

BIPOLAR PENCILS

Kirwan Surgical Products manufactures a variety of bipolar pencils for performing pinpoint hemostasis in delicate tissue structures. The main feature of the bipolar pencil is the insulated wire and sleeve that form the coaxial harness assembly. The harness assembly extends from the rear pins and continues out the front of the instrument. The area of coagulation is restricted to the space between the two elements. This permits discrete coagulation without excessive damage to peripheral tissue structures.

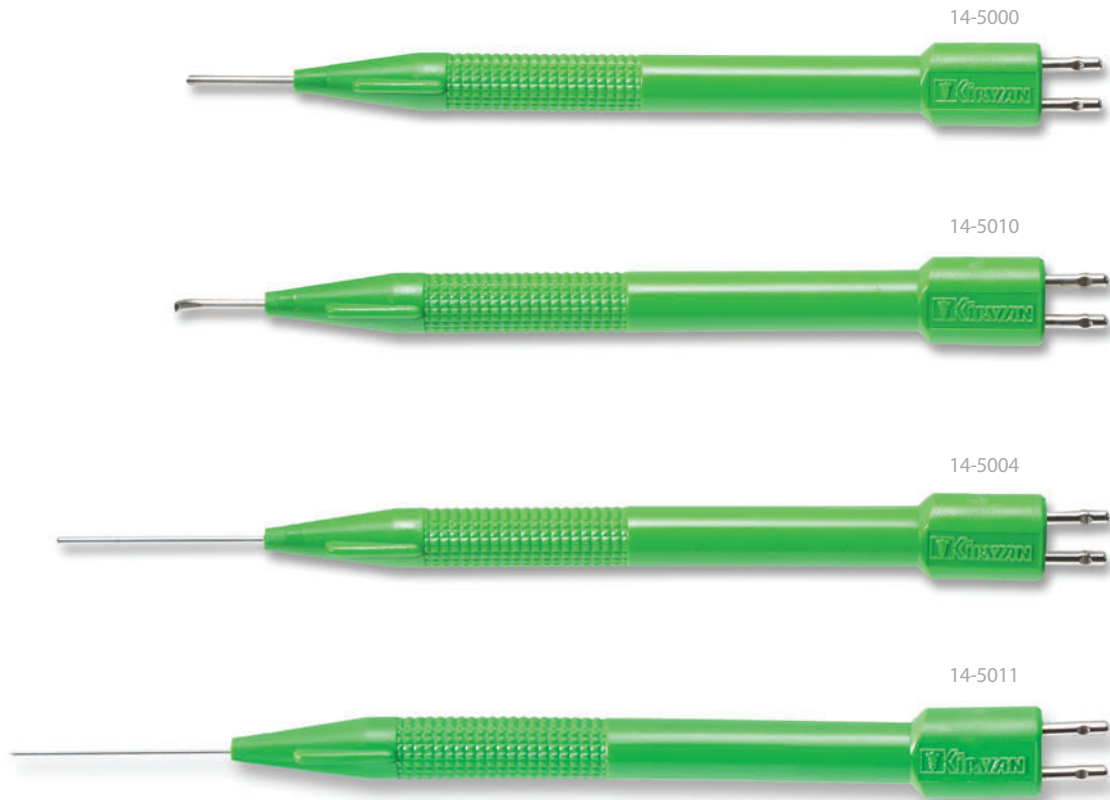
Bipolar pencils are single-piece injection molded – solid throughout.

The solid single-piece construction eliminates potential fluid seepage that could lead to a product failure. The seamless design provides electrical insulation to the internal components. The knurled finish on the exterior surface of the pencil gives a non-slip grip, and an indicator is located at 12:00 on the front end confirming tip orientation. The single piece design also allows the pencil to be injection molded with autoclavable materials for repeated use as well as low cost disposable materials. Most of the bipolar pencil product line is available in both reusable and disposable styles.

Bipolar pencils are manufactured in a variety of styles and wire gauges, including: 18 gauge, 20 gauge, 20/23 gauge tapered, 23 gauge, 25 gauge and 27 gauge.

