

# FJ 2000™

POWER CONSOLE SYSTEM

## PRODUCT MANUAL

Paragon 28® FJ 2000™ Power Console Product Manual



# PRODUCT DESCRIPTION

The Paragon 28® FJ 2000™ Power Console is an electronic control system for operating MIS and Traditional Open Procedure handpieces. These handpieces operate drills, K-wires, burrs, and saws through the control of a foot pedal. It generates the signals necessary to run the motor and compatible equipment at the desired speed and direction as controlled by the operator. The speed is adjusted by a rotary knob on the equipment. The Foot Pedal can be used to manage the safety lock, forward or reverse direction, and turn irrigation on or off

The Paragon 28® FJ 2000™ range of Single-Use surgical power tools are designed for use in orthopedic osteotomies in a variety of precision small bone cutting and drilling procedures. The Paragon 28® FJ 2000™ Console and Foot Pedal are provided non-sterile. Hand Pieces, Modules, and Burrs are supplied in a sterile package ready to use and for Single-Use only.

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# FEATURED INSTRUMENTATION



FJ 2000™, Power Console with Irrigation Pump (P65-002-0001)

FJ 2000™, Foot Hook (P65-002-0007)



FJ 2000™, Foot Pedal w/ Foot Hook



FJ 2000™, Foot Pedal (P65-002-0002)

# FEATURED INSTRUMENTATION



MIS Handpiece



High Speed (Traditional Open) Handpiece



MIS Module with AO Connection + Cover



Sagittal Saw Handpiece Module + Driver



MIS Module with AO Connection, Cover, + Irrigation Ring

## COMPATIBLE WITH BOTH HAND PIECES

**NOTE:** Use the cannulated AO module for drilling and placing a screw under power.



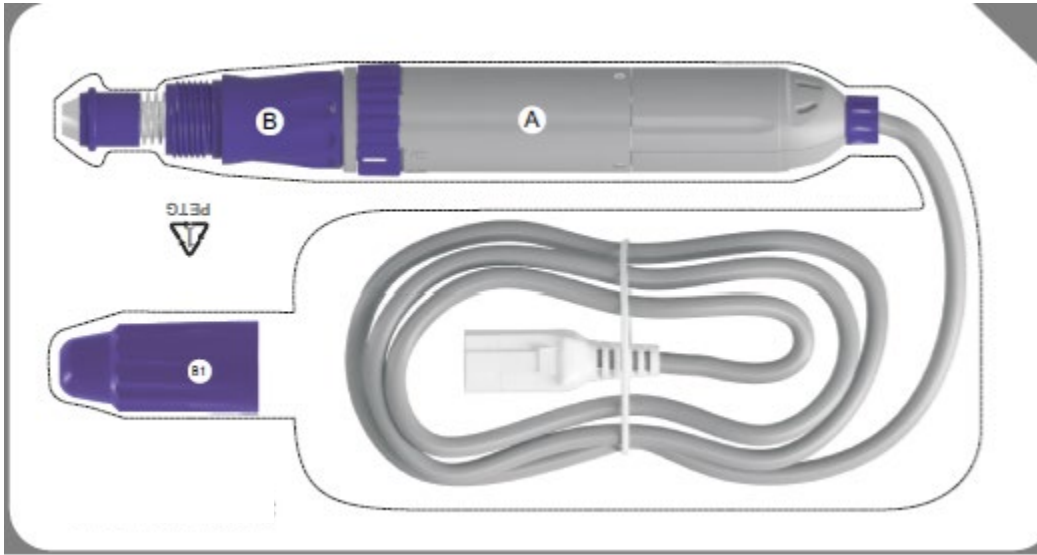
K-wire Handpiece Module  
(Compatible with 0.9-2.3 diameter K-wire)



