

# Xcelite®



Precision screwdrivers,  
nutdrivers, pliers,  
cutters, and tool kits.

# Xcelite®

Originating from a tiny metalworking company in 1921, the Xcelite® brand of precision hand tools has been a favorite of service technicians for over 75 years. It is now known throughout the electronics industry for its full line of high quality precision screwdrivers, nutdrivers, pliers, cutters, interchangeable-blade sets, specialized tools and kits.

## FEATURE CODES

- E = (Prefix) "Accu-Lite" Grips
- V = Blister carded
- J = Flush cutting edges
- K = Semi-flush cutting edges
- S = Coil spring
- G = Smooth jaws

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Torx® is the trademark of Camcar Division of Textron Inc.  
Allen® is a registered trademark of Apex Brands, Inc.  
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## Xcelite® Tool Selection Guide

### Allen® Type Hex Socket Screws



Xcelite driver or blade

Cap screws 1960 series Nominal screw sizes	1936 series.	Flat head cap screws	Button head cap screws	Shoulder screwsh	Set screws	Catalog number	Hex size (inches)
-	-	-	-	-	0		.028
-	-	0	0	-	1&2	P19	.035
0	0&1	1&2	1&2	-	3&4	LN20, P20, 9920	.050
1	2	3&4	3&4	-	5&6	LN21, 9921	1/16
2&3	3&4	5&6	5&6	-	8	LN22, P22, 9922	5/64
4&5	5&6	8	8	-	10	LN23, P23, 9923	3/32
6	-	-	-	-	-	LN764, 99764	7/64
-	8	10	10	1/4	1/4	9924	1/8
8	-	-	-	-	-	LN964, 99964	9/64
10	10&12	1/4	1/4	5/16	5/16	LN25, 9925	5/32
1/4	1/4	5/16	5/16	3/8	3/8	9926	3/16
-	5/16	3/8	3/8	-	7/16		7/32
5/16	-	7/16	-	1/2	1/2		1/4

## Phillips® Type Screws



Xcelite driver or blade

Wood screw Flat Oval	Round	Machine screw Flat Oval Binding	Round Fillister	Sheetmetal Truss Brazier Button	Flat Round Oval Stove Binding	Point size	Blade diameter (inches)
0.1	0.1	0.1	0.1	-	-	0	1/8
2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4, 5	2, 3, 4	1	3/16
5, 6, 7	5, 6, 7	5, 6, 8	5, 6, 8	6, 8, 10	5, 6, 7		
8, 9	8, 9, 10	10	10		8, 10	2	1/4
10, 12	12, 14	12, 1/4"	12, 1/4"	12, 1/4"	12, 14		
14, 16	16		5/16"			3	5/16
18, 20	18, 20	5/16", 3/8"	3/8", 7/16"	5/16", 3/8"	-	7/64	
24	24	7/16", 1/2"	1/2"	7/16", 1/2"		4	3/8
-	-	-	-	-	LN964, 99964	9/64	
10&12	1/4	1/4	5/16	5/16	LN25, 9925	5/32	
1/4	5/16	5/16	3/8	3/8	9926	3/16	
5/16	3/8	3/8	-	7/16		7/32	
-	7/16	-	1/2	1/2		1/4	

Note: See fixed handle drivers; compact convertible sets; Series 99® sets and interchangeable blades; combination reversible drivers, kits, and blades, offset ratchet screwdriver sets.

## Xcelite® Tool Selection Guide

### Bristol Type Multiple-spline Socket Screws



Xcelite blade

Set screws	Cap screws 1960 screws.	Flat head	Button head	Catalog number	Tip size (inches)	Number of flutes
No. 2-No. 3	-	No. 0	No. 0	9961	.048	6
No. 4	No. 0	No. 1-No. 2	No. 1-No. 2	9962	.060	6
No. 5	-	-	-	9963	.069	4
No. 5-No. 6	No. 1	No. 3-No. 4	99-64	9964	.072	6
No. 8	No. 2-No. 3	No. 5-No. 6	No. 5-No. 6	9966	.096	6
No. 10	No. 4-No. 5	No. 8	No. 8	9967	.111	6
1/4"	-	No. 10	No. 10	-	.145	6
5/16"	No. 10	1/4"	1/4"	9969	.183	6

### Slotted Screws

Xcelite driver  
or blade

Screw size	Tip size (inches).
0	3/32
1	3/32
2	1/8
3	5/32
4	3/16
5	3/16
6	1/4
7	1/4
8	5/16
9	5/16
10	5/16
12	3/8
14	3/8
16	7/16
18	7/16

### Hex Head Screws

Xcelite driver  
or blade

Screw size	Tip size (inches).	Screw size	Tip size (inches)
1	.073	4	1/8
2	.086	4	1/8
3	.099	6	3/16
4	.112	6	3/16
5	.125	6	3/16
6	.138	8	1/4
7	.151	8	1/4
8	.164	8	1/4
10	.190	10	5/16
12	.216	10	5/16
1/8	.250	12	3/8
1/8	.312	16	1/2
1/8	.375	18	9/16

\*See fixed handle drivers catalog numbers with or without prefix P, HS, A or AA, magnetic nutdrivers with suffix M; and Series 99® blades with prefix 99.

Note: See round and square blade fixed handle drivers, compact convertible sets, Series 99® kits and interchangeable blades, combination reversible blade drivers and kits, offset ratchet screwdriver sets.

## Xcelite® Tool Selection Guide

### Hex Head Bolts and Hex Head Cap Screws



Xcelite  
nutdriver or  
blade

Bolt or screw size	Number*	Hex opening (inches)
1/4	14	7/16
5/16	16	1/2
3/8	18	9/16
7/16	20	5/8
1/2	24	3/4

\*See fixed handle drivers catalog numbers with or without prefix P, HS, A, or AA; Magnetic nutdrivers with suffix M; and Series 99® blades with prefix 99.

### Torx® Screws



Xcelite  
Driver

Torx size	Catalog number
T8	XTD8
T10	XTD10
T15	XTD15
T20	XTD20
T25	XTD25
T27	XTD27
T30	XTD30

### Hex Machine Screw Nuts



Xcelite  
nutdriver or  
blade

Nut size (inches)	For screw diameter.	Number*	Hex opening.
0	.060	5	5/32
1	.073	5	5/32
2	.086	6	3/16
3	.099	6	3/16
4	.112	8	1/4
5	.125	10	5/16
6	.138	10	5/16
8	.164	11	11/32
10	.190	12	3/8
12	.216	14	7/16
1/4	.250	14	7/16
5/16	.312	18	9/16
3/8	.375	20	5/8

\*See fixed handle drivers catalog numbers with or without prefix P, HS, A or AA, magnetic nutdrivers with suffix M; and Series 99® blades with prefix 99.

### Hex Nuts



Xcelite  
nutdriver or  
blade

Nut size	Number*	Hex opening (inches)
1/4	14	7/16
5/16	16	1/2
3/8	18	9/16
7/16	22	11/16
1/2	24	3/4

\*See fixed handle drivers catalog numbers with or without prefix P, HS, A, or AA; Magnetic nutdrivers with suffix M; and Series 99® blades with prefix 99

## Screwdrivers

Except where otherwise noted, all blades are AISI 6150 chrome vanadium steel, plated for protection.

### 6-Piece Precision Electronic Screwdriver Set



- ESD safe to provide protection to ESD sensitive items
- Chrome-molybdenum vanadium steel blades provide superior strength
- Fast turning swivel caps w/cavity provides optimum control for precise centering
- Black oxide tips for longer wear life
- No-roll handle design keeps drivers from rolling off uneven surfaces
- Storage case provides a home and keeps drivers safe

Catalog number	UPC No.	Packed	Description	Contents	Product Weight
<b>XP600</b>	037103157513	Storage Case	6 Piece ESD safe slotted/Phillips® screwdriver set with storage case	1.5mm x 60mm slotted tip screwdriver 2.0mm x 60mm slotted tip screwdriver 2.5mm x 60mm slotted tip screwdriver 3.0mm x 60mm slotted tip screwdriver #0 point Phillips® tip screwdriver #00 point Phillips® tip screwdriver	0.50 lb

### 6-Piece Precision Electronic Torx® Set



- ESD safe to provide protection to ESD sensitive items
- Chrome-molybdenum vanadium steel blades provide superior strength
- Fast turning swivel caps w/cavity provides optimum control for precise centering
- Black oxide tips for longer wear life
- No-roll handle design keeps drivers from rolling off uneven surfaces
- Storage case provides a home and keeps drivers safe

Catalog number	UPC No.	Packed	Description	Contents	Product Weight
<b>XPTX600</b>	037103157720	Storage Case	6 Piece ESD safe Torx® screwdriver set with storage case	(1) #5 point standard Torx® tip screwdriver (1) #6 point standard Torx® tip screwdriver (1) #7 point standard Torx® tip screwdriver (1) #8 point standard Torx® tip screwdriver (1) #10 point standard Torx® tip screwdriver (1) #15 point standard Torx® tip screwdriver	0.50 lb

### 6-Piece Precision Electronic Nutdriver Set



- ESD safe to provide protection to ESD sensitive items
- Chrome-molybdenum vanadium steel blades provide superior strength
- Fast turning swivel caps w/cavity provides optimum control for precise centering
- Black oxide tips for longer wear life
- No-roll handle design keeps drivers from rolling off uneven surfaces
- Storage case provides a home and keeps drivers safe

Catalog number	UPC No.	Packed	Contents	Blade Length	Overall Length	Product Weight
<b>XPND600</b>	037103265449	Storage Case	7/64", 1/8", 9/64", 5/32", 3/16", 7/32" nutdrivers	2.25 in	6.25 in	0.50 lb

## Pro Series Electronic Screwdrivers and Sets



- The handle core is made of hard shockproof plastic for durability, while the outer coating is soft rubber for comfort and slip resistance
- ESD safe hard plastic core to protect sensitive components
- The handles are ergonomically designed, allowing sustained high torque with minimal slippage and muscle fatigue
- Smooth shatterproof seamless handle cap for minimal friction between hand and handle when screwdriver is being turned
- Narrow pinch grip for comfort and control
- Thumb bolster allows added downward force
- Satin finish chrome molybdenum steel shafts provide durability
- Specially treated black oxide tips eliminate light reflection

Cat. No.	UPC No.	Packaging	Description	Contents	Product Weight
XPE500	037103183323	Hanging Display Box	5 Piece ESD safe slotted/Phillips® Pro Series screwdriver set	(1) Phillips® tip Ergo handle screwdriver, #1 x 4" (1) Phillips® tip Ergo handle screwdriver, #2 x 4" (1) Slotted tip screwdriver, 1/8" x 4" (1) Slotted tip screwdriver, 3/16" x 6" (1) Slotted tip screwdriver, 1/4" x 4"	0.87 lb
XPE700	037103153838	Hanging Display Box	7 Piece ESD safe slotted/Phillips® Pro Series screwdriver set	(1) Phillips® tip Ergo handle screwdriver, #1 x 4" (1) Phillips® tip Ergo handle screwdriver, #2 x 4" (1) Slotted tip screwdriver, 1/8" x 4" (1) Slotted tip screwdriver, 5/32" x 4" (1) Slotted tip screwdriver, 5/32" x 6" (1) Slotted tip screwdriver, 3/16" x 6" (1) Slotted tip screwdriver, 1/4" x 4"	0.97 lb

## 6-Piece Ergonic® Screwdriver Set

**ergonic**



- Ergonic® soft inner core conforms to hand as torque is applied for maximum comfort, slip resistance and 20%-30% more torque
- Precision machined tip to prevent point loading and deformation of fastener
- Smooth shatterproof seamless handle cap with easy hang-through hole design
- Narrow pinch grip for comfort and control
- Thumb bolster allows added downward force
- Durable shockproof plastic handle co-molded to blade for maximum adherence
- Durable satin finish chrome molybdenum steel shafts
- Black oxide all steel tip for maximum strength, precision fit and minimized light reflection

Cat. No.	UPC No.	Packaging	Product Weight
XPS600	037103265470	Display Box	1.11 lb

Cat. No.	Description	Qty.	Cat. No.	Description	Qty.
XPS184	Screwdriver, 1/8" Slotted Ergonic®	1	XPS5144	Screwdriver, 1/4" Slotted Ergonic®	1
XPS5324	Screwdriver, 5/32 Slotted Ergonic®	1	XPS1014	Screwdriver, #1 Phillips® Ergonic®	1
XPS3164	Screwdriver, 3/16" Slotted Ergonic®	1	XPS1024	Screwdriver, #2 Phillips® Ergonic®	1

## Ergonic® Screwdrivers - Phillips®

ergonic



- Ergonic® soft inner core conforms to hand as torque is applied for maximum comfort, slip resistance and 20%-30% more torque
- Precision machined tip to prevent point loading and deformation of fastener
- Smooth shatterproof seamless handle cap with easy hang-through hole design
- Narrow pinch grip for comfort and control
- Thumb bolster allows added downward force
- Durable shockproof plastic handle co-molded to blade for maximum adherence
- Durable satin finish chrome molybdenum steel shafts
- Black oxide all steel tip for maximum strength, precision fit and minimized light reflection

Catalog number	UPC No.	Packaging	Tip Size	Blade Length	Overall Length	Product Weight
XPS1014	037103265487	Hang Tab	#1	3 in	7 in	0.11 lb
XPS1024	037103265494	Hang Tab	#2	4 in	8 in	0.20 lb

## Ergonic® Screwdrivers - Slotted

ergonic



- Ergonic® soft inner core conforms to hand as torque is applied for maximum comfort, slip resistance and 20%-30% more torque
- Precision machined tip to prevent point loading and deformation of fastener
- Smooth shatterproof seamless handle cap with easy hang-through hole design
- Narrow pinch grip for comfort and control
- Thumb bolster allows added downward force
- Durable shockproof plastic handle co-molded to blade for maximum adherence
- Durable satin finish chrome molybdenum steel shafts
- Black oxide all steel tip for maximum strength, precision fit and minimized light reflection

Catalog number	UPC No.	Packaging	Tip Size	Blade Length	Overall Length	Product Weight
XPS184	037103265463	Hang Tab	1/8"	4 in	7.50 in	0.08 lb
XPS5324	037103265371	Hang Tab	5/32"	4 in	7.75 in	0.11 lb
XPS3164	037103265500	Hang Tab	3/16"	6 in	10.00 in	0.17 lb
XPS5144	037103265456	Hang Tab	1/4"	4 in	8.00 in	0.20 lb



## 8-in-1 Screwdriver



- Ergonomic soft-grip handle for maximum torque
- Telescopic turn-and-click depot of 7 bits
- 1/4" hex driver utilized with strong magnetic bit holding power
- Includes 8 Industrial grade bits
- Chrome-molybdenum vanadium steel blade provides superior strength
- Durable low glare satin finish shaft
- Thumb bolster for added downward force
- No-roll handle design keeps screwdriver from rolling off uneven surfaces

Catalog number	UPC No.	Packaging	Contents	Blade Length	Overall Length	Product Weight
XPMB8	037103265432	Carded	Industrial grade bits: Phillips #1, #2, #3 Slotted 1/8", 3/16" Torx 15, 20, 25	3 in	7 in	0.11 lb

## Extra Long Screw-Holding Screwdrivers - Slotted



- Unbeatable screw holding flexibility around hard to reach areas requiring screw extraction, replacement and or tightening
- Screw-holding screwdrivers are ESD safe for protection to static sensitive components
- Ergonomic handle design allows sustained high torque
- Smooth shatterproof seamless handle cap
- Narrow pinch grip for comfort and control
- Thumb bolster allows added downward force
- Durable shockproof plastic handle core
- Durable satin finish chrome molybdenum steel shafts
- Easy hang-through hole design

Catalog number	UPC No.	Packaging	Tip Size	Blade Length	Overall Length	Product Weight
XPHS188	037103265388	Hang Tab	1/8"	7 3/4 in	11 in	0.10 lb
XPHS5328	037103265425	Hang Tab	5/32"	7 3/4 in	11 1/4 in	0.14 lb
XPHS3168	037103265418	Hang Tab	3/16"	7 3/4 in	11 1/4 in	0.22 lb

## Extra Long Screw-Holding Screwdriver - Phillips®



- Unbeatable screw holding flexibility around hard to reach areas requiring screw extraction, replacement and or tightening
- Screw-holding screwdrivers are ESD safe for protection to static sensitive components
- Ergonomic handle design allows sustained high torque
- Smooth shatterproof seamless handle cap
- Narrow pinch grip for comfort and control
- Thumb bolster allows added downward force
- Durable shockproof plastic handle core
- Durable satin finish chrome molybdenum steel shafts
- Easy hang-through hole design

Catalog number	UPC No.	Packaging	Tip Size	Blade Length	Overall Length	Product Weight
XPHS1018	037103265395	Hang Tab	#1	7 3/4 in	11 in	0.17 lb
XPHS1028	037103265401	Hang Tab	#2	7 3/4 in	11 1/4 in	0.25 lb

