



Instruments for Professionals

# Instruments for Electrosurgery

2022



# INTRODUCTION

Welcome to the world of Royal International an ISO 9001-2008 Company with CE Certified. We provide Products & Services that dates back to 1973. As Turnkey Manufacturers, We export and distribute an extensive range of tweezers and forceps in different categories.

Our Company is recognized as one of India's leading players in both the international and national markets. One of our main selling points is on the precision of quality at each stage, right from the selection of raw material to the making of tweezers. At Royal International, each product undergoes the almost stringent quality test to determine in durability of the products that we supply.

Our work ethic comprises a deep-rooted belief of soaring above the competitions and of passionate dedication towards the client, our huge array of testimonials and client reports demonstrate Royal International,s ability to delight its customers in various continents to which it exports.

We very much look forward to hearing from you in order for us to tell you more about our company and its products and we hope that you will give us a chance to show you what we are made of.

Royal International is a known company for the production of tweezers and forceps in PRECISION WITH PASSION.

Brand:

1. Alis



## **Material Use in Manufacturing :**

### **Material used in Blanks :**

Inox 08 is a medical stainless steel composed of C, Mn, Cr, Mo and V that provides to corrosion and a good resistance to salt. Although not as hard as carbon steels, Inox 08 offers excellent resistance to corrosion. This magnetic alloy supports temperatures of around 40 Degree C(DIN 50914) and is suitable for autoclave sterilization at 180 degree C.

Inox 05 is a medical stainless steel composed of C, Mn, P, S and Si, Cr. This magnetic alloy supports temperatures of around 320 degree C and is suitable for autoclavable sterilization at 154 degree C.

Antimagnetic 10 is composed of C, Cr, Ni and Mo. It offer a good resistance to corrosion thanks to its high concentration of molybdenum and is 80% antimagnetic but it is not as hard as Inox. Antimagnetic is resistance up to temperatures of around 400 degree Celsius DIN 50914) and is suitable for autoclave sterilization at 270 degree Celsius.

Antimagnetic 4 is composed of C, Mn, P, S, Si, Cr, Ni and N, if offers a good resistance to corrosion. This antimagnetic is also not as hard as Inox but harder than antimagnetic 10. This antimagnetic alloy supports temperature of around 400 degree Celsius and is suitable for autoclavable sterilization at 200 degree Celsius.

Titanium is an alloy composed of C, Fe, O, H, N and Ti. It is totally resistant to corrosion from nitric acid, chloride, salt water and the like. this alloy is not as hard as Inox 08 but is 40% lighter and more flexible, Titanium 100% antimagnetic and resistance up to temperatures of around 430 degree Celsius.

### **Material used in Connectors:**

Acetyl Insulator & Stainless Steel (Grade 316) contacts.

### **Material used in cables:**

Silicon insulated 3.5mm O/D with 384 standard of 0.5 timed copper wires(Monopolar Cables) Bipolar Disposable cable PVC insulated 2812 x 2 x 0.5mm.

### **Material used in Insulation:**

Nylon & Epoxy Polyester, Thickness>0.1mm throughout.

### **Material used in Contacts:**

Polished stainless steel

Electrical performance and suitability. The product has been design in accordance with relevant standards and is suitable for use with all suitable Electro surgery Generators and connective instruments. All products are latex free in construction.

### **Warranty:**

All instruments are guarantee to be free from defects in material of workmanship. Should a defect be found the instruments will be replaces with any instruments of equal value that for choose.

### **Product Liability:**

All instruments are manufactured to meet the highest quality standard. We can not accept any liability for the failure of product where we have been modified in the way from any way from their original state not for any failure to misuse application which is not accordance with the design the designer's intention.

### **Compatibility:**

All instruments are compatible with almost all electro surgical generators currently on the market.

### **Custom Manufacturing:**

We can also manufacture any instrument according to your particulars and specifications. We welcome enquiry of instruments not shown in our catalogue.

### **Autoclave / Cleaning / Sterilization Method(Reusable Instruments Only):**

All reusable instruments are completely autoclavable. For further information see manufactures recommendations for sterilizations and AAMI standards for hospital steam sterilization.

Autoclaving wrapped sterilization at 115-138 degree C for 3-4 minutes with post drying and make sure heavy objects are not placed on the product during and whilst cooling down some autoclaves features a prior cycle this may be used if required.

**Below are some generally accepted guidelines for sterilization reusable instruments**

**Steam** : Steam autoclave at 250F/121 degree C for 20 minutes.

**Flash** : Steam autoclave at 275F/134 degree C for 10 minutes.

**Radiation** :The product can be exposed to Cobalt 60 Gamma radiations at up to 4 mega graded although a level of 2-3 is quite sufficient for through sterilization.

**Product life and Inspection Criteria(Reusable Instruments only)**

The product can be use for a considerable amount of time if it is routinely inspected

- A) Check plated metals contacts, these should be bright without corrosion
- B) Plastic connectors should be free from imperfection and distribution
- C) Cable insulation must be checked periodically to make sure product is safe for use, pay special attention to the exit point on the connectors as excessive bending can cause failure in this aired.
- D) All electric cables and instruments must be regularly checked for electrical continuity by the medical physics department to prevent possible failure whilst being used in surgery. If this is not possible continuity testers are available from your suppliers for on site testing.

**General Instruction for use:**

Follow recommended guidelines for power set up and connection and make sure instruments is pushed fully home into its socket prior to switching on. Always make sure adhesive plate connections are sound and secure in monopolar surgery to prevent any chance of burns in this area. Disposable mono and bipolar forceps can be used straight from their packaging as these are supplied sterile.

**Cleaning General:**

To remove blood & general grime, the product should be cleaned in a mild detergent prior to sterilization. Do not use solvents of any as this might effects plastic parts. The product may be cleaned using instrument cleaner using a 5 cycle process (Pre-rinse, wash, disinfect, RO rinse & dry) if this is a acceptable practice.

