

Xcelite®

Xcelite, founded in 1921, produces high quality tools for professional use. They are known throughout the electronics industry for a comprehensive range of screwdrivers of various sizes and types, nutdrivers, convertible nutdriver/screwdriver sets, interchangeable blade drivers, service tools and kits, pliers and cutters, shears, snips, wire strippers and wrenches. Many of the products are in kit form to appeal to the DIY and hobby markets.



Nut Drivers

Description	Material No.	Shelf Pack
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Fixed handle nut drivers (metric with hollow shaft)

- Bright finished blades, shafts and shanks



Hex Diameter	Hole Depth	Blade Length	Overall Length
5mm	29mm	76mm	156mm
5.5mm	29mm	76mm	156mm
7mm	29mm	76mm	156mm
8mm	29mm	76mm	156mm
10mm	48mm	73mm	178mm
13mm	178mm	79mm	184mm

5MM	6
55MM	6
7MM	6
8MM	6
10MM	6
13MM	6



Nut Driver Set in sturdy red case

Contains:

- 4MM, 4.5MM, 5MM, 5.5MM, 6MM, 7MM, 8MM, 10MM, 11MM, 13MM

413MM	1
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Fixed Handle Nut Drivers (SAE with full hollow shaft)

- Precision-machined, cold-drawn, case-hardened socket with bright finish
- Molded firm grip

Hex Diameter	Hole Depth	Blade Length	Overall Length
3/16"	1 1/8"	3"	6 1/8"
7/32"	1 1/8"	3"	6 1/8"
1/4"	1 1/8"	3"	6 1/8"
9/32"	1 1/8"	3"	6 1/8"
5/16"	1 1/8"	3"	6 1/8"
11/32"	1 1/8"	3"	6 1/8"
3/8"	1 1/8"	3"	6 1/8"
7/16"	1 7/8"	2 7/8"	7"

6	6
880005AU	6
HT8	6
HT9	6
T10	6
T11	6
HT12	6
T14	6



Nut Driver Set

Convenient blow molded case.

Contains:

- 6, 7, 8, 9, 10, 11 and 12

127TB	3
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Magnetic Nut Driver

- Ultimate in convenience for assembly and service operations involving hex fasteners
- Alnico permanent magnet inserted in socket holds fasteners firmly for easy, one-hand driving or for retrieving or removal
- Socket specially treated and hardened for use with self-tapping screws
- Unique Xcelite® development effectively insulates magnet
- Exclusive with Xcelite® 1/4" and 5/16" magnetic fixed handle
- Comfortable contoured handle provides adequate torque for 1-hand driving

Hex Diameter	Hole Depth	Blade Length	Overall Length
1/4"	-	3"	6 1/8"

8M



Fixed Handle Nut Drivers (SAE with regular drilled shaft)

- Precision-machined, cold-drawn, case-hardened socket with bright finish
- Regular, plastic color-coded handles for ease in size identification
- Molded firm grip

Hex Diameter	Hole Depth	Blade Length	Overall Length
3/16"	6"	3 1/8"	6 1/4"
7/32"	6"	3 1/8"	6 1/4"
1/4"	7"	3 1/8"	7 1/4"
9/32"	7"	3 1/8"	7 1/4"
5/16"	7"	3 1/8"	7 1/4"
11/32"	7"	3 1/8"	7 1/4"
7/16"	7"	3 1/8"	7 1/4"
1/2"	7"	3 1/8"	7 1/4"
9/16"	7"	3 1/8"	7 1/4"

HS6

6

HS7

6

THS8

6

THS9

6

HS10

6

HS11

6

HS14

6

HS16

6

HS18

6



Nut Driver Set in sturdy yellow case

Contains:

- HS-6, HS-7, HS-8, HS-9, HS-10, HS-11, HS-12, HS-14, HS-16 and HS-18

HS618

3



Nut Driver Set Plastic Pouch

Contains:

- HS- 6, HS-8, HS-10, HS-11, HS-12, HS-14 and HS-16

177

1



Nut Driver Set (Inches)

- Handles more jobs with fewer tools, saves bench space and lightens service kit
 - Equipped with remarkable black, "piggyback" torque amplifier handle
 - Set housed in attractive, easy to open, clear plastic case
 - Color-coded handles
- Consists of:
- 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8" and Torque Amplifier Handle

PS120V

3



Description	Material No.	Shelf Pack	
Nut Driver Set (Metric) <ul style="list-style-type: none"> Handles more jobs with fewer tools, saves bench space and lightens service kit Equipped with remarkable black, "piggyback" torque amplifier handle Set housed in attractive, easy to open, clear plastic case Consists of: <ul style="list-style-type: none"> 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 10mm and Torque Amplifier Handle 	PS121MM	3	
Screwdriver and Nut Driver Set (Inches) <ul style="list-style-type: none"> Handles more jobs with fewer tools, saves bench space and lightens service kit Equipped with remarkable black, "piggyback" torque amplifier handle Set housed in attractive, easy to open, clear plastic case Color-coded handles Consists of: <ul style="list-style-type: none"> Phillips #1, #2 Screwdrivers 1/8", 3/16", 1/4" Nut Drivers 3/16", 1/4", 5/16", 11/32", 3/8" Torque Amplifier Handle 	PS130	3	
#1 Phillips Screwdriver 3mm Midget Hex Nut 772 3/16" Nut Driver 1/4" Nut Driver #0 Phillips Screwdriver .028" Screwdriver .035" Screwdriver .050" Screwdriver	P1 P3MM P6 P8 P12S P18 TP19 P20	12 12 12 12 12 12 12 12	
9 Piece Screwdriver Set <ul style="list-style-type: none"> Handles more jobs with fewer tools, saves bench space and lightens service kit Equipped with remarkable black, "piggyback" torque amplifier handle Set housed in attractive, easy to open, clear plastic case Color-coded handles Slotted Screwdrivers - 3/32", 1/8", 5/32", 3/16", 1/4" Phillips Screwdrivers - #0, #1, #2 	PS88V	3	
9 Piece Hex Socket Set (Inch) <ul style="list-style-type: none"> Handles more jobs with fewer tools, saves bench space and lightens service kit Equipped with remarkable black, "piggyback" torque amplifier handle Set housed in attractive, easy to open, clear plastic case Red handles .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8" 	PS89V		
9 Piece Hex Socket Set (Metric) <ul style="list-style-type: none"> Handles more jobs with fewer tools, saves bench space and lightens service kit Equipped with remarkable black, "piggyback" torque amplifier handle Set housed in attractive, easy to open, clear plastic case Black handles 0.89mm, 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 	PS90MM	3	

Regular Round Blade Screwdriver



Blade Diameter	Blade Length		Screwdriver Length	
1/8"	6"	152mm	8 5/8"	219mm
3/16"	10"	254mm	12 5/8"	321mm
5/32"	3"	76mm	5 5/8"	143mm
5/32"	4"	102mm	6 5/8"	168mm
5/32"	5"	127mm	7 5/8"	194mm
3/16"	4"	102mm	7 5/8"	194mm
3/16"	6"	102mm	7 5/8"	194mm
1/4"	4"	102mm	8 1/8"	206mm
1/4"	6"	152mm	10 1/8"	257mm
1/4"	8"	203mm	12 1/8"	308mm
1/4"	10"	254mm	14 1/8"	359mm

R186	6	
R1810	6	
R5323	6	
R5324	6	
R5325	6	
R3164	6	
R3166	6	
R144	6	
R146	6	
R148	6	
R1410	6	

Pocket Clip Style - Round Blade

- Blade made from AISI 6150 chrome vanadium steel



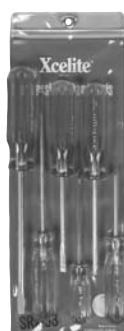
Blade Diameter	Blade Length		Screwdriver Length	
1/8"	2"	51mm	4 5/8"	117mm
3/32"	2"	51mm	4 1/4"	108mm
3/32"	3"	76mm	5 1/4"	133mm

R181	6	
R3322	12	
R3323	12	
SDR11	1	
SRX33	1	



Slotted Screwdriver Set

Consists of 5 round blade screwdrivers for slotted screws (R182, R5324, 3166, R144 and R5166)



Screwdriver Set

Contains:

- blades for slotted screws Xcelite® R184, R3166, R144, R5166
- Phillips Xcelite® X101 and X102

Stubby Square Blade Screwdriver



Blade Diameter	Blade Length	Screwdriver Length
3/16"	1 1/4" 32mm	3 1/4" 83mm
1/4"	1 1/4" 32mm	3 1/4" 83mm

53161
T5146

6
6

Regular Square Blade Screwdriver



Blade Diameter	Blade Length	Screwdriver Length
3/16"	4" 102mm	7 5/8" 194mm
7/16"	12" 305mm	18" 457mm
7/16"	18" 457mm	24" 610mm