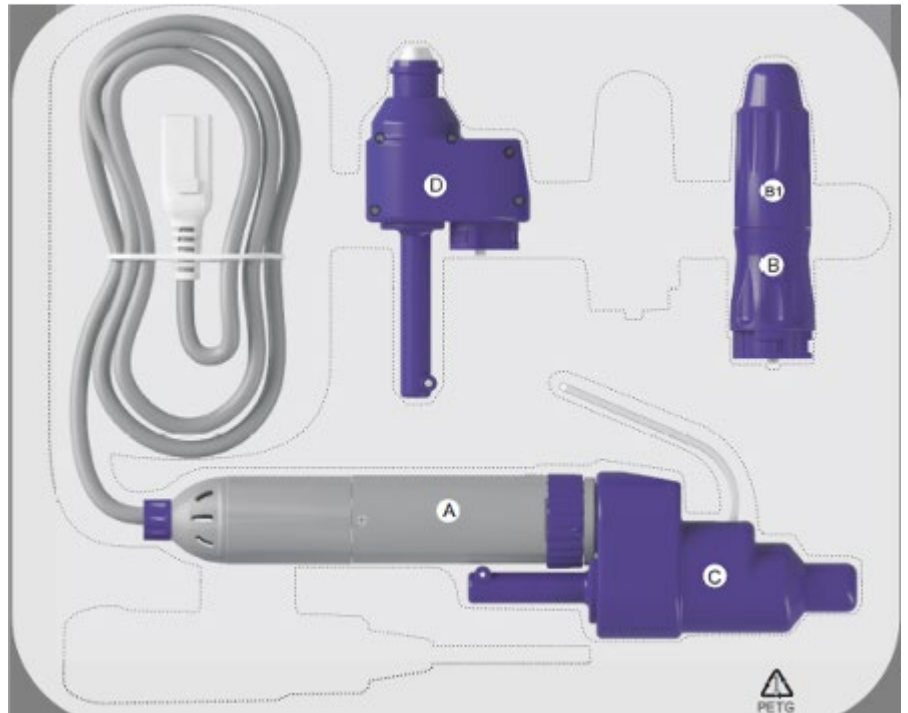
Cannulated AO Handpiece Module

# FEATURED INSTRUMENTATION

## STERILE PACKED KITS



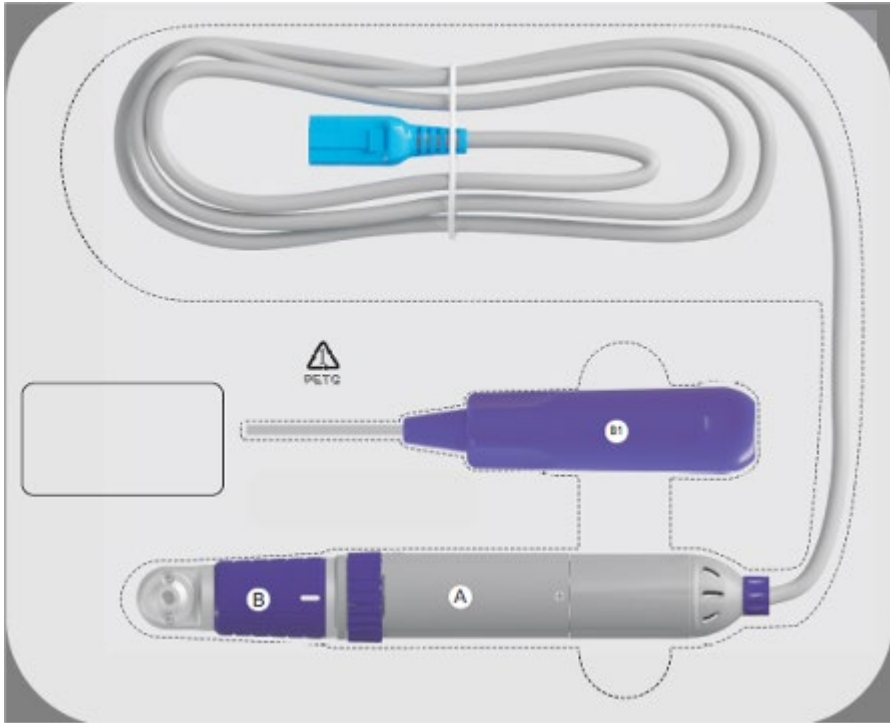
MIS Hand Piece and AO Connection Kit (Sterile)  
(P65-001-0001-SK)