**Features**

**Benefits**

Highly polished tip	Reduce tissue adherence
Precision tip alignment	Fine control
Light closing force	Less fatigue
Well balanced	Easy to operate
Nylon coating	Resist abrasion, provide super insulation
Nylon coating regular or flash autoclave	Sterilization Flexibility

**Tip coating options:**

1. Top covered of tip platform
2. Top uncovered of tip platform

**Finish Options:**

1. Polished finish on tips and switch available(available in both coating options)
2. Matt finish tips and switch (available in both coating options)
3. Serrations on tips which guarantee a better grip(available in both coating options)
4. Mirror finish on tips and switch(available in both coating options)
5. Gold plated tips and switch(available in both coating options).

**Note:**

1. All regular bipolar forceps convert into irrigations forceps above 5"
2. All regular bipolar forceps convert into non stick forceps
3. All regular bipolar forceps convert into non stick forceps with irrigation above 5"
4. All regular bipolar forceps and monopolar forceps convert into disposable forceps
5. All regular bipolar forceps convert into non insulation shape
6. All bipolar artery sealer(Bi-Clamp) are available with locking and without locking
7. Loop electrodes
8. All regular forceps can be connected into center pin to avoid twisting of forceps from tips.



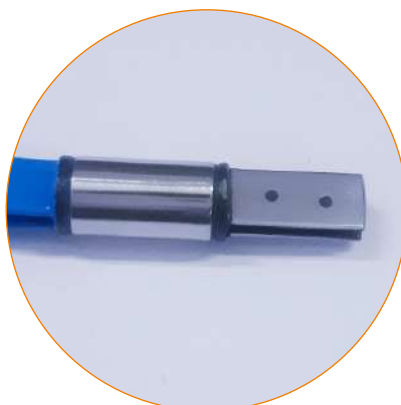
### **Specializations:**

1. Made in India
2. OEM manufacturing
3. Forceps repairing facility available
4. Specialize in replacing
5. We welcome the request of free forceps for any welfare institute(T & C apply)
6. Customers brands are available on request.
7. Known for the perfection with the cheapest development cost.
8. Known for the coating solutions on any products related to electro surgery and is also involved in coating labour process.

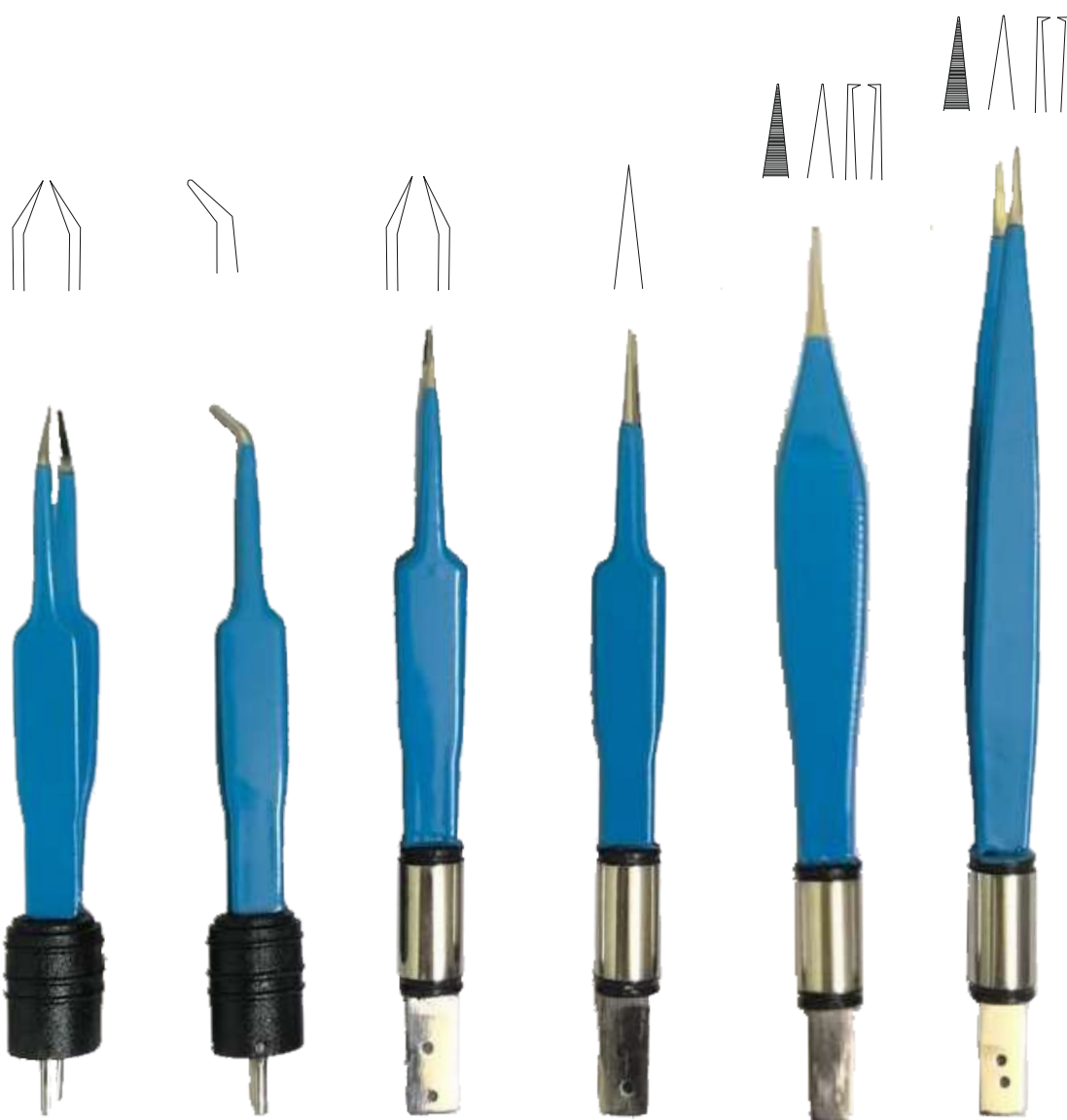
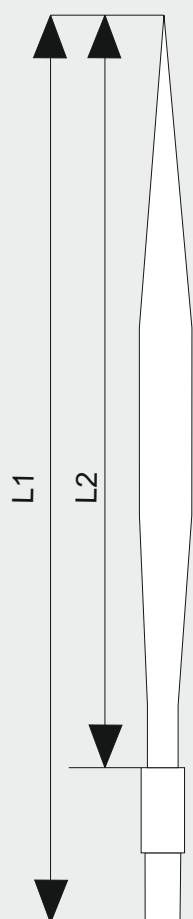
### **USES OF FORCEPS:**

