

Tip Guide

Contact Tips for AdvErL EVO



Thinking ahead. Focused on life.

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The following symbols and expressions indicate the degree of danger and harm that could result from ignoring the corresponding instructions:



This alerts the user of the possibility of minor or moderate injury or damage to the device.

This informs the user of important points concerning operation or the risk of device damage.

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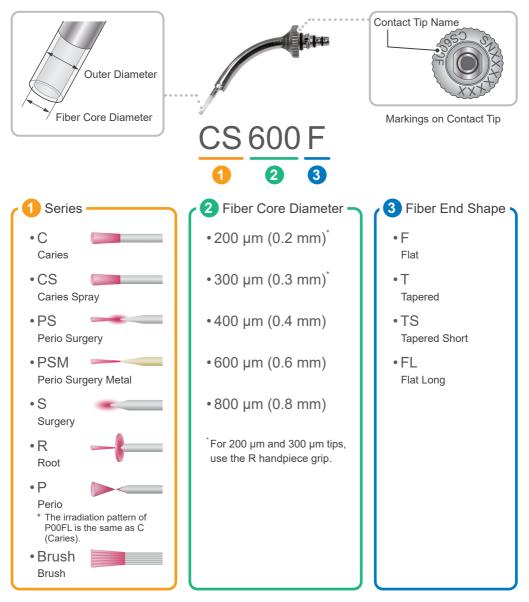
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Table of Contents

Design	4
Description of Contact Tip Name	4
Relation between Fiber Core Diameter and Laser Beam Characteristics.	5
Setup	6
Parts Identification	6
Contact Tip Attachment	7
Operation	8
Applicable Treatments	8
Treatment Guideline	9
How to Use the Treatment Guideline	9
Treatment Guideline	10
Hard Tissue	10
Periodontal Tissue	11
Implant	13
Soft Tissue	14
List of Recommended Contact Tips for Each Treatment	16
Tip Lineup	18
C (Caries)	18
CS (Caries Spray)	19
PS (Perio Surgery)	20
PSM (Perio Surgery Metal)	21
S (Surgery)	21
R (Root)	
P (Perio)	23
Brush	
Reprocessing	24
Contact Tips	24
Items	26
List of Contact Tips	
List of Handpiece Grips	
List of O-ring Sets	27

Design

Description of Contact Tip Name



Relation between Fiber Core Diameter and Laser Beam Characteristics

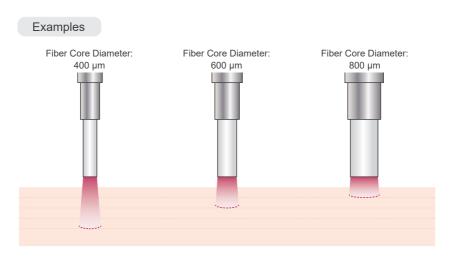


A laser beam is a single wavelength light beam that travels in one direction, and its irradiation pattern can be changed by the fiber end shape of the contact tip. For that reason, as the distance from the end of the contact tip increases, the amount of energy per unit area decreases.

The energy density (J/cm²) is inversely proportional to the fiber core diameter.

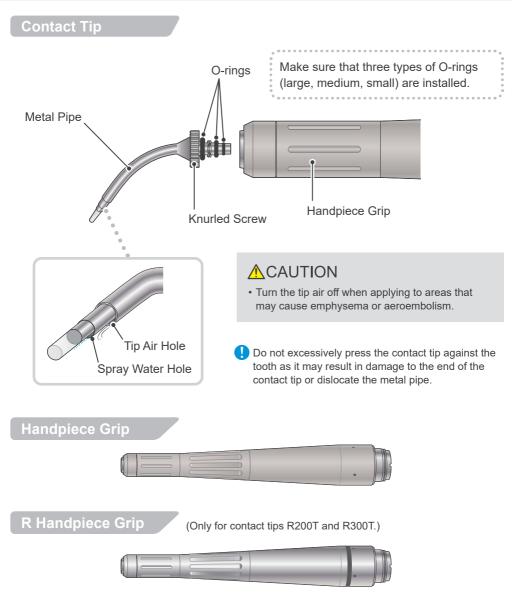
A smaller fiber core diameter has a higher energy density, and a thicker fiber core disperses energy.