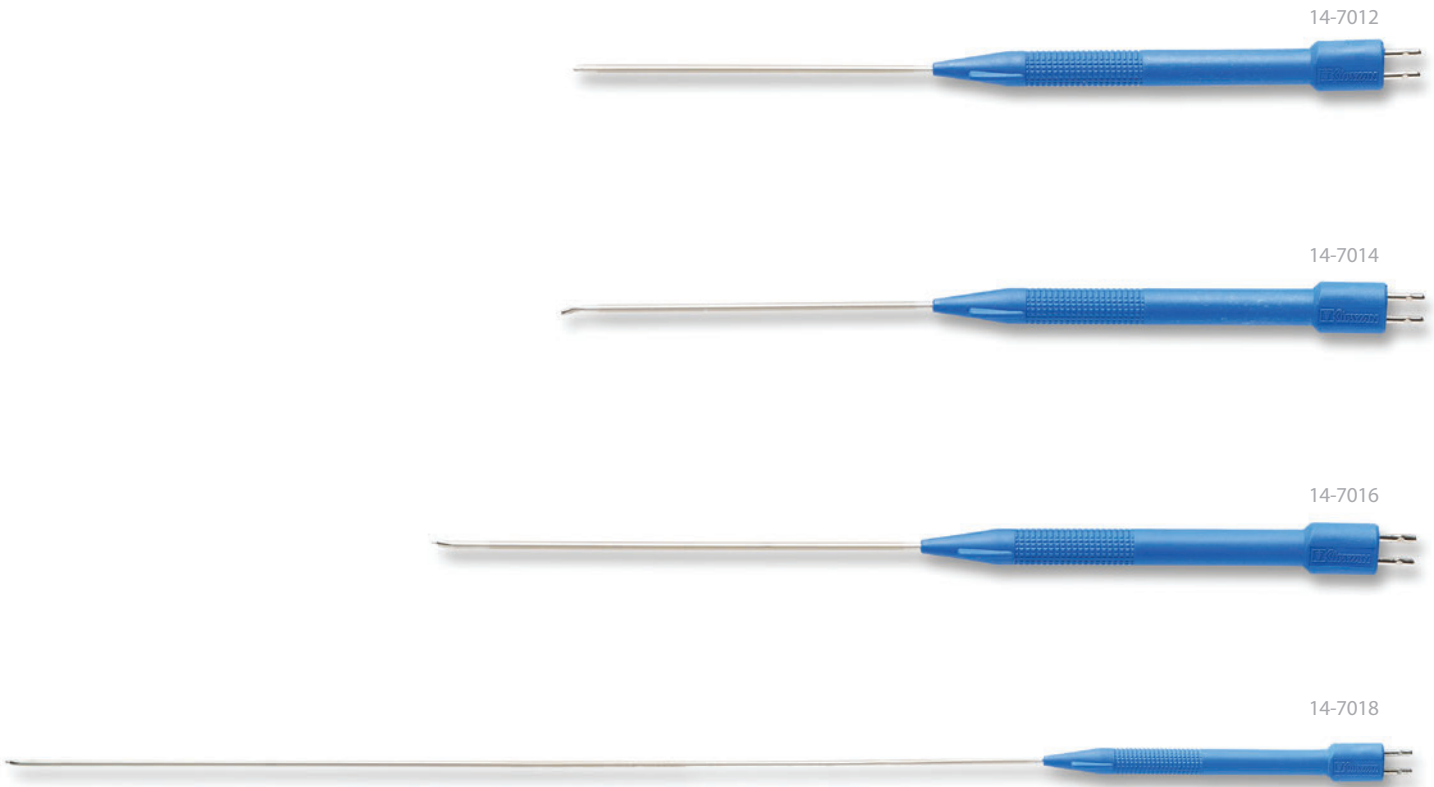
Reusable pencils:

The tip configurations and working lengths vary throughout the product line and, like all Kirwan reusable products, the features of the reusable bipolar pencils can be customized to suit any specific surgical indication.