- Radiology
- Cardiology
- Cautery
- Diathermy
- Neurology
- ENT
- Geneal Surgery
- Orthopaedic
- Gynae
- Ophthalmic
- Plastic Surgery
- Cancer Surgery
- Coagulation purpose

## **SWITCHES**



# BIPOLAR FORCEPS











Width of Tips	Plug	L1-110mm	L1-110mm	L1-120mm	L1-120mm	L1-130mm	L1-150mm
0.25 mm		AL-010-EL	AL-011-EL	AL-012-EL	AL-013-EL	AL-014-EL	AL-015-EL
		AL-020-EL	AL-021-EL	AL-022-EL	AL-023-EL	AL-024-EL	AL-025-EL
0.60 mm		AL-030-EL	AL-031-EL	AL-032-EL	AL-033-EL	AL-034-EL	AL-035-EL
		AL-040-EL	AL-041-EL	AL-042-EL	AL-043-EL	AL-044-EL	AL-045-EL
1.00 mm		AL-050-EL	AL-051-EL	AL-052-EL	AL-053-EL	AL-054-EL	AL-055-EL
		AL-060-EL	AL-061-EL	AL-062-EL	AL-063-EL	AL-064-EL	AL-065-EL

# BIPOLAR FORCEPS

## Straight

- ALL MODELS IN THIS SERIES ARE ALSO AVAILABLE IN NON-STICK, TITANIUM NON-STICK



Width of Tips	Plug	L1-150mm L2-115mm	L1-160 mm L2-125 mm	L1-180 mm L2-145 mm	L1-200 mm L2-165 mm	L1-220 mm L2-185 mm	L1-235 mm L2-200 mm
0.30 mm		AL-070-EL	AL-071-EL	AL-072-EL	AL-073-EL	AL-074-EL	AL-075-EL
		AL-080-EL	AL-081-EL	AL-082-EL	AL-083-EL	AL-084-EL	AL-085-EL
0.60 mm		AL-090-EL	AL-091-EL	AL-092-EL	AL-093-EL	AL-094-EL	AL-075-EL
		AL-100-EL	AL-101-EL	AL-102-EL	AL-103-EL	AL-104-EL	AL-105-EL
1.00 mm		AL-110-EL	AL-111-EL	AL-112-EL	AL-113-EL	AL-114-EL	AL-115-EL
		AL-120-EL	AL-121-EL	AL-122-EL	AL-123-EL	AL-124-EL	AL-125-EL
2.00 mm		AL-130-EL	AL-131-EL	AL-132-EL	AL-133-EL	AL-134-EL	AL-135-EL
		AL-140-EL	AL-141-EL	AL-142-EL	AL-143-EL	AL-144-EL	AL-145-EL

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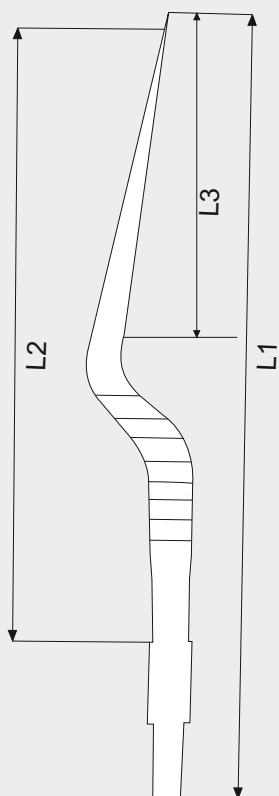
Width of Tips	Plug	L1-150 mm L2-115 mm	L1-160 mm L2-125 mm	L1-180 mm L2-145 mm	L1-200 mm L2-165 mm	L1-220 mm L2-185 mm	L1-235 mm L2-200 mm
0.30 mm		AL-150-EL	AL-151-EL	AL-152-EL	AL-153-EL	AL-154-EL	AL-155-EL
		AL-160-EL	AL-161-EL	AL-162-EL	AL-163-EL	AL-164-EL	AL-165-EL
0.60 mm		AL-170-EL	AL-171-EL	AL-172-EL	AL-173-EL	AL-174-EL	AL-175-EL
		AL-180-EL	AL-181-EL	AL-182-EL	AL-183-EL	AL-184-EL	AL-185-EL
1.00 mm		AL-190-EL	AL-191-EL	AL-192-EL	AL-193-EL	AL-194-EL	AL-195-EL
		AL-200-EL	AL-201-EL	AL-202-EL	AL-203-EL	AL-204-EL	AL-205-EL
2.00 mm		AL-210-EL	AL-211-EL	AL-212-EL	AL-213-EL	AL-214-EL	AL-215-EL
		AL-220-EL	AL-221-EL	AL-222-EL	AL-223-EL	AL-224-EL	AL-225-EL



# BIPOLAR FORCEPS

## Bayonet

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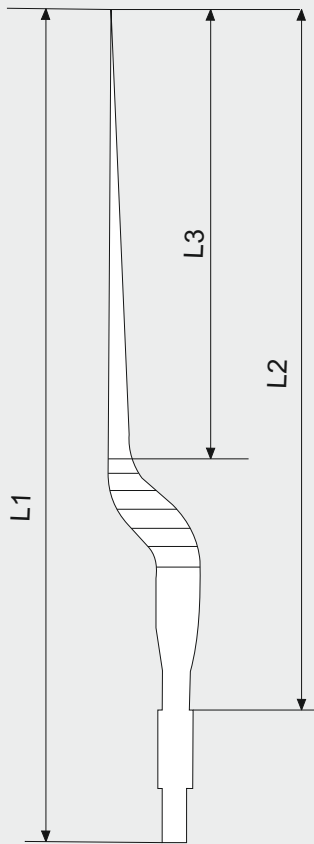