## Pocket Clip Style - Round Blade



Blade made from AISI 6150 chrome vanadium steel

Catalog Number	UPC Number	Packed	Handle color	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Screwdriver length
<b>R3322</b>	037103485656	Boxed	Green	3/32	2	51	4 1/4	108	12
<b>R3322V</b>	037103485663	Carded	Green	3/32	2	51	4 1/4	108	12
<b>R3323</b>	037103485670	Boxed	Green	3/32	3	76	5 1/4	133	12
<b>R3323V</b>	037103488725	Carded	Green	3/32	3	76	5 1/4	133	6
<b>R3324</b>	037103485687	Boxed	Green	3/32	4	102	6 1/4	159	12
<b>R3324V</b>	037103488732	Carded	Green	3/32	4	102	6 1/4	159	6
<b>R181</b>	037103485458	Boxed	Red	1/8	2	51	4 1/4	108	12
<b>R181V</b>	037103485465	Carded	Red	1/8	2	51	4 1/4	108	12
<b>R183</b>	037103485489	Boxed	Red	1/8	3	76	5 1/4	133	6
<b>R183V</b>	037103488688	Carded	Red	1/8	3	76	5 1/4	133	6

## Regular - Round Blade



R184



R144



R3166



R148

Catalog Number	UPC Number	Packed	Blade diameter (inch)	Blade length (inch)	Blade length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
R182	037103485472	Boxed	1/8	2	51	4 5/8	117	6
R182V	037103488671	Carded	1/8	2	51	4 5/8	117	6
R183	037103485489	Boxed	1/8	3	76	5 1/4	133	6
R183V	037103488688	Carded	1/8	3	76	5 1/4	133	6
R184	037103485496	Boxed	1/8	4	102	6 5/8	168	6
R184V	037103485502	Carded	1/8	4	102	6 5/8	168	6
R186	037103485519	Boxed	1/8	6	152	8 5/8	219	6
R186V	037103485526	Carded	1/8	6	152	8 5/8	219	6
R188	037103485533	Boxed	1/8	8	203	10 5/8	270	6
R188V	037103485540	Carded	1/8	8	203	10 5/8	270	6
R1810	037103485571	Boxed	1/8	10	254	12 5/8	321	6
R5323	037103485731	Boxed	5/32	3	76	5 5/8	143	6
R5324	037103485748	Boxed	5/32	4	102	6 5/8	168	6
R5325	037103485755	Boxed	5/32	5	127	7 5/8	194	6
R3163	037103485588	Boxed	3/16	3	76	6 5/8	168	6
R3164	037103485601	Boxed	3/16	4	102	7 5/8	194	6
R3164V	037103485618	Carded	3/16	4	102	7 5/8	194	6
R3166	037103485625	Boxed	3/16	6	152	9 5/8	244	6
R3166V	037103485632	Carded	3/16	6	152	9 5/8	244	6
R3168	037103485649	Boxed	3/16	8	203	11 5/8	295	6
R31610	037103485786	Boxed	3/16	10	254	13 5/8	346	6
R144	037103485403	Boxed	1/4	4	102	8 1/8	206	6
R144V	037103485410	Carded	1/4	4	102	8 1/8	206	6
R146	037103485427	Boxed	1/4	6	152	10 1/8	257	6
R146V	037103485434	Carded	1/4	6	152	10 1/8	257	6
R148	037103485441	Boxed	1/4	8	203	12 1/8	308	6
R1410	037103485564	Boxed	1/4	10	254	14 1/8	359	6
R5164	037103485694	Boxed	5/16	4	102	8 1/2	216	6
R5166	037103485700	Boxed	5/16	6	152	10 1/2	267	6
R5168	037103485724	Boxed	5/16	8	203	12 1/2	317	6
R388	037103485557	Boxed	3/8	8	203	12 1/2	317	6

## Round Blade Screwdriver Set



- Xcelite® Catalog No. SDR11 consists of 5 round blade screwdrivers for slotted screws (R182, R5324, R3166, R144 and R5166)

Catalog number	UPC No.	Packed	Description	Shelf pack
<b>SDR11</b>	037103486103	Pouch	5 round blade screwdrivers for slotted screws	1

## Stubby - Square Blade



- Stubby square blade screwdrivers
- Blades made of AISI 6150 chrome vanadium steel, plated for protection

Catalog Number	UPC Number	Packed	Blade diameter (inch)	Blade length (inch)	Blade length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>S3161</b>	037103485922	Boxed	3/16	1 1/4	32	3 1/4	83	6
<b>S141</b>	037103485854	Boxed	1/4	1 1/4	32	3 1/4	83	6

## Regular - Square Blade



- Regular square blade screwdrivers
- Blades made of AISI 6150 chrome vanadium steel, plated for protection

Catalog Number	UPC Number	Packed	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>S3163</b>	037103485939	Boxed	3/16	3	76	6 5/8	168	6
<b>S3164</b>	037103485953	Boxed	3/16	4	702	7 5/8	194	6
<b>S3166</b>	037103485977	Boxed	3/16	6	152	9 5/8	244	6
<b>S144</b>	037103485861	Boxed	1/4	4	102	8 1/8	206	6
<b>S146</b>	037103485885	Boxed	1/4	6	152	10 1/8	257	6
<b>S5164</b>	037103486028	Boxed	5/16	4	102	8 1/2	216	6
<b>S5166</b>	037103486035	Boxed	5/16	6	152	10 1/2	216	6
<b>S5168</b>	037103486059	Boxed	5/16	8	203	12 1/2	317	6
<b>S388</b>	037103485915	Boxed	3/8	8	203	12 1/2	317	6
<b>S3812</b>	037103486004	Boxed	3/8	12	305	18	457	6

## Square Blade Screwdriver Set



- Xcelite® Catalog No. SDS44 consists of 5 square blade screwdrivers for slotted screws (S141, S3164, S144, S5166 and S388)

Catalog number	UPC No.	Packed	Description	Shelf pack
<b>SDS44</b>	037103486110	Pouch	5 square blade screwdrivers for slotted screws	1

## Screwdrivers for Recess Head Screws



- Screwdriver for recess head screws
- Pocket clip style - Phillips® type
- No. 0 x 2"

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Blade length (inch)	Blade length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>P12S</b>	037103484857	Boxed	0	1/8	2	51	4 1/4	108	12
<b>P12SV</b>	037103486905	Carded	0	1/8	2	51	4 1/4	108	12

## Stubby - Phillips® Type



- Stubby round blade screwdriver for Phillips® screws
- Blades made of AISI 6150 chrome vanadium steel, plated for protection

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Blade length (inch)	Blade length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>SX101</b>	037103486226	Boxed	1	3/16	1 1/4	32	3 1/4	83	6
<b>SX102</b>	037103486233	Boxed	2	1/4	1 5/16	33	3 3/8	86	6

## Screwdriver - Scrulox Type



- Round blade for Scrulox fasteners
- Shanks plated for protection

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Blade length (inch)	Blade length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>SL2V</b>	037103488022	Carded	#2	19/64	7 5/8	194	3 1/2	89	6

## Regular – Phillips® Type



- Regular Phillips® type screwdrivers
- Blades made of AISI 6150 chrome vanadium steel, plated for protection

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>X100</b>	037103486370	Boxed	0	1/8	2	50	4 5/8	117	6
<b>X101</b>	037103486394	Boxed	1	3/16	3	76	6 5/8	168	6
<b>X101V</b>	037103486400	Carded	1	3/16	3	76	6 5/8	168	6
<b>X108</b>	037103486462	Boxed	1	3/16	6	152	9 5/8	244	6
<b>X108V</b>	037103486479	Carded	1	3/16	6	152	9 5/8	244	6
<b>X102</b>	037103486417	Boxed	2	1/4	4	102	8 1/8	206	6
<b>X102V</b>	037103486424	Carded	2	1/4	4	102	8 1/8	206	6
<b>X103</b>	037103486431	Boxed	3	5/16	6	152	10 1/2	267	6

## Extra long – Phillips® Type



- Extra long Phillips® type screwdrivers
- Blades made of AISI 6150 chrome vanadium steel, plated for protection

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Blade length (inch)	Blade length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>X1010</b>	037103486486	Boxed	1	3/16	10	254	13 5/8	346	6
<b>X1020</b>	037103486493	Boxed	2	1/4	10	254	14 1/8	359	6

## Super-Tru Tip – Phillips® Type



- 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

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>XST100</b>	037103486738	Boxed	0	1/8	2	50	4 5/8	117	6
<b>XST100V</b>	037103486745	Carded	0	1/8	2	50	4 5/8	117	6
<b>XST101</b>	037103486752	Boxed	1	3/16	3	76	6 5/8	168	6
<b>XST101V</b>	037103486769	Carded	1	3/16	3	76	6 5/8	168	6
<b>XST102</b>	037103486776	Boxed	2	1/4	4	102	8 1/8	206	6
<b>XST102V</b>	037103486783	Carded	2	1/4	4	102	8 1/8	206	6
<b>XST1010</b>	037103486790	Boxed	1	3/16	10	254	13 5/8	371	6
<b>XST1020</b>	037103486806	Boxed	2	1/4	10	254	14 1/8	371	6

## Screwdrivers for Torx® Head Screws



- Screwdriver for Torx® head screws
- Blades made of AISI 6150 chrome vanadium steel, plated for protection

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>XTD6</b>	037103490551	Boxed	T-6	3	76	6 5/8	168	6	6
<b>XTD6V</b>	037103490568	Carded	T-6	3	76	6 5/8	168	6	6
<b>XTD8</b>	037103490407	Boxed	T-8	3	76	6 5/8	168	6	6
<b>XTD8V</b>	037103490414	Carded	T-8	3	76	6 5/8	168	6	6
<b>XTD10</b>	037103488039	Boxed	T-10	3	76	6 5/8	168	6	6
<b>XTD10XL</b>	037103491312	Boxed	T-10	11	279	15 1/4	387	6	6
<b>XTD15</b>	037103488053	Boxed	T-15	3	76	6 5/8	168	6	6
<b>XTD15XL</b>	037103491329	Boxed	T-15	11	279	15 1/4	387	6	6
<b>XTD20</b>	037103488077	Boxed	T-20	3	76	6 5/8	168	6	6
<b>XTD25</b>	037103488091	Boxed	T-25	3	76	6 5/8	168	6	6
<b>XTD27</b>	037103488114	Boxed	T-27	4 1/2	105	8 5/8	220	6	6
<b>XTD30</b>	037103488138	Boxed	T-30	4 1/2	105	8 5/8	220	6	6

## Driver Sets



**SDX22**

**XST3**

**XST5**

**SD3V**

**SRX33**

- **SDX22** contains Phillips® Xcelite® Catalog No. X100, X101, X102, X103, SX102
- **191** contains Xcelite® Catalog No. 5MM, 55MM, 6MM, 7MM, 8MM, 9MM and 10MM
- **XST3** contains Super-tru tip Phillips® Xcelite® Catalog No. XST100, XST101, XST102
- **XST5** contains Super-tru Phillips® Xcelite® Catalog No. XST100, XST101, XST102, XST1010 and XST1020
- **SD3V** contains pocket clip screwdrivers R181 and R3322 for slotted screws and P12S for Phillips® head screws
- **SRX33** contains blades for slotted screws Xcelite® Catalog No. R184, R3166, R144, R5166 and Phillips® Xcelite® Catalog No. X101 and X102

Catalog number	UPC No.	Packed	Description	Shelf Pack
<b>SDX22</b>	037103486127	Pouch	5 pieces – all Phillips®	1
<b>XST3</b>	037103487353	Pouch	3 pieces – all Super-tru tip Phillips® type	1
<b>XST5</b>	037103487360	Pouch	5 pieces – all Super-tru tip Phillips® type	1
<b>SD3V</b>	037103486097	Carded	3 pocket clip screwdrivers for Phillips® head screws	1
<b>SRX33</b>	037103486219	Pouch	6 pieces – 4 round blade for slotted screws and 2 Phillips® types	1

## Allen® Hex Socket Type Screwdrivers - Inch Sizes



LN25

- Allen® hex socket type screwdrivers
- Screwdriver for recessed socket head screws
- Inch sizes

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>LN20</b>	037103484468	Boxed	.050	4	102	6 5/8	168	6	6
<b>LN21</b>	037103484475	Boxed	1/16	4	102	6 5/8	168	6	6
<b>LN21V</b>	037103488275	Carded	1/16	4	102	6 5/8	168	6	6
<b>LN22</b>	037103484482	Boxed	5/64	4	102	6 5/8	168	6	6
<b>LN22V</b>	037103488282	Carded	5/64	4	102	6 5/8	168	6	6
<b>LN23</b>	037103484499	Boxed	3/32	4	102	7 1/8	190	6	6
<b>LN23V</b>	037103488299	Carded	3/32	4	102	7 1/8	190	6	6
<b>LN764</b>	037103484550	Boxed	7/64	4	102	7 1/8	190	6	6
<b>LN964</b>	037103484567	Boxed	9/64	4	102	7 1/8	190	6	6
<b>LN25</b>	037103484512	Boxed	5/32	6	152	9 1/8	232	6	6

## Allen® Hex Socket Type Screwdrivers - Metric Sizes



- Allen® hex socket type screwdrivers
- Screwdriver for recessed socket head screws
- Metric sizes

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>LN15MM</b>	037103484277	Boxed	1.5	-	102	-	168	6	6
<b>LN2MM</b>	037103484284	Boxed	2	-	102	-	168	6	6
<b>LN25MM</b>	037103484291	Boxed	2.5	-	102	-	181	6	6
<b>LN3MM</b>	037103484307	Boxed	3	-	102	-	181	6	6
<b>LN4MM</b>	037103484314	Boxed	4	-	102	-	181	6	6



## Roll-up Kits for Allen® Hex Socket Type



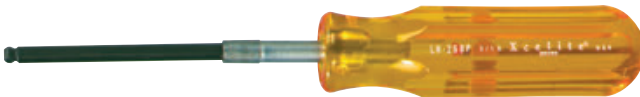
- Complete set of LN series Allen® hex socket type and metric size screwdrivers
- Roll-up canvas case, plastic-coated for wear and protection

Catalog number	UPC No.	Packed	Description	Shelf pack
<b>LN11</b>	037103484451	Canvas case	Complete set of LN series Allen® hex type screwdrivers, 0.050" - 1/4"	1
<b>LN8MM</b>	037103484345	Canvas case	Complete set of 8 drivers w/black handles in metric sizes, 1.27mm thru 6mm	1

## Ballpoint Style, Allen® Hex Socket Type

- 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

## Ballpoint Style, Allen® Hex Socket Type - Inch Sizes



- For easier tightening and removing of Allen® type socket head screws
- Ballpoint tip

Catalog Number	UPC Number	Packed	Point size	Blade diameter (inch)	Length (inch)	Length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>LN20BP</b>	037103484574	Boxed	.050	4	102	6 5/8	168	6	6
<b>LN21BP</b>	037103484581	Boxed	1/16	4	102	6 5/8	168	6	6
<b>LN22BP</b>	037103484598	Boxed	5/64	4	102	6 5/8	168	6	6
<b>LN23BP</b>	037103484604	Boxed	3/32	4	102	7 1/8	181	6	6
<b>LN764BP</b>	037103484666	Boxed	7/64	4	102	7 1/8	181	6	
<b>LN964BP</b>	037103484673	Boxed	9/64	4	102	7 1/8	181	6	6
<b>LN25BP</b>	037103484628	Boxed	5/32	4	102	7 1/8	181	6	6
<b>LN28BP</b>	037103484659	Boxed	1/4	4	102	8 1/8	206	6	6

## Roll-up Kits for Ballpoint Style Allen® Hex Socket Type



- Ballpoint, Allen® hex socket type screwdrivers
- Roll-up canvas case
- Inch sizes

Catalog number	UPC No.	Packed	Description	Shelf pack
LN9BP	037103484444	Canvas case	Inch sizes – 9 ballpoint, Allen® hex socket type screwdrivers, 0.050" - 3/16"	1

## Combination Reversible Screwdrivers and Kits

Economical multi-purpose tool sets and kits consisting of either a regular or stubby handle combined with one or more of reversible, interchangeable combination blades

Blades and handle may be purchased separately

Blades snap in and out easily and are held firmly in perfect alignment by patented spring lock

### No. 25 Handle



- Color of handle: Amber
- Use with reversible blades

Catalog number	UPC No.	Packed	Description	Shelf (inch)	Shelf (mm)	Shelf pack
25	037103481337	Boxed	Screwdriver handle	1 1/8 x 4 1/8	29 x 105	6

## Reversible Blades (Use with Number 25 Handle)



- Snaps in and out easily and held firmly in perfect alignment by patented spring lock

Catalog Number	UPC Number	Packed	Blade diameter (inch)	Blade diameter (inch)	Description	Blade length (inch)	Blade length (mm)	Shelf pack
<b>RB1</b>	037103485793	Boxed	3/16	5	No. 1 Phillips® – 3/16" slotted	6 5/8	6	6
<b>RB1</b>	037103485793	Boxed	1/4	6	No. 2 Phillips® – 1/4" slotted	6 5/8	6	6