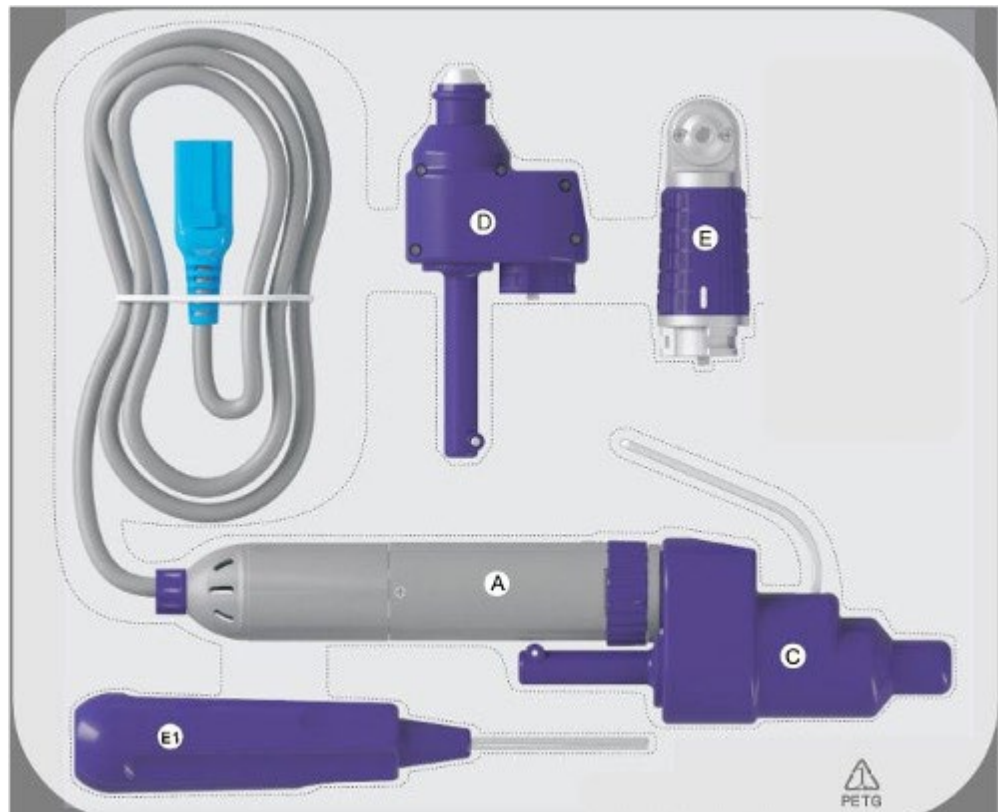
Minimally Invasive Procedure Kit for Hardware (Sterile)  
(P65-001-0002-SK)

# FEATURED INSTRUMENTATION

## STERILE PACKED KITS



High Speed Handpiece with Sagittal Saw Kit (Sterile)  
(P65-001-0003-SK)



Open Procedure with Sagittal Saw Kit (Sterile)  
(P65-001-0004-SK)





# FEATURED INSTRUMENTATION



	PORT IN WHITE			PORT IN BLUE		
	MIS HANDPIECE			HIGH SPEED HANDPIECE		
	MIS Module	K-wire Module	Cannulated AO Module	Saw Module	K-wire Module	Cannulated AO Module
SPEED						
HIGH	10,000 RPM	<b>1,500 RPM</b>	<b>1,500 RPM</b>	<b>20,000 RPM</b>	3,000 RPM	3,000 RPM
MEDIUM	8,000 RPM	1,200 RPM	1,200 RPM	15,000 RPM	2,250 RPM	2,250 RPM
LOW	<b>6,000 RPM</b>	900 RPM	900 RPM	10,000 RPM	<b>1,500 RPM</b>	<b>1,500 RPM</b>

**NOTE:** Highlighted speeds represent the recommended speed for each respective handpiece and module. Bone quality or indication may require use of a different speed setting.