S3164

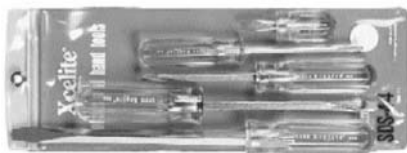
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S71612

6

S71618

6



Slotted Screwdriver Set

Consists of:

- 5 square blade screwdrivers for slotted screws (S141, S3164, S144, S5166 and S388)

SDS44

1



Precision Electronic Screwdrivers

- Superior overall design for maximum control, accuracy and durability
- Chrome-molybdenum vanadium steel blades
- Fast-turning swivel caps with cavity for precise centering
- Precision tolerance black tips
- No-roll handle design

2.5mm x 0.40mm. 75mm slotted screwdriver

XP2575ESD

1

3.0mm x 0.50mm. 100mm slotted screwdriver

XP30150ESD

1

4.0mm x 0.80mm. 150mm slotted screwdriver

XP40100ESD

1



Precision Electronic Screwdriver Set

- Superior overall design for maximum control, accuracy and durability
- Chrome-molybdenum vanadium steel blades
- Fast-turning swivel caps with cavity for precise centering
- Precision tolerance black tips
- No-roll handle design

7 piece precision screwdriver set

XP700

1










Mini Screwdriver Set

Miniature version of compact convertible set for precise detailed work

- Mini-drivers consist of jeweler's type and Phillips screwdriver blades molded in color-coded plastic handles.
- Contains a black torque amplifier, 7/8" X 3 1/16"/22.22mm X 77.78mm
- Furnished in see-through plastic case
- Color-coded handles

M60

6

		Description		Material No.	Shelf Pack	
Stubby Phillips Screwdrivers						
						
	Blade Diameter	Blade Length	Screwdriver Length			
	3/16"	1 7/16" 37mm	3 7/16" 87mm #1 Phillips	SX101	6	
	1/4"	1 5/16" 33mm	3 3/8" 86mm #2 Phillips	SX102	6	
Regular Phillips Screwdrivers						
						
	1/8"	2" 55mm	4 5/8" 117mm #0 Phillips	X100	6	
	3/16"	3" 76mm	6 5/8" 168mm #1 Phillips	X101	6	
	3/16"	6" 152mm	9 5/8" 244mm #1 Phillips	X108	6	
	1/4"	4" 102mm	8/18" 206mm #2 Phillips	X102	6	
Extra Long Phillips Screwdrivers						
						
	3/16"	10" 254mm	13 5/8" 346mm #1 Phillips	X1010	6	
	1/4"	10" 254mm	14 1/8" 359mm #2 Phillips	X1020	6	
	Phillips Screwdriver Set • contains Phillips Xcelite® X100, X101, X102, X103, SX102			SDX22	1	
	Super-tru Tip Phillips Screwdrivers • Super-tru tip for longer wear life and reduction of damage to screw head recesses, especially in smaller size fasteners • Specially treated and finished tips with black oxide for ultimate control • Bright, nickel chrome-plated blades					
	Blade Diameter	Blade Length	Screwdriver Length			
	1/8"	2" 50mm	4 5/8" 117mm #0 Phillips	XST100	6	
	1/4"	4" 102mm	8 1/8" 206mm #2 Phillips	XST102	6	
	1/4"	10" 254mm	14 1/8" 371mm #2 Phillips	XST1020	6	
	Super-tru Tip 3 piece Phillips crewdriver Set • contains Super-tru tip Phillips Xcelite® XST100, XST101, XST102			XST3	1	
	Super-tru Tip 5 piece Phillips Screwdriver Set • contains Super-tru Phillips Xcelite® XST100, XST101, XST102, XST1010 and XST1020			XST5	1	



- Offset Ratchet Screwdriver Set**
- 19-piece midget, offset, reversible ratchet set
 - All-purpose driver bits 1/4"/6mm hex shank
 - Simple and easy-to-use for assembly, disassembly, adjustment and repair work involving Allen hex, Phillips® and slotted screws
 - 12 x Allen Hex Screw Bits
 - 2 x Slotted Screw Bits
 - 2 x Phillips Screw Bits
 - Adapter Bit, Spinner Extension & Reversible Ratchet

- Offset Ratchet Screwdriver Set**
- 5-piece set
 - Driver bits 1/4"/6mm hex shank
 - See-through plastic pouch
 - 2 x Slotted Screw Bits
 - 2 x Phillips Screw Bits
 - Reversible Ratchet Arm

Reversible Ratchet Arm

Screwdrivers for Recessed Socket Head Screws Allen Hex Socket Type (Metric)

Blade Diameter	Blade Length	Screwdriver Length
2mm	102mm	168mm
2.5mm	102mm	181mm
3mm	102mm	181mm
4mm	102mm	181mm
6mm	102mm	181mm

- Allen Hex Socket Set**
- Complete set of LN series Allen hex socket type and metric size screwdrivers
 - Roll-up canvas case, plastic-coated for wear and protection



Screwdrivers for Recessed Socket Head Screws Allen Hex Socket Type (Inch)

Blade Diameter	Blade Length	Screwdriver Length
.050"	4" 102mm	6 5/8" 168mm
1/16"	4" 102mm	6 5/8" 168mm
5/64"	4" 102mm	6 5/8" 168mm
3/32"	4" 102mm	6 5/8" 168mm
7/64"	4" 102mm	7 1/8" 190mm
1/8"	4" 102mm	7 1/8" 190mm
5/32"	6" 152mm	9 1/8" 232mm

Ballpoint Hex Socket Type (Inch)



Blade Diameter	Blade Length	Screwdriver Length
.050"	4" 102mm	6 5/8" 168mm

Description	Material No.	Shelf Pack
Offset Ratchet Screwdriver Set	XL70	1
Offset Ratchet Screwdriver Set	XL75	1
Reversible Ratchet Arm	XL27	6
Screwdrivers for Recessed Socket Head Screws Allen Hex Socket Type (Metric)	LN2MM	6
	LN25MM	6
	LN3MM	6
	LN4MM	6
	LN6MM	6
Allen Hex Socket Set	LN8MM	1
Screwdrivers for Recessed Socket Head Screws Allen Hex Socket Type (Inch)	LN20	6
	LN21	6
	LN22	6
	LN23	6
	LN764	6
	LN24	6
	LN25	6
Ballpoint Hex Socket Type (Inch)	LN20BP	6



Screwdrivers for Recessed Socket Head Screws

Ballpoint Allen Hex Socket Type (Metric)
Unique "ballpoint" tip makes Xcelite® drivers ideal for tightening and removing Allen type socket head screws in out-of-reach places or merely when wanting an easier, quicker way to drive them home. Will engage screw head from any angle Slips easily into sockets and holds securely without reaming, because ends are precision-machined to close tolerance.

Blade Diameter	Blade Length	Screwdriver Length
2mm	102mm	168mm
4mm	102mm	181mm



Ballpoint Allen Hex Socket Set

- Complete set of LN series Ballpoint Allen hex socket type and metric size screwdrivers
- Roll-up canvas case, plastic-coated for wear and protection



Tip Size	Blade Length	Screwdriver Length
T-6	3" 76mm	6 5/8" 168mm
T-8	3" 76mm	6 5/8" 168mm

Torx Screwdrivers



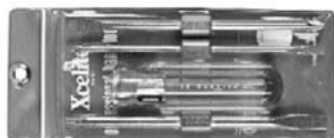
Tip Size	Blade Length	Screwdriver Length
T-8	4"	102mm

Tamper-proof Torx Screwdrivers



Combination Reversible Blade & Handle Screwdriver



- Contains 1 reversible, interchangeable, combination blade
- Regular handle
- Snaps in and out easily and held firmly in perfect alignment by patented spring lock
- No.2 Phillips & 1/4" Slotted with Handle



Zipper Case Screwdriver Kit

Contains:

- No.1 Phillips & 3/16" Slotted
- No.2 Phillips & 1/8" Slotted
- No.3 Phillips & 5/16" Slotted
- Handle

Description	Material No.	Shelf Pack	
Screwdrivers for Recessed Socket Head Screws Ballpoint Allen Hex Socket Type (Metric) Unique "ballpoint" tip makes Xcelite® drivers ideal for tightening and removing Allen type socket head screws in out-of-reach places or merely when wanting an easier, quicker way to drive them home. Will engage screw head from any angle Slips easily into sockets and holds securely without reaming, because ends are precision-machined to close tolerance.	LN2MMBP	6	
	LN4MMBP	6	
	LN8MMBP	1	
Torx Screwdrivers 	XTD6V	6	
	XTD8V	6	
	XTD8TPV	6	
Tamper-proof Torx Screwdrivers 	TCR2	6	
	CK23	1	



