

TOPS[™] System Instrumentation Set – Instructions for use

The document includes the cleaning and sterilization process, in addition, it serves as a checklist. The instrumentation set is to be cleaned and sterilized prior to first use and following each use. For cleaning and sterilization instructions for the first time follow the cleaning and sterilization instructions presented in the reprocessing section and follow through.

Instrument	Brief Description	P/N	Qty
	The Probe works in conjunction with a pendulum to assists in preparing the pedicle canal in a proper Medial/Lateral trajectory to optimal accept the geometry of the TOPS System.	Probe 81717	1
	The IPD Sleeve works in conjunction with a Probe to assist in determining proper Caudal cephalad trajectory and ensure sufficient distance between unilateral screws to accept the TOPS device	IPD sleeve 81714	1
	The bone flag and screw flag work in conjunction with the ball sleeve to mark and measure the IPD	81711 Bone Flag	1
	between adjacent unilateral screws to verify sufficient IPD to accommodate the TOPS	81712 Screw Flag	1
	The flag inserter is designed to hold and position the bone and screw flags	00046 Flag Inserter	1
	The Pendulum is used to ensure that pedicle screw insertion is performed at the proper medial- lateral angle within the range of ±10°	Pendulum 82775	1
	Pedicle Awl is used in order to open the cortex and ease screw insertion	Pedicle Awl 83159	1
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	The Tap is used in cases of dense, sclerotic, or osteoporotic bone for tapping through the pedicle canal to minimize risk for	Tap Ø 5.5 for Pendulum Adaptor 86639	1
	splitting or fracturing of the pedicle.	Tap Ø 6.5 for Pendulum Adaptor 86640	1
	Depth Gauge and Feeler can be used to measure the depth and evaluate the screw length	Feeler gauge 83210 . (DA 2025-49)	1
	The Cannulated Screwdriver works in conjunction with the Pendulum to ensure insertion of the screw in a proper	Cannulated Screwdriver 86507	1



Instrument	Brief Description	P/N	Qty
	medial/lateral angle		
P EHO	The Alignment Gauge (83105 Long & 86202 Medium) is used to determine the dorsal alignment of the screw heads and indicates whether any of the four screws	Gauge Handle Long 83104 Gauge Handle Medium 86185	1
	need to be advanced to properly accept the geometry of the 4 arms of the TOPS System. The Alignment Gauge is used to verify that the proper implant type (either 21, 30 or 38) has been selected.	Gauge Superior crossbar right Long 83107 Gauge Superior crossbar right Medium 86189	1
	The Alignment Gauge fits all levels and TOPS™ configurations	Gauge Superior crossbar Left Long 83106 Gauge Superior crossbar Left Medium 86187	1
	Setscrew Inserter is used for placement of the set screw Warning: Do not use this instrument for final tightening of the setscrews	Torx Setscrew Inserter 86208	1
	Standard Screwdriver is used to advance the screw to the desired depth.	Standard Screwdriver 83209 (01.20202.110)	1
전 개 제 역 () 등 XXXXX XX 61 19 () () () () 1 1 1 1 1 1 1 1 1 1 1 1	The Tap is used in cases of dense, sclerotic, or osteoporotic bone for tapping through the	Cannulated Tap Ø6.5 86143	1
। ####################################	pedicle over the K- Wire canal to minimize risk for splitting or fracturing of the pedicle.	Cannulated Tap Ø5.5 86142	1
्रात्र स स स व विवय व विवय विवय विवय के स्वय राज xxxxxx छ । यि य स स विवय विवय विवय विवय विवय के स्वय के स्वय क	The Cannulated Probe works over the K- Wire on connected to integrated K- Wire handle (86046) in conjunction with a pendulum to assists in preparing the pedicle canal in a proper Medial/Lateral trajectory to optimal accept the geometry of the TOPS System.	Cannulated Pedicel Probe 86047	