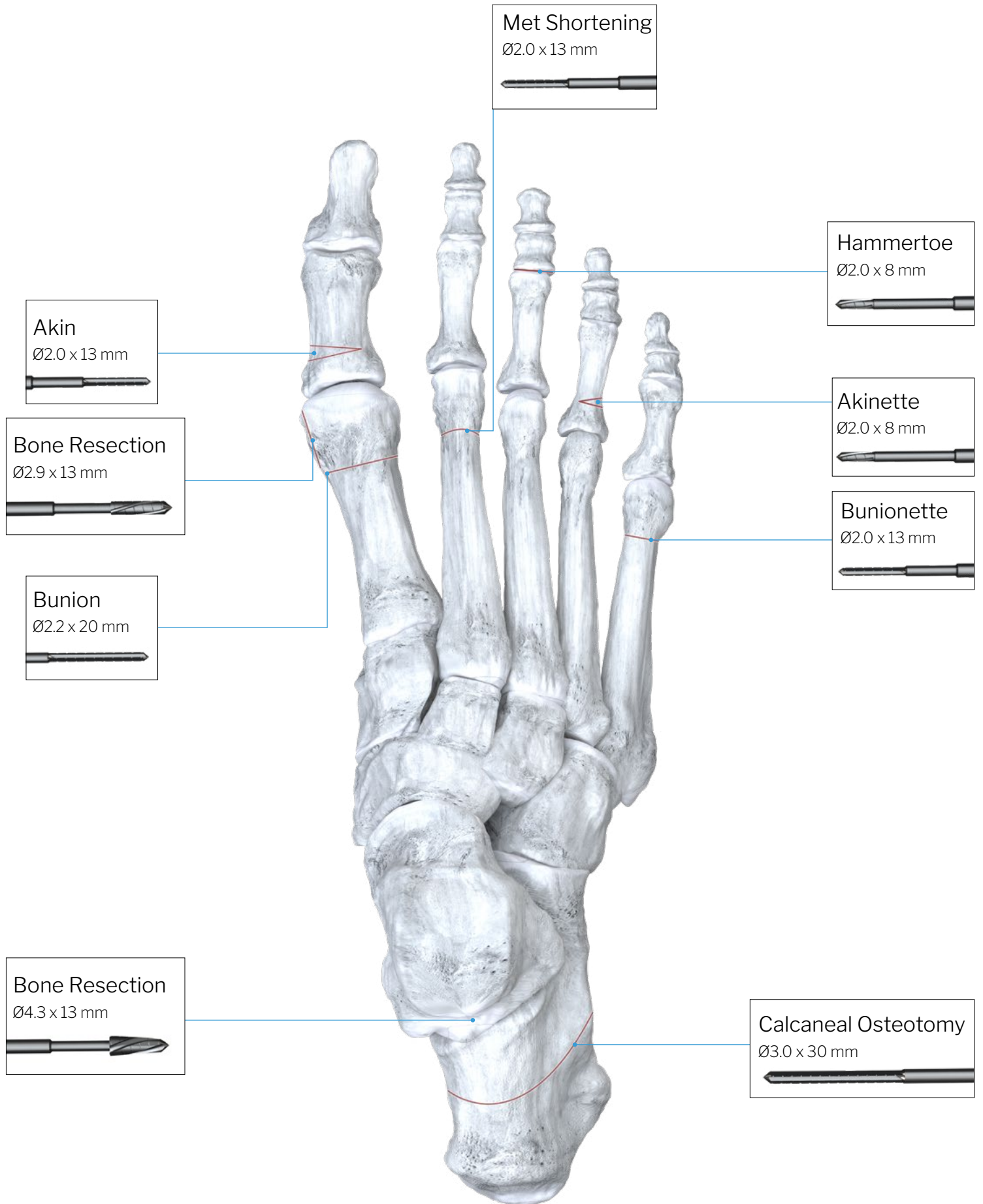
## FEATURED INSTRUMENTATION

BURR	BURR STYLE	DIAMETER X CUTTING LENGTH X BURR LENGTH	INDICATION	PART NUMBER
	Corta	Ø2.0 x 8 x 72	Hammertoe Akinette	P65-105-2008-S
	Recta	Ø2.0 x 13 x 72 Ø2.0 x 20 x 72	Akin Bunionette	P65-105-2013-S P65-105-2020-S
	Corta	Ø2.0 x 20 x 72	Akin Bunion	P65-105-2021-S
	Recta	Ø2.2 x 20 x 72 Ø2.2 x 20 x 82 Ø2.2 x 20 x 100	Bunion	P65-105-2220-S P65-105-2221-S P65-105-2222-S
	Recta	Ø3.0 x 20 x 100 Ø3.0 x 30 x 82 Ø3.0 x 30 x 100	Calcaneal Osteotomy	P65-105-3020-S P65-105-3030-S P65-105-3031-S
	Wedge	Ø2.9 x 13 x 72 Ø4.3 x 13 x 72	Cheilectomy Osteophyte Bone Resection	P65-108-2913-S P65-108-4313-S
				

