



48UV50



3R181

Safety Wire Twister Pliers

Cut through tough stainless steel safety wire. Diagonal nose allows access in tight work areas. Automatic spring return pliers are ideal for aviation and other applications. Reversible pliers have right and left twist capability and meet SAE Aerospace Standard AS 567 twister requirements.



Description	Wire Size	Overall Length	Brand	Item No.
Individual Pliers				
1-Way Automatic Spring Return	0.020 in to 0.041 in	8 3/8 in	Proto	3R177
1-Way Automatic Spring Return	0.020 in to 0.060 in	10 3/8 in	Proto	3R178
Automatic Spring Return	0.020 in to 0.060 in	10 3/8 in	Proto	3R179
Reversible	0.020 in to 0.041 in	8 3/4 in	Proto	4JV75 *
Reversible	0.020 in to 0.060 in	11 in	Proto	4JV76 *
Safety Wire Twister Plier, Automatic	0.020 in to 0.060 in	10 1/2 in	Westward	48UV52
Safety Wire Twister Plier, Automatic	0.020 in to 0.060 in	10 3/8 in	Proto	3R182
Safety Wire Twister Plier, Automatic	0.020 in to 0.060 in	11 1/4 in	Westward	48UV50
Safety Wire Twister Plier, Automatic	0.020 in to 0.041 in	12 1/4 in	Proto	10G681 *
Safety Wire Twister Plier, Manual	0.020 in to 0.060 in	10 1/2 in	Westward	48UV51
3-Pc. Plier Set Includes 6 and 9" Wire Twister Pliers and Deep Reach Wire Twister w/Case				Proto 3R181
*Spring Return				



Thin Long Nose
Serrated Jaw Pliers



Diagonal
Cutter, Flush



Diagonal Cutter,
Semi-Flush

ESD Safe Pliers and Cutters



Description	Overall Length	Brand	Mr. Model	Item No.
Hard Wire Cutter	5 1/2 in	Xcelite	134CG	4CP16
Electronic Pliers, Straight, Stainless Steel	5 in	Knipex	78 03 125 ESD	5AHA8
Electronic Pliers, Straight w/Lead Catcher, Stainless Steel	4 1/2 in	Knipex	78 13 125 ESD	5AHC0
Short Chain Nose Pliers	5 in	Xcelite	LN225N	4CP33
Miniature Short Chain Nose Pliers	4 in	Xcelite	L4VN	6X088
Miniature Long Nose Pliers	4 in	Xcelite	L4GN	4CP30
Thin Long Nose Serrated Jaw Pliers	5 1/2 in	Xcelite	LN55VN	4CP39
Long Nose Side Cutter	5 1/2 in	Xcelite	SN55VN	4CP64
Diagonal Medium Head Cutter, Flush	4 1/2 in	Erem	522N	31AD33
Long Nose Plier	5 1/2 in	Westward	—	30PA88
Diagonal Cutting Plier, Flush	5 1/4 in	Westward	—	30PA90
Diagonal Cutting Plier, Semi-Flush	4 1/4 in	Westward	—	30PA91
Bent Long Nose Plier	4 3/8 in	Westward	—	30PA98
Flat Nose Plier	4 3/8 in	Westward	—	30PC01
Plier Sets				
4-pc. Mini Pliers Set	—	Proto	J2804SMP	2TJ50
6-pc. Mini Pliers Set	—	Proto	J2806SMP	2TJ51

For a wide range of electronic assembly requirements. Copper alloy rivet eliminates friction, while copper alloy joint maintains cutting edge and tip alignment. Plastisol, nonslip cushion handles, standard.

Mini Pliers Sets—Dual leaf spring design allows jaws to be maintained in open position. Fitted with slip-resistant electrostatic dissipative (ESD) cushioned grips. 2TJ50 includes 4 1/4" diagonal cutter with semiflush cut tapered

head; 4 1/4" diagonal cutter with flush cut oval head; 4 1/2" curved long nose with serrated jaw; and 4 3/4" long nose with cutter. 2TJ51 includes 4 3/4" diagonal cutter with semiflush cut tapered head; 4 1/4" diagonal cutter with flush cut oval head; 5 3/4" slim needle nose with nonserrated jaw; 4 3/4" slim needle nose with serrated jaw; 4 1/2" transverse end cutter with flush cut; and 4 1/2" angled cutter with flush cut.



4CR25

3G971

31AD31



Tweezers

Designed for toolmakers, repairmen, and electronic assemblers.

EREM

Tweezers are antimagnetic, acid-resistant, and temperature-resistant to 300°C.

ESD SAFE TWEEZERS

Meet the requirements for tools used in electrostatic-sensitive areas. Ergonomically designed soft foam handles. Stainless steel.