Instrument	Brief Description	P/N	Qty
C ARTING C	The integrated K- Wire handle Assy work with Cannulated Taps (86143, 86142) and a Cannulated Pedicel Probe (86047) in conjunction with a pendulum, the K- Wire should protrude the tip of tools	integrated K- Wire handle 86046	
	The TOPS™ Inserter is designed to conveniently hold the TOPS™ implant in zero position during implantation	TOPS™ Inserter 82889	1
	The TOPS Loading Base is designed to help the surgical staff attaching the TOPS Implant to the TOPS Inserter in zero position.	TOPS Loading Base 86991	1
	Counter Torque is used to firmly hold the pedicle screws during final tightening and prevent the torqueing moments from being transferred to the spine.	Counter torque 82474	1
	1/4" fitting Straight and T handle works in conjunction with 1/4" fitting instruments (Taps, Screwdriver and toque limiter) to	Ratchet T handle with pendulum adaptor 86263/ 87866(optional)	1
	facilitate insertion and tightening of pedicle screws.	STR Ratchet handle with pendulum adaptor 86273/ 87867(optional)	1
		Optional: Straight Handle with Pendulum Adaptor w/o Ratchet 86802	1
1 13 MM 1 Da	The Screwdriver with Torque Limiter (Torx) limits the moment applied for tightening the setscrews to 13NM.	Torque Limiter 86567	1
	K- Wire 230 mm	86828	10
	K- Wire 470 mm	86264	10



Instrument	Brief Description		P/N	Qty
	Setscrews used in cases were additional setscrew are needed to fasten the pedicle screws.		86211	9
Proving on the second se		50 mm	83196/86242	2
	Fusion Rod	70 mm	83197/86244	2
	TOPS™ Instrumentation Container		83117	1

General Instructions:

All instruments are required to be carefully examined before using in a surgical procedure. Inspection should include a visual examination to confirm that instruments are free of defects (e.g., corrosion, cracks, etc.). In addition, the functionality of the instruments should be confirmed prior to surgery. If instruments have defects or do not function properly they should not be used. Please contact Premia Spine for further direction.

Products:	Premia Spine TOPS System Instrumentation set	
CAUTIONS:	 Reprocessing procedures have only a limited impact on a surgical instrument. The limitation of the numbers of reprocessing procedures is therefore determined by the function / wear of the device. In case of damage the device should be reprocessed before sending back to the manufacturer for repair. Before being used for the first time and each use thereafter, the instructions outlined below should be followed to ensure safe handling of biologically contaminated instruments. 	
Reprocessing Instructions	3	
Preparation at the Point of Use:	Rinse the instruments with cold water (<40°C) immediately after use to remove gross soiling. Clean any lumens using a syringe filled with sterile water. Use a K-wire to clean any cannulation from soft tissue and bone residuals. Pass the K-wire through the cannulation several times to make sure no tissue is left. Do not use a fixating detergent or hot water (>40°C), as this can cause the fixation of soil which might prevent cleaning. Cleaning should be performed before blood and debris are dry.	
Transportation:	House the instruments in a safe container during transportation to the reprocessing area to avoid any instrument damage and contamination to the environment or personnel.	
Preparation for	The following instruments must be dismantled before cleaning:	
Decontamination:	TOPS System Inserter (82889)	



	Cannulated Screwdriver (86507)	
	K-Wire Adaptor (86494)	
	Integrated K-Wire Handle Assy (86046)	
Pre-Cleaning:	Immerse the instruments into cold utility water for at least 5 minutes.	
0	 Take care to ensure that all surfaces are wetted and any lumens filled with water. 	
	 Place the instruments in an ultrasonic bath with an enzymatic detergent or alkaline detergent 	
	solution prepared per the manufacturer's recommendations for at least 5 minutes.	
	• Brush the instruments with a suitable cleaning brush under running utility water until all	
	discernible soil residue is removed from the surface.	
	Brush any lumens or dead ends at least three times.	
	• Flush any hidden corners and cavities on the instruments with a water jet pistol (water	
	pressure ≥2 bar) for at least 10 seconds.	
Automated Cleaning:	Put the instruments into the washer-disinfector on a tray or trays and start the following program:	
-	 Pre-washing with cold utility water for at least 2 minutes 	
	Draining	
	 Wash with an enzymatic detergent or alkaline detergent using the manufacturer's 	
	recommendations with 40 °C tap water for at least 5 minutes	
	Draining	
×	Rinse with cold demineralized water for at least 3 minutes	
	Draining	
	 Rinse with cold demineralized water for at least 2 minutes 	
	Draining	
	•	
Thermal Disinfection:	Perform automated thermal disinfection in washer-disinfector that complies with national	
	requirements in regards to A ₀ -Value (see EN 15883)	
Drying:	Drying of outside of instruments occurs through drying cycle of washer-disinfector.	
	 If needed, additional manual drying can be performed with a lint free towel. 	
	Insufflate cavities of instruments by using sterile compressed air.	
Functional Testing,	Visually inspect all instruments for cleanliness of the instruments followed by	
Maintenance:	reassembling.	
	 Perform functional testing according to instructions of use. 	
	 If necessary, perform reprocessing process again until all instruments are visibly clean. 	
Packaging:	Put the instruments in the Premia Spine TOPS System container trays and prepare the trays for sterilization.	
Sterilization:	 Sterilization. Sterilize the instruments within the tray in accordance with the following steam sterilization 	
Stermzation.	parameters (according to ISO EN 17665-01) in conformance with the respective country	
	requirements:	
	Cycle Type: Pre-vacuum	
	Temperature Set-point: 132°C	
	Exposure Time: 4 minutes	
	Drying Time: 10 minutes	
	The following alternate cycles are also qualified	
	Alternate Cycle 1	
	Cycle Type: Pre-vacuum	
	Temperature Set-point: 134°C	