4 in 1 Screwdriver

- Extra handy
- 2 blades also interchangeable with Two-In-One
- Self-storing standard shaft
- Converts in seconds to 4 most often needed tips (3/16" and 1/4" slotted tips and No. 1 and 2 Phillips)

FSD1V

6

Series 99® interchangeable blades, shanks and handles shown on these pages are all available separately, allowing gradual, economical accumulation of whatever items might be needed for individual requirements. Also permits owners of Series 99® sets or kits to enlarge them or substitute tools, as necessary, at minimal cost

Handles



Tee Handle

994

6

Stubby Handle

T993

6

Regular Ratcheting Handle

991R

6

- Easy to operate
- Permits extremely simple 1-hand operation, even in tight quarters
- Smooth precise action
- Left-right-neutral marking indicator
- Light ratcheting drag facilitates turning and prevents fasteners from reversing

Tee Ratchet Handle

994R

6

Nut Drivers (Metric)



4mm Nut Driver Shank

994MM

6

4.5mm Nut Driver Shank

9945MM

6

5mm Nut Driver Shank

995MM

6

5.5mm Nut Driver Shank

9955MM

6

6mm Nut Driver Shank

996MM

6

7mm Nut Driver Shank

997MM

6

8mm Nut Driver Shank

998MM

6

10mm Nut Driver Shank

9910MM

6

11mm Nut Driver Shank

9911MM

6

Nut Drivers (Inch)



3/16" Nut Driver Shank

996

6

7/32" Nut Driver Shank

997

6

1/4" Nut Driver Shank

998

6

1/4" Magnetic Nut Driver Shank

998M

6

9/32" Nut Driver Shank

T999

6

5/16" Nut Driver Shank

T9910

6

11/32" Nut Driver Shank

T9911

6

3/8" Nut Driver Shank

9912

6

7/16" Nut Driver Shank











T9914

6

1/2" Nut Driver Shank

9916

6

		Description	Material No.	Shelf Pack	
Slotted Screwdrivers					
		1/8" Slotted Screwdriver Shank	99125	6	
		3/16" Slotted Screwdriver Shank	99811	6	
		1/4" Slotted Screwdriver Shank	99250	6	
		5/16" Slotted Screwdriver Shank	99312	6	
Phillips Screwdrivers					
		#0 Phillips Screwdriver Shank	99820	6	
		#1 Phillips Screwdriver Shank	99821	6	
		#2 Phillips Screwdriver Shank	99822	6	
Pozidrive Screwdrivers					
		#1 Pozidrive Screwdriver Shank	99831	6	
		#2 Pozidrive Screwdriver Shank	99832	6	
Allen Blades (Metric)					
		1.27mm Allen Blade Shank	9971MM	6	
		1.5mm Allen Blade Shank	9972MM	6	
		2mm Allen Blade Shank	9973MM	6	
		2.5mm Allen Blade Shank	9974MM	6	
		3mm Allen Blade Shank	9975MM	6	
		4mm Allen Blade Shank	9976MM	6	
		5mm Allen Blade Shank	9977MM	6	
Allen Blades (Inch)					
		.050" Allen Blade Shank	9920	6	
		1/16" Allen Blade Shank	9921	6	
		5/64" Allen Blade Shank	9922	6	
		3/32" Allen Blade Shank	9923	6	
		1/8" Allen Blade Shank	9924	6	
		5/32" Allen Blade Shank	9925	6	
		3/16" Allen Blade Shank	9926	6	
		7/64" Allen Blade Shank	99764	6	
		9/64" Allen Blade Shank	T99964	6	

Ballpoint Allen Blades (Inch)



.050" Ballpoint Allen Blade Shank

9920BP

6

1/16" Ballpoint Allen Blade Shank

9921BP

6

5/64" Ballpoint Allen Blade Shank

9922BP

6

3/32" Ballpoint Allen Blade Shank

9923BP

6

1/8" Ballpoint Allen Blade Shank

9924BP

6

5/32" Ballpoint Allen Blade Shank

9925BP

6

3/16" Ballpoint Allen Blade Shank

9926BP

6

7/64" Ballpoint Allen Blade Shank

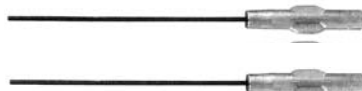
99764BP

6

9/64" Ballpoint Allen Blade Shank

99964BP

6



Bristol Spline Blade

.048" Bristol Spline Blade Shank

9961

6

.060" Bristol Spline Blade Shank

9962

6

.072" Bristol Spline Blade Shank

9964

6

.076" Bristol Spline Blade Shank

9965

6

.096" Bristol Spline Blade Shank

9966

6



Reamer



1/8" x 3/8" (3.17 x 9.52mm) Reamer Shank

9938

6

Extensions

4" (102mm) Extension Shank

99X5

6

7" (177mm) Extension Shank

99X10

6



Nut Driver & Screwdriver Set

- 14 pieces in Plastic Roll Case

99PR

1

Plastic Roll Case for 99-PR

T99K

1

Plastic Roll Case for 99-MP

99MPK

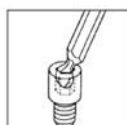
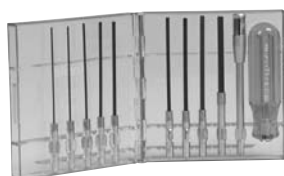
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Allen Blade Set

- 11 Pieces in Clear Plastic Container
- Contains: 0.50", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16, Extension & Regular Handle

99PS40

3



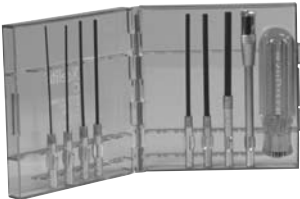
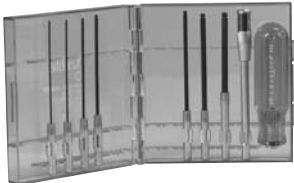


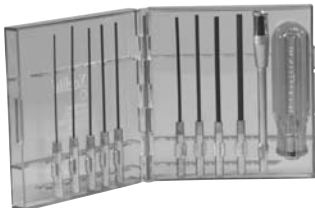

Ballpoint Allen Set

Unique "ballpoint" tip ideal for tightening and removing Allen socket screws in hard to reach spots or need a quicker way to drive them home 9 blades 4"/101.60mm long, 99X5 extension and regular 991 handle in plastic see-through stand-up case.

99PS40BP

3

- Will engage screw head from any angle
- Ends precision-machined to close tolerances to help slip easily into sockets and hold securely without reaming
- Contains: 0.50", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16, Extension & Regular Handle

	Description	Material No.	Shelf Pack	
	Metric Allen Set <ul style="list-style-type: none"> • 9 pieces in Clear Plastic Case • Contains: 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, Extension and Regular Handle 	99PS41MM	3	
	Metric Ballpoint Allen Set <ul style="list-style-type: none"> • 9 pieces in Clear Plastic Case • Contains: 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, Extension and Regular Handle 	99PS41MMBP	3	
	Screwdriver & Nut Driver Set <ul style="list-style-type: none"> • Clear Plastic Case • Nut Driver - 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8" • Slotted Screwdriver - 3/16", 1/4" • Phillips - #1, #2 • Extension & Regular Handle 	99PS50	3	
	Metric Nut Driver Set <ul style="list-style-type: none"> • Clear Plastic Case • Contains: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, Extension & Regular Handle 	99PS51MM	3	
	Bristol Spline Set <ul style="list-style-type: none"> • Clear Plastic Case • Contains: .048mm, .060mm, .069mm, .072mm, .076mm, .096mm, .111mm, .145mm, .183mm, Extension & Regular Handle 	99PS60	3	
	Personal Computer Tool Kit <p>Ideal for repairs on PC's. Contains 12 anti-static chip tools, protects chips from ESD damage. Tools fit securely in a convenient roll-up pouch</p> <ul style="list-style-type: none"> • Plastic Roll Case • Phillips #0, #1 • Slotted Screwdriver 3/16" • 2 x Torx Screwdriver Blades • Hex Nut Driver 3/16", 1/4" • Regular Handle • Antistatic 3 Prong Chip Remover/Extractor • Antistatic Chip Tweezers • Antistatic Chip Insertor • Antistatic Chip Extractor 	99SPC	1	



Tool Set

Versatile 23-piece set of quality tools. Provides a variety of quick change tools and tool combinations to speed up assembly and service work.