Width of Tips	Plug	L1-160 mm L2-125 mm L3-70 mm	L1-180 mm L2-145 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
0.30 mm		AL-230-EL	AL-231-EL	AL-232-EL	AL-233-EL	AL-234-EL
		AL-240-EL	AL-241-EL	AL-242-EL	AL-243-EL	AL-244-EL
0.60 mm		AL-250-EL	AL-251-EL	AL-252-EL	AL-253-EL	AL-254-EL
		AL-260-EL	AL-261-EL	AL-262-EL	AL-263-EL	AL-264-EL
1.00 mm		AL-270-EL	AL-271-EL	AL-272-EL	AL-273-EL	AL-274-EL
		AL-280-EL	AL-281-EL	AL-282-EL	AL-283-EL	AL-284-EL
2.00 mm		AL-290-EL	AL-291-EL	AL-292-EL	AL-293-EL	AL-294-EL
		AL-300-EL	AL-301-EL	AL-302-EL	AL-303-EL	AL-304-EL

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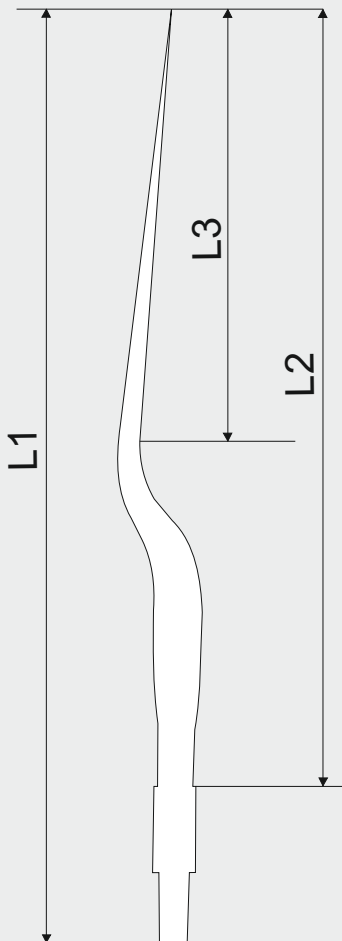


Width of Tips	Plug	L1-160 mm L2-135 mm L3-90 mm	L1-180 mm L2-155 mm L3-95 mm	L1-200 mm L2-175 mm L3-100 mm	L1-220 mm L2-195 mm L3-105 mm	L1-235 mm L2-200 mm L3-110 mm
0.30 mm		AL-310-EL	AL-311-EL	AL-312-EL	AL-313-EL	AL-314-EL
		AL-320-EL	AL-321-EL	AL-322-EL	AL-323-EL	AL-324-EL
0.60 mm		AL-330-EL	AL-331-EL	AL-332-EL	AL-333-EL	AL-334-EL
		AL-340-EL	AL-341-EL	AL-342-EL	AL-343-EL	AL-344-EL
1.00 mm		AL-350-EL	AL-351-EL	AL-352-EL	AL-353-EL	AL-354-EL
		AL-360-EL	AL-361-EL	AL-362-EL	AL-363-EL	AL-364-EL
2.00 mm		AL-370-EL	AL-371-EL	AL-372-EL	AL-373-EL	AL-374-EL
		AL-380-EL	AL-381-EL	AL-382-EL	AL-383-EL	AL-384-EL

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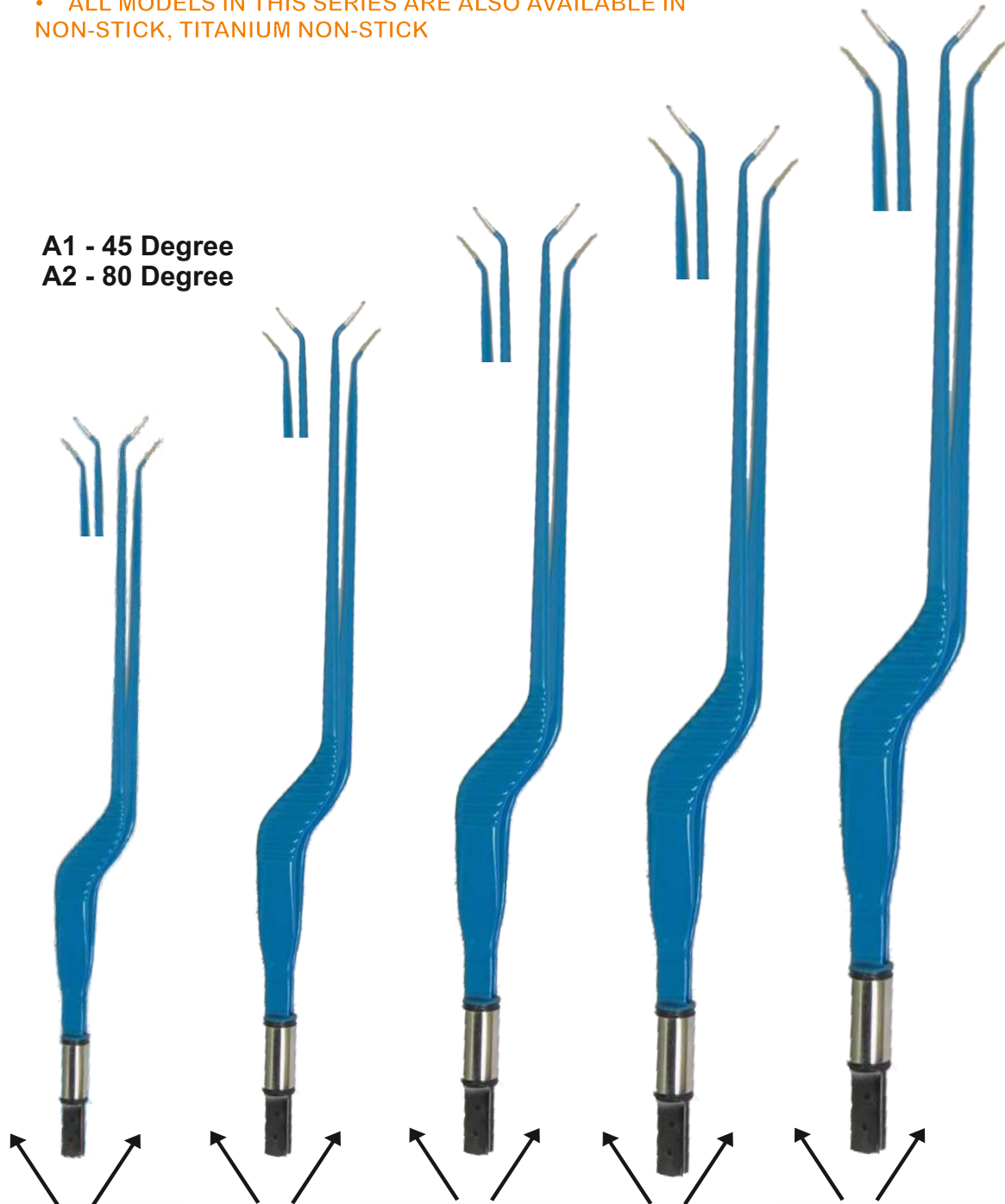
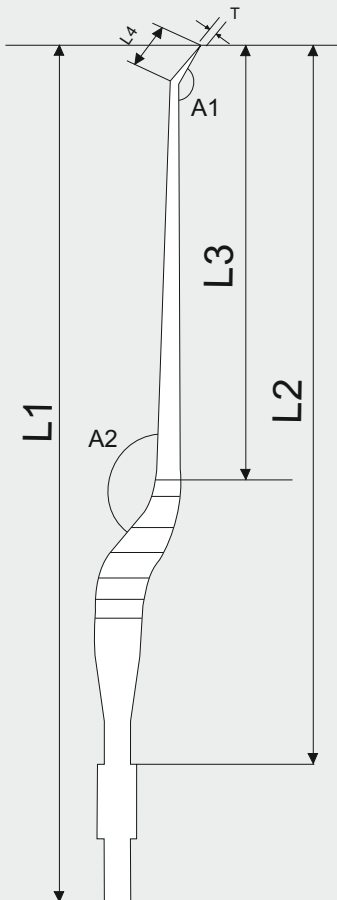
Width of Tips	Plug	L1-160 mm L2-125 mm L3-85 mm	L1-180 mm L2-145 mm L3-90 mm	L1-200 mm L2-165 mm L3-95 mm	L1-220 mm L2-185 mm L3-100 mm	L1-235 mm L2-200 mm L3-105 mm
0.30 mm		AL-390-EL	AL-391-EL	AL-392-EL	AL-393-EL	AL-394-EL
		AL-400-EL	AL-401-EL	AL-402-EL	AL-403-EL	AL-404-EL
0.60 mm		AL-410-EL	AL-411-EL	AL-412-EL	AL-413-EL	AL-414-EL
		AL-420-EL	AL-421-EL	AL-422-EL	AL-423-EL	AL-424-EL
1.00 mm		AL-430-EL	AL-431-EL	AL-432-EL	AL-433-EL	AL-434-EL
		AL-440-EL	AL-441-EL	AL-442-EL	AL-443-EL	AL-444-EL
2.00 mm		AL-450-EL	AL-451-EL	AL-452-EL	AL-453-EL	AL-454-EL
		AL-460-EL	AL-461-EL	AL-462-EL	AL-463-EL	AL-464-EL