SLICE

Professional-grade tweezers are hand filed with aligned tips. 31DA15, 31DA16, 31DA18, and 31DA19 are autoclave friendly. 31DA15, 31DA17, and 31DA19 are soft-touch rubberized.

Description	Point Type	L	Tip Size	Application	Material	Mechanism	Brand	Mr. Model	Item No.
ESD Safe Precision Tweezers									
ESD-Safe, Anti-Magnetic, Anti-Acid	Curved, Relieved	4 3/4 in	.011 in x .016 in	For Working in Confined Spaces	Stainless Steel	Manual	Erem	E7SA	5EPT8
	Flat, Round, Straight	4 3/4 in	.063 in x .015 in	For Gripping Fine Wire	Stainless Steel	Manual	Erem	E2ASA	5EPT5
	Micro Pointed, Straight	4 3/4 in	.011 in x .011 in	For Gripping Fine Wire	Stainless Steel	Manual	Erem	E5SA	5EPT7
	Pointed, Straight, Ultra-Fine	4 3/4 in	.011 in x .015 in	For Assembly of Circuit Boards	Stainless Steel	Manual	Erem	E3CSA	5EPT6
Precision Tweezers	Robust, Straight	4 3/4 in	.019 in x .027 in	—	Stainless Steel	Manual	Erem	E0OSA	5EPT9
	Curved, Relieved	4 1/2 in	.011 in x .016 in	—	Stainless Steel	Manual	Erem	7SASL	4CR23
	Fine, Robust, Straight	5 in	.031 in x .031 in	—	Stainless Steel	Manual	Erem	AASA	4CR25
	Flat & Round, Straight	4 1/2 in	.063 in x .015 in	—	Stainless Steel	Manual	Erem	2ASASL	4CP98
Anti-Acid/Anti-Mag	Medium, Straight	4 1/2 in	.019 in x .019 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	2SASL	4CR01
	Micro Point	4 1/2 in	.011 in x .011 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	5SASL	4CR16
	Straight, Ultra Fine	4 1/4 in	.011 in x .015 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	3CSASL	4CR03
	Curved, Relieved	4 1/2 in	.011 in x .016 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	7SA	4CR22
Anti-Acid/Anti-Mag, Swiss Made	Flat & Round, Straight	4 1/2 in	.063 in x .015 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	2ASA	4CP97
	Micro Point, Straight	4 1/2 in	.011 in x .011 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	5SA	4CR15
	Straight, Ultra Fine	4 1/4 in	.011 in x .015 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	3CSA	4CR02
	Curved, Double Hinged	Smooth/Dull	6 1/2 in	—	Stainless steel	—	General	3G971	3G971 *
Cutting	Oblique	4 1/2 in	0.374 in	Cutting Fine, Soft Wire and Small Components	Carbon Steel	Manual	Erem	15AGW	31AD31
	Serrated/Blunt	Serrated/Blunt	6 in	—	Stainless steel	—	General	3G959	3G959 *
	Serrated Bent Tip, LED	Serrated Bent Tip	4 1/4 in	Retrieval, Includes (3) LR41 Batteries	Steel, Non-Slip Cushion Grip	Spring	General	70408	8P401
	Smooth/Sharp	Smooth/Sharp	4 1/2 in	For Very Fine Precision Work on Electronic Assemblies, Toolmakers, Mechanics, and Repairmen	Nickel Plated Steel	—	General	401XX	3WCR1
Smooth Point Tip, LED	Smooth Point Tip	6 1/4 in	—	Retrieval, Includes (3) LR41 Batteries	Heat Treated Steel, Non-Slip Cushion Grip	Spring	General	70401	9DKV9
	Strong Bevel	Strong Bevel	5 in	—	Stainless steel	—	General	3G957	3G957 *
	Combination	3 1/2 in	1/2 in	—	Stainless Steel, Non-Slip	Spring	Slice	10457	31DA19
	Combination	3 1/2 in	1/2 in	—	Stainless Steel, Non-Slip	Spring	Slice	10458	31DA20
Wide-Grip	Pointed/Sharp	3 1/2 in	1/2 in	Precision Tweezing Extra Wide Grip	Stainless Steel, Non-Slip	Spring	Slice	10454	31DA17
	Pointed/Sharp	3 1/2 in	1/2 in	Precision Tweezing Extra Wide Grip	Stainless Steel, Non-Slip	Spring	Slice	10456	31DA18
	Pointed/Sharp	3 1/2 in	1/2 in	Precision Tweezing Extra Wide Grip	Stainless Steel, Non-Slip	Spring	Slice	10450	31DA15
	Pointed/Sharp	3 1/2 in	1/2 in	Precision Tweezing Extra Wide Grip	Stainless Steel, Non-Slip	Spring	Slice	10452	31DA16

* Double Hinged Adjustment Arm