## Combination Reversible Blades and Handles



- Contains 1 reversible, interchangeable, combination blade
- Regular handle

Catalog number	UPC No.	Packed	Screwdriver length description	Shelf (inch)	Shelf (mm)	Shelf pack
<b>CR1</b>	037103483904	Boxed	No. 25 handle & RB1 blade	7 1/4	184.15	6
<b>CR1V</b>	037103483911	Carded	No. 25 handle & RB1 blade	7 1/4	184.15	6
<b>CR2</b>	037103483928	Boxed	No. 25 handle & RB2 blade	7 1/4	184.15	6
<b>CR2V</b>	037103483935	Carded	No. 25 handle & RB2 blade	7 1/4	184.15	6

## Plastic View Kit



- **CK20** Zipper case with RB1 and RB2 blades and No. 25 handle
- **CK23** Zipper case with RB1, RB2 and RB3 blades and No. 25 handle

CK23

Catalog Number	UPC Number	Description	Shelf pack
<b>CK20</b>	037103483881	Zipper case with RB1, RB2 blades and No. 25 handle	6
<b>CK23</b>	037103483898	Zipper case with RB1, RB2 and RB3 blades and No. 25 handle	6

## Pocket Roll Kit



- Contains RB1, RB2 and RB3 blades and Xcelite®
- Catalog No. 25 handle

Catalog Number	UPC Number	Description	Shelf pack
CK3	037103483874	Contains RB1, RB2 and RB3 blades with No. 25 handle	6

## 4-way Pocket Tool



- Extremely versatile time-saver
- Handy for removing backs of TV sets and installing antennas
- Special reversible SB1 blade fits slotted (3/16") or Phillips® No. 1 head screws
- Double-ended handle serves as 2 sizes of nutdrivers (7/16" and 1/4")

Catalog number	UPC No.	Packed	Screwdriver length description	Shelf pack
600	037103483690	Boxed	4-way pocket tool	6
600V	037103483706	Carded	4-way pocket tool	6

## Four-in-One Screwdriver



- Extra handy
- Two 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 Xcelite® Catalog No. 1 and 2 Phillips®)

Catalog number	UPC No.	Packed	Screwdriver length description	Shelf pack
FSD1	037103487537	Boxed	Four-in-One screwdriver complete	6
FSD1V	037103487605	Carded	Four-in-One screwdriver complete	6

## Two-in-One Screwdriver



■ 3/16" slotted tip end and Xcelite® Catalog No. 1 Phillips® Stubby handle



Catalog number	UPC No.	Packed	Screwdriver length description	Shelf pack
<b>TSD1V</b>	037103487612	Carded	Two-in-one screwdriver complete	6

## Nutdrivers - Fixed Handle

Features steel shafts

Precision-machined, cold-drawn, case-hardened sockets with bright finish

Molded firm grip

Plastic handles are color-coded for easy size identification

Xcelite® offers a variety of nutdriver blades that fit interchangeably in special handles

## Regular Nutdrivers - Fixed Handle - 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

Catalog number	UPC No.	Packaging	Handle Color	Fastener Size	Nut End Depth	Blade Length	Overall Length	Product Weight
6	037103481054	Boxed	Black	3/16 in	1-1/8 in	3 in	6-1/8 in	0.07 lb
8	037103481108	Boxed	Red	1/4 in	1-1/8 in	3 in	6-1/8 in	0.07 lb
10	037103481177	Boxed	Amber	5/16 in	1-1/8 in	3 in	6-1/8 in	0.07 lb
10V	037103481214	Carded	Amber	5/16 in	1-1/8 in	3 in	6-1/8 in	0.20 lb
11	037103481221	Boxed	Green	11/32 in	1-1/8 in	3 in	6-1/8 in	0.07 lb
12	037103481252	Boxed	Blue	3/8 in	1-1/8 in	3 in	6-1/8 in	0.07 lb
14	037103481290	Boxed	Brown	7/16 in	1-7/8 in	2-7/8 in	7 in	0.11 lb

## Regular Nutdrivers - Full Hollow Shaft - Inch Sizes



Color Coded Handles

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

Catalog Number	UPC Number	Packed	Color code	Blade diameter (inch)	Depth of hole (mm)	Blade length (inch)	Blade length (mm)	Screwdriver length (incg)	Screwdriver length (mm)	Shelf pack
HS6	037103484031	Boxed	Black	3/16	6"	3 1/8	79	6 1/4	159	6
HS7	037103484055	Boxed	Brown	7/32	6"	3 1/8	79	6 1/4	159	6
HS8	037103484062	Boxed	Red	1/4	7"	3 1/8	79	7 1/4	184	6
HS8V	037103484079	Carded	Red	1/4	7"	3 1/8	79	7 1/4	184	6
HS9	037103484086	Boxed	Orange	9/32	7"	3 1/8	79	7 1/4	184	6
HS9V	037103488657	Carded	Orange	9/32	7"	3 1/8	79	7 1/4	184	6
HS10	037103484093	Boxed	Amber	5/16	7"	3 1/8	79	7 1/4	184	6
HS10V	037103484109	Carded	Amber	5/16	7"	3 1/8	79	7 1/4	184	6
HS11	037103484116	Boxed	Green	11/32	7"	3 1/8	79	7 1/4	184	6
HS11V	037103484123	Carded	Green	11/32	7"	3 1/8	79	7 1/4	184	6
HS12	037103484130	Boxed	Blue	3/8	7"	3 1/8	79	7 1/4	184	6
HS12V	037103484147	Carded	Blue	3/8	7"	3 1/8	79	7 1/4	184	6
HS14	037103484154	Boxed	Brown	7/16	7"	3 1/8	79	7 1/4	184	6
HS14V	037103484161	Carded	Brown	7/16	7"	3 1/8	79	7 1/4	184	6
HS16	037103484178	Boxed	Red	1/2	7"	3 1/8	79	7 1/4	184	6
HS16V	037103484185	Carded	Red	1/2	7"	3 1/8	79	7 1/4	184	6
HS18	037103484192	Boxed	Orange	9/16	7"	3 1/8	79	7 1/4	184	6
HS18V	037103484208	Carded	Orange	9/16	7"	3 1/8	79	7 1/4	184	6

## Extra Long Nutdrivers - Full Hollow Shaft - Inch Sizes



Color Coded Handles

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

Catalog Number	UPC Number	Packed	Color code	Blade diameter (inch)	Depth of hole (mm)	Blade length (inch)	Blade length (mm)	Screwdriver length (incg)	Screwdriver length (mm)	Shelf pack
L8	037103483720	Boxed	Red	1/4	9 3/4"	6	152	10 1/8	257	6
L10	037103483768	Boxed	Amber	5/16	9 3/4"	6	152	10 1/8	257	6
L11	037103483805	Boxed	Green	11/32	9 3/4"	6	152	10 1/8	257	6
L12	037103483829	Boxed	Blue	3/8	9 3/4"	6	152	10 1/8	257	6

## Magnetic Nutdrivers



- 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

Catalog Number	UPC Number	Packed	Color code	Blade diameter (inch)	Depth of hole (mm)	Blade length (inch)	Blade length (mm)	Screwdriver length (incg)	Screwdriver length (mm)	Shelf pack
<b>8M</b>	037103481115	Boxed	Red	1/4	-	3	76	6 1/8	156	6
<b>10M</b>	037103481184	Boxed	Amber	5/16	-	3	76	6 1/8	156	6
<b>L8M</b>	037103483737	Boxed	Red	1/4	-	6	152	10 1/8	257	6
<b>L8MV</b>	037103483744	Carded	Red	1/4	-	6	152	10 1/8	257	6
<b>L10M</b>	037103483775	Boxed	Amber	5/16	-	6	152	10 1/8	257	6
<b>L10MV</b>	037103483782	Carded	Amber	5/16	-	6	152	10 1/8	257	6

## Metric Nutdrivers

Manufactured precisely to metric dimension

Particularly useful in the assembly and servicing of foreign equipment

Bright finished blades, shafts and shanks (same as English version)

## Regular Nutdrivers - Drilled Shaft - Metric Sizes



- Particularly useful in assembly and servicing of foreign equipment
- Bright finished blades, shafts and shanks
- Manufactured precisely to metric dimension

Catalog Number	UPC Number	Packed	Blade diameter (mm)	Depth of hole (mm)	Blade length (mm)	Tool length (mm)	Thread diameter cap screws hex head (mm)	Hex nuts (mm)	Shelf pack
<b>4MM</b>	037103481009	Boxed	4	29	76	156	-	2	6
<b>5MM</b>	037103481030	Boxed	5	29	76	156	2.6	2.6	6
<b>55MM</b>	037103481047	Boxed	5.5	29	76	156	3	3	6
<b>7MM</b>	037103481092	Boxed	7	29	76	156	4	4	6
<b>8MM</b>	037103481122	Boxed	8	29	76	156	5	5	6
<b>10MM</b>	037103481191	Boxed	10	48	73	178	6	6	6

## Nutdrivers, Full - Hollow Shaft



- Particularly useful in assembly and servicing of foreign equipment
- Bright finished blades, shafts and shanks
- Manufactured precisely to metric dimension

Catalog Number	UPC Number	Packed	Color code	Blade diameter (inch)	Depth of hole (mm)	Blade length (inch)	Blade length (mm)	Nutdriver length (incg)	Nutdriver length (mm)	Shelf pack
13MM	037103481283	Boxed	Black	13	178	-	79	-	184	6

## Color Coded Nutdriver Sets - "Tray Bien"



- Contains assortment of nutdrivers listed in chart
- Convenient blow molded case

Catalog number	UPC No.	Description	Shelf pack
127TB	037103483621	Contains solid shaft No's. 6, 7, 8, 9, 10, 11 and 12	1
147TB	037103483638	Contains hollow shaft No's. HS8, HS9, HS10, HS11, HS12, HS14, and HS16	1

## Nutdriver Set



- Contains assortment of nutdrivers listed in chart
- Plastic pouch

Catalog number	UPC No.	Description	Shelf pack
157	037103483652	Contains 7 pieces, all regular drilled shaft No's. 6, 8, 10, 11, 12, 14 and 16	1
177	037103483669	Contains 7 pieces, all hollow shaft No's. HS6, HS8, HS10, HS11, HS12, HS14 and HS16	1



## Nutdriver Kit - “Keep and Carry” Case



- Contains assortment of nutdrivers listed in chart
- Sturdy yellow plastic case for inch sizes, and red case for metric sizes, keeps nutdrivers orderly on work bench and carries them on service calls

Catalog number	UPC No.	Description	Shelf pack
<b>HS618</b>	037103484215	Inch sizes - Contains hollow shaft No's. HS6, HS7, HS8, HS9, HS10, HS11, HS12, HS14, HS16, and HS18	1
<b>413MM</b>	037103481023	Metric sizes - 10 piece set of nutdrivers: 4MM through 8MM, 10MM, 11MM, 13MM All have 31.35mm depth shaft hole	1

## Compact Convertible Tool Sets

Compact convertible tool sets complete more jobs with fewer tools, save bench space and lighten service kits

Each set is equipped with a remarkable black, “piggyback” torque amplifier handle (Xcelite® Catalog No. TA2) that slips over the top of color-coded midget drivers to provide larger gripping surface, extended reach and increased driving power

Sets housed in attractive, easy to open, clear plastic cases

All individual screwdrivers and nutdrivers are available separately

## PS88 Screwdriver Set - Inch Sizes



- 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; 9 pieces

Catalog Number	UPC Number	Packed	Handle color	Blade length (inch)	Depth length (mm)	Screwdriver length (inch)	Screwdriver length (mm)	Shelf pack
<b>PS88</b>	037103485236	Boxed	Complete set	-	-	3	-	-
<b>PS88V</b>	037103485243	Carded	Complete set carded	-	-	3	-	-
<b>P3321</b>	037103485052	-	Green	3/32	-	3 1/2	89	12
<b>P1</b>	037103484727	-	Brown	1 Phillips	-	3 1/2	89	12
<b>TA2</b>	037103486240	-	Black	Torque amplifier handle	-	-	-	6

## PS120 Nutdriver Set - Inch Sizes



- 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

Catalog Number	UPC Number	Packed	Handle color	Diameter (inch)	Nutdriver length (inch)	Nutdriver length (mm)	Shelf pack
<b>PS120</b>	037103485281	Boxed	Complete set		3		
<b>PS120V</b>	037103485298	Carded	Complete set carded		3		
<b>P4</b>	037103484758	-	Red	1/8	3 1/2	89	12
<b>P5</b>	037103484765	-	Amber	5/32	3 1/2	89	12
<b>P6</b>	037103484772	-	Black	3/16	3 1/2	89	12
<b>P8</b>	037103484796	-	Red	1/4	3 1/2	89	12
<b>P10</b>	037103484826	-	Amber	5/16	3 1/2	89	12
<b>TA2</b>	037103486240	-	Black	Torque amplifier handle		3	6

## PS121 MM Metric Compact Convertible Nutdriver Set



- 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

Catalog number	UPC No.	Diameter packed	Nutdriver length (mm)	Shelf (mm)	Shelf pack
<b>PS121MM</b>	037103485304	Boxed	Complete set	3	
<b>△ P3MM</b>	037103485076	-	3	89	12
<b>△ P35MM</b>	037103485083	-	3.5	89	12
<b>TA2</b>	037103486240	-	Torque amplifier handle	3	

△ = Made to order, contact customer service for delivery.

## PS130 Screwdriver and Nutdriver Set - Inch Sizes



- 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

Catalog Number	UPC Number	Packed	Handle color	Blade diameter (inch)	Diameter (inch)	Shelf pack
<b>PS130</b>	037103485311	Boxed	Complete set	-	-	3
<b>PS130V</b>	037103485328	Carded	Complete set carded	-	-	3
<b>Screwdrivers</b>	-	-	-	1/8	-	-
<b>P1</b>	037103484727	-	Brown	1 Phillips®	-	12
<b>Nutdrivers</b>	-	-	-	3/16	-	-
<b>P6</b>	037103484772	-	Black	-	3/16	12
<b>P8</b>	037103484796	-	Red	-	1/4	12
<b>P10</b>	037103484826	-	Amber	-	5/16	12
<b>TA2</b>	037103486240	-	Black	Torque amplifier handle	-	3

## PS89 Screwdriver Set for Hex Socket Screws - Inch Sizes



- 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

Catalog Number	UPC Number	Diameter-packed	Tool length (inch)	Shelf (inch)	Shelf (mm)	Shelf pack
<b>PS89</b>	037103485250	Boxed	Complete set	-	-	3
<b>PS89V</b>	037103485267	Carded	Complete set carded	-	-	3
<b>P19</b>	037103484888	-	.035	3 1/2	89	12
<b>P20</b>	037103484895	-	.050	3 1/2	89	12
<b>P22</b>	037103484918	-	5/64	3 1/2	89	12
<b>P23</b>	037103484925	-	3/32	3 1/2	89	12
<b>TA2</b>	037103486240	-	Torque amplifier handle	-	-	3

## PS90MM Compact Convertible Hex Socket Screwdriver Set

### Metric Sizes



- 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

Catalog number	UPC No.	Diameter packed	Tool length (mm)	Shelf (mm)	Shelf pack
<b>PS90MM</b>	037103485274	Boxed	Complete set	3	-
<b>TA2</b>	037103486240	-	Torque amplifier handle	3	-

## M60 Mini-driver Kit - Inch Sizes



- 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 handle
- 7/8" X 3 1/16" / 22.22mm X 77.78mm
- Furnished in see-through plastic case
- Color-coded handles

Catalog number	UPC No.	Packed	Handle color	Blade diameter inch/mm	Blade length inch/mm	Tool length inch/mm	Shelf pack
<b>M60</b>	037103484680	Boxed	-	Complete set	-	-	6
<b>M60V</b>	037103484697	Carded	-	Complete set carded	-	-	6

## Series 99® Blades, Shanks, and Handles

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



- Easy to operate
- Use with Series 99® blades

Catalog Number	UPC Number	Packed	Description	Color	Handle dimensions (inchxinch)	Handle dimensions (mmxmm)	Shelf pack
991	037103482532	Boxed	Regular	Amber	13/16 x 4	30 x 102	6
991V	037103482549	Carded	Regular	Amber	13/16 x 4	30 x 102	6
992	037103482570	Boxed	Junior	Amber	11/16 x 3 1/8	27 x 79	6
993	037103482594	Boxed	Stubby	Amber	13/16 x 2	30 x 51	6
994	037103482600	Boxed	Tee	Black	3 1/2 x 1 5/8	89 x 41	6
994V	037103482655	Carded	Tee	Black	3 1/2 x 1 5/8	89 x 41	6
TA2	037103486240	-	Torque amplifier handle	-	-	-	3
995ESD	037103236333	Boxed	ESD Safe	Gray	1 1/2 x 4	38x102	-

### Reversible Ratcheting Handles



- Easy to operatePermits extremely simple 1-hand operation, even in tight quarters
- Use with Series 99® blades
- Smooth precise action
- Left-right-neutral marking indicatorLight ratcheting drag facilitates turning and prevents fasteners from reversing