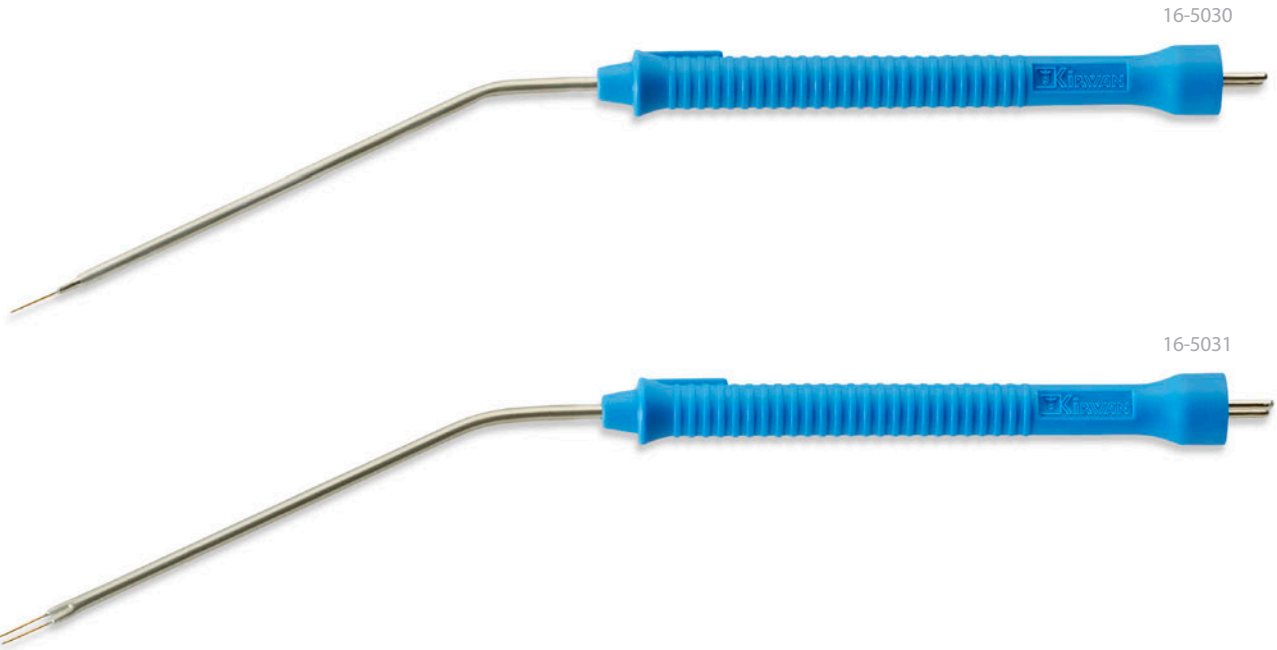
Disposable Bipolar Pencil

ITEM #	TOTAL LENGTH	DESCRIPTION	GAUGE	WORKING LENGTH	FEATURES
14-5000	-	Non-Stick, Straight	18	-	NS
14-5000N	-	Non-Stick, Straight, Black	18	-	NS
14-5002	-	Non-Stick, Curved	18	-	NS
14-5004	-	Straight	20	-	
14-5006	-	Tapered Tip, Sharp	20/23	-	
14-5006N	-	Tapered Tip, Sharp, Black	20/23	-	
14-5007	-	Straight	23	-	
14-5007L	-	Straight, Long	23	-	
14-5009	-	Tapered Tip, Blunt	20/23	-	
14-5010	-	Widestroke Dual Coag Non-Stick, 30° Angle	18	-	NS
14-5011	-	Straight	25	-	
14-5011L	-	Straight, Long	25	-	
14-5027	-	Straight	27	-	



Reusable TPR Bipolar Pencil

ITEM #	TOTAL LENGTH	DESCRIPTION	GAUGE	WORKING LENGTH	FEATURES
14-7000	-	Non-Stick, Straight	18	-	NS
14-7002	-	Non-Stick, Curved	18	-	NS
14-7006	-	Straight	20	-	-
14-7007	-	Straight	23	-	-
14-7008	-	Tapered Tip, Sharp	20/23	-	-
14-7009	-	Tapered Tip, Blunt	20/23	-	-
14-7010	-	Widestroke Dual Coag Non-Stick, 30° Angle	18	-	NS
14-7012	7" (17.8cm)	Sinusoidal Non-Stick, Straight	18	3" (7.6cm)	NS
14-7013	-	10mm Extended Center Tip	20	-	-
14-7014	7" (17.8cm)	Sinusoidal Non-Stick, Angled	18	3" (7.6cm)	NS
14-7016	8" (20.3cm)	Non-Stick, 10° Angled, Pencil Point Tip	18	4" (10.2cm)	NS
14-7017	12" (30.5cm)	Non-Stick, Dome tip	18	8" (20.3cm)	NS
14-7018	15 3/4" (40cm)	Non-Stick, 10° Angled, Pencil Point Tip	18	11 3/4" (29.8cm)	NS



Side by Side Probes

ITEM #	OVERALL LENGTH	DESCRIPTION	TIP	WORKING LENGTH	FEATURES
16-5030	8 1/4" (21cm)	Vertical	-	-	-
16-5031	8 1/4" (21cm)	Horizontal	-	-	-