- Hard Plastic Case
- 6" Long Nose Cushion Grip Plier
- 5" Diagonal Cushion Grip Plier
- 6" Thin Pattern Cushion Grip Adjustable Wrench
- Regular & Stubby Handles
- 9 x Regular Nut Drivers
- 3 x Stubby Nut Drivers
- 2 x Phillips Screwdrivers
- 2 x Slotted Screwdrivers
- Reamer & Extension

Canvas Case for 99SM Toolkit

Canvas Case for 99SMW Toolkit



Attaché Tool Case

- Hi-tech aluminum tool case with smooth finish, keyless combination lock and chrome-plated latches
- Tongue and groove lid with rubber gasket ensures a positive seal from dirt or water
- Case with removable 3-panel hinged tool pallet in lid plus additional panel in bottom
- Size: 17 5/8" x 12 5/8" x 7 7/8"/448mm x 321mm x 200mm

Attaché Tool Case

- Contains 3-panel hinged tool pallet in lid plus additional pallet in bottom
- Super tough, black polyethylene with rich looking black anodized aluminum hardware
- Size: 17 3/4" x 12 5/8" x 5 3/4"/451mm x 321mm x 146mm

Description	Material No.	Shelf Pack	
99SMX	1		
99SMK	1		
TCMB150MT	1		
TCMB100MT	1		



Case

991 Handle - regular
 991R Handle - regular ratchet
 994R Handle - Tee ratchet
 99X5 Extension
 99X10 Extension
 9938 Reamer
 99125 Slotted screw blade
 99250 Slotted screw blade
 99312 Slotted screw blade
 99811 Slotted screw blade
 99820 Phillips screw blade
 99821 Phillips screw blade
 99822 Phillips screw blade
 9961-69 Bristol 6-flute multi. spline blades (9)
 99-71mm to 99-77mm metric allen blades (7)
 99764 Allen hex socket type blade
 99964 Allen hex socket type blade
 42H Straight nose seizer
 46CG Adjustable wrench 6"/152mm
 50CG Midget slip joint pliers 5"/127mm
 51CG Long nose pliers 6"/152mm
 53CG Utility pliers 7"/178mm
 54CG Diagonal pliers 4"/101mm

Description	Material No.	Shelf Pack	
Attaché Tool Case with Tools <ul style="list-style-type: none"> Contains 53 individual hand tools, 31 Series 99® interchangeable screwdriver/nutdriver blades and handles, and 2 specialized screwdriver/nutdriver kits (as listed) Contains 3-panel hinged tool pallet in lid plus additional pallet in bottom Super tough, black polyethylene with rich looking black anodized aluminum hardware Size: 17 3/4" x 12 5/8" x 5 3/4"/451mm x 321mm x 146mm 	TCMB100ME	1	

66CG Diagonal pliers 6"/152mm
 57CG Needle nose pliers 5 1/2"/140mm
 59CG Chain nose pliers 8"/203mm
 86CG Electronic snips
 103S Wire stripper/cutter
 K22 Electrician's knife
 M60 Mini drivers
 XL75 Offset ratchet screwdrivers
 600 Combination screwdriver-nutdriver tool
 SB1 Dual reversible screwdriver blade
 R144 Slotted screwdriver
 R146 Slotted screwdriver
 R181 Slotted screwdriver
 R184 Slotted screwdriver
 R3164 Slotted screwdriver
 R3166 Slotted screwdriver (insulated)
 R3323 Slotted screwdriver
 R5325 Slotted screwdriver
 S388 Slotted screwdriver
 S3161 Slotted screwdriver
 S5161 Slotted screwdriver
 S5166 Slotted screwdriver
 SX101 Phillips screwdriver
 XST100 Phillips screwdriver
 XST101 Phillips screwdriver

XST102 Phillips screwdriver
 P18 Hex socket screwdriver
 P19 Hex socket screwdriver
 HS6 Nutdriver-hollow shaft
 HS8 Nutdriver-hollow shaft
 HS10 Nutdriver-hollow shaft
 HS11 Nutdriver-hollow shaft
 HS12 Nutdriver-hollow shaft
 HS14 Nutdriver-hollow shaft
 HS16 Nutdriver-hollow shaft
 HS18 Nutdriver-hollow shaft
 8M Nutdriver-magnetic
 10M Nutdriver-magnetic
 P3 Midget nutdriver
 P4 Midget nutdriver
 P5 Midget nutdriver
 P6 Midget nutdriver
 P7 Midget nutdriver
 P8 Midget nutdriver
 P9 Midget nutdriver
 P10 Midget nutdriver
 P11 Midget nutdriver
 P12 Midget nutdriver
 TA2 Torque amplifier handle



Seizer shear

- Versatile tool with unusual holding qualities
- Clamps firmly to hold wires for soldering
- Acts as a heat sink and retrieves small parts from hard-to-reach places
- Precision-machined from perfectly tempered stainless steel
- Box-joint construction
- 3-position snap lock
- Serrated jaws

5"/127mm Straight Nose Junior Seizer, Smooth Jaws

5"/127mm Curved Nose Junior Seizer, Smooth Jaws

6"/152mm Curved Nose Seizer, Serrated Jaws

Material No.

Shelf
Pack

32H

6

33H

6

43H

6



Adjustable Wrench

- Rugged construction
- Quick, 1-hand adjustment
- Chrome-plated, polished heads
- Cushion grip handle
- Red cushion grip handle provides maximum leverage

Length

Jaw Capacity

4" 102mm

1/2" 13mm

44CG

6

6" 150mm

3/4" 19mm

46CGV

6

8" 200mm

15/16" 23.81mm

48CG

6



Utility Pliers/Ignition pliers

- Narrow jaw for close work
- 3-jaw opening adjustment to 1/2"
- Forged alloy steel construction, precision machining and scientific proportioning
- Red plastic-coated cushion grip provides maximum leverage

Length







Jaw Capacity

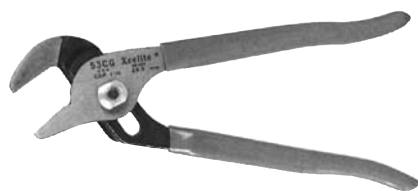
5" 127mm

1/2" 12.7mm

50CG

6

Description		Material No.	Shelf Pack	
 <p>Long Nose Plier</p> <ul style="list-style-type: none"> • For firm gripping and looping of wire • Serrated jaw • Forged alloy steel construction, precision machining and scientific proportioning • Side cutter feature • Red plastic-coated cushion grip provides maximum leverage • 6"/152mm <p>Length: 4" 102mm</p> <p>Length: 5" 127mm</p>		51NG	6	
		54CGV 55NCGV	6 6	
 <p>Diagonal Pliers</p> <ul style="list-style-type: none"> • For work in close quarters • Standard beveled edges • Forged alloy steel construction, precision machining and scientific proportioning • Red plastic-coated cushion grip provides maximum leverage 				
 <p>Needle Nose Standard pliers</p> <ul style="list-style-type: none"> • For firm gripping and looping of wire • Fine serrated jaw and coil spring • Forged alloy steel construction, precision machining and scientific proportioning • Red plastic-coated cushion grip provides maximum leverage • 5 1/2"/139mm 		57CG		
 <p>Electrician's chain nose pliers</p> <ul style="list-style-type: none"> • Serrated jaw for gripping and high leverage • Forged alloy steel construction, precision machining and scientific proportioning • Offers long reach • Red plastic-coated cushion grip provides maximum leverage • 8"/203mm 		59CG		
 <p>Diagonal Pliers</p> <ul style="list-style-type: none"> • For use in close quarters and semi-flush tip cutting of fine wires • Forged alloy steel construction, precision machining and scientific proportioning • Exceptional strength and performance • Red plastic-coated cushion grip provides maximum leverage • 4"/102mm 		64CGV	6	
 <p>All-purpose Pliers</p> <ul style="list-style-type: none"> • Standard beveled edges • Forged alloy steel construction, precision machining and scientific proportioning • Exceptional strength and performance • Red plastic-coated cushion grip provides maximum leverage • 6"/152mm 		66CGV	6	



Description	Material No.	Shelf Pack	
Length: 6" 152mm Tongue & Groove Combination Pliers <ul style="list-style-type: none"> • All-purpose pliers • Angled serrated teeth in jaws • Maximum opening 1 1/8"/28mm • 4-position machined rib lock design • Forged alloy steel construction, precision machining and scientific proportioning • Red plastic-coated cushion grip provides maximum leverage 	76C	6	
Heat Sink <ul style="list-style-type: none"> • Protects transistors and other delicate electronic components from heat during soldering • Copper jaw for greatest possible heat absorption and dissipation (solder will not stick to finish) • Nickel-plated finish • Positive no-slip spring tension action • Red plastic-coated cushion grip provides maximum leverage 	80V	6	
Electronic Snips <ul style="list-style-type: none"> • Shearing action of 1 1/2"/38mm cut pointed blades prevents peaks on fine wires and filaments • Useful for removing insulation and cutting light sheet metal • Coil spring opens blades • Safety latch • Red plastic-coated cushion grip provides maximum leverage 	86CG	6	
Stripper, Cutter	100X	6	
Stripper, Cutter - spring opening	101SV	6	
Wire Strippers & Cutters with Cushion Grips <ul style="list-style-type: none"> • Cuts and strips both solid and stranded wire cleanly, neatly • Adjustable screw stop for different wire sizes • Hardened with ground blades • 101S specifications same as 100X except with spring-equipped self-opening handles • Red plastic-coated cushion grip provides maximum leverage 			
Wire Stripper & Cutters <ul style="list-style-type: none"> • For industrial use • Unique cam stop adjustment for different wire sizes, stays put even with screw loose • Red plastic-coated cushion grip provides maximum leverage 	103S	6	
Wire Stripper & Cutters <ul style="list-style-type: none"> • For copper and aluminum wire 10-22 AWG • Wide size-range bolt cutter / Screw sizing stations • Scissors-action, up-front wire cutting and wire stripping Pliers nose • Hardened pivot joint bushing and crimp stations • Red cushion grip handle provides maximum leverage 	104CGV	6	