This means using a thin fiber core diameter contact tip can vaporize narrow and deep areas, and using a thick fiber core diameter can vaporize wide and shallow areas.

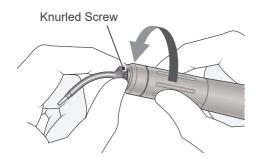


Setup

Parts Identification

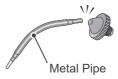


Contact Tip Attachment



Holding the knurled screw of the contact tip, rotate the handpiece grip to screw the contact tip all the way in.

Never hold the metal pipe; this could damage the contact tip.

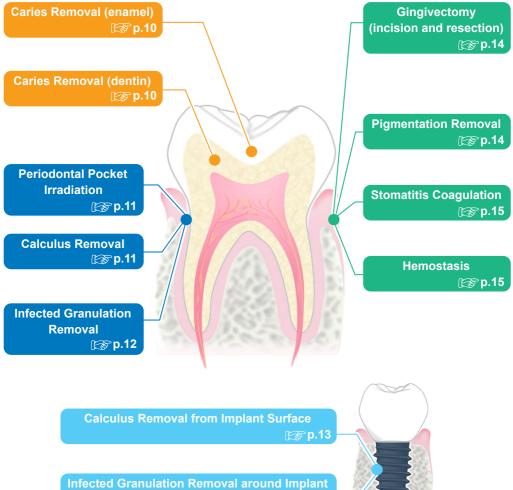


- Always attach the contact tip while the AdvErL EVO is in "Stand-by" mode or the key switch on the AdvErL EVO is in the "OFF" position.
- Do not emit a laser when the end of the contact tip is dirty; this may result in overheating the contact tip. This is extremely dangerous, especially when turning off the spray water and tip air, as the contact tip generates heat even if there is only a little dirt on it.
- Contact tips are consumable parts. Be sure to perform a pre-use inspection and make sure to replace it with a new one when you find any of the following conditions. Otherwise, the use of worn out contact tips may result in overheating and may burn the patient.
 - · If the end of the contact tip is chipped or worn out
 - · If the output seems lower than normal
 - · If the guide light is dim or does not appear at all
 - · If the guide light pattern is different from when it was new

Do not process (polish, cut, etc.) the end of the contact tip; this may damage the contact tip.

Operation

Applicable Treatments

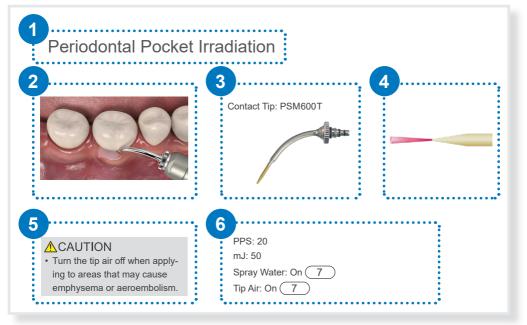


vai around implant

Treatment Guideline

How to Use the Treatment Guideline

The following is an example and explanation.



Treatment name

Treatment image

Recommended contact tip (reference information)

The most suitable contact tip for this treatment among the accessories is listed. For other recommended contact tips, see p.16 "List of Recommended Contact Tips for Each Treatment" You can select a contact tip as the occasion demands.

- 4 Laser beam irradiation pattern
 - Precautions
- 6 Recommended settings (reference information) Adjust the energy level setting as necessary.

Treatment Guideline



Hard Tissue

Effectiveness: Vaporization

Caries Removal (enamel)



Contact Tip: CS 600 F



PPS: 20 mJ: 100 Spray Water: On 7 Tip Air: On 7

Caries Removal (dentin)



Contact Tip: CS 600 F



PPS: 25 mJ: 50 Spray Water: On 7 Tip Air: On 7





Scan the QR code for video instruction.

Periodontal Tissue

Effectiveness: Incision, Vaporization

Periodontal Pocket Irradiation



Contact Tip: PSM 600 T



▲CAUTION

• Turn the tip air off when applying to areas that may cause emphysema or aeroembolism.

PPS: 20
mJ: 50
Spray Water: On 7
Tip Air: On 7

Calculus Removal



▲CAUTION

• Turn the tip air off when applying to areas that may cause emphysema or aeroembolism.

