



Multi unit angled measuring part to be used
A 17° impression part was used in this treatment.

The impression part is placed in the implant.



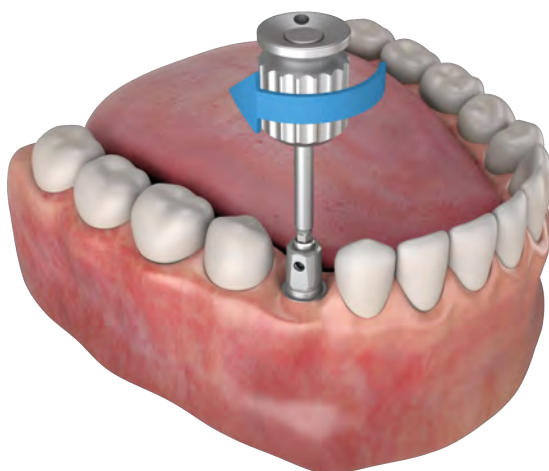
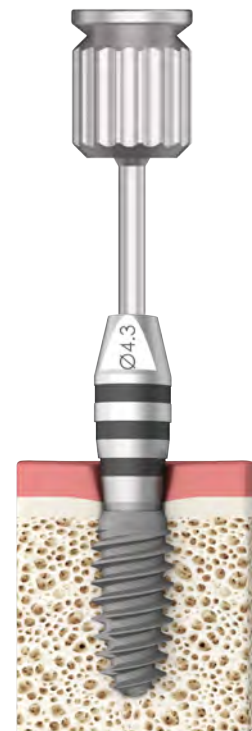


Hex driver is used for fixing healing components, prosthetic and impression parts.

It is made of stainless-steel material.

It can be procured in a surgical set and in one piece.

The tip of the hex driver used manually and with micromotor is in hex structure and conical shape.



It can be used for carrying connectionscrews and healing caps and for light tightening.

Torque up to a maximum of 10 Ncm can be made with these hex driver.

Note: Final torque must never be done. Because the hex slot of the screw or the tip of the hex driver may be damaged.

Tightening - Torque Values

 TO 25900		
Products	Tightening Parts	Torque Value
Implant Cover Screw And Sinus Caps 	 TO 2024 Short (ratchet)  TO 2025 Long (ratchet)	MANUAL/ Ratchet (If a racquet is used, 10 Ncm)
Gingiva Former 	 TO 2525I Manual Hex Driver	
Connection Screws of Peek Parts 		
All Cemented Abutment Screws 	 TO 2024 Short (ratchet)  TO 2025 Long (ratchet)	Max. 30 Ncm
Cast Abutment Screws 	 TO 2525I Manual Hex Driver	
Cad/Cam Ti-Base Abutment Screws 		

Tightening - Torque Values

 TO 25900		
Product	Tightening Parts	Torque Value
Ball Abutment 	 TO 25205 Ball Abutment Tightening Part	Max. 30 Ncm
Equator Abutment 	 774CHE Equator Abutment Tightening Part	Max. 30 Ncm
Multi Unit Straight Abutments 	 TO 25206 Multi Unit Abutment Tightening Part	Max. 30 Ncm
Multi Unit Angled (17° / 30°) Abutment Screws 	 TO 2024 Short (ratchet) TO 2025 Long (ratchet)	Max. 30 Ncm
Parts Installed on the Multi Unit 		Max. 10 Ncm
Occlusal Screws Attached to Prosthesis 		Max. 20 Ncm
Occlusal Screws Attached to Prosthesis 	 TO 25251 Manual Hex Driver	Max. 20 Ncm

Maintenance and Cleaning of Surgical Hand Tools

- Careful use of all tools is extremely important.
- Even the slightest damage to the ends of the drill adversely affects cutting performance and therefore the clinical outcome.
- Even if it is used correctly and clean, it should be taken into account that the cutting performance of the drill is reduced after a certain number of uses. (Maximum milling for NucleOSS drills is 15 times)
- Avoid contact with the ends of the drills on a hard surface other than the bone.
- Each surgical set piece should be used according to its purpose and method of use. Other uses may damage the part.
- Never allow surgical residues (blood, bone, etc.tissue residues) to dry on an tool, clean immediately after surgery.
- Clean thoroughly with only soft brushes so as not to cause wear and scratches on the tools. If necessary, remove the removable parts of the tools and clean the gaps.
- Never disinfect, clean (also ultrasound) or sterilize instruments made of different materials together.
- Use only cleaning agents and disinfectants for the material and follow the manufacturer's instructions for use.
- Rinse disinfectants and cleaning agents thoroughly with water.
- Never leave or store tools moist or wet.
- For more detailed information, please refer to the D006 NucleOSS Surgical Instruments User Manual for Cleaning and Disinfection of Surgical Instruments.

Sterilization

Şanlılar Medical Devices Med. Kim. San Tic. A. Ş. accepts no responsibility for devices initially delivered non-sterile, regardless of who performs the sterilization or by what method. Due to variations in conditions and environments, the ultimate responsibility for implementing and verifying procedures to achieve sterility rests with the user. Non-sterile surgical instruments should not be used under any circumstances.

Place properly cleaned and dried instruments into the designated slots inside the surgical set box. The surgical set is made of highly impact-resistant plastic materials suitable for autoclave sterilization. In clinical autoclaves, parts can be sterilized as a single piece without having to be removed from the box. Place the surgical set container in the autoclave bag.

Note: Do not stack boxes while performing the sterilization process, as this may affect sterilization effectiveness.

Sterilisation cycle recommended by Şanlılar Medical Devices :

Method	Moist heat sterilization according to ISO 17665:2024.
Cycle	Prevacuum
Temperature	134°C / 273.2°F
Exposure Time	3 Minutes
Basınç	2.2 bar
Pre-Vacum	3 times < 60 mbar
Minimum Drying Time	60 minutes in the enclosed chamber.

- Remove the surgical sets from the sterilizer after the cycle is complete, and place the tray on a padded surface to prevent condensation during cooling.

Note: Sterilization processes are validated in accordance with the current international standard, ISO 17665:2024.

Note: Manufacturer instructions for use for all detergents/cleaning solutions and/or equipment and accessories used in the cleaning and disinfection of the devices must be strictly followed.



Şanlılar Tıbbi Cihazlar
Med. Kim. San. ve
Tic. A.Ş.

İTOB Organize Sanayi Bölgesi İTOB
Atatürk Caddesi No:24
Tekeli/Menderes/İZMİR/
TÜRKİYE

T : +90 232 799 03 04
F : +90 232 799 03 06
E : info@nucleoss.com

SLH Microtech GmbH
Tiergartenstr. 7b ,64646
Heppenheim (Bergstr.),
GERMANY

T : +49 (0) 6252 795 77 72
F : +49 (0) 6252 795 77 73
E : europe@nucleoss.com

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