Catalog Number	UPC Number	Packed	Description	Color	(inchxinch)	(mmxmm)	Shelf pack
991R	037103482556	Boxed	Regular	Black	1 x 7	25 x 178	6
994R	037103482631	Boxed	Tee	Black	3 1/2 x 2 1/2	89 x 64	6

## Nutdrivers - Inch Sizes



Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
996	037103482693	Boxed	3/16	3 5/8	92	6
997	037103482716	Boxed	7/32	3 5/8	92	6
998	037103482747	Boxed	1/4	3 5/8	92	6
99S8	037103482396	Boxed	1/4	1 3/8	36	6
999	037103482792	Boxed	9/32	3 5/8	92	6
9910	037103482822	Boxed	5/16	3 5/8	92	6
99S10	037103482402	Boxed	5/16	1 3/8	36	6
9911	037103482853	Boxed	11/32	3 5/8	92	6
9912	037103482884	Boxed	3/8	3 5/8	92	6
99S12	037103482419	Boxed	3/8	1 3/8	36	6
9914	037103482907	Boxed	7/16	4	102	6
9916	037103482921	Boxed	1/2	4	102	6

## Magnetic Nutdrivers - Inch Sizes



Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
998M	037103482754	Boxed	1/4	3 5/8	92	6
9910M	037103482945	Boxed	5/16	3 5/8	92	6

## Nutdrivers - Metric Sizes



Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
994MM	037103482617	Boxed	4	-	92	6
995MM	037103482662	Boxed	5	-	92	6
9955MM	037103482679	Boxed	5.5	-	92	6
996MM	037103482686	Boxed	6	-	92	6
997MM	037103482723	Boxed	7	-	92	6
998MM	037103482761	Boxed	8	-	92	6
999MM	037103482808	Boxed	9	-	92	6
9910MM	037103482839	Boxed	10	-	102	6
9911MM	037103482860	Boxed	11	-	102	6

XCELITE

## Slotted Screwdrivers



99312



99811

Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
99125	037103483379	Boxed	1/8	4	102	6
99811	037103483447	Boxed	3/16	4	102	6
99811V	037103483454	Carded	3/16	4	102	6
99250	037103483393	Boxed	1/4	4	102	6
99250V	037103483409	Carded	1/4	4	102	6
99312	037103483416	Boxed	5/16	4	102	6

## Phillips®



99822



99820

Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
99820	037103483461	Boxed	No. 0	4	102	6
99821	037103483485	Boxed	No. 1	4	102	6
99821V	037103483492	Carded	No. 1	4	102	6
99822	037103483508	Boxed	No. 2	4	102	6
99822V	037103483515	Boxed	No. 2	4	102	6

## Pozidriv®



99831



99832

Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
99831	037103483522	Boxed	No. 1	4	102	6
99832	037103483539	Boxed	No. 2	4	102	6

## Screwdrivers - Allen® Hex Socket Type



### Inch Sizes



Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
<b>9920</b>	037103482969	Boxed	.050	4	102	6
<b>9921</b>	037103482983	Boxed	1/16	4	102	6
<b>9922</b>	037103483003	Boxed	5/64	4	102	6
<b>9923</b>	037103483027	Boxed	3/32	4	102	6
<b>99764</b>	037103483102	Boxed	7/64	4	102	6
<b>9924</b>	037103483041	Boxed	1/8	4	102	6
<b>99964</b>	037103483119	Boxed	9/64	4	102	6
<b>9925</b>	037103483065	Boxed	5/32	4	102	6
<b>9926</b>	037103483089	Boxed	3/16	4	102	6

## Screwdrivers - Allen® Hex Socket Type



### Metric Sizes



Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
<b>9971MM</b>	037103483232	Boxed	1.27	-	102	6
<b>9972MM</b>	037103483249	Boxed	1.5	-	102	6
<b>9973MM</b>	037103483256	Boxed	2.0	-	102	6
<b>9974MM</b>	037103483263	Boxed	2.5	-	102	6
<b>9975MM</b>	037103483270	Boxed	3.0	-	102	6
<b>9976MM</b>	037103483287	Boxed	4.0	-	102	6
<b>9977MM</b>	037103483294	Boxed	5.0	-	102	6

## Screwdrivers - Ballpoint Allen® Hex Socket Type



### Inch Sizes



Catalog Number	UPC Number	Packed	Diameter (inch)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
<b>9920BP</b>	037103482976	Boxed	.050	4	102	6
<b>9921BP</b>	037103482990	Boxed	1/16	4	102	6
<b>9922BP</b>	037103483010	Boxed	5/64	4	102	6
<b>9923BP</b>	037103483034	Boxed	3/32	4	102	6
<b>99764BP</b>	037103483430	Boxed	7/64	4	102	6
<b>9924BP</b>	037103483058	Boxed	1/8	4	102	6
<b>99964BP</b>	037103483553	Boxed	9/64	4	102	6
<b>9925BP</b>	037103483072	Boxed	5/32	4	102	6
<b>9926BP</b>	037103483096	Boxed	3/16	4	102	6



**Screwdrivers - Bristol 6-flute Multiple Spline**



9964



9969

Catalog Number	UPC Number	Packed	Description	Diameter (inch)	Diameter (mm)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
9961	037103483140	Boxed	-	0.048	1.22	4	102	6
9962	037103483157	Boxed	-	0.060	1.52	4	102	6
9963	037103483164	Boxed	4 flute	0.069	1.75	4	102	6
9964	037103483171	Boxed	-	0.072	1.82	4	102	6
9966	037103483195	Boxed	-	0.096	2.43	4	102	6
9967	037103483201	Boxed	-	0.111	2.82	4	102	6
9969	037103493224	Boxed	-	0.183	4.65	4	102	6

**Screwdrivers – Torx®**



998XTD



9927XTD

Catalog Number	UPC Number	Packed	Description	Diameter (inch)	Diameter (mm)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
996XTD	037103490575	Boxed	T-6	4	102	6	102	6
998XTD	037103490582	Boxed	T-8	4	102	6	102	6
9910XTD	037103490025	Boxed	T-10	4	102	6	102	6
9915XTD	037103490032	Boxed	T-15	4	102	6	102	6
9920XTD	037103490049	Boxed	T-20	4	102	6	102	6
9925XTD	037103490056	Boxed	T-25	4	102	6	102	6
9927XTD	037103490063	Boxed	T-27	4	102	6	102	6
9930XTD	037103490070	Boxed	T-30	4	102	6	102	6

**Reamer**



Catalog Number	UPC Number	Packed	Diameter (inchxinch)	Diameter (mmxmm)	Diameter (mm)	Approximate working length (inch)	Approximate working length (mm)	Shelf pack
9938	037103483126	Boxed	1/8 x 3/8	3.17 x 9.52	4	102	6	6

## Extensions



**99X5**

Catalog Number	UPC Number	Packed	Description	Approximate working length (inch)	Approximate working length (mm)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99X5</b>	037103482501	Boxed	Extension	4	102	4	102	6
<b>99X10</b>	037103482525	Boxed	Extension	7	178	7	178	6
<b>99X10V</b>	037103487063	Carded	Extension	7	178	7	178	6

## Power Bit Adapter



■ For use with Xcelite® Series 99® blades Fits all power tools with 1/4" hex chuck

Catalog Number	UPC Number	Packed	Description	Pack
<b>99PA</b>	037103490926	Boxed	Power bit adapter	6
<b>99PAV</b>	037103490933	Carded	Power bit adapter	6

## Series 99® Service Kits

Series 99® service kits and sets made primarily of various screwdrivers, nutdrivers and other blades that can be used interchangeably in Series 99® handles

All blades are high-quality steel, hardened and tempered for optimum performance

Plastic handles have patented spring device that holds blades firmly, yet permits quick, easy insertion and removal

Regular handles accommodate all blades, single and reversible

Stubby, tee, and ratchet handles used only with single-end blades

### 99SM & 99SMX Roll Kit & Case



**99SM**



**99SMX**

- Versatile 23-piece set of quality tools
- Provides a variety of quick change tools and tool combinations to speed up assembly and service work
- Available in a durable, roll-up plastic coated canvas case, or hard plastic case, for easy selection and storage

Catalog Number	UPC Number	Packed	(inch)	(mm)	Description	Shelf pack
<b>99SM</b>	037103482471	Boxed	-	-	Complete roll kit	1
<b>99SMK</b>	037103482488	Boxed	-	-	Canvas case	1
<b>99SMX</b>	037103490254	Boxed	-	-	Complete tool kit w/carrying case	1
<b>52NCGV</b>	037103212931	-	6	152	Long nose cushion grip plier	6
<b>55NCG</b>	037103213297	-	5	127	Diagonal cushion grip plier	6
<b>46CGV</b>	037103481467	-	6	152	Thin-pattern cushion grip adjustable wrench	6
<b>991</b>	037103482532	-	-	-	Regular handle	6
<b>993</b>	037103482594	-	-	-	Stubby handle	6
<b>996 to 9916</b>	-	-	-	-	Regular nutdrivers (9)	-
<b>99S8, 99S10, 99S12</b>	-	-	-	-	Stubby nutdrivers	-
<b>99821, 99822</b>	-	-	-	-	Phillips® screwdrivers	4
<b>99811, 99250</b>	-	-	-	-	Slotted screwdrivers	-
<b>9938</b>	037103483126	-	-	-	Reamer	6
<b>99X10</b>	037103482525	-	-	-	Extension	6

## 99PR Roll Kit



- Multi-purpose, 14-piece nutdriver and screwdriver set

Catalog Number	UPC Number	Packed	(inch)	(mm)	Description	Shelf pack
<b>99PR</b>	037103482266	Boxed	-	-	Complete roll kit	1
<b>99K</b>	037103482228	Boxed	-	-	Canvas case	1
<b>991</b>	037103482532	-	-	-	Regular handle	6
<b>996 to 9916</b>	-	-	-	-	Nutdrivers (9)	-
<b>99811, 99250</b>	-	-	-	-	Slotted screwdrivers	-
<b>99821, 99822</b>	-	-	-	-	Phillips® screwdrivers	-

## 99SPC Personal Computer Repair Kit



- 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

Catalog Number	UPC Number	Packed	(inch)	(mm)	Description	Shelf pack
<b>99SPC</b>	037103490940	Boxed	-	-	Complete kit	1
<b>99820</b>	037103483461	-	-	-	#0 Phillips® screwdriver blade	6
<b>99821</b>	037103483485	-	-	-	#1 Phillips® screwdriver blade	6
<b>99811</b>	037103483447	-	3/16	5	Slotted screwdriver blade	6
<b>9910XTD</b>	037103490025	-	-	-	Torx® screwdriver blade	6
<b>9915XTD</b>	037103490032	-	-	-	Torx® screwdriver blade	6
<b>996</b>	037103482693	-	3/16	5	Hex nutdriver shank	6
<b>998</b>	037103482747	-	1/4	6	Hex nutdriver shank	6
<b>991</b>	037103482532	-	-	-	Regular handle	6

Three-prong chip retriever/ extractor – antistatic  
 Chip tweezer, chip inserter, chip extractor – antistatic

## 99MP & 99MPX Multi-purpose Tool Kit



- 39-piece kit contains most popular Series 99® tools
- 2 extra pockets permit addition of pliers, snips or other tools
- Available in a durable, roll-up plastic coated canvas case for easy selection and storage

Catalog Number	UPC Number	Packed	(inch)	(mm)	Description	Shelf pack
<b>99MP</b>	037103482235	Boxed	-	-	Complete kit	1
<b>99MPK</b>	037103482242	Boxed	-	-	Canvas case	1
<b>991</b>	037103482532	-	-	-	Regular handle	6
<b>994</b>	037103482600	-	-	-	Tee handle	6
<b>998M</b>	037103482754	-	-	-	Magnetic nutdriver	6
<b>996, to 9916</b>	-	-	-	-	Regular nutdrivers (9)	-
<b>9920, to 9926</b>	-	-	-	-	Allen® hex screwdrivers (9)	-
<b>99764, 99964</b>	-	-	-	-	Bristol multiple spline screwdrivers (9)	-
<b>9961, to 9969</b>	-	-	-	-	Slotted screwdrivers	-
<b>99125, 99811</b>	-	-	-	-	Phillips® screwdrivers	-
<b>99250, 99312</b>	-	-	-	-	Reamer	6
<b>99820, 99821, 99822</b>	-	-	-	-	Extension	6
<b>9938</b>	037103483126	-	-	-		
<b>99X5</b>	037103482501	-	-	-		

## 99PA50 Tool Kit



- Series 99® screwdriver and nutdriver set designed for use with cordless rechargeable screwdrivers
- Contains 12 most popular nutdriver and screwdriver sizes together with a power adapter (Model only: Xcelite® Catalog No. 99PA)
- Convenient vinyl carrying pouch

Catalog Number	UPC Number	Packed	(inch)	(mm)	Pack
<b>99PA50</b>	037103497299	Boxed	Complete set	3/16	6
<b>△ 99S8</b>	037103482396	-	Stubby nutdriver	1/4	6
<b>△ 99S10</b>	037103482402	-	Stubby nutdriver	5/16	6
<b>△ 99S12</b>	037103482419	-	Stubby nutdriver	3/8	6
<b>99PA</b>	037103490926	-	Cordless screwdriver adapter	-	6

△ = Made to order, contact customer service for delivery.

## Series 99® Compact Interchangeable-blade Sets

### 99PS40BP Ballpoint Allen® hex socket type screwdriver set - Inch sizes



- 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
- Will engage screw head from any angle
- 9 blades 4”/101.60mm long, 99X5 extension and regular 991 handle in plastic see-through stand-up case
- Ends precision-machined to close tolerances to help slip easily into sockets and hold securely without reaming

Catalog Number	UPC Number	Packed	Tip size (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99PS40BP</b>	037103482297	Boxed	Complete set	-	-	3
<b>99PS40BPV</b>	037103482303	Carded	Complete set carded	-	-	3
<b>9920BP</b>	037103482976	-	.050	4	102	6
<b>9921BP</b>	037103482990	-	1/16	4	102	6
<b>9922BP</b>	037103483010	-	5/64	4	102	6
<b>9923BP</b>	037103483034	-	3/32	4	102	6
<b>99764BP</b>	037103483430	-	7/64	4	102	6
<b>9924BP</b>	037103483058	-	1/8	4	102	6
<b>99964BP</b>	037103483553	-	9/64	4	102	6
<b>9925BP</b>	037103483072	-	5/32	4	102	0
<b>9926BP</b>	037103483096	-	3/16	4	102	6
<b>991</b>	037103482532	-	Regular handle	4	102	6
<b>99X5</b>	037103482501	-	Extension	4	102	6

## 99PS41MMBP Ballpoint Allen® Hex Socket Type Screwdriver Set

### Metric Sizes



- Interchangeable, Allen® hex socket type
- Contains 7 drivers, 102mm 99X5 extension and regular 991 handle
- 102mm approximate working length
- Flexible plastic see-through stand-up case

Catalog Number	UPC Number	Packed	Tip size (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99PS41MMBP</b>	037103482327	Boxed	Complete set	-	-	3
<b>991</b>	037103482532	-	Regular handle	4	102	6
<b>99X5</b>	037103482501	-	Extension	4	102	6

## 99XTD7 Torx® Screwdriver Blade Kit



- Interchangeable blades
- Contains 6 blades 4"/102mm long and regular 991 handle
- 102mm approximate working length



Catalog Number	UPC Number	Packed	Tip size (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99XTD7</b>	037103490018	Boxed	Complete set	-	-	6
<b>9910XTD</b>	037103490025	-	T-10	4	102	6
<b>9915XTD</b>	037103490032	-	T-15	4	102	6
<b>9920XTD</b>	037103490049	-	T-20	4	102	6
<b>9925XTD</b>	037103490056	-	T-25	4	102	6
<b>9927XTD</b>	037103490063	-	T-27	4	102	6
<b>9930XTD</b>	037103490070	-	T-30	4	102	6
<b>991</b>	037103482532	-	Regular handle	-	-	6

## 99PS40 Allen® Hex Socket Type Screwdriver Set

### Inch Sizes



- 11-piece set
- See-through plastic case

Catalog Number	UPC Number	Packed	Tip size (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99PS40</b>	037103482273	Boxed	Complete set	-	-	3
<b>99PS40V</b>	037103482280	Carded	Complete set carded	-	-	3
<b>991</b>	037103482532	-	Regular handle	-	-	6
<b>9920</b>	037103482969	-	.050	4	102	6
<b>9921</b>	037103482983	-	1/16	4	102	6
<b>9922</b>	037103483003	-	5/64	4	102	6
<b>9923</b>	037103483027	-	3/32	4	102	6
<b>99764</b>	037103483102	-	7/64	4	102	6
<b>9924</b>	037103483041	-	1/8	4	102	6
<b>99964</b>	037103483119	-	9/64	4	102	6
<b>9925</b>	037103483065	-	5/32	4	102	6
<b>9926</b>	037103483089	-	3/16	4	102	6
<b>99X5</b>	037103482501	-	Extension	4	102	6

## 99PS41MM Allen® Hex Socket Type Screwdriver Set

### Metric Sizes



- Compact interchangeable blades
- Fits socket screws shown below
- 99X5 extension adds 102mm in length
- 991 handle 27mm x 105mm in length
- 102mm approximate working length
- Convenient see-through stand-up plastic case