Electrical Pliers

- Wire cutting and stripping edges conveniently located in front of pivot to allow use in tight places
- Needle nose pliers add wire pulling and bending capabilities
- Scissors-action stripper for cleaner, faster and more accurate stripping
- Serrated edge
- Xcelite® 105SCGV includes work-speeding automatic spring and lock
- Red cushion grip handle provides maximum leverage

Stripper, Cutter without spring lock

Stripper, Cutter - spring opening and lock

Material No.

Shelf
Pack

105CG

6

105SCGV

6

General Duty Tweezers



4 1/2" Cross Lock Tweezers

XHT412

6

4 1/2" Sharp Point Tweezers

XHT434

6

6" Round Point Tweezers

XHT600

6

6 1/2" Cross Lock Tweezers

XHT612

6

6 7/8" Curved Tweezers

XHT678

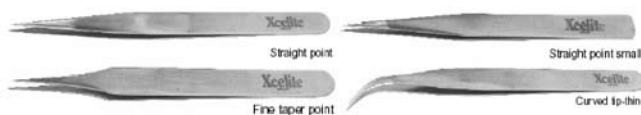
6

7" Straight Tweezers

XHT700

6

Premium Stainless Steel Tweezers



Straight Point

XSST3V

6

Fine Taper Point

XSST4V

6

Curved Tip Thin

XSST7V

6

SMD Non-Magnetic Tweezers

4"/115mm Tweezers.

SMD20SA

1

4"/115mm Tweezers.
20° Picking Angle for SOT Components

SMD21SA

1

4"/115mm Tweezers.
90° Picking Angle for Chip Components

SMD22A

6

4"/115mm Tweezers.
75° Picking Angle for Mini-MELF's from 0.8mm Diameter

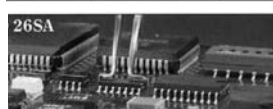
SMD24SA

6

4"/115mm Reverse Action Tweezers.
75° Picking Angle for Flat packs up to maximum 20mm

SMD26SA

1





Superior Box Joint Pliers

- 4 3/4" Snip Nose Pliers
- 4 3/4" End Cutter
- 5" Chain Nose Pliers
- 4 3/4" Cut & Squeezing Pliers
- 4 3/8" Side Cutter
- 4 3/8" Side Cutter
- 4 3/4" Oblique Cutter
- 4 3/4" Oblique Cutter



Mini Crimper for Crimping 26-16 AWG Insulated Terminals

- Smallest, lightest most ergonomic crimp tool
- Specially designed for lower force applications
- Has ergonomically designed handles and small open handle span
- Makes it extremely easy to use for end users with small hands
- For crimping 26-16 AWG insulated terminals



Maxi Crimper for Insulated Terminals & Splices

- Maxi-Crimper built bigger for greater terminating power
- Crimps 22-10 AWG (.75-6.0mm²) red, blue and yellow insulated terminals and splices (die nests color coded to AWG specs)
- Incorporates ratchet to ensure a full-cycle complete crimp every time
- Crimps exceed UL® standards for most terminals from AMP, 3M, T & B and many others



Coaxial Wire Stripper Kit

- Full kit designed for user who strips many different size cables (from .1" to .3"/2.5-7.6mm)
- Contains cassette indicated, all 4 Xcelite® V-Blocks, hex wrench and instruction sheets covering most possible applications
- Cable O.D. range: .10"- .30" (2.5-7.6mm), RG 174 to Belden® 8281 or RG 6

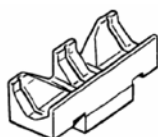
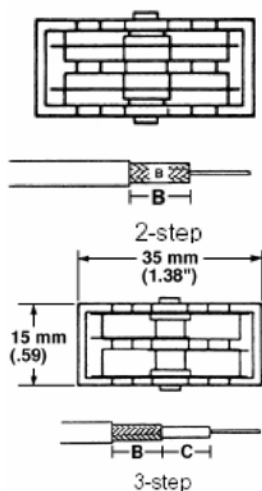
2 Step

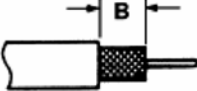
Blade Spacing - 0.24"/6mm
Cover Strip Length - 7/32-1/4" / 5.6-6.3mm

2 Step

Blade Spacing - 0.47"/12mm
Cover Strip Length - 7/16-1/2" / 11.1-12.7mm

Description	Material No.	Shelf Pack	
Superior Box Joint Pliers			
4 3/4" Snip Nose Pliers	174SEB	6	
4 3/4" End Cutter	166SEB	6	
5" Chain Nose Pliers	240SEB	6	
4 3/4" Cut & Squeezing Pliers	337SEB	6	
4 3/8" Side Cutter	355SEB	6	
4 3/8" Side Cutter	357SEB	6	
4 3/4" Oblique Cutter	331SEB	6	
4 3/4" Oblique Cutter	161SEB	6	
Mini Crimper for Crimping 26-16 AWG Insulated Terminals	MIC2616	1	
Maxi Crimper for Insulated Terminals & Splices	MAC2210	1	
Coaxial Wire Stripper Kit			
2 Step Blade Spacing - 0.24"/6mm Cover Strip Length - 7/32-1/4" / 5.6-6.3mm	2CSKR	1	
2 Step Blade Spacing - 0.47"/12mm Cover Strip Length - 7/16-1/2" / 11.1-12.7mm	2CSKY	1	



Description	Material No.	Shelf Pack
Pre-adjusted Coaxial Wire Stripper <ul style="list-style-type: none"> Saves time for novice user who strips primarily just one or a few cables in the same general O.D. range Fully adjusted for the cables indicated in chart Hex wrench included for adjustment to other size cables Simple instructions makes model much less complex than full kits 		
		
2 Step Blade Spacing - 0.24"/6mm Cover Strip Length - 7/32-1/4" / 5.6-6.3mm	2CS5962R	1
2 Step Blade Spacing - 0.27"/6.8mm Cover Strip Length - 9/32" / 6.3-7.1mm	2CS5962B	1
2 Step Blade Spacing - 0.47"/12mm Cover Strip Length - 7/16-1/2" / 11.1-12.7mm	2CS5962Y	1
Cassettes <ul style="list-style-type: none"> The cassette determines the strip dimension that your stripper will give New tool body design allows all cassettes to be used in any 2 step or 3 step full kit or pre-adjusted model Cassettes can be interchanged in seconds in the tool body 		
2 Step Blade Spacing - 0.24"/6mm Cover Strip Length - 7/32-1/4" / 5.6-6.3mm Red	2CR	1
2 Step Blade Spacing - 0.47"/12mm Cover Strip Length - 7/16-1/2" / 11.1-12.7mm Yellow	2CY	1
2 Step Blade Spacing - 0.36"/9.2mm Cover Strip Length - 11/32-13/32" / 8.7-10.3mm Orange	2CO	1
3 Step B - Blade Spacing - 0.47"/12mm C - Blade Spacing - 0.235"/6mm B - Cover Strip Length - 7/32-1/4" / 5.6-6.3mm C - Cover Strip Length - 13/64-1/4" / 5.1-6.3mm White	3CWH	1
Replacement V-block		
Cable O.D - 0.25-0.30" / 6.3-7.6mm Typical RG - 6, Belden 8281	VLG	
Cable O.D - 0.12-0.19" / 3.0-4.8mm Typical RG - 180, 195	VSM	
Cable O.D - 0.10-0.12" / 2.5-3.0mm Typical RG - 174, 188, 316	VSUB	