**NOTE:** Round shank versions of burrs are available for use with other burr systems if preferred.



# FEATURED INSTRUMENTATION



## CONSOLE SET-UP



## SYSTEM COMPONENTS

- A – ON/OFF POWER SWITCH
- B – SPEED CONTROL (LOW/MEDIUM/HIGH)
- C – HANDPIECE PORTS
- D – PORT SWITCH
- E – FOOT PEDAL PORT
- F – PUMP

**CAUTION:** DO NOT twist or force any plugs into outlets or their ports. Doing so could bend the pins in the cable and damage the cable and/or the console.

## CONSOLE ASSEMBLY

- Open the pack and remove all the items
- Ensure Power Switch (A) is at OFF “O” position
- Plug the power cord to the back of the Console and plug into an outlet
- Plug the foot pedal to the foot pedal port (E).
- Plug the handpiece into the handpiece port (C) with the same color as the plug (white or blue)
- Turn the port switch (D) to the selected port side
- Turn ON the power console with the ON/OFF Power Switch (A)
- Choose the speed on the speed control (B) per surgeon preference

## FOOT PEDAL SET-UP



## SYSTEM COMPONENTS

- A – IRRIGATION ON/OFF
- B – SAFETY UNLOCK/LOCK
- C – CHANGE DIRECTION REVERSE/FORWARD
- D – FOOT HOOK
- E – PEDAL

## FOOT PEDAL ASSEMBLY

- Insert the Foot Hook (D) on the back of the foot pedal
- Tighten the screw for the Foot Hook (not shown)
- Press GREEN BUTTON (B) to UNLOCK foot pedal (Green light ON)
- Press the pedal to operate handpiece
- Press PURPLE button to change motor direction.
  - Purple light ON: Reverse (counterclockwise)
  - Purple light OFF: forward (clockwise/default)
- Press BLUE Button (A) to turn ON/OFF irrigation function
  - Blue light ON: ON
  - Blue light OFF: OFF

**NOTE:** Press the GREEN button once to LOCK the foot pedal, preventing unintentional activation.

**NOTE:** Use the foot hook to reposition the foot pedal.

## HAND PIECE SET-UP



MIS Handpiece



High Speed (Traditional Open) Handpiece

## MIS MODULE ASSEMBLY

- When using the MIS Module, rotate the protective cover counterclockwise to remove and push down on the connection. Place the appropriate burr in the module and release the connection to lock the burr in place. Thread the protective cover back over the module and turn clockwise to tighten.



## HANDPIECE ASSEMBLY

- Choose the appropriate module, twist the lock on the handpiece until secure in the open position (white line aligned with open lock symbol)
- Attach the module to handpiece by aligning the white lines
- Rotate the lock on the handpiece until secure in the closed position (white line of the handpiece aligned with closed lock symbol)
- Plug the handpiece into the appropriate port on the console and use the foot pedal to operate the handpiece



# MIS IRRIGATION KIT



- Open the pump by turning it counterclockwise



- Insert the tube into the V aperture and close the pump by turning clockwise

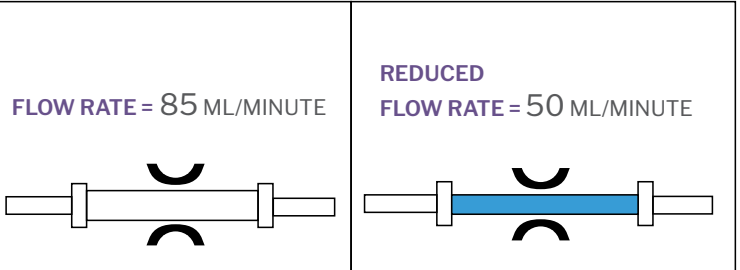
Fluid Bag Bar



Pump

- Hang the irrigation solution to the fluid bag bar.
- Insert the spike into the irrigation solution

**NOTE:** Irrigation flow differs according to which section of the tube is inserted to the pump.



- Utilize the MIS Module AO connection with irrigation and the white plug handpiece and white port on the console.
- When finished with the console, dismantle it by unplugging everything and dispose any sterile packed items that were used.