Catalog Number	UPC Number	Packed	Tip size (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99PS41MM</b>	037103482310	Boxed	Complete set	-	-	3
<b>9971MM</b>	037103483232	-	1.27	2.6	1.4	6
<b>9972MM</b>	037103483249	-	1.5	3	1.7, 2	6
<b>9973MM</b>	037103483256	-	2	4	2.3, 2.6	3
<b>9974MM</b>	037103483263	-	2.5	5	3	4
<b>9975MM</b>	037103483270	-	3	6	4	5
<b>9976MM</b>	037103483287	-	4	8	5	6
<b>9977MM</b>	037103483294	-	5	10	6	8
<b>991</b>	037103482532	-	-	Regular handle	-	6
<b>99X5</b>	037103482501	-	-	Extension	-	6



## 99PS50 Screwdriver and Nutdriver Set

### Inch Sizes



- 13-piece set
- See-through stand-up plastic case

Catalog Number	UPC Number	Packed	Description	Blade diameter (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99PS50</b>	037103482334	Boxed	Complete set	-	-	3	
<b>99PS50V</b>	037103482341	Carded	Complete set carded	-	-	3	
<b>996</b>	037103482693	-	Regular nutdriver	3/16	3 5/8	92	6
<b>997</b>	037103482716	-	Regular nutdriver	7/32	3 5/8	92	6
<b>998</b>	037103482747	-	Regular nutdriver	1/4	3 5/8	92	6
<b>999</b>	037103482792	-	Regular nutdriver	9/32	3 5/8	92	6
<b>9910</b>	037103482822	-	Regular nutdriver	5/16	3 5/8	92	6
<b>9911</b>	037103482853	-	Regular nutdriver	11/32	3 5/8	92	6
<b>9912</b>	037103482884	-	Regular nutdriver	3/8	3 5/8	92	6
<b>99811</b>	037103483447	-	Slotted screwdriver	3/16	3 7/8	98	6
<b>99250</b>	037103483393	-	Slotted screwdriver	1/4	3 7/8	98	6
<b>99821</b>	037103483485	-	Phillips® screwdriver	No. 1	4	102	6
<b>99822</b>	037103483508	-	Phillips® screwdriver	No. 2	4	102	6
<b>99X5</b>	037103482501	-	Extension	-	4	102	6
<b>991</b>	037103482532	-	Regular handle	-	4	102	6

## 99PS51MM Compact, Interchangeable Shank, Nutdriver Set

### Metric Sizes

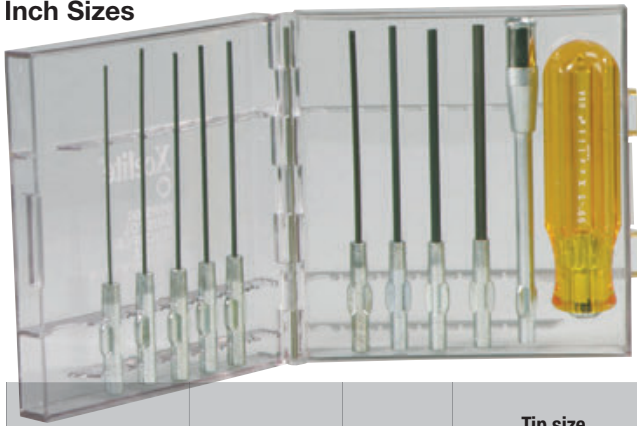


- 12-piece set
- Convenient see-through stand-up plastic case

Catalog Number	UPC Number	Packed	Approximate working diameter (mm)	Hex head cap screws thread length (mm)	Hex nuts thread diameter (mm)	Diameter (mm)	Shelf pack
<b>99PS51MM</b>	037103482358	Boxed	Complete set	-	-	-	3
<b>994MM</b>	037103482617	-	4	92	-	2	6
<b>9945MM</b>	037103482624	-	4.5	92	-	2.3	6
<b>995MM</b>	037103482662	-	5	92	2.6	2.6	6
<b>9955MM</b>	037103482679	-	5.5	92	3	3	6
<b>996MM</b>	037103482686	-	6	92	3.5	3.5	6
<b>997MM</b>	037103482723	-	7	92	4	4	6
<b>998MM</b>	037103482761	-	8	92	5	5	6
<b>999MM</b>	037103482808	-	9	92	-	-	6
<b>9910MM</b>	037103482839	-	10	102	6	6	6
<b>9911MM</b>	037103482860	-	11	102	7	7	6
<b>991</b>	037103482532	-	Regular handle	102	-	-	6
<b>99X5</b>	037103482501	-	Extension	102	-	-	6

## 99PS60 Bristol Multiple-spline Socket Type Screwdriver Set

### Inch Sizes



- 11-piece set
- Convenient see-through stand-up plastic case

Catalog Number	UPC Number	Packed	Tip size (inch)	Tool length (inch)	Tool length (mm)	Shelf pack
<b>99PS60</b>	037103482372	Boxed	Complete set	-	-	3
<b>9961</b>	037103483140	-	.048	4	102	6
<b>9962</b>	037103483157	-	.060	4	102	6
<b>9963</b>	037103483164	-	.069	4	102	6
<b>9964</b>	037103483171	-	.072	4	102	6
<b>9966</b>	037103483195	-	.096	4	102	6
△ <b>9967</b>	037103483201	-	.111	4	102	6
△ <b>9969</b>	037103483225	-	.183	4	102	6
<b>991</b>	037103482532	-	Regular handle	4	102	6
<b>99X5</b>	037103482501	-	Extension	4	102	6

△ = Made to order, contact customer service for delivery.

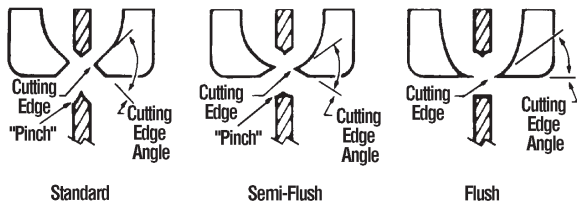
# Electronic Assembly Tools Plier Selection Information

## 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

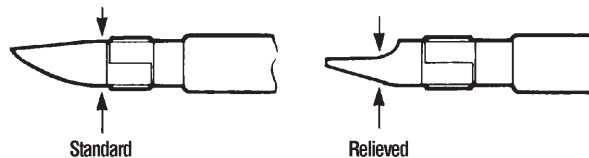
Access to cutting areas can determine the shape and thickness of the cutting head. Tight clearances around the cutting area, the need to reach over in-place components or to work from directly above, and visibility requirements are all factors which will affect your choice of a tool. However, it is important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



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.



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## Cutting capability guide

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
EC54J	•				•	•	•		
EGA54J	•				•	•	•		
EMS543J	•				•	•	•		
EMS549J	•				•	•	•		
EMS54		•				•		•	
GA54J	•				•	•	•		
LC665J	•				•	•	•		
MS54JV		•					•		•
MS5433V	•				•	•	•		
MS545			•			•		•	
MS545J	•				•	•	•		
MS549J	•				•	•	•		
S1415NJS	•				•	•	•		
S424NJS	•				•	•	•		
S54N				•			•		•
S54NKS		•				•		•	
S54NS			•			•			•
S55N				•			•		•
S55NKS		•				•		•	
S55NS			•			•			•
SN54			•				•		•
SN55			•				•		•
TC55			•				•		•

\* Maximum Tensile Strength

## Xcelite® Electronic Pliers

### Provide the ultimate in precision plier:

Manufactured to the highest professional quality

Easily handles a wide range of electronic assembly requirements

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

## Xcelite® Diagonal Cutting Pliers

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

STEEL RIVIT FOR 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



### Pliers Features and Benefits:

- 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.
- Steel joint maintains perfect cutting edge and tip alignment to maximize operational consistency and tool life.
- Handle coil springs, 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.

	<b>⚠ WARNING</b>
	Handles Are NOT Electrically Insulated Beyond ESD Protection
	<b>⚠ AVERTISSEMENT</b>
	Les manches ne sont pas isolés électriquement au-delà de la protection DES
	<b>⚠ ADVERTENCIA</b>
	El mango no es aislante más allá de la protección ESD

<b>⚠ WARNING</b>	<b>⚠ AVERTISSEMENT</b>	<b>⚠ ADVERTENCIA</b>
Risk Of Eye Injury Wear ANSI Approved Eye Protection	Risque de dommages d'oeil Protection d'oeil approuvée de l'usage A.N.S.I.	Riesgo de lesión del ojo Protección de ojo aprobada del desgaste ANSI



### 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

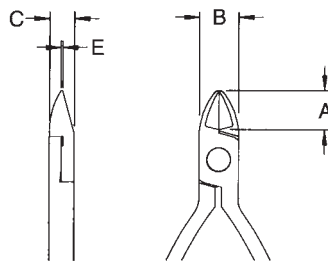
EXTENDED HANDLE PERMITS USE OF ALL FINGERS



- 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.



### Oval Head Cutter - Semi-flush



- Diagonal cutting pliers/semi-flush
- General-purpose cutting
- Oval head for long life
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>MS54V</b>	043127085444	Bagged	4	100	13/32	10	7/16	11	9/32	7	1/32	.8	.78	354	6

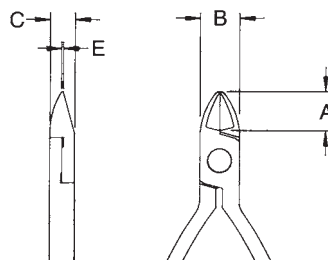
### Oval Head Cutter - Flush



- Oval head diagonal cutter
- Flush cutting
- General use
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>MS54J</b>	043127160448	Bagged	4	100	13/32	10	7/16	11	9/32	7	1/32	.8	1.11	504	6

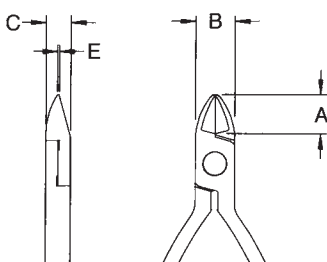
### Tapered Head Diagonal Cutter



- Tapered head diagonal cutter
- Flush cutting of leads in restricted spaces
- Narrow tips give increased clearance
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>MS549JV</b>	043127085420	Bagged	4	100	15/32	12	7/16	11	9/32	7	3/64	1	.96	435	6

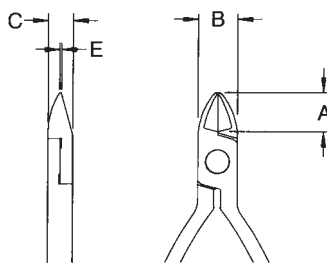
## Oval Head Diagonal Cutter



- Oval head diagonal cutter
- Semi-flush cutting
- General-purpose cutting of steel wires
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>EMS54</b>	043127104374	Bagged	5 1/2	138	13/32	10	7/16	11	9/32	7	1/32	.8	.96	435	6

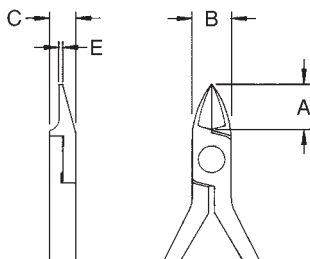
## Tapered Head Diagonal Cutter



- Tapered head diagonal cutter
- Flush cutting
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>EMS549J</b>	043127104343	Bagged	5 1/2	138	15/32	12	7/16	11	9/32	7	3/64	1	.78	354	6

## Relieved Tapered Head Cutter



- Diagonal cutting pliers
- Relieved tapered head-flush cutter
- Allows use between closely spaced components
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>MS543JV</b>	037103129086	Bagged	4	100	15/32	12	7/16	11	9/32	7	3/64	1	.78	354	6

## Relieved Tapered Head Diagonal Cutter



- Relieved tapered head diagonal cutter
- Flush cutting
- Clears closely spaced components
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>EMS543J</b>	043127104329	Bagged	5 1/2	138	15/32	12	7/16	11	9/32	7	3/64	1	.78	354	6

## Slim Line Tapered Head Cutter



- Diagonal cutting pliers
- Slim line tapered head
- Semi-flush cutting
- Features green cushion grip

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>MS545V</b>	037103129116	Carded	4	100	13/32	10	7/16	11	9/32	7	1/16 x 1/32	1.5 x .9	.96	435	6

## Slim Line Tapered Head Cutter



- Diagonal cutting pliers
- Slim line tapered head
- Flush cutting
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>MS545JV</b>	043127086038	Carded	4	100	13/32	10	7/16	11	9/32	7	1/16 x 1/32	1.01 x .9	458	6	6

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## Slim Line Tapered Diagonal Cutter



- Slim line tapered diagonal cutter
- Flush cutting
- Allows use between closely spaced components
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
EMS545J	043127104336	Bagged	5 1/2	138	13/32	10	7/16	11	9/32	7	1/32	.8	.78	354	6

## Relieved Head Diagonal Cutter



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
S424NJS	037103213624	Boxed	4	100	5/8	16	37/64	15	5/16	8	3/64 x 1/32	1 x .8	1.33	603	6
S424NJSV	037103213631	Carded	4	100	5/8	16	37/64	15	5/16	8	3/64 x 1/32	1 x .8	1.33	603	6

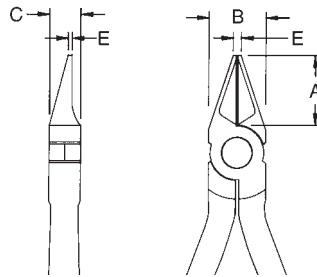
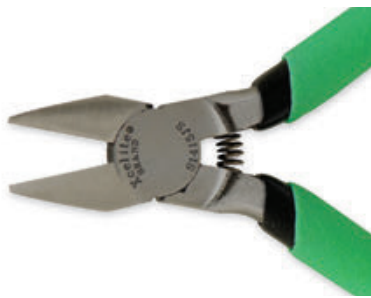
## Tapered Head Diagonal Cutter



- Tapered head diagonal cutter
- Flush cutting
- Used for cutting component leads
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
S475NJS	037103213273	Bagged	5	125	3/4	19	19/32	15	3/8	10	3/32 x 1/16	2 x 1.5	1.47	667	6
S475NJSV	037103213228	Carded	5	125	3/4	19	19/32	15	3/8	10	3/32 x 1/16	2 x 1.5	1.47	667	6

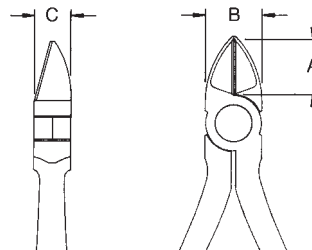
## Tapered Relieved Head Diagonal Cutter



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
S1415NJS	037103213235	Boxed	5	125	49/64	19	19/32	15	3/8	10	3/32 x 3/64	2 x 1	1.5	680	6

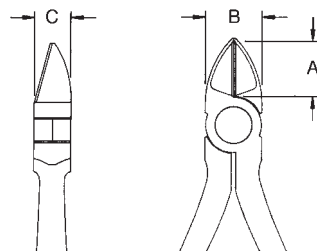
## Diagonal Lead Cutter



- Oval head
- Standard cutting
- Heavy-duty cutting
- Features green cushion grips
- S54S same as S54 plus handle coil spring

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
S54N	037103213648	Bagged	4 1/2	112	5/8	16	37/64	15	3/8	9	1.32	599	6	667	6
S54NS	037103213679	Bagged	4 1/2	112	5/8	16	37/64	15	3/8	9	1.32	599	6	667	6
S54NSV	037103213686	Carded	4 1/2	112	5/8	16	37/64	15	3/8	9	1.32	599	6		

## Diagonal Lead Cutter



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
S54NKS	037103213662	Bagged	4 1/2	112	5/8	16	37/64	15	3/8	9	1.32	599	6	667	6

## Oval Head Diagonal Cutter



- Oval head diagonal cutter
- Regular/standard beveled edge
- Features green cushion grips
- S55S same as S55 plus handle coil spring

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>55N</b>	037103213242	Bagged	5	125	49/64	19	19/32	15	3/8	9	1.5	680	6	667	6
<b>S55NS</b>	037103213280	Bagged	5	125	49/64	19	19/32	15	3/8	9	1.5	680	6	667	6

## Oval Head Diagonal Cutter



- Oval head diagonal cutter with handle coil spring
- Heavy-duty cutting
- Semi-flush cutter
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>S55NKS</b>	037103213259	Bagged	5	125	49/64	19	19/32	15	3/8	9	1.5	680	6	667	6

## Xcelite® Diagonal End Cutter Pliers

Angled Diagonal End Cutter at 29°



- 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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>GA54JV</b>	043127085475	Bagged	4	100	7/16	11	7/16	11	9/32	7	7/16	11	1/32	.8	.96	454	6

## Angled Head Cutter



- Angled cutter
- Flush cutting edges
- Head angle allows cutting from above
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
EGA54J	043127064197	Bagged	5 1/2	138	7/16	11	7/16	11	9/32	7	7/16	11	1/32	.8	.96	454	6