FLUSH OR SEMI-FLUSH CUTTING EDGES HANDLE MOST CUTTING REQUIREMENTS

CUTTING EDGES MACHINE GROUND AND ELECTRONICALLY HARDENED FOR EXTENDED LIFE

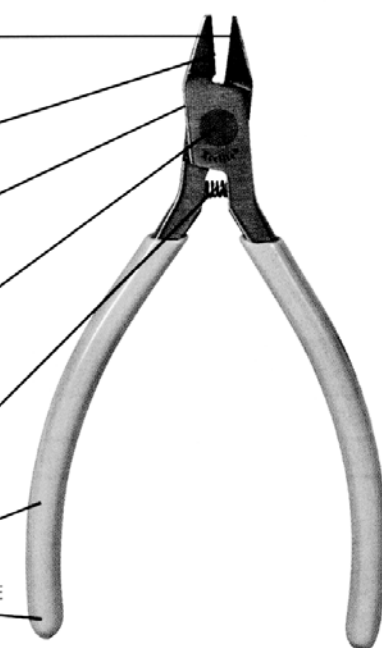
FORGED ALLOY STEEL WITH POLISHED HEAD FOR HIGH DURABILITY

PATENTED COPALOY RIVET CONSTRUCTION PROVIDES SMOOTH OPERATION AND LONG LIFE

HANDLE COIL SPRINGS FOR FAST CUTTING ACTION (Standard on all Models)

ESD SAFE CUSHION GRIPS FOR MAXIMUM COMFORT (Standard on all Models)

"ACCU-LITE" GRIPS ALSO AVAILABLE ON MANY MODELS



Copaloy® Pliers Features

- Lightweight, miniature plier line. Includes versatile selection of diagonal, angular, tip and end cutters plus wiring and assembly tools.
- Choice of oval, tapered, relieved and angled head designs for general or confined area cutting.
- Full flush or semi-flush cutting edges machine ground and electronically hardened for extended life in cutting either hard or soft wires.
- Needle nose styles include long, short, curved, flat and round to handle most forming, looping, twisting, insertion and pickup jobs.
- Copaloy joint maintains perfect cutting edge and tip alignment to maximize operational consistency and tool life.
- Handle coil springs, standard on all Copaloy pliers, allow faster cutting action with reduced user fatigue.
- Forged from high quality alloy steel for maximum strength and durability.
- Precision ground to close tolerances, individually finished and tested to ensure exact fit of jaws.
- Polished heads with gun metal handles.
- Made in U.S.A.



CAUTION

1. Always wear approved eye protection.
2. Cushioned handles are not intended to provide protection against electric shock. Do not use on or near energized circuits.
3. When cutting wire or metal, hold short end to prevent flying pieces.



Accu-Lite Handles Meet The Optimum Criteria For Hand Tools:

THUMB FLAIR INCREASES TOOL CONTROL

EXCLUSIVE, SOFT, NON-SLIP FOAM GRIPS PROVIDE POSITIVE GRIPPING AND MAXIMUM COMFORT

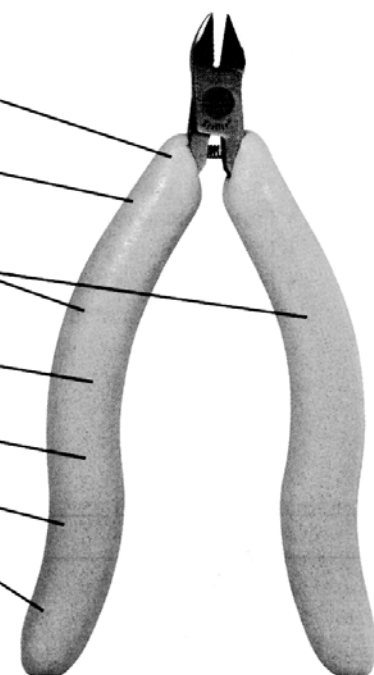
IDENTICALLY FORMED HANDLES ALLOW EITHER RIGHT OR LEFT-HAND USE

ANTI-STATIC GRIP MATERIAL DISSIPATES STATIC CHARGES

SOIL RESISTANT SURFACE EXTENDS GRIP LIFE

CONCAVE CONFIGURATION DISPERSES GRIPPING PRESSURE

EXTENDED HANDLE PERMITS USE OF ALL FINGERS



- **Lightweight construction**
- **Extended handle length** allows even application of force from all four fingers.
- **Exclusive, smooth, soft foam cushion grips** are free of abrupt edges and finger indentations.
- **Grip material is non-slip and compressible** to allow positive gripping and to absorb mechanical shock.
- **Handle contours adaptable for either right or left-hand use.**

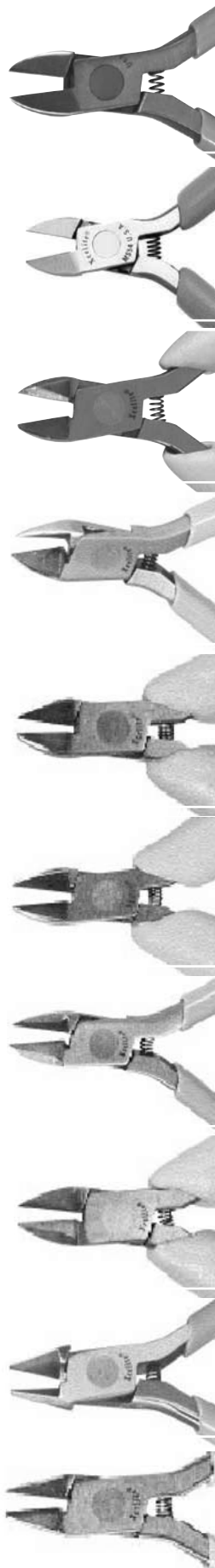
"E" Prefix = Accu-Lite Grips

"G" Suffix = Smooth Jaws

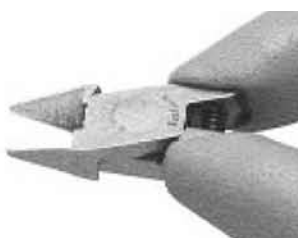
"V" Suffix = Hang Sell Pack



Diagonal Cutting Pliers



Description	Material No.	Shelf Pack	
Oval Head Cutter - Semi Flush <ul style="list-style-type: none"> • Diagonal cutting pliers/semi-flush • General-purpose cutting • Oval head for long life • Features green cushion grips 	MS54V	6	
Diagonal Head Cutter - Semi Flush <ul style="list-style-type: none"> • General-purpose cutting • Oval head for long life • Features green cushion grips 	MS54	6	
Oval Head Cutter - Flush <ul style="list-style-type: none"> • Oval head diagonal cutter • Flush cutting • General use • Features green cushion grips 	MS54J	6	
Tapered head diagonal cutter <ul style="list-style-type: none"> • Flush cutting of leads in restricted spaces • Narrow tips give increased clearance • Features green cushion grips 	MS549JV	6	
Oval head diagonal cutter <ul style="list-style-type: none"> • Semi-flush cutting • General-purpose cutting of steel wires • Accu-Lite Handles 	EMS54	6	
Tapered head diagonal cutter <ul style="list-style-type: none"> • Flush cutting • Accu-Lite Handles 	EMS549J	6	
Diagonal cutting pliers <ul style="list-style-type: none"> • Relieved tapered head-flush cutter • Allows use between closely spaced components • Features green cushion grips 	MS543JV	6	
Relieved tapered head diagonal cutter <ul style="list-style-type: none"> • Flush cutting • Clears closely spaced components • Accu-Lite Handles 	EMS543J	6	
Slim Line Tapered Head Cutter <ul style="list-style-type: none"> • Diagonal cutting pliers • Slim line tapered head • Semi-flush cutting • Features green cushion grip 	MS545V	6	
Slim Line Tapered Head Cutter <ul style="list-style-type: none"> • Diagonal cutting pliers • Slim line tapered head • Flush cutting • Features green cushion grips 	MS545JV	6	



- Slim Line Tapered Diagonal Cutter**
- Flush cutting
 - Allows use between closely spaced components
 - Accu-Lite Handles

EMS545J

6



- Relieved tapered head diagonal cutter**
- Flush cutting
 - For use in limited access areas
 - Features green cushion grips

S424JSV

6



- Tapered relieved head diagonal cutter**
- Flush cutting
 - For use in limited access areas
 - Features green cushion grips

S1415JS

1



- Diagonal lead cutter**
- Heavy-duty cutting
 - Features green cushion grips
 - S54S same as S54 plus handle coil spring
 - Boxed

S54

1



- Diagonal lead cutter**
- Heavy-duty cutting
 - Features green cushion grips
 - S54S same as S54 plus handle coil spring
 - Carded

S54SV

1



- Diagonal lead cutter with handle coil spring**
- Heavy-duty cutting
 - Semi-flush cutter
 - Features green cushion grips

S54KS

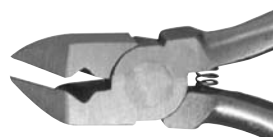
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- Oval head diagonal cutter**
- Regular beveled edge
 - Features green cushion grips
 - plus handle coil spring

S55S

6



- Xcelite® Diagonal End Cutter Pliers**
- Angled diagonal end cutter at 29°
 - Flush cutting
 - For cutting directly above the work area
 - To use on closely spaced adjacent components
 - Features green cushion grips