Contact Tip: PS600T



PPS: 20 mJ: 50 Spray Water: On 7 Tip Air: On 7

Treatment Guideline



Infected Granulation Removal



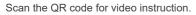
• Turn the tip air off when applying to areas that may cause emphysema or aeroembolism.

Contact Tip: PS600T



PPS: 20 mJ: 50 Spray Water: On 7 Tip Air: On 7









Calculus Removal from Implant Surface



Contact Tip: PS600T



PPS: 20 mJ: 40 Spray Water: On 7 Tip Air: On 7

Infected Granulation Removal around Implant



Contact Tip: PS600T



PPS: 20 mJ: 50 Spray Water: On 7 Tip Air: On 7

Treatment Guideline



Soft Tissue

Effectiveness: Incision, Hemostasis, Coagulation, Vaporization

Gingivectomy (incision and resection)





ACAUTION

• Turn the tip air off when applying to areas that may cause emphysema or aeroembolism.

PPS: 20 mJ: 40 Spray Water: On 7 Tip Air: On 7

Contact Tip: S 600 T

Pigmentation Removal



Contact Tip: CS 600 F



PPS: 20 mJ: 40 Spray Water: On 7 Tip Air: On 7



Scan the QR code for video instruction.



Stomatitis Coagulation



Contact Tip: CS 600 F



PPS: 10 mJ: 30 Spray Water: Off Tip Air: Off

Hemostasis



Contact Tip: CS 600 F



PPS: 20 mJ: 40 Spray Water: Off Tip Air: Off

Treatment Guideline

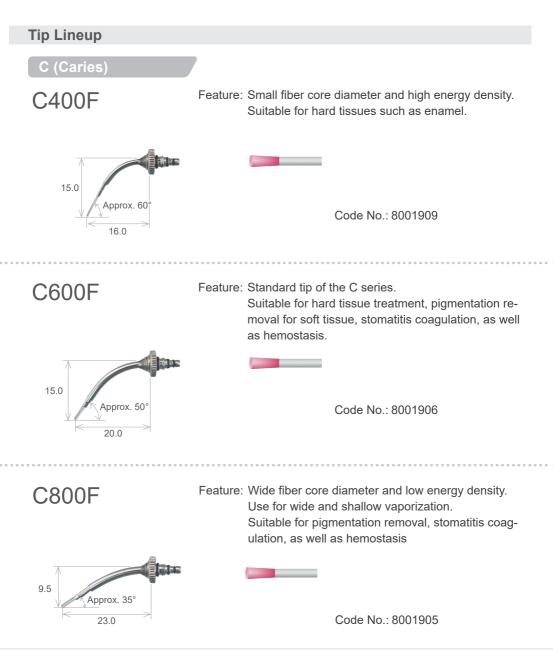
List of Recommended Contact Tips for Each Treatment

- \checkmark ... Suitable contact tip for the treatment.
- \precsim ... Contact tip included with the AdvErL EVO.

		С		CS	
		☆ C400F	☆ C600F	☆ C800F	CS600F
Hard Tissue	Caries Removal (enamel)	\checkmark	\checkmark		\checkmark
	Caries Removal (dentin)	\checkmark	\checkmark	\checkmark	\checkmark
	Periodontal Pocket Irradiation	\checkmark			
Periodontal Tissue	Calculus Removal				
	Infected Granulation Removal				
Implant	Calculus Removal from Implant Surface		\checkmark		\checkmark
Implant	Infected Granulation Removal around Implant		\checkmark		\checkmark
	Gingivectomy (incision and resection)	\checkmark			
Soft Tissue	Pigmentation Removal		\checkmark	\checkmark	\checkmark
	Stomatitis Coagulation		\checkmark	\checkmark	\checkmark
	Hemostasis		\checkmark	\checkmark	\checkmark
	Reference Page		p. 18		p. 19

	F	PS		PSM	S	R	I	Ρ
PS400T	☆ PS400TS	☆ PS600T	☆ PS600TS	PSM600T	☆ S600T	R600T	P400T	P400FL
								\checkmark
								\checkmark
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	p. 20			p. 21		p. 22	p.	23

Tip Lineup



CS (Caries Spray)