## HIGH SPEED HANDPIECE WITH SAGITTAL SAW



- Plug the handpiece into the blue port on the console and turn the port switch to the blue side



- Assemble the Handpiece by twisting the lock on the handpiece until secure in the open position (white line aligned with open lock symbol)

- Attach the module to handpiece by aligning the white lines



- Rotate the lock on the handpiece until secure in the closed position (white line of the handpiece aligned with closed lock symbol)
- Insert the saw blade by loosening the saw blade locking screw counterclockwise and insert the saw blade to the desired position

- Lock the saw blade in place by turning the key clockwise until secure. Ensure the blade is firmly tightened. To remove the blade, loosen the screw and remove.

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>POWER CONSOLE HAS NO POWER</b>	Fuse is damaged	Please contact Customer Service
	Power supply is damaged	Please contact Customer Service
	Console power cable is not properly inserted	Re-insert the cable into the console
<b>HANDPIECE DOES NOT WORK</b>	Power console is not powered ON	Turn ON the power
	Handpiece is not connected or poor contact with power console	Remove and reconnect the handpiece. If this does not correct the problem, please contact Customer Service
	Foot pedal is not connected or poor contact with power console	Remove and reconnect the foot pedal. If this does not correct the problem, please contact Customer Service
	Safety button on the foot pedal is in LOCK mode (Green light OFF)	Press the safety button (Green) to unlock the foot pedal.
	Port switch on the power console is not switched to the corresponding port color or the switch is damaged	Turn the port switch to the corresponding port color. If this does not correct the problem, please contact Customer Service
	PCB fault	Please contact Customer Service
	PCB fault	Please contact Customer Service
<b>HANDPIECE WORKS WITH THE FOOT PEDAL IN LOCK MODE</b>	PCB fault	Please contact Customer Service
<b>HANDPIECE STOPS SUDDENLY</b>	Overload protection is activated	Wait until the handpiece has cooled down
<b>NO IRRIGATION FLUID COMING OUT FROM THE TUBE</b>	Tube is jammed in the pump	Open the pump and readjust the tube, make sure the tube is within the V shape aperture
	The pump is damaged	Please contact Customer Service

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>CAN NOT INSERT THE MODULE ON THE HANDPIECE</b>	Handpiece twist lock is locked	Turn the handpiece twist lock to UNLOCK
<b>MODULE IS LOOSE</b>	Handpiece twist lock is locked	Turn the handpiece twist lock to UNLOCK
<b>IRRIGATION BUTTON'S LIGHT IS ON, BUT THE PUMP DOES NOT WORK</b>	PCB fault	Please contact Customer Service
<b>IRRIGATION BUTTON'S LIGHT IS OFF, BUT THE PUMP WORKS</b>	PCB fault	Please contact Customer Service
<b>SAFETY BUTTON'S LIGHT IS ON, BUT THE HANDPIECE DOES NOT WORK</b>	PCB fault	Please contact Customer Service
<b>SAFETY BUTTON'S LIGHT IS OFF, BUT THE HANDPIECE WORKS</b>	PCB fault	Please contact Customer Service
<b>FORWARD/REVERSE BUTTON'S LIGHT IS ON, BUT THE HANDPIECE WORKS CLOCKWISE (FORWARD)</b>	PCB fault	Please contact Customer Service









# FJ 2000™

## POWER CONSOLE SYSTEM

PATENTED, DESIGNED & EXCLUSIVELY DISTRIBUTED BY

Exclusively foot & ankle  
**Paragon<sup>28</sup>**®

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Refer to [www.paragon28.com/ifus](http://www.paragon28.com/ifus) for the complete  
and most current instructions for use document

### DISCLAIMER

The purpose of the FJ 2000™ Product Manual is to demonstrate the optionality and functionality of the FJ 2000™. Although variations in the use of the FJ 2000™ can be performed, the options demonstrated in this technique were chosen to demonstrate the functionality of the system and for simplicity of explanation. Other uses for the FJ 2000™ can be employed, appropriate for the use of the device. Federal law (U.S.A.) restricts this device to sale and use by, or on order of, a physician.

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