# BIPOLAR FORCEPS

## Bayonet Angular Tip

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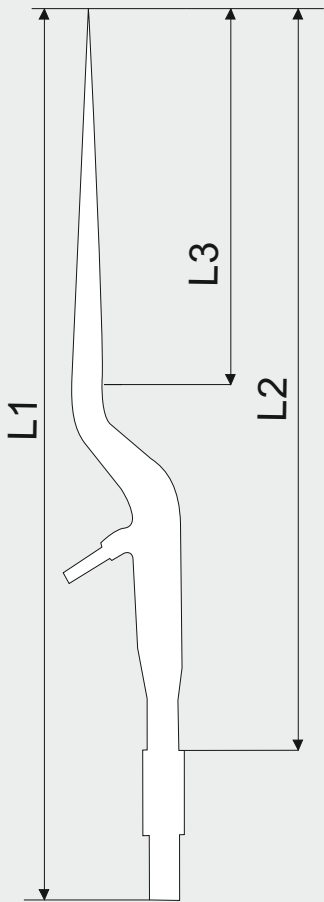
**A1 - 45 Degree**  
**A2 - 80 Degree**



Width of Tips	Plug	L1-160 mm L2-125 mm L3-90 mm	L1-180 mm L2-145 mm L3-95 mm	L1-200 mm L2-165 mm L3-100 mm	L1-220 mm L2-185 mm L3-105 mm	L1-235 mm L2-200 mm L3-110 mm
T - 0.30 mm L4 - 9 mm		AL-470-EL	AL-471-EL	AL-472-EL	AL-473-EL	AL-474-EL
		AL-480-EL	AL-481-EL	AL-482-EL	AL-483-EL	AL-484-EL
T - 0.60 mm L4 - 9 mm		AL-490-EL	AL-491-EL	AL-492-EL	AL-493-EL	AL-494-EL
		AL-500-EL	AL-501-EL	AL-502-EL	AL-503-EL	AL-504-EL
T - 1.00 mm L4 - 9 mm		AL-510-EL	AL-511-EL	AL-512-EL	AL-513-EL	AL-514-EL
		AL-520-EL	AL-521-EL	AL-522-EL	AL-523-EL	AL-524-EL
T - 2.00 mm L4 - 9 mm		AL-530-EL	AL-531-EL	AL-532-EL	AL-533-EL	AL-534-EL
		AL-540-EL	AL-541-EL	AL-542-EL	AL-543-EL	AL-544-EL