## Transverse End Cutter



- Transverse end cutter
- Flush cutting edge
- Vertical cutting in tight spaces
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
EC54J	043127170096	Bagged	4 1/2	112	1	25	7/16	11	9/32	7	1/8	3	3/16	5	.78	354	6

## 30° Angled Tip Cutter



- 30°Angled tip cutter
- Flush cutting in dense areas
- Thin angled nose for high visibility
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
LC665J	043127062742	Bagged	4 1/2	112	29/32	23	1/2	13	19/64	7	1/4	6	.96	454	.96	454	6

### Chain Nose Pliers - Short Chain Nose Pliers



- Short chain nose pliers
- Serrated jaws
- Heavy-duty
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
LN225	043127063138	Bagged	5	125	1 9/64	29	17/32	14	9/32	7	1/16 x 1/16	1.5 x 1.5	1.14	517	6

### 60° Curved-Tip Nose Pliers



- Curved nose pliers
- Thin tip
- Features green cushion grips
- CN255G features smooth jaws
- CN255V features fine serrated jaws

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
CN255V	037103129147	Bagged	5	125	1 15/64	31	27/64	11	9/32	7	3/64	1	.90	408	6
CN255G	043127063091	Bagged	5	125	1 15/64	31	27/64	11	9/32	7	3/64	1	.90	408	6

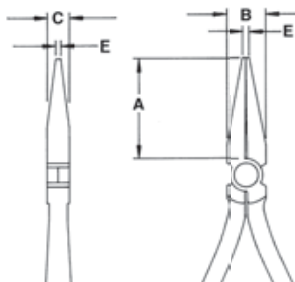
### Long Needle Nose Pliers - Thin Long Nose Pliers



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
LN54V	043127085468	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	.96	435	6

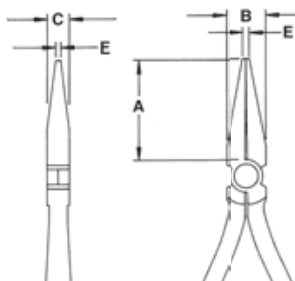
### Thin Long Nose Pliers - Fine Point



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
LN54Z	043127170065	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	3/64 x 1/32	1.2 x .8	.96	435	6

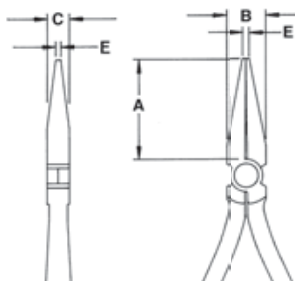
### Thin Long Nose Pliers - Smooth Jaws



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
LN54GV	037103129154	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	1.14	517	6

### Thin Long Nose Pliers



- Thin long nose pliers
- General-purpose use pick-up and wire forming
- ELN54 features fine serrated jaws
- ELN54G features smooth jaws
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
ELN54	043127170010	Bagged	6 1/2	163	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	.96	435	6
ELN54G	043127104350	Bagged	6 1/2	163	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	.96	435	6

### Thin Long Nose Pliers



- Thin long nose pliers
- General-purpose
- Fine serrated jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>LN55V</b>	037103129161	Carded	5 1/2	138	1 11/16	43	17/32	14	9/32	7	5/64 x 1/16	2 x 1.6	1.5	680	6

### Long Nose Side Cutting Pliers



- Long nose side cutting pliers
- For general wire applications
- For reaching into confined working spaces
- Serrated jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>SN54</b>	043127170225	Bagged	5	125	1 3/16	30	17/32	14	9/32	7	1/4	6	5/64 x 1/16	2 x 1.6	.96	435	6
<b>SN55V</b>	037103129185	Bagged	5 1/2	138	1 11/16	43	17/32	14	9/32	7	3/8	10	5/64 x 1/16	2 x 1.6	1.32	599	6

### Wiring Pliers with Tip Cutter



- Wiring pliers with tip cutter
- Long nose
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>TC55</b>	043127070587	Bagged	5 1/2	138	1 1/4	32	17/32	14	9/32	7	1/4	6.4	3/32 x 1/16	2.4 x 1.6	1.33	603	6

## 60° Curved-Jaw Long Nose Pliers



- 60° curved long nose pliers
- Smooth jaws
- For reaching between closely spaced components
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
CN54G	043127170423	Bagged	5	125	15/16	24	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	1.14	517	6

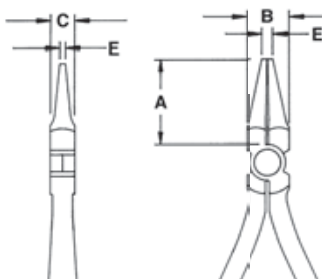
## 45° Curved-Tip Long Nose Pliers



- 45° curved long nose pliers
- Smooth jaws
- For reaching over assembled components in confined areas
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
CN55G	043127170140	Bagged	5 1/2	138	1 9/16	40	7/32	14	9/32	7	5/64 x 1/16	2 x 1.6	1.5	680	6

## Round Nose Pliers



- Round nose pliers
- Round, smooth jaws tapered to point
- For looping and forming of fine wire
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
RN54	043127170966	Bagged	4 1/2	113	7/8	22	7/16	11	9/32	7	1/8 x 1/16	3 x 1.6	.96	435	6



## Flat Nose Pliers



- Flat nose pliers
- Smooth jaws
- For holding and forming wire and small parts
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>DN54GV</b>	037103129093	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	5/64 x 9/64	2 x 3.6	1.11	504	6

## Subminiature Needle Nose Pliers



- Subminiature needle nose pliers
- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas
- L4 features serrated jaws
- L4G features smooth jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>L4V</b>	043127085482	Bagged	4	100	13/16	21	3/8	10	9/32	7	3/64 x 1/32	1.2 x .8	.78	354	6
<b>L4G</b>	043127161056	Bagged	4	100	13/16	21	3/8	10	9/32	7	3/64 x 1/32	1.2 x .8	.78	354	6

## Fine Point Needle Nose Pliers



- Fine point needle nose pliers
- Positive gripping of fine wires or subminiature components
- Long, thin nose with fine serrated jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>NN54Z</b>	043127170126	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	3/64 x 1/32	1.2 x .8	.96	435	6

## Slim Line Needle Nose Pliers



- Slim line needle nose pliers
- For use between tightly spaced components
- NN54V, NN55V feature serrated jaws
- NN54G, NN55G feature smooth jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>NN54V</b>	043127089499	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	.96	435	6
<b>NN54GV</b>	037103129130	Bagged	5	125	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	.96	435	6
<b>NN55V</b>	037103129468	Bagged	5 1/2	138	1 11/16	43	15/32	12	1/4	6	5/64 x 1/16	2 x 1.6	1.32	5.99	6
<b>NN55G</b>	043127170935	Bagged	5 1/2	138	1 11/16	43	15/32	12	1/4	6	5/64 x 1/16	2 x 1.6	1.32	5.99	6

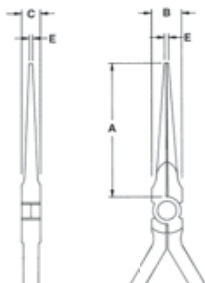
## Fine Point Needle Nose Pliers



- Fine point needle nose pliers
- Positive gripping of fine wires or subminiature components
- Long, thin nose with fine serrated jaws
- Accu-Lite handles (see page 43)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>ENN54</b>	043127170904	Bagged	6 1/2	163	1 3/16	30	7/16	11	9/32	7	5/64 x 1/16	2 x 1.6	.96	435	6

## Long Nose Wiring and Pick-up Pliers



- Wiring and pick-up pliers
- With alignment pin
- Long nose design
- Features green cushion grips
- Serrated jaws

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>LN774512</b>	043127063077	Bagged	5 1/2	138	1 3/4	45	15/32	12	1/4	6	5/64 x 1/16	2 x 1.5	1.08	490	6

### Slim Line Long Needle Nose Pliers



- Slim line needle nose pliers
- Fine tip
- LN775512V features serrated jaws
- LN775512G features smooth jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>LN775512V</b>	037103129499	Bagged	5 1/2	138	1 3/4	45	15/32	12	1/4	6	5/64 x 1/16	2 x 1.5	1.14	517	6
<b>LN775512G</b>	043127079665	Bagged	5 1/2	138	1 3/4	45	15/32	12	1/4	6	5/64 x 1/16	2 x 1.5	1.14	517	6

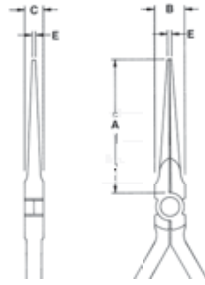
### 60° Curved-Jaw Long Nose Pliers



- Curved long nose pliers
- For reaching into confined spaces
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>CN7776</b>	043127063060	Bagged	6	150	1 23/64	35	15/32	12	1/4	6	1/16 x 1/16	1.5 x 1.5	1.35	612	6

### Long Needle Nose Pliers



- Long needle nose pliers
- Extra long nose
- NN7776V features serrated jaws
- NN7776G features smooth jaws
- Features green cushion grips

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>NN7776V</b>	037103129482	Carded	6	150	2 5/16	59	15/32	12	1/4	6	0.08 x 5/64	2 x 2	1.32	599	6
<b>NN7776G</b>	043127083297	Bagged	6	150	2 5/16	59	15/32	12	1/4	6	0.08 x 5/64	2 x 2	1.32	599	6

## Pliers Kit - Electronics Handy Pack Assortment



- 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
  - MS54V 4" Diagonal cutting pliers
  - SN54 5" Long nose pliers with side cutter
  - NN54V 5" Fine tip needle nose pliers
  - DN54GV 5" Flat nose pliers
  - LN54V 5" Long nose pliers
  - Pocket pouch with snaps

Catalog number	UPC No.	Description	(lb)	(g)	Shelf pack
<b>C1K</b>	043127880179	6 piece pliers kit	1	.45	1

## Pliers Kit - Electronics



- 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:
  - M554J, M5543JV, M5545JV, GA54JV, vinyl pouch

Catalog number	UPC No.	Description	(lb)	(g)	Shelf pack
<b>C2K</b>	037103201911	4 Piece pliers kit	.49	.22	6

## Electronic Shearcutters and Pliers

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.

- 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

Shearcutter  
170/175



Heavy-Duty  
Shearcutter  
1178/2178



Plier  
378



### Product features



- Shearcutter — Red 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
- Superior shearing action

## Shearcutter - General-purpose



Safety Clip



- 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 red 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)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
170M	037103029959	Carded	5	127	3/4	19	11/32	9	1/2	13	5/64	2	1.5	680	6
170D	037103029935	Carded	5	127	3/4	19	11/32	9	1/2	13	5/64	2	1.5	680	6
175M	037103030023	Carded	5	127	3/4	19	11/32	9	1/2	13	5/64	2	1.5	680	6
175D	037103030009	Carded	5	127	3/4	19	11/32	9	1/2	13	5/64	2	1.5	680	6

## Shearcutter - Heavy-duty



Safety Clip



- Heavy-duty for IC pins, cables and harnesses
- Maximum durability
- Safety clip (on some models) prevents flying leads
- Maximum operator safety
- 1178M, 2178M feature red 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)

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
1178M	037103030825	Carded	5 5/8	143	29/32	23	13/32	10	17/32	14	1/8	3	1.62	735	6
1178D	037103030801	Carded	5 5/8	143	29/32	23	13/32	10	17/32	14	1/8	3	1.62	735	6
2178M	037103039590	Carded	5 5/8	143	29/32	23	13/32	10	17/32	14	1/8	3	1.62	735	6
2178D	037103031648	Carded	5 5/8	143	29/32	23	13/32	10	17/32	14	1/8	3	1.62	735	6

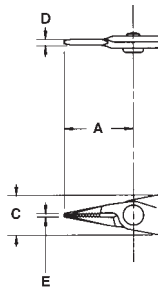
## 2 Piece Shearcutter / Plier Set



- 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

Catalog number	UPC No.	Description	(lb)	(g)	Shelf pack	
<b>S2K</b>	043127135156	Carded	2 piece set (170M and 378M) 10 each sets/case cut pack	3.8	1724	10

## Pliers - Serrated and Smooth Jaws



- Thin profile, long reach pliers
- For access into tight spaces
- Lightweight for maximum comfort
- For use in precision electronic assembly applications
- 378M, 378D feature serrated jaws
- 378SMM, 378SMD feature smooth jaws
- 378M, 378SMM feature light red grips
- 378D, 378SMD feature static-dissipative black grips and especially hardened and plated

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>378M</b>	037103030252	Carded	5 1/2	140	1 1/2	32	17/32	14	1/8	3	3/64	1.2	1.62	735	6
<b>378D</b>	037103030238	Carded	5 1/2	140	1 1/2	32	17/32	14	1/8	3	3/64	1.2	1.62	735	6
<b>378SMM</b>	037103030320	Carded	5 1/2	140	1 1/2	32	17/32	14	1/8	3	3/64	1.2	1.62	735	6
<b>378SMD</b>	037103030306	Carded	5 1/2	140	1 1/2	32	17/32	14	1/8	3	3/64	1.2	1.62	735	6

## Pliers and Cutters — with Red Cushion Grip Handles



The exceptional strength and performance of Xcelite® pliers and cutters are the result of forged alloy steel construction, precision machining, and scientific proportioning

Handles designed to fit the hand comfortably and to provide maximum leverage

Clearly machined and perfectly aligned jaws grip tightly and surely while easy cutting is assured by hand-honed, mated cutting edges

For extra working comfort all models have permanent, red plastic-coated “Cushion-Grip” handles except Combination Slip Joint pliers

These high quality pliers and cutters are featured in Xcelite® Attachê Tool Cases

	<b>WARNING</b>	<b>AVERTISSEMENT</b>	<b>ADVERTENCIA</b>
	Risk Of Eye Injury Wear ANSI Approved Eye Protection	Risque de dommages d'oeil Protection d'oeil approuvée de l'usage A.N.S.I.	Riesgo de lesión del ojo Protección de ojo aprobada del desgaste ANSI

### Hard Wire (Piano and Music) Cutter 134CG



- 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"

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>134CG</b>	037103059994	Bagged	5.45	140	0.55	14	0.72	18.5	0.32	8.2	18.4	522	6

### Diagonal Pliers 54CG

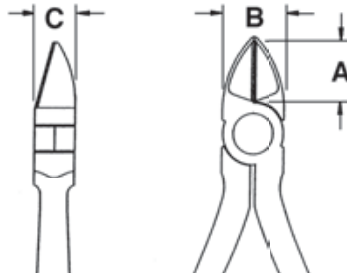


- For work in close quarters
- Oval head
- Standard beveled edges
- Forged alloy steel construction, precision machining and scientific proportioning
- Red plastic-coated cushion grip provides maximum leverage

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>54CGV</b>	037103481597	Carded	4	100	13/32	10	7/16	11	9/32	7	1/32	0.8	12.5	354	6



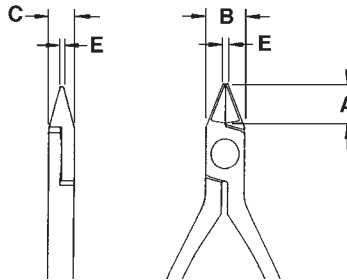
## 55NCG All-Purpose Pliers



- All-purpose pliers
- Oval head
- Standard beveled edges
- Forged alloy steel construction, precision machining and scientific proportioning
- Exceptional strength and performance
- Red plastic-coated cushion grip provides maximum leverage

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>55NCG</b>	037103213297	Boxed	5	125	3/4	19	19/32	15	3/8	10	-	-	22.2	629	6
<b>55NCGV</b>	037103213327	Carded	5	125	3/4	19	19/32	15	3/8	10	-	-	22.2	629	6

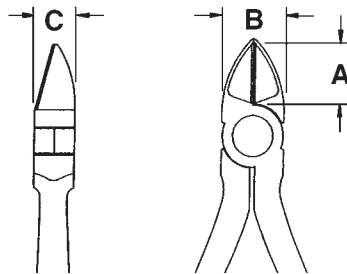
## 64CG Semi-flush Tip Cutting Pliers



- 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
- Tapered jaw

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>64CGV</b>	037103481764	Carded	4	100	13/32	10	7/16	11	9/32	7	1/32	0.8	12.5	354	6

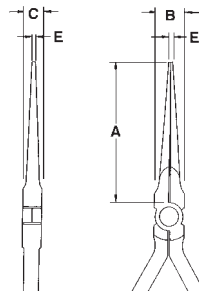
## 66NCG All-Purpose Pliers



- All-purpose pliers
- Oval head
- Standard beveled edges
- Forged alloy steel construction, precision machining and scientific proportioning
- Exceptional strength and performance
- Red plastic-coated cushion grip provides maximum leverage

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
<b>66NCG</b>	037103213457	Boxed	6	152	27/32	21	11/16	17	7/16	11	-	-	42.2	1196	6
<b>66NCGV</b>	037103213464	Carded	6	152	27/32	21	11/16	17	7/16	11	-	-	42.2	1196	6