GA54JV

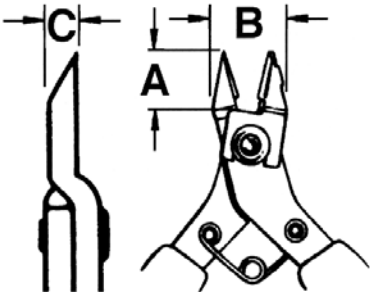
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Xcelite®

DIAGONAL CUTTING PLIERS

Stainless Steel Diagonal Cutting Pliers

Description	Material No.	Shelf Pack
-------------	--------------	------------



Klip Grip Feature

- For cutting soft non-ferrous wire, max. as specified, No. 25 gauge (.018") and smaller soft steel wire
- Ideal for tip cutting in delicate electronic circuitry work and where small lightweight pliers are required for use by women engaged in electronic component assembly
- Precision-machined, ground flush cutting edges
- Back clearance
- Offers up to 4 times the life of regular miniature diagonal pliers
- Patented handle spring

Flush Cut, 0.83" Diameter soft non-ferrous wire

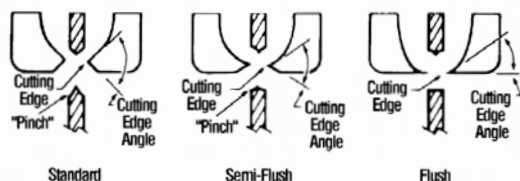
115CGV	6
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General

When selecting electronic cutting pliers, you should attempt to minimize your cost per cut by selecting the proper tool for each application. The type of cut, cutting area access, cutting edge quality and user preference will influence your choice.

Type of Cut

Electronic pliers are available with cutting edge angles that produce standard, semi-flush and flush cuts. These terms refer to the amount of "pinch" left on the tip of a wire after it has been cut



Standard cutting edges should be used for applications that are not sensitive to either the amount of shock transmitted through the wire to the component (during cutting) or to the amount of "pinch" left on the wire tip (after cutting).

Semi-flush edges can be employed for most applications. They reduce shock transmittal and wire tip "pinch."

Flush edges should be selected only for delicate applications, which require minimal shock transmittal and wire tip "pinch." Flush cutters produce a clean cut, which facilitates soldering and increases connection reliability. With small cutting edge angles, the life of flush cutters is substantially less than that of semi-flush cutters. The larger the cutting edge angle, the more cuts you can expect from the tool. For electronic assembly work, the semi-flush cutter is often the most cost-effective choice.

Cutting Area Access

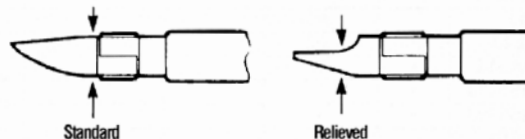
Access to cutting areas can determine the shape and thickness of the cutting head. Tight clearances around the cutting area, the need to reach over in-place components or to work from directly above, and visibility requirements are all factors which will affect your choice of a tool. However, it is important to recognize that head shape and thickness are directly related to cutting edge life



Head Shape

Always select a cutter with the largest head that will meet your particular cutting requirements. It is a proven fact that more material behind the cutting edges gives more cuts and longer life.

Oval head cutters are the most versatile. They have the most material behind the cutting edges, and last longest. Tapered and angled head cutters should be selected only when access to the cutting area is limited. These cutters have less head mass, and provide proportionally fewer cuts.



Head Thickness

Head thickness is related to cutting life in the same way as head shape. Cutting pliers with thicker heads also last longer. Whenever possible, use pliers with standard head thickness. Relieved head designs should be chosen only to accommodate difficult access problems.

Cutting Edge Quality

The quality of a pair of cutting pliers can be determined by visual inspection. The blades should meet smoothly and evenly at the tips. From a point just behind the tips to the joint, an increasing amount of light should be visible



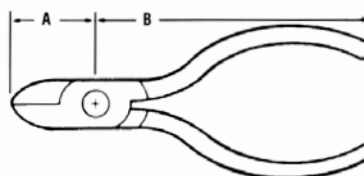
A precision tip interface assures clean cutting of fine wires, while the "no contact" area behind the tips extends cutter life by allowing the tips to continue to meet as they wear.

User Preference

Other considerations can be a matter of personal preference. Handle shape, grip color, grip material, spring tension and leverage ratio are usually related to user comfort.

Proper spring tension will allow pliers to open and close with minimum effort. Finally, pliers with high leverage ratios provide the greatest ease of use and the longest life.

Leverage Ratio



Leverage ratio is obtained by dividing dimension A into dimension B.

* Maximum Tensile Strength




Catalog Number	Flush Edge	Semi-Flush Edge	Standard Edge	36 Ga. (.005) Teflon Coated Copper Wire	25 Ga. (.017) Soft Copper Wire	22 Ga. (.025) Soft Copper Wire	20 Ga. (.034) *90,000 PSI Steel Wire	20 Ga. (.034) *120,000 PSI Steel Wire	18 Ga. (.047) *200,000 PSI Steel Wire
840		•			•	•		•	
841J		•			•	•	•	•	
841JLPY	•			•	•	•	•		
844J		•			•	•	•	•	
EC54J	•				•	•	•		
EGA54J	•				•	•	•		
EMS543J	•				•	•	•		
EMS549J	•				•	•	•		
EMS54		•				•		•	
GA54J	•				•	•	•		
LC665J	•				•	•	•		
MS54			•				•		•
MS543J	•				•	•	•		
MS545		•				•		•	
MS545J	•				•	•	•		
MS549J	•				•	•	•		
S1415JS	•				•	•	•		
S424JS	•				•	•	•		
S54				•			•		•
S54KS		•				•		•	
S54S			•			•			•
S55				•			•		•
S55KS		•				•		•	
S55S			•			•			•
SN54			•				•		•
SN55			•				•		•
TC55			•				•		•

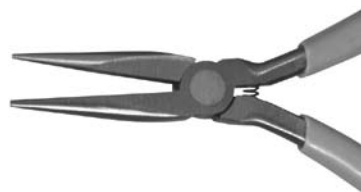
COPALLOY® ELECTRONIC PLIERS

Provide the ultimate in precision plier

- Manufactured to the highest professional quality
- Easily handles a wide range of electronic assembly requirements
- Features a copper alloy rivet to eliminate steel-to-steel friction
- Smooth, easy-working, corrosion-proof joint
- Maintains perfect cutting edge and tip alignment
- All Xcelite® cutters and pliers are standard with ESD safe cushion grip handles. Exception: red grip products



Description	Material No.	Shelf Pack	
Diagonal Chain Nose Pliers <ul style="list-style-type: none"> • Short chain nose pliers • Serrated jaws • Heavy-duty • Features green cushion grips 	LN225 	6	
Curved nose pliers <ul style="list-style-type: none"> • Thin tip • feature green cushion grips • Features smooth jaws 	CN255 	1	
	CN255G 	1	



Diagonal Chain Nose Pliers

- Thin long nose pliers
- General-purpose use
- Serrated jaws
- For pick-up and wire forming
- Features green cushion grips

Material No.

Shelf
Pack

LN54V

6

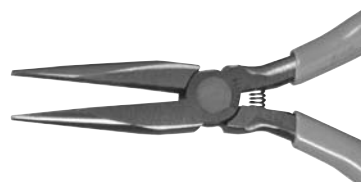


Thin long nose pliers

- Fine point for precision work
- For pick-up and wire forming
- Serrated jaws
- Features green cushion grips

LN542

6



Thin long nose pliers with smooth jaws

- General-purpose use
- For pick-up and wire forming
- Features green cushion grips

LN54GV



Thin long nose pliers

- General-purpose use pick-up and wire forming
- ELN54 features fine serrated jaws
- ELN54G features smooth jaws
- Accu-Lite Handles

ELN54G

1

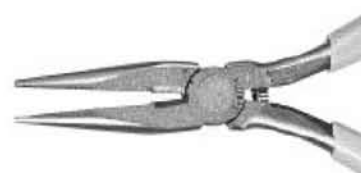


Thin long nose pliers

- General-purpose
- Fine serrated jaws
- Features green cushion grips

LN55V

1

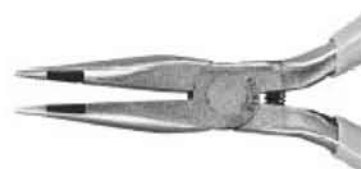


Long nose side cutting pliers

- For general wire applications
- For reaching into confined working spaces
- Serrated jaws
- Features green cushion grips