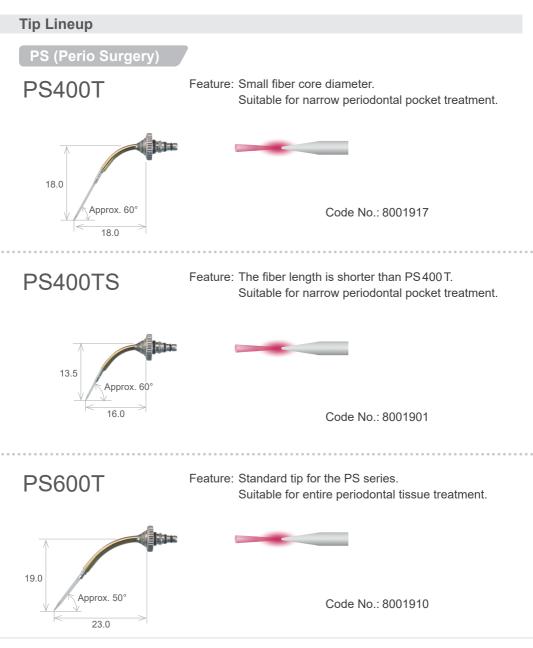
CS600F

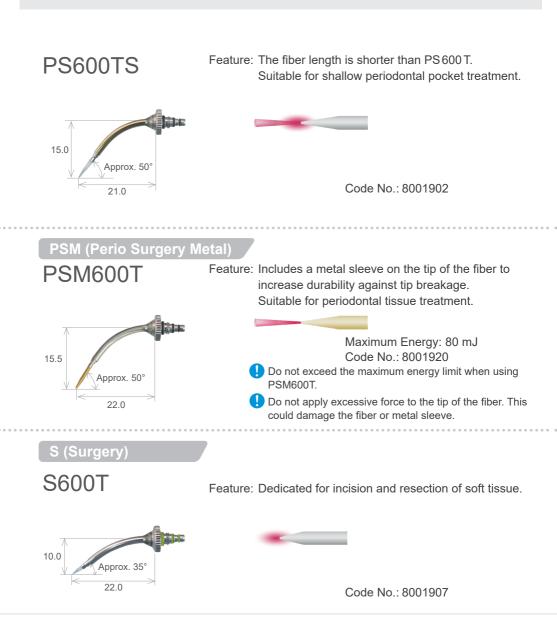


Feature: Spray water has a fine, misty quality so that water is delivered uniformly. Vaporization efficiency is higher than C 600 F.

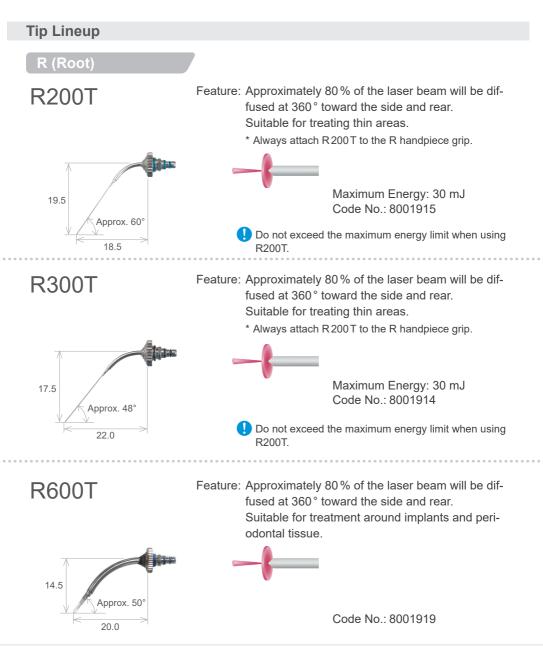
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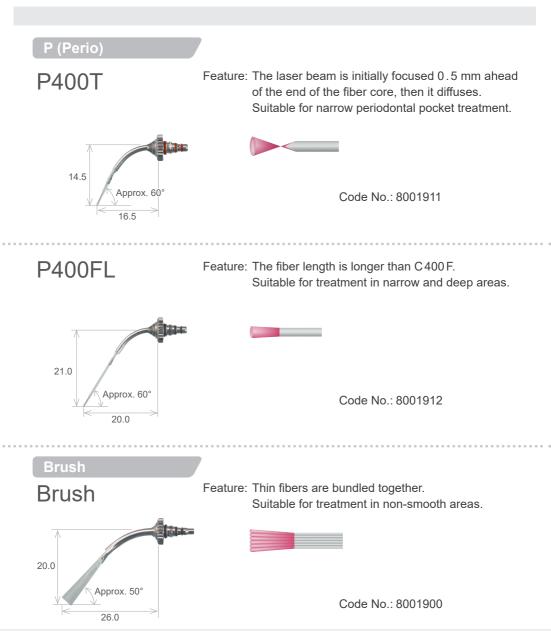
Tip Lineup