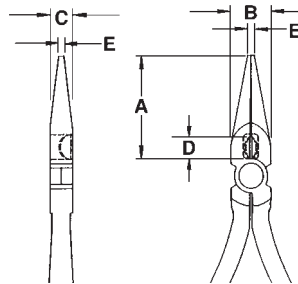
## 57CG Standard Pliers



- Standard pliers
- 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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
57CGV	037103481658	Carded	5 11/16	144	-	-	15/32	12	1/4	6	5/64	2	20.8	590	6

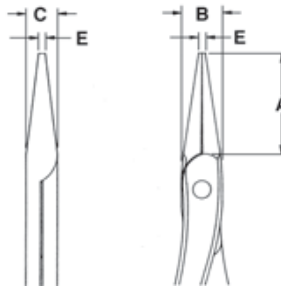
## 51NCG, 52NCG Firm Gripping and Looping Pliers



- 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
- 52NCGV without side cutter

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	D (inch)	D (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
51NCG	037103481528	Boxed	6	152	1 7/8	48	11/16	17	3/8	10	1/2	13	3/32	2.4	36.6	1038	6
51NCGV	037103212887	Carded	6	152	1 7/8	48	11/16	17	3/8	10	1/2	13	3/32	2.4	36.6	1038	6
52NCGV	037103212931	Carded	6	152	1 7/8	48	11/16	17	3/8	10	1/2	13	3/32	2.4	36.6	1038	6

## 59NCG Electricians Chain Nose Pliers



- Electrician's chain nose pliers
- 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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	A (inch)	A (mm)	B (inch)	B (mm)	C (inch)	C (mm)	E (inch)	E (mm)	Pack weight (lb)	Pack weight (g)	Shelf pack
59NCG	037103213730	Boxed	8	200	1 1/2	32	9/16	14	15/32	12	3/32	2.4	44.5	1262	6

XCELITE

## 50CGV 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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Opening (inch)	Opening (mm)	Shelf pack
<b>50CGV</b>	037103481511	Carded	5	127	1/2	12.7	6

## Seizer Forceps



- Seizer forcepsVersatile 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 construction3-position snap lock

Catalog Number	UPC Number	Packed	Description	Length (inch)	Length (mm)	Shelf pack
<b>32H</b>	037103481344	Bagged	Straight nose jr. seizer, smooth jaws	5.0	127	6
<b>33HV</b>	037103481375	Carded	Curved nose jr. seizer, smooth jaws	5.0	127	6
<b>42HV</b>	037103481412	Carded	Straight nose seizer, serrated jaws	5.5	140	6
<b>43HV</b>	037103481436	Carded	Curved nose seizer, serrated jaws	5.5	140	6

## Wire Strippers & Cutters with Cushion Grip Handles



- 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
- 22-8 AWG

Catalog Number	UPC Number	Packed	Description	Length (inch)	Length (mm)	Shelf pack
<b>100XNV</b>	037103483577	Bagged	Stripper, cutter	5	127	6
<b>101SNV</b>	037103483591	Bagged	Stripper, cutter-spring opening	5	127	6

### 103SNV Wire Stripper



- 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
- 22-8 AWG

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Shelf pack
<b>103SNV</b>	037103483614	Carded	5 1/4	133	6

### 104CG Wire Stripper and Cutter



- For copper and aluminum wire 22-10 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
- 104CGCS packaged on a clip strip merchandising wand

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Shelf pack
<b>104CG</b>	037103486820	Boxed	8 1/4	210	6
<b>104CGV</b>	037103486837	Carded	8 1/4	210	6

### 105CG 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® Catalog No. 105SCGV includes work-speeding automatic spring and lock
- Red cushion grip handle provides maximum leverage
- For copper and aluminum wire 22-10 AWG

Catalog Number	UPC Number	Packed	Description	Length (inch)	Length (mm)	Shelf pack
<b>105CGV</b>	037103486981	Bagged	Stripper, cutter without spring and lock	6	150	6
<b>105SCGV</b>	037103487001	Bagged	Stripper, cutter-spring opening and lock	6	150	6

## 86ncg Snips



- 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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Opening (inch)	Opening (mm)	Shelf pack
<b>86NCG</b>	037103482129	Boxed	6 1/2	165	1 1/2	38	6
<b>86NCGV</b>	037103482136	Carded	6 1/2	165	1 1/2	38	6

## XL70 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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Description	Shelf pack
<b>XL70</b>	037103486691	Boxed	-	-	Complete set	1

## XL75 Offset Ratchet Screwdriver Set



- 5-piece set
- Driver bits 1/4"/6mm hex shank
- See-through plastic pouch
- Slotted 3/16" - 1/4"
- Phillips® screw bit #1 and #2

Catalog Number	UPC Number	Packed	Description	Shelf pack
<b>XL75V</b>	037103486714	Bagged	Complete set vacuum packed	1

## Adjustable Wrenches



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

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Jaw Capacity (inch)	Jaw Capacity (mm)	Shelf pack
<b>44CGV</b>	037103481450	Bagged	4	100	1/2	13	6
<b>46CGV</b>	037103481474	Bagged	6	150	15/16	24	6
<b>48CGV</b>	037103481498	Bagged	8	200	1 1/8	29	6

## K22 Electrician's Knife



- Both a knife and a screwdriver
- Screwdriver blade with sharp edge for scraping insulation
- Spear point

Catalog Number	UPC Number	Packed	Description	Shelf pack
<b>K22</b>	037103484239	Boxed	Electrician's knife	6
<b>K22V</b>	037103484246	Carded	Electrician's knife	6

## XSS Premium Stainless-Steel Tweezers



- High quality
- For electronic use
- Manufactured from anti-magnetic, anti-acid stainless steel
- Working tips hand finished for precise alignment
- Smooth jaws

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Description	Shelf pack
<b>XSST3</b>	037103490957	Bagged	4 3/4	121	Straight point	6
<b>XSST3V</b>	037103490964	Carded	4 3/4	121	Straight point carded	6
<b>XSST3CV</b>	037103490988	Bagged	4 1/4	158	Straight point small carded	6
<b>XSST4V</b>	037103491008	Carded	4 1/4	108	Fine taper point carded	6
<b>XSST7V</b>	037103491046	Carded	4 1/2	115	Curved tip-thin carded	6

## XHT General-Duty Tweezers



Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Description	Shelf pack
<b>XHT434</b>	037103487636	Carded	4 3/4	121	Smooth sharp points	6
<b>XHT412</b>	037103487629	Bagged	4 1/2	115	Self closing, smooth sharp points for holding work	6
<b>XHT612</b>	037103487650	Bagged	6	165	Self closing, especially good for soldering and gluing	6
<b>XHT678</b>	037103487667	Carded	6 7/8	174	For better view of close work for hard to reach places	6
<b>XHT700</b>	037103487674	Carded	7	178	Slender tapered point to fit in tight places	6
<b>XHT600</b>	037103487643	Carded	6	152	Serrated points for sure grips opens to 3/4" / 19mm width	6

## Precision Knives and Blades

A fine selection of six knives from lightweight to heavy-duty for the professional and hobbyist

Precision made for durable life

Interchangeable blades held firm in sure-locking four jaw chuck

Stay sharp blades are made from surgical steel and honed for closest cutting and long lasting edge

### X100 Light-duty Precision Knives



- Designed for light-duty cutting on paper, soft and light-weight materials or wood

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Type of Blade	Shelf pack
<b>XN100</b>	037103487681	Boxed	5 13/16	148	XNB103	6
<b>XN100B</b>	037103488466	Boxed	Same as XN-100 – Tube	24		144

### X200 Medium-duty Precision Knife



- Designed for heavy paper and medium density materials

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Type of Blade	Shelf pack
<b>XN200</b>	037103487698	Boxed	5 3/4	146	XNB205	6

### X210 Heavy-duty Plastic Handle Precision Knife



- Designed for working with hardwood, plastic and other difficult to cut materials

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Type of Blade	Shelf pack
<b>XN210</b>	037103487704	Boxed	5 7/16	137	XNB201	6

### X300 Carving Precision Knife



- For those who prefer a metal handled knife
- Cuts through hardwood and plastics

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Type of Blade	Shelf pack
<b>XN300</b>	037103487728	Boxed	5 5/8	144	XNB301	6



## XS100 Light and Medium-duty Knife Set



- For a wide range of cutting operations
- Contains 10 assorted blades

Catalog Number	UPC Number	Packed	Length (inch)	Length (mm)	Type of Blade	Shelf pack
<b>XNS100</b>	037103487742	Boxed	XN100 and XN200 knives & 10 assorted blades	6	XNB205	6

## XB Replacement Blades



**XNB101** Standard



**XNB105** Stencil



**XNB203** General Purpose



**XNB301** Straight Carving



**XNB103** Fine Pointed



**XNB201** Chisel



**XNB205** Pointed



**XNB305** Curved Carving

- Blades interchangeable with other similar knives
- Safely packed in transparent plastic containers and carded
- Bulk packed Number of blades per container shown in tables

Catalog Number	UPC Number	Quantity	Description	Fits knife	Shelf pack
<b>XNB103</b>	037103487766	5	For most detailed cutting and stripping	XN100	6
<b>XNB103B</b>	037103488473	100	For most detailed cutting and stripping	XN100	1
<b>XNB203</b>	037103487797	5	For most cutting requirements	XN200/210/300	6
<b>XNB105</b>	037103487773	5	For scoring and etching as well as stencil cutting	XN100	6
<b>XNB205</b>	037103487803	5	For close corner cuts on templates, mates, gaskets, also trimming, stripping and de-burring	XN200/210/300	6
<b>XNB201</b>	037103487780	5	Rough shaping de-burring and chiseling	XN200/210/300	6
<b>XNB101</b>	037103487759	5	General-duty for cutting, carving and correcting stencils	XN100	6
<b>XNB301</b>	037103487834	2	For general-purpose carving	XN300	6

## TKX11 Multi-purpose Tool Kit



- 11 quality tools perfect for all types of routine repair and simple DIY'er projects
- Packed neatly in an attractive easy-to-store case

Catalog Number	UPC Number	Packed	(inch)	(mm)	Description	Shelf pack
<b>TKX11</b>	037103487377	Boxed	-	-	Complete tool kit	1
<b>R144</b>	037103485403	Boxed	1/4 x 4	101	Round blade screwdriver	-
<b>R184</b>	037103485496	Boxed	1/8 x 4	101	Round blade screwdriver	-
<b>X101</b>	037103486394	Boxed	No. 1 Phillips® x 3	76	Round blade screwdriver	-
<b>P12S</b>	037103484857	Boxed	No. 0 Phillips® x 2	51	Round blade screwdriver	-
<b>51NCG</b>	037103212856	Boxed	6	152	Long nose pliers with side cutter	-
<b>46CGV</b>	037103481467	Boxed	6	152	Adjustable wrench	-
<b>S141</b>	037103485854	Boxed	1/4 x 11/4	32	Stubby square blade screwdriver	-
<b>W9210ME</b>	037103458766	Boxed	1/2	13 x 10	Metric/English tape rule	-
<b>8</b>	037103481108	Boxed	1/4	6.35	Hex nutdriver	-
<b>100XNV</b>	037103254733	Boxed	5	127	Wire-stripping, cutter, cushion grip	-
<b>H26N</b>	037103227959	Boxed	6 1/2	165	Combination plier CEETEE 6 1/2"	-

## Model TCMB100STW and TCMB100MTW



The 100 Series Kits are all “The Largest and Most Elaborate”

- Contains 53 individual hand tools, 31 Series 99® interchangeable screwdriver/nutdriver blades and handles, and 2 specialized screwdriver/nutdriver kits (as listed)
- Extra large roller bearing wheels (3 5/8”) with wide base for maximum stability and easy transport over rough pavement or stairs.
- Extra wide, comfortable extension handle is molded into case to prevent wear.
- Size: 20”x16 3/4”x13 1/2” deep.
- Extension handle locks in place automatically when extended and retracted. Easy one-handed release.
- Two tote handles for convenience. Both are spring loaded for protection.
- “D” ring provided for Bunji cords to carry other cases on top
- Case is super tough, black polyethylene rotationally molded for maximum strength. Minimum wall thickness of 0.120”.
- 3-panel hinged tool pallet in lid plus additional pallet in bottom.
- Extra large storage space for additional equipment.
- Extra large all new screen mesh literature/utility pocket.

Catalog Number	UPC Number	Packed
<b>TCMB100STW</b>	037103107787	Tool case with tools
<b>TCMB100MTW</b>	037103107794	Tool case only-NO TOOLS

Catalog Number	Description	Qty	Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991</b>	Handle – regular	1	<b>57CGV</b>	Needle nose pliers 5 1/2” / 139mm	1	<b>XST102</b>	Phillips® screwdriver	1
<b>991R</b>	Handle – regular ratchet	1	<b>59NCG</b>	Chain nose pliers 8” / 203mm	1	<b>P18</b>	Hex socket screwdriver	1
<b>994R</b>	Handle – Tee ratchet	1	<b>86NCG</b>	Electronic snips	1	<b>P19</b>	Hex socket screwdriver	1
<b>99X5</b>	Extension	1	<b>103SV</b>	Wire stripper/cutter	1	<b>HS6</b>	Nutdriver—hollow shaft	1
<b>99X10</b>	Extension	1	<b>K22</b>	Electrician’s knife	1	<b>HS8</b>	Nutdriver—hollow shaft	1
<b>9938</b>	Reamer	1	<b>M60</b>	Mini drivers	1	<b>HS10</b>	Nutdriver—hollow shaft	1
<b>99125</b>	Slotted screw blade	1	<b>XL75V</b>	Offset ratchet screwdrivers	1	<b>HS11</b>	Nutdriver—hollow shaft	1
<b>99250</b>	Slotted screw blade	1	<b>600</b>	Combination screwdriver-nutdriver tool	1	<b>HS12</b>	Nutdriver—hollow shaft	1
<b>99312</b>	Slotted screw blade	1	<b>SB1</b>	Dual reversible screwdriver blade	1	<b>HS14</b>	Nutdriver—hollow shaft	1
<b>99811</b>	Slotted screw blade	1	<b>R144</b>	Slotted screwdriver	1	<b>HS16</b>	Nutdriver—hollow shaft	1
<b>99820</b>	Phillips® screw blade	1	<b>R146</b>	Slotted screwdriver	1	<b>HS18</b>	Nutdriver—hollow shaft	1
<b>99821</b>	Phillips® screw blade	1	<b>R181</b>	Slotted screwdriver	1	<b>8M</b>	Nutdriver—magnetic	1
<b>99822</b>	Phillips® screw blade	1	<b>R184</b>	Slotted screwdriver	1	<b>10M</b>	Nutdriver—magnetic	1
<b>9961 - 69</b>	Bristol 6-flute multi. spline blades (9)	1	<b>R3164</b>	Slotted screwdriver	1	<b>P3</b>	Midget nutdriver	1
<b>9920 - 26</b>	Allen® hex socket type blades (7)	1	<b>R3166I</b>	Slotted screwdriver (insulated blade)	1	<b>P4</b>	Midget nutdriver	1
<b>99764</b>	Allen® hex socket type blade	1	<b>R3323</b>	Slotted screwdriver	1	<b>P5</b>	Midget nutdriver	1
<b>99964</b>	Allen® hex socket type blade	1	<b>R5325</b>	Slotted screwdriver	1	<b>P6</b>	Midget nutdriver	1
<b>42H</b>	Straight nose seizer	1	<b>S388</b>	Slotted screwdriver	1	<b>P7</b>	Midget nutdriver	1
<b>46CG</b>	Adjustable wrench 6” / 152mm	1	<b>S3161</b>	Slotted screwdriver	1	<b>P8</b>	Midget nutdriver	1
<b>50CG</b>	Midget slip joint pliers 5” / 127mm	1	<b>S5161</b>	Slotted screwdriver	1	<b>P9</b>	Midget nutdriver	1
<b>51NCG</b>	Long nose pliers 6” / 152mm	1	<b>S5166</b>	Slotted screwdriver	1	<b>P10</b>	Midget nutdriver	1
<b>53CG/ R27CV</b>	Utility pliers 7” / 178mm	1	<b>SX101</b>	Phillips® screwdriver	1	<b>P11</b>	Midget nutdriver	1
<b>54CGV</b>	Diagonal pliers 4” / 101mm	1	<b>XST100</b>	Phillips® screwdriver	1	<b>P12</b>	Midget nutdriver	1
<b>66NCG</b>	Diagonal pliers 6” / 152mm	1	<b>XST101</b>	Phillips® screwdriver	1	<b>TA2</b>	Torque amplifier handle	1

## Model TCA100ST



- Contains 53 individual hand tools, 31 Series 99® interchangeable screwdriver/nutdriver blades and handles, and 2 specialized screwdriver/nutdriver kits (as listed)
- 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

Catalog Number	UPC Number	Packed
<b>TCA100ST</b>	037103491343	Tool case with tools