# BIPOLAR FORCEPS with Suction & Irrigation

- ALL MODELS IN THIS SERIES ARE ALSO AVAILABLE IN NON-STICK, TITANIUM

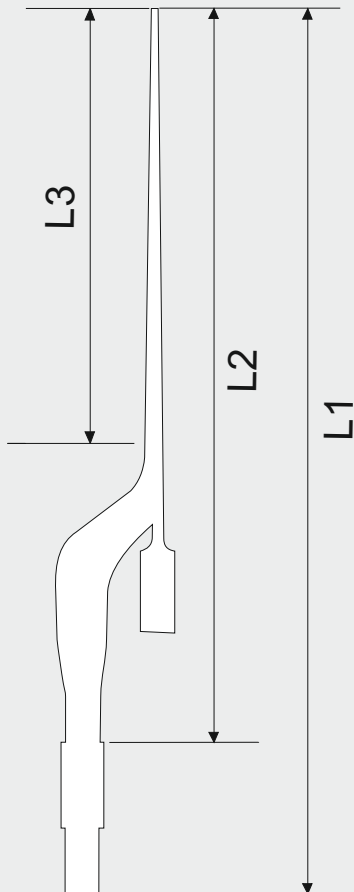


Width of Tips	Plug	L1-150 mm L2-115 mm L3-70 mm	L1-160 mm L2-125 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
T - 0.30 mm		AL-550-EL	AL-551-EL	AL-552-EL	AL-553-EL	AL-554-EL
		AL-560-EL	AL-561-EL	AL-562-EL	AL-563-EL	AL-564-EL
T - 0.60 mm		AL-570-EL	AL-571-EL	AL-572-EL	AL-573-EL	AL-574-EL
		AL-580-EL	AL-581-EL	AL-582-EL	AL-583-EL	AL-584-EL
T - 1.00 mm		AL-590-EL	AL-591-EL	AL-592-EL	AL-593-EL	AL-594-EL
		AL-600-EL	AL-601-EL	AL-602-EL	AL-603-EL	AL-604-EL
T - 2.00 mm		AL-610-EL	AL-611-EL	AL-612-EL	AL-613-EL	AL-614-EL
		AL-620-EL	AL-621-EL	AL-622-EL	AL-623-EL	AL-624-EL



# BIPOLAR FORCEPS with Suction

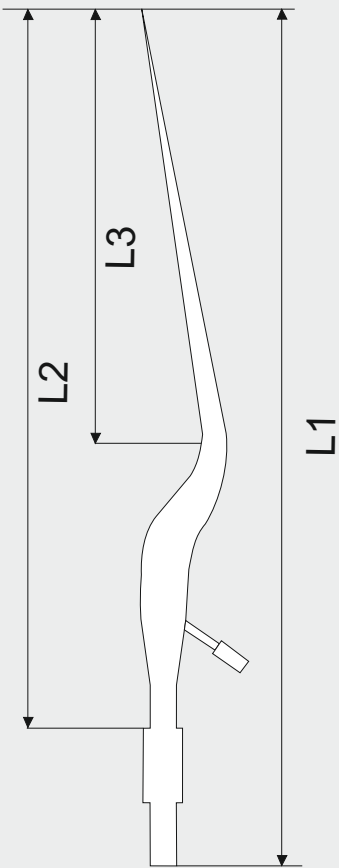
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Width of Tips	Plug	L1-150 mm L2-115 mm L3-70 mm	L1-160 mm L2-125 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
T - 0.30 mm		AL-630-EL	AL-631-EL	AL-632-EL	AL-633-EL	AL-634-EL
		AL-640-EL	AL-641-EL	AL-642-EL	AL-643-EL	AL-644-EL
T - 0.60 mm		AL-650-EL	AL-651-EL	AL-652-EL	AL-653-EL	AL-654-EL
		AL-660-EL	AL-661-EL	AL-662-EL	AL-663-EL	AL-664-EL
T - 1.00 mm		AL-670-EL	AL-671-EL	AL-672-EL	AL-673-EL	AL-674-EL
		AL-680-EL	AL-681-EL	AL-682-EL	AL-683-EL	AL-684-EL
T - 2.00 mm		AL-690-EL	AL-691-EL	AL-692-EL	AL-693-EL	AL-694-EL
		AL-700-EL	AL-701-EL	AL-702-EL	AL-703-EL	AL-704-EL

# BIPOLAR FORCEPS with Suction

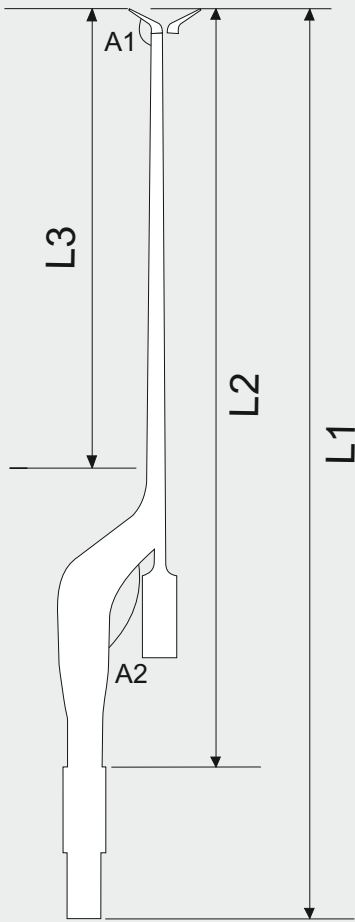
- ALL MODELS IN THIS SERIES ARE ALSO AVAILABLE IN NON-STICK, TITANIUM



Width of Tips	Plug	L1-165 mm L2-120 mm L3-75 mm	L1-180 mm L2-135 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
T -0.30 mm		AL-710-EL	AL-711-EL	AL-712-EL	AL-713-EL	AL-714-EL
		AL-720-EL	AL-721-EL	AL-722-EL	AL-723-EL	AL-724-EL
T -0.60 mm		AL-730-EL	AL-731-EL	AL-732-EL	AL-733-EL	AL-734-EL
		AL-740-EL	AL-741-EL	AL-742-EL	AL-743-EL	AL-744-EL
T -1.00 mm		AL-750-EL	AL-751-EL	AL-752-EL	AL-753-EL	AL-754-EL
		AL-760-EL	AL-761-EL	AL-762-EL	AL-763-EL	AL-764-EL
T -2.00 mm		AL-770-EL	AL-771-EL	AL-772-EL	AL-773-EL	AL-774-EL
		AL-780-EL	AL-781-EL	AL-782-EL	AL-783-EL	AL-784-EL