SN55V

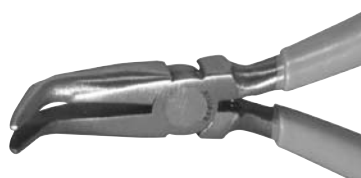
1



Wiring pliers with tip cutter

- Long nose
- Features green cushion grips

TC55V







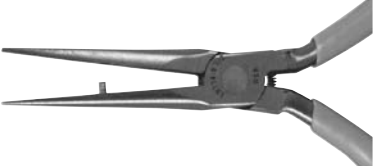






60° curved long nose pliers

- Smooth jaws
- For reaching between closely spaced components
- Features green cushion grips

CN54G



	Description	Material No.	Shelf Pack	
	Round nose pliers <ul style="list-style-type: none">• Round, smooth jaws tapered to point• For looping and forming of fine wire• Features green cushion grips	RN54 	1	
	Flat nose pliers <ul style="list-style-type: none">• Smooth jaws• For holding and forming wire and small parts• Features green cushion grips	DN54GV 	1	
	Subminiature needle nose pliers <ul style="list-style-type: none">• Positive gripping of fine wire or subminiature components• Fine point allows use in confined areas• L4G features smooth jaws• Features green cushion grips	L4V 	6	
		L4G	6	
	Slim line needle nose pliers <ul style="list-style-type: none">• For use between tightly spaced components• NN54, NN55, feature serrated jaws• NN54G, NN55G feature smooth jaws• Features green cushion grips 	NN54V	6	
		NN54G	6	
		NN55	6	
		NN55G	6	
	Fine point needle nose pliers <ul style="list-style-type: none">• Positive gripping of fine wires or subminiature components• Long, thin nose with fine serrated jaws• Features green cushion grips	NN542 	1	
	Wiring and pick-up pliers <ul style="list-style-type: none">• With alignment pin• Long nose design• Features green cushion grips	LN774512C 	1	
	Slim line needle nose pliers <ul style="list-style-type: none">• Fine tip• LN775512G features smooth jaws• Features green cushion grips	LN775512 		
	Curved long nose pliers <ul style="list-style-type: none">• For reaching into confined spaces• Features green cushion grips	CN7776 	6	



Long needle nose pliers



- Extra long nose
- NN7776G features smooth jaws
- Features green cushion grips

A compact kit designed for the sophisticated electronics technician or dedicated hobbyist

- Consists of the six most popular Copaloy electronics pliers
- Durable pocket-pouch with heavy-duty snaps
- Each professional quality tool features the unique Copaloy rivet for smoother action

Kit Includes:

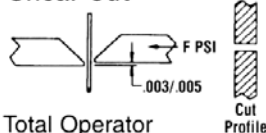
- EC54J 4 1/2" Transverse end cutting pliers
- MS54 4" Diagonal cutting pliers
- SN54 5" Long nose pliers with side cutter
- NN54 5" Fine tip needle nose pliers
- DN54G 5" Flat nose pliers
- LN54 5" Long nose pliers
- Pocket pouch with snaps

Description	Material No.	Shelf Pack	
<p>Long needle nose pliers</p> <ul style="list-style-type: none"> • Extra long nose • NN7776G features smooth jaws • Features green cushion grips 	<p>NN7776V</p> <p>6</p>		
	<p>NN7776G</p> <p>1</p> <p></p>		
<p>A compact kit designed for the sophisticated electronics technician or dedicated hobbyist</p> <ul style="list-style-type: none"> • Consists of the six most popular Copaloy electronics pliers • Durable pocket-pouch with heavy-duty snaps • Each professional quality tool features the unique Copaloy rivet for smoother action <p>Kit Includes:</p> <ul style="list-style-type: none"> • EC54J 4 1/2" Transverse end cutting pliers • MS54 4" Diagonal cutting pliers • SN54 5" Long nose pliers with side cutter • NN54 5" Fine tip needle nose pliers • DN54G 5" Flat nose pliers • LN54 5" Long nose pliers • Pocket pouch with snaps 	<p>C1K</p> <p>1</p> <p></p>		

- Xcelite's Shearcutter flush cutting tools require less than half the operator force of most wire and lead cutting tools and transmit proportionately less shock to the component
- As a result, they comply with MIL-STD-2000, DOD-STD-2000 and WS-6536E standards
- Grips are molded of wide, shock absorbing material for operator comfort
- Models 175 and 2178 incorporate safety clips which effectively eliminate flying leads
- However, safety glasses are still recommended when using these tools

Superior Quality and Value

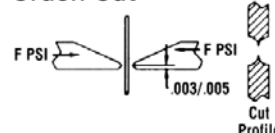
Shear Cut



Total Operator

Force = Less Than $1/2 F$

Crush Cut



Total Operator Force = F

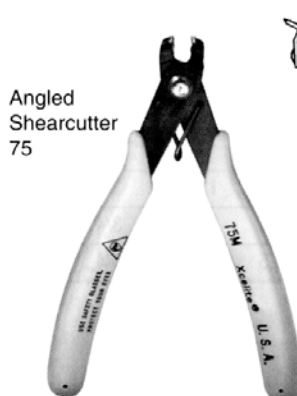
In shearcutting, one edge acts as an anvil while the other edge shears off the lead.



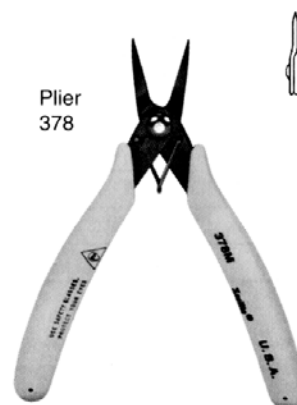
Shearcutter
170/175



Heavy-Duty
Shearcutter
1178/2178

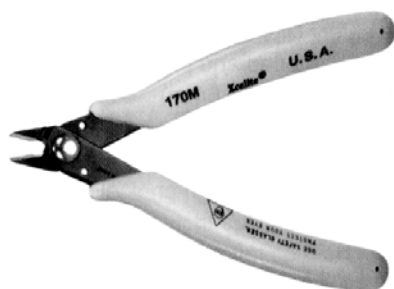


Angled
Shearcutter
75



Plier
378

Product features



Shearcutter — Light blue grips (Suffix "M")

- Advanced handle design
- Made from high quality carbon steel
- Non-glare black finish
- Superior shearing action



Static-dissipative pliers — black grips (Suffix "D")

- Advanced handle design
- Specially hardened and plated
- Non-glare black finish
- Superior shearing action



Shearcutters & Pliers



Safety Clip

Safety Clip

Description	Material No.	Shelf Pack	
General Purpose Shearcutters <ul style="list-style-type: none"> • Low profile, general-purpose cutter • Superior blade by-pass shear cutting action • Better cuts with half the effort • Greatly reduced mechanical shock delivered to the work • 170M, 175M feature light blue grips • 170D, 175D feature static-dissipative black grips • 175M, 175D feature safety clips • 170D, 175D especially hardened and plated • Flush cuts soft wire up to 20 AWG (0.8mm) 	170M	6	
	170D	6	
	175M	6	
	175D	6	
Heavy Duty Shearcutters <ul style="list-style-type: none"> • Heavy-duty for IC pins, cables and harnesses • Maximum durability • Safety clip (on some models) prevents flying leads • Maximum operator safety • 1178M, 2178M feature light blue grips • 1178D, 2178D feature static-dissipative black grips • 2178M, 2178D feature safety clips • 1178D, 2178D especially hardened and plated • Flush cuts soft wire up to 14 AWG (1.6mm) 	1178M	1	
	1178D	6	
	2178M	1	
	2178D	6	
2 piece Shearcutter/Plier Set <ul style="list-style-type: none"> • The most popular all-purpose miniature electronic flush cutter and needle-nose plier • Superior overall quality • Advanced handle design • Highest quality carbon steel • Non-glare black finish • Lightweight construction 	S2K	10	
Shearcutter - 75° Angle <ul style="list-style-type: none"> • 75° angle for natural cutting position • Provides superior sight lines • Allows easier cutting in tight spaces • Slim profile for better approach • 75M features light blue grips • 75D features static-dissipative black grips and especially hardened and plated • Flush cuts soft wire up to 20 AWG (0.8mm) 	75M	6	
	75D	6	
Smooth/Serrated Jaw Pliers <ul style="list-style-type: none"> • Thin profile, long reach pliers • For access into tight spaces • Lightweight for maximum comfort • For use in precision electronic assembly applications • 378M feature serrated jaws • 378SMM feature smooth jaws • Both feature light blue grips 	378M	1	
	378SMM	1	
Hard Wire (Piano and Music) Cutter <ul style="list-style-type: none"> • Shear cutting action • Ensures square cut ends • Captures material on both sides of jaw, eliminates flying segments • Patented spring loaded hold-down keeps material at 90° to tool blade • Prevents material from forcing jaws apart • Wire capacity .062 • Stranded cable capacity 1/16" 	134CG	6	