Tip Lineup

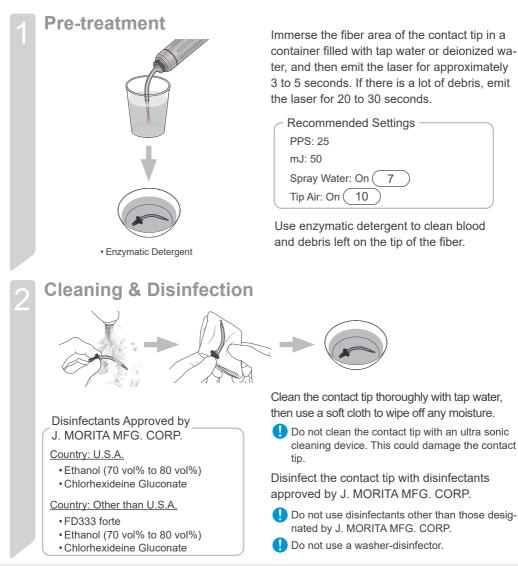




Reprocessing

Contact Tips

Be sure to perform the reprocessing procedures in the following order after use with each patient. (Refer to the accompanying Instructions for Use for the AdvErL EVO.)





Place the contact tips individually in a sterilization pouch, or store the contact tips in the tip stand and place it in a sterilization pouch.

- Use sterilization pouches that conform to ISO 11607.
- The end of the contact tip is fragile and easily chipped; handle with care. When using the tip stand, place the end of the contact tip facing down.

Sterilization

- Recommended Autoclave Settings

Country: U.S.A.

Sterilizer Type	Temperature	Time
Gravity	+135°C (+275°F)	10 to 15 min

Country: Other than U.S.A.

Sterilizer Type	Temperature	Time
Dynamic Air Removal	+134°C (+273.2°F)	5 min
Gravity	+135°C (+275°F)	5 min

Autoclave the autoclavable parts.

- Be sure to complete the clean and disinfection steps before autoclaving the parts.
- The setting temperature for sterilization and drying process must be +135°C (+275°F) or lower. If the temperature is set beyond +135°C (+275°F), it may cause damage to or stain the parts.
- Do not sterilize the parts by any method other than autoclaving.

Items

List of Contact Tips

Series	Name	Code No.	Ref. Page
	C400F	8001909	
С	C600F	8001906	p. 18
	C800F	8001905	
CS	CS600F	8001918	p.19
	PS400T	8001917	
PS	PS400TS	8001901	p. 20
FJ	PS600T	8001910	
	PS600TS	8001902	
PSM	PSM600T	8001920	p. 21
S	S600T	8001907	
	R200T	8001915	
R	R300T	8001914	p. 22
	R600T	8001919	
Р	P400T	8001911	
F	P400FL	8001912	p. 23
Brush	Brush	8001900	

List of Handpiece Grips

Name	Code No.	Ref. Page	
Handpiece Grip	8001733	5	
R Handpiece Grip	8001736	p.6	

List of O-ring Sets * Each set contains three O-rings; one each of large, medium, and small.

Contact Tip	Name	Code No.	Color
C400F			
C600F			
C800F			
CS600F			\cap°
PS400T	Contact Tip O-ring Black	8001756	$\mathcal{O}_{\mathcal{O}}$
PS400TS		8001750	
PS600T			
PS600TS			
PSM600T			
Brush			
R300T	Contact Tip O-ring R300T Black	8001758	\circ°_{O}
R200T	Contact Tip O-ring R200T Blue	8001863	0°0
R600T	Contact Tip O-ring R600T Blue	8001861	\circ°_{\bigcirc}
S600T	Contact Tip O-ring S00T Green	8001864	\circ°_{\bigcirc}
P400T	Contact Tip O-ring P400T, P600 Red	8001860	\circ°_{\bigcirc}
P400FL	Contact Tip O-ring Black	8001756	\circ°_{\bigcirc}



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