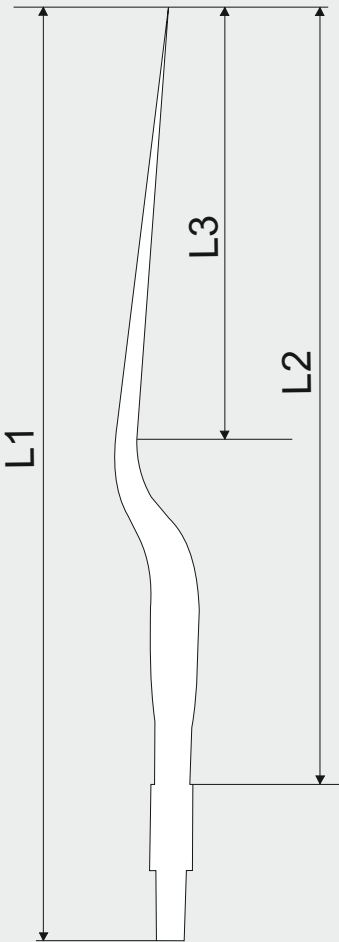
# BIPOLAR FORCEPS with Suction

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Width of Tips	Plug	L1-150 mm L2-115 mm L3-70 mm	L1-160 mm L2-125 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
T - 0.30 mm		AL-1240-EL	AL-1241-EL	AL-1242-EL	AL-1243-EL	AL-1244-EL
		AL-1250-EL	AL-1251-EL	AL-1252-EL	AL-1253-EL	AL-1254-EL
T - 0.60 mm		AL-1260-EL	AL-1261-EL	AL-1262-EL	AL-1263-EL	AL-1264-EL
		AL-1270-EL	AL-1271-EL	AL-1272-EL	AL-1273-EL	AL-1274-EL
T - 1.00 mm		AL-1280-EL	AL-1281-EL	AL-1282-EL	AL-1283-EL	AL-1284-EL
		AL-1290-EL	AL-1291-EL	AL-1292-EL	AL-1293-EL	AL-1294-EL
T - 2.00 mm		AL-1300-EL	AL-1301-EL	AL-1302-EL	AL-1303-EL	AL-1304-EL
		AL-1310-EL	AL-1311-EL	AL-1312-EL	AL-1313-EL	AL-1314-EL

# BIPOLAR FORCEPS BAYONET - NON STICK



Width of Tips	Plug	L1-150 mm L2-115 mm L3-70 mm	L1-160 mm L2-125 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
T - 0.30 mm		AL-0110-NS	AL-0111-NS	AL-0112-NS	AL-0113-NS	AL-0114-NS
		AL-0120-NS	AL-0121-NS	AL-0122-NS	AL-0123-NS	AL-0124-NS
T - 0.60 mm		AL-0130-NS	AL-0131-NS	AL-0132-NS	AL-0133-NS	AL-0134-NS
		AL-0140-NS	AL-0141-NS	AL-0142-NS	AL-0143-NS	AL-0144-NS
T - 1.00 mm		AL-0150-NS	AL-0151-NS	AL-0152-NS	AL-0153-NS	AL-0154-NS
		AL-0160-NS	AL-0161-NS	AL-0162-NS	AL-0163-NS	AL-0164-NS
T - 2.00 mm		AL-0170-NS	AL-0171-NS	AL-0172-NS	AL-0173-NS	AL-0174-NS
		AL-0180-NS	AL-0181-NS	AL-0182-NS	AL-0183-NS	AL-0184-NS



# BIPOLAR FORCEPS STRAIGHT -NON STICK



Width of Tips	Plug	L1-150 mm L2-115 mm L3-70 mm	L1-160 mm L2-125 mm L3-75 mm	L1-200 mm L2-165 mm L3-80 mm	L1-220 mm L2-185 mm L3-85 mm	L1-235 mm L2-200 mm L3-90 mm
T - 0.30 mm		AL-0190-NS	AL-0191-NS	AL-0192-NS	AL-0193-NS	AL-0194-NS
		AL-0200-NS	AL-0201-NS	AL-0202-NS	AL-0203-NS	AL-0204-NS
T - 0.60 mm		AL-0210-NS	AL-0211-NS	AL-0212-NS	AL-0213-NS	AL-0214-NS
		AL-0220-NS	AL-0221-NS	AL-0222-NS	AL-0223-NS	AL-0224-NS
T - 1.00 mm		AL-0230-NS	AL-0231-NS	AL-0232-NS	AL-0233-NS	AL-0234-NS
		AL-0240-NS	AL-0241-NS	AL-0242-NS	AL-0243-NS	AL-0244-NS
T - 2.00 mm		AL-0250-NS	AL-0251-NS	AL-0252-NS	AL-0253-NS	AL-0254-NS
		AL-0260-NS	AL-0261-NS	AL-0262-NS	AL-0263-NS	AL-0264-NS





**BIPOLAR SCISSOR  
(STRAIGHT+CURVED)**

	150 mm	200 mm	210 mm
STRAIGHT	AL-790-EL	AL-791-EL	AL-792-EL
CURVED	AL-800-EL	AL-801-EL	AL-802-EL



**MONOOLAR SCISSOR  
(STRAIGHT+CURVED)**

	150 mm	200 mm	210 mm
STRAIGHT	AL-810-EL	AL-811-EL	AL-812-EL
CURVED	AL-820-EL	AL-821-EL	AL-822-EL



**BICLAMP WITH LOCK HANDLE  
(STRAIGHT+CURVED)**

	150 mm	200 mm	210 mm
STRAIGHT	AL-830-EL	AL-831-EL	AL-832-EL
CURVED	AL-840-EL	AL-841-EL	AL-842-EL



**BICLAMP  
(STRAIGHT+CURVED)**

	150 mm	200 mm	210 mm
STRAIGHT	AL-850-EL	AL-851-EL	AL-852-EL
CURVED	AL-860-EL	AL-861-EL	AL-862-EL

## ELECTRODES



**L-TYPE**

150mm	AL-940-EL
200mm	AL-940-EL



**BLUNT TIP**

150mm	AL-940-EL
200mm	AL-940-EL



**POINT TIP**

150mm	AL-940-EL
200mm	AL-940-EL



**ELECTRO PENCIL**

AL-1040-EL



**ELECTRO PENCIL** with Different Electrodes

AL-1050-EL



**SUCTION CANNULA**

AL-900-EL



**TONGUE DEPRESSOR**

AL-910-EL



**CURETTES**

AL-920-EL



**B.P. HANDLE  
NO.3 & NO.4**

AL-930-EL



**SINGLE**

**DOUBLE**

**SKIN HOOK**

AL-1020-EL

AL-1030-EL



**NASAL SPECULUM** (Small, Medium & Large)

AL-990-EL



**VAGINAL SPECULUM**  
Small, Medium, Large

AL-970-EL



**SIMS SPECULUM**  
Small, Medium, Large

AL-980-EL



**SPONGE HOLDING FORCEPS**  
200mm, 250mm

AL-1000-EL



**VULSELLUM FORCEPS**  
250mm

AL-1010-EL



**MONOPOLAR ARTERY FORCEPS  
STRAIGHT+CURVED**

	150 mm	200 mm	210 mm
<b>STRAIGHT</b>	AL-870-EL	AL-871-EL	AL-872-EL
<b>CURVED</b>	AL-880-EL	AL-881-EL	AL-882-EL