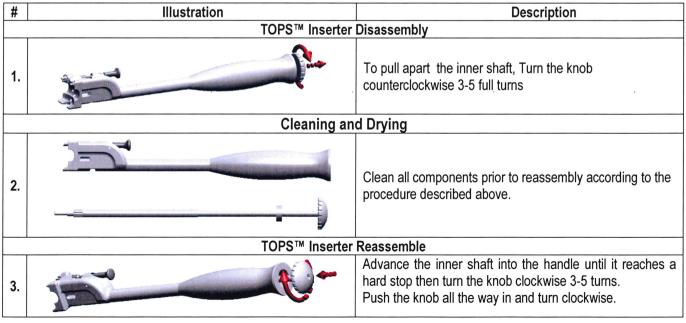


		Exposure Time: Drying Time:	3 minutes 10 minutes	
	Alternate Cycle	, ,	To minutes	
		Cycle Type:	Pre-vacuum	
		Temperature Set-point:	135°C	
		Exposure Time:	3 minutes	
		Drying Time:	10 minutes	
	Maximal Sterilization te	emperature: 138°C		
	IMMEDIATE-USE STE LUMENS!	RILIZATION IS NOT ALLOWED	ON INSTRUMENTS TH	AT CONTAIN
Storage:	Store sterilized instruments in a dry, clean, and dust free environment at temperatures of 5°C to 40°C.			
Reprocessing validation	The following test device	The following test devices, materials and machines have been used in this validation study:		
study information	Detergent:	neodisher MediZym (Chemiso	he Fabrik Dr.	·
	Weigert, Hamburg)			
	Brush	Any brush		
	Washer-Disinfector:	Miele G7836 CD		
	Instrument rack:	Miele rack with two layers.		
	Details:	See report SMP 1020601191	2 (according to ISO 176	64) and SMP
	10206022312 0561002	3303-1 and 05610023303		
Additional Instructions:	None			
Note: The instructions pro	vided above have been va	lidated by the medical device mar	nufacturer as being CAP	ABLE of
		responsibility of the processor to		
		I in the processing facility achieve	•	•

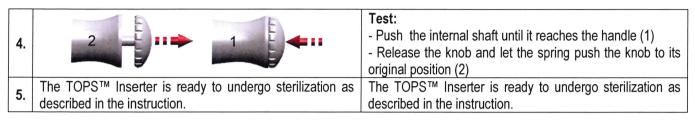
performed using equipment, materials and personnel in the processing facility achieve the desired result. This requires validation and routine monitoring of the process. Likewise any deviation by the processor from the instructions provided should be properly evaluated for effectiveness and potential adverse consequences.

Instrument Specific Instructions:

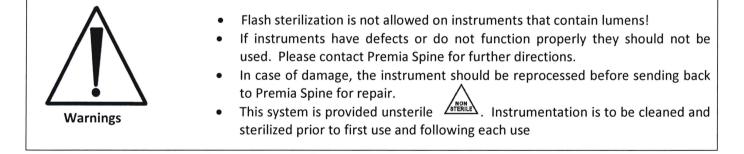
The TOPS[™] Inserter is required to be disassembled prior to cleaning as follows:



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TOPS™ screwdriver Disassembly before cleaning			
6.	1 2 V V	To disassemble the screwdriver for cleaning, first push the inner shaft (part #1) by the handle, second pull the sleeve (part #2) in the direction of the arrows.	
7.	The integrated K- Wire handle Assy. Disassemble the knob and the Probe from the integrated K- Wire handle Assy for cleaning. Disassemble the K-wire from the knob.		
8.	Setscrew Inserter 86208: Verify that the tip is clean from tissue residues.	A A A A A A A A A A A A A A A A A A A	



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