**VAGINAL WALL RETRACTOR**

AL-890-EL





**BIPOLAR CABLES**

AL-1060-EL



**MONOLAR CABLES**

AL-1070-EL



**TWO PIN CABLES**

AL-1080-EL



**TWO PIN BIPOLAR CABLES**

AL-1090-EL

# LITHO MED DIGITAL SERIES(AL-1100-EL)



## TECHNICAL SPECIFICATIONS

### CONTROL UNIT WITH LCD

Supply Voltage Operating  
Pressure Minimum  
Dimension  
Weight  
Pressure  
Air Inlet

210-240 VA.C 50 Hz  
0.8kg/cm Sq.  
113x215mmx200mm  
1.250Kg  
Digital Control  
Straight

## PROBES

URS Probe Size  
PCNL Probe Size  
BLADDER Probe Size

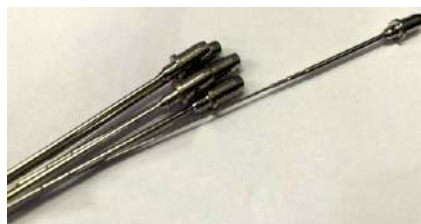
0.8mm, 1.0mm, 1.2mm  
2mm, 2.5mm  
1.5mm, 1.2mm

## COMPRESSOR

sLL-aLr 50/12  
501/min-1.77 CFM  
8bar-116 Psi

## PVC PIPES

6mm 3 meter  
8mm 3 meter



PROBES



OXYGEN  
REGULATOR



COMPRESSOR



FOOT SWITCH



PVC PIPE  
6mm & 8mm



2 HANDPIECE  
WITH SPARE HEAD

# **DISPOSABLES**

# DISPOSABLES



**Plastic Forceps**

P-001



**Plastic Forceps**

P-002



**Plastic Forceps**

P-003



**Plastic Forceps**

P-004



**Umbilical Cord Clamps**

P-005

## DISPOSABLES



**CUSCO SPECULUM**

AL-1100-EL



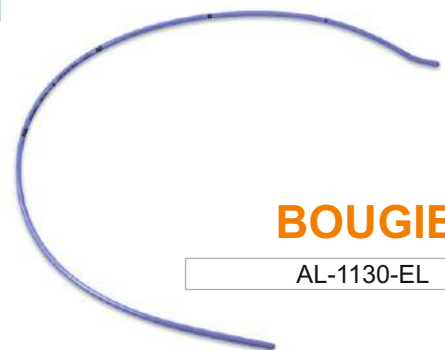
**PROCTOSCOPE**

AL-1110-EL



**SIMS SPECULUM**

AL-1120-EL



**BOUGIE**

AL-1130-EL



**STYLET**

AL-1140-EL



# DISPOSABLES



## **INCLUDES :**

- GYNAE DRAPE - 1
- DRAW SHEET - 1
- TOWEL - 1
- CORD CLAMP - 1
- GLOVES - 1
- SUTURE BAG - 1
- GOWN - 1
- LEGGING - 1 PAIR
- BOUFFANT CAP - 2

## **GYNAE / DELIVERY KIT**

AL-1150-EL

# **FIBER OPTIC INSTRUMENTS**

## FIBER OPTIC LIGHT SOURCE AND CABLE



**HALOGEN LIGHT SOURCE**  
DOUBLE OUTLET LIGHT SOURCE

AL-1160-EL



### FIBER OPTIC CABLE

#### YELLOW

AL-1170-EL	180cm x 4.5mm
AL-1180-EL	230cm x 4.5mm

#### BLUE

AL-1190-EL	180cm x 4.5mm
AL-1200-EL	230cm x 4.5mm

# FIBER OPTICS



**FIBER OPTIC LANGENBECK**

AL-1210-EL



**FIBER OPTIC SIMONS**

AL-1211-EL



**FIBER OPTIC DOYEN**

AL-1215-EL



**FIBER OPTIC MORRIS**

AL-1214-EL



**FIBER OPTIC DEAVER MINI LAP**

AL-1216-EL



**FIBER OPTIC DEAVER**

AL-1217-EL



**FIBER OPTIC SIMS**

AL-1225-EL



**FIBER OPTIC SIMS**

AL-1226-EL



**FIBER OPTIC CUSCOS**

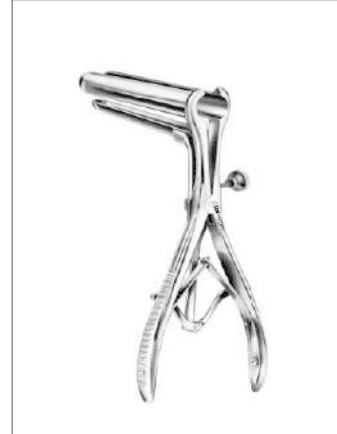
AL-1227-EL

# FIBER OPTICS



**FIBER OPTIC PROCTOSCOPE**

AL-1234-EL



**FIBER OPTIC MATHIEU**

AL-1235-EL



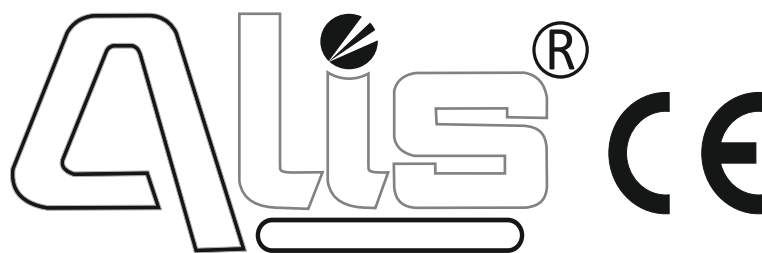
**FIBER OPTIC KILLIAN**

AL-1236-EL



**FIBER OPTIC BALFOUR**

AL-1220-EL



Instruments for Professionals

**MFG BY:**

**ROYAL INTERNATIONAL**

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