Catalog Number	Description	Qty	Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991</b>	Handle – regular	1	<b>57CGV</b>	Needle nose pliers 5 1/2"/139mm	1	<b>XST102</b>	Phillips® screwdriver	1
<b>991R</b>	Handle – regular ratchet	1	<b>59NCG</b>	Chain nose pliers 8"/203mm	1	<b>P18</b>	Hex socket screwdriver	1
<b>994R</b>	Handle – Tee ratchet	1	<b>86NCG</b>	Electronic snips	1	<b>P19</b>	Hex socket screwdriver	1
<b>99X5</b>	Extension	1	<b>103SNV</b>	Wire stripper/cutter	1	<b>HS6</b>	Nutdriver—hollow shaft	1
<b>99X10</b>	Extension	1	<b>K22</b>	Electrician's knife	1	<b>HS8</b>	Nutdriver—hollow shaft	1
<b>9938</b>	Reamer	1	<b>M60</b>	Mini drivers	1	<b>HS10</b>	Nutdriver—hollow shaft	1
<b>99125</b>	Slotted screw blade	1	<b>XL75V</b>	Offset ratchet screwdrivers	1	<b>HS11</b>	Nutdriver—hollow shaft	1
<b>99250</b>	Slotted screw blade	1	<b>600</b>	Combination screwdriver-nutdriver tool	1	<b>HS12</b>	Nutdriver—hollow shaft	1
<b>99312</b>	Slotted screw blade	1	<b>SB1</b>	Dual reversible screwdriver blade	1	<b>HS14</b>	Nutdriver—hollow shaft	1
<b>99811</b>	Slotted screw blade	1	<b>R144</b>	Slotted screwdriver	1	<b>HS16</b>	Nutdriver—hollow shaft	1
<b>99820</b>	Phillips® screw blade	1	<b>R146</b>	Slotted screwdriver	1	<b>HS18</b>	Nutdriver—hollow shaft	1
<b>99821</b>	Phillips® screw blade	1	<b>R181</b>	Slotted screwdriver	1	<b>8M</b>	Nutdriver—magnetic	1
<b>99822</b>	Phillips® screw blade	1	<b>R184</b>	Slotted screwdriver	1	<b>10M</b>	Nutdriver—magnetic	1
<b>9961 - 69</b>	Bristol 6-flute multi. spline blades (9)	1	<b>R3164</b>	Slotted screwdriver	1	<b>P3</b>	Midget nutdriver	1
<b>9920 - 26</b>	Allen® hex socket type blades (7)	1	<b>R3166I</b>	Slotted screwdriver (insulated blades)	1	<b>P4</b>	Midget nutdriver	1
<b>99764</b>	Allen® hex socket type blade	1	<b>R3323</b>	Slotted screwdriver	1	<b>P5</b>	Midget nutdriver	1
<b>99964</b>	Allen® hex socket type blade	1	<b>R5325</b>	Slotted screwdriver	1	<b>P6</b>	Midget nutdriver	1
<b>42HV</b>	Straight nose seizer	1	<b>S388</b>	Slotted screwdriver	1	<b>P7</b>	Midget nutdriver	1
<b>46CGV</b>	Adjustable wrench 6"/152mm	1	<b>S3161</b>	Slotted screwdriver	1	<b>P8</b>	Midget nutdriver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>S5161</b>	Slotted screwdriver	1	<b>P9</b>	Midget nutdriver	1
<b>51NCG</b>	Long nose pliers 6"/152mm	1	<b>S5166</b>	Slotted screwdriver	1	<b>P10</b>	Midget nutdriver	1
<b>53CG/ R27CV</b>	Utility pliers 7"/178mm	1	<b>SX101</b>	Phillips® screwdriver	1	<b>P11</b>	Midget nutdriver	1
<b>54CGV</b>	Diagonal pliers 4"/101mm	1	<b>XST100</b>	Phillips® screwdriver	1	<b>P12</b>	Midget nutdriver	1
<b>66NCG</b>	Diagonal pliers 6"/152mm	1	<b>XST101</b>	Phillips® screwdriver	1	<b>TA2</b>	Torque amplifier handle	1

## Model TCMB100ME



- Contains 53 individual hand tools, 29 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

Catalog Number	UPC Number	Packed
<b>TCMB100ME</b>	037103491527	Tool case with tools
<b>TCMB100MT</b>	037103491206	Tool case only-NO TOOLS

Catalog Number	Description	Qty	Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991</b>	Handle – regular	1	<b>57CGV</b>	Needle nose pliers 5 1/2"/139mm	1	<b>XST102</b>	Phillips® screwdriver	1
<b>991R</b>	Handle – regular ratchet	1	<b>59NCG</b>	Chain nose pliers 8"/203mm	1	<b>P18</b>	Hex socket screwdriver	1
<b>994R</b>	Handle – Tee ratchet	1	<b>86NCG</b>	Electronic snips	1	<b>P19</b>	Hex socket screwdriver	1
<b>99X5</b>	Extension	1	<b>103SV</b>	Wire stripper/cutter	1	<b>4.5MM</b>	Nutdriver	1
<b>99X10</b>	Extension	1	<b>K22</b>	Electrician's knife	1	<b>6MM</b>	Nutdriver	1
<b>9938</b>	Reamer	1	<b>M60</b>	Mini drivers	1	<b>8MM</b>	Nutdriver	1
<b>99125</b>	Slotted screw blade	1	<b>XL75V</b>	Offset ratchet screwdrivers	1	<b>9MM</b>	Nutdriver	1
<b>99250</b>	Slotted screw blade	1	<b>600</b>	Combination screwdriver-nutdriver tool	1	<b>10MM</b>	Nutdriver	1
<b>99312</b>	Slotted screw blade	1	<b>SB1</b>	Dual reversible screwdriver blade	1	<b>11MM</b>	Nutdriver	1
<b>99811</b>	Slotted screw blade	1	<b>R144</b>	Slotted screwdriver	1	<b>13MM</b>	Nutdriver	1
<b>99820</b>	Phillips® screw blade	1	<b>R146</b>	Slotted screwdriver	1	<b>HS18</b>	Nutdriver—hollow shaft	1
<b>99821</b>	Phillips® screw blade	1	<b>R181</b>	Slotted screwdriver	1	<b>8M</b>	Nutdriver—magnetic	1
<b>99822</b>	Phillips® screw blade	1	<b>R184</b>	Slotted screwdriver	1	<b>10M</b>	Nutdriver—magnetic	1
<b>9961 - 69</b>	Bristol 6-flute multi. spline blades (9)	1	<b>R3164</b>	Slotted screwdriver	1	<b>P3MM</b>	Midget nutdriver	1
<b>9971 - 9977MM</b>	Allen® hex socket type blades (7)	1	<b>R3166I</b>	Slotted screwdriver (insulated blades)	1	<b>P3.5MM</b>	Midget nutdriver	1
<b>42HV</b>	Straight nose seizer	1	<b>R3323</b>	Slotted screwdriver	1	<b>P4MM</b>	Midget nutdriver	1
<b>46CGV</b>	Adjustable wrench 6"/152mm	1	<b>R5325</b>	Slotted screwdriver	1	<b>P4.5MM</b>	Midget nutdriver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>S388</b>	Slotted screwdriver	1	<b>P5MM</b>	Midget nutdriver	1
<b>51NCG</b>	Long nose pliers 6"/152mm	1	<b>S3161</b>	Slotted screwdriver	1	<b>P5.5MM</b>	Midget nutdriver	1
<b>53CG/ R27CV</b>	Utility pliers 7"/178mm	1	<b>S5161</b>	Slotted screwdriver	1	<b>P6MM</b>	Midget nutdriver	1
<b>54CGV</b>	Diagonal pliers 4"/101mm	1	<b>S5166</b>	Slotted screwdriver	1	<b>P7MM</b>	Midget nutdriver	1
<b>66NCG</b>	Diagonal pliers 6"/152mm	1	<b>SX101</b>	Phillips® screwdriver	1	<b>P8MM</b>	Midget nutdriver	1
			<b>XST100</b>	Phillips® screwdriver	1	<b>P10MM</b>	Midget nutdriver	1
			<b>XST101</b>	Phillips® screwdriver	1	<b>TA2</b>	Torque amplifier handle	1

## Model TCMB100ST and TCMB100MT



- 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

Catalog Number	UPC Number	Packed
<b>TCMB100ST</b>	037103491990	Tool case with tools
<b>TCMB100MT</b>	037103491206	Tool case only-NO TOOLS

Catalog Number	Description	Qty	Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991</b>	Handle – regular	1	<b>57CGV</b>	Needle nose pliers 5 1/2"/139mm	1	<b>XST102</b>	Phillips® screwdriver	1
<b>991R</b>	Handle – regular ratchet	1	<b>59NCG</b>	Chain nose pliers 8"/203mm	1	<b>P18</b>	Hex socket screwdriver	1
<b>994R</b>	Handle – Tee ratchet	1	<b>86NCG</b>	Electronic snips	1	<b>P19</b>	Hex socket screwdriver	1
<b>99X5</b>	Extension	1	<b>103Snv</b>	Wire stripper/cutter	1	<b>HS6</b>	Nutdriver—hollow shaft	1
<b>99X10</b>	Extension	1	<b>K22</b>	Electrician's knife	1	<b>HS8</b>	Nutdriver—hollow shaft	1
<b>9938</b>	Reamer	1	<b>M60</b>	Mini drivers	1	<b>HS10</b>	Nutdriver—hollow shaft	1
<b>99125</b>	Slotted screw blade	1	<b>XL75V</b>	Offset ratchet screwdrivers	1	<b>HS11</b>	Nutdriver—hollow shaft	1
<b>99250</b>	Slotted screw blade	1	<b>600</b>	Combination screwdriver-nutdriver tool	1	<b>HS12</b>	Nutdriver—hollow shaft	1
<b>99312</b>	Slotted screw blade	1	<b>SB1</b>	Dual reversible screwdriver blade	1	<b>HS14</b>	Nutdriver—hollow shaft	1
<b>99811</b>	Slotted screw blade	1	<b>R144</b>	Slotted screwdriver	1	<b>HS16</b>	Nutdriver—hollow shaft	1
<b>99820</b>	Phillips® screw blade	1	<b>R146</b>	Slotted screwdriver	1	<b>HS18</b>	Nutdriver—hollow shaft	1
<b>99821</b>	Phillips® screw blade	1	<b>R181</b>	Slotted screwdriver	1	<b>8M</b>	Nutdriver—magnetic	1
<b>99822</b>	Phillips® screw blade	1	<b>R184</b>	Slotted screwdriver	1	<b>10M</b>	Nutdriver—magnetic	1
<b>9961 - 69</b>	Bristol 6-flute multi. spline blades (9)	1	<b>R3164</b>	Slotted screwdriver	1	<b>P3</b>	Midget nutdriver	1
<b>9920 - 26</b>	Allen® hex socket type blades (7)	1	<b>R3166I</b>	Slotted screwdriver (insulated blades)	1	<b>P4</b>	Midget nutdriver	1
<b>99764</b>	Allen® hex socket type blade	1	<b>R3323</b>	Slotted screwdriver	1	<b>P5</b>	Midget nutdriver	1
<b>99964</b>	Allen® hex socket type blade	1	<b>R5325</b>	Slotted screwdriver	1	<b>P6</b>	Midget nutdriver	1
<b>42HV</b>	Straight nose seizer	1	<b>S388</b>	Slotted screwdriver	1	<b>P7</b>	Midget nutdriver	1
<b>46CGV</b>	Adjustable wrench 6"/152mm	1	<b>S3161</b>	Slotted screwdriver	1	<b>P8</b>	Midget nutdriver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>S5161</b>	Slotted screwdriver	1	<b>P9</b>	Midget nutdriver	1
<b>51NCG</b>	Long nose pliers 6"/152mm	1	<b>S5166</b>	Slotted screwdriver	1	<b>P10</b>	Midget nutdriver	1
<b>53CG/ R27CV</b>	Utility pliers 7"/178mm	1	<b>SX101</b>	Phillips® screwdriver	1	<b>P11</b>	Midget nutdriver	1
<b>54CGV</b>	Diagonal pliers 4"/101mm	1	<b>XST100</b>	Phillips® screwdriver	1	<b>P12</b>	Midget nutdriver	1
<b>66NCG</b>	Diagonal pliers 6"/152mm	1	<b>XST101</b>	Phillips® screwdriver	1	<b>TA2</b>	Torque amplifier handle	1

## Model TCS100ST



- Contains 53 individual hand tools, 31 Series 99® interchangeable screwdriver/nutdriver blades and handles, and 2 specialized screwdriver/nutdriver kits (as listed)
- Case made from rugged Cordura® with dual heavy-duty zippers and soft leather wrapped handles
- Contains (on outside) 1 pocket on one side and 2 smaller pockets on opposite
- Size: 17" x 12" x 3 1/4"/432mm x 305mm x 83mm
- Cordura® is a registered trademark of DUPONT

Catalog Number	UPC Number	Packed
<b>TCS100ST</b>	037103491251	Tool case with tools

Catalog Number	Description	Qty	Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991</b>	Handle – regular	1	<b>57CGV</b>	Needle nose pliers 5 1/2"/139mm	1	<b>XST102</b>	Phillips screwdriver	1
<b>991R</b>	Handle – regular ratchet	1	<b>59NCG</b>	Chain nose pliers 8"/203mm	1	<b>P18</b>	Hex socket screwdriver	1
<b>994R</b>	Handle – Tee ratchet	1	<b>86NCG</b>	Electronic snips	1	<b>P19</b>	Hex socket screwdriver	1
<b>99X5</b>	Extension	1	<b>103SNV</b>	Wire stripper/cutter	1	<b>HS6</b>	Nutdriver—hollow shaft	1
<b>99X10</b>	Extension	1	<b>K22</b>	Electrician's knife	1	<b>HS8</b>	Nutdriver—hollow shaft	1
<b>9938</b>	Reamer	1	<b>M60</b>	Mini drivers	1	<b>HS10</b>	Nutdriver—hollow shaft	1
<b>99125</b>	Slotted screw blade	1	<b>XL75V</b>	Offset ratchet screwdrivers	1	<b>HS11</b>	Nutdriver—hollow shaft	1
<b>99250</b>	Slotted screw blade	1	<b>600</b>	Combination screwdriver-nutdriver tool	1	<b>HS12</b>	Nutdriver—hollow shaft	1
<b>99312</b>	Slotted screw blade	1	<b>SB1</b>	Dual reversible screwdriver blade	1	<b>HS14</b>	Nutdriver—hollow shaft	1
<b>99811</b>	Slotted screw blade	1	<b>R144</b>	Slotted screwdriver	1	<b>HS16</b>	Nutdriver—hollow shaft	1
<b>99820</b>	Phillips® screw blade	1	<b>R146</b>	Slotted screwdriver	1	<b>HS18</b>	Nutdriver—hollow shaft	1
<b>99821</b>	Phillips® screw blade	1	<b>R181</b>	Slotted screwdriver	1	<b>8M</b>	Nutdriver—magnetic	1
<b>99822</b>	Phillips® screw blade	1	<b>R184</b>	Slotted screwdriver	1	<b>10M</b>	Nutdriver—magnetic	1
<b>9961 - 69</b>	Bristol 6-flute multi. spline blades (9)	1	<b>R3164</b>	Slotted screwdriver	1	<b>P3</b>	Midget nutdriver	1
<b>9920 - 26</b>	Allen® hex socket type blades (7)	1	<b>R3166I</b>	Slotted screwdriver (insulated blades)	1	<b>P4</b>	Midget nutdriver	1
<b>42HV</b>	Straight nose seizer	1	<b>R3323</b>	Slotted screwdriver	1	<b>P5</b>	Midget nutdriver	1
<b>46CGV</b>	Adjustable wrench 6"/152mm	1	<b>R5325</b>	Slotted screwdriver	1	<b>P6</b>	Midget nutdriver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>S388</b>	Slotted screwdriver	1	<b>P7</b>	Midget nutdriver	1
<b>51NCG</b>	Long nose pliers 6"/152mm	1	<b>S3161</b>	Slotted screwdriver	1	<b>P8</b>	Midget nutdriver	1
<b>53CG/ R27CV</b>	Utility pliers 7"/178mm	1	<b>S5161</b>	Slotted screwdriver	1	<b>P9</b>	Midget nutdriver	1
<b>54CGV</b>	Diagonal pliers 4"/101mm	1	<b>S5166</b>	Slotted screwdriver	1	<b>P10</b>	Midget nutdriver	1
<b>66NCG</b>	Diagonal pliers 6"/152mm	1	<b>SX101</b>	Phillips® screwdriver	1	<b>P11</b>	Midget nutdriver	1
			<b>XST100</b>	Phillips® screwdriver	1	<b>P12</b>	Midget nutdriver	1
			<b>XST101</b>	Phillips® screwdriver	1	<b>TA2</b>	Torque amplifier handle	1

## Model TCA150ST



- Carefully selected, intermediate assortment of Xcelite® hand tools and WP25 Weller® 25 watt soldering iron
- Contains 23 individual hand tools, 24 Series 99® interchangeable screwdriver/nutdriver blades and handles, XL70 offset ratchet screwdriver set, measuring tape and solder (as listed)
- High tech aluminum tool case with smooth finish, keyless combination lock and chrome-plated latch
- Tongue and groove lid with rubber gasket ensures a positive seal from dirt or water
- Case complete with removable pallet in lid plus additional panel in bottom
- Size: 17 5/8" x 12 5/8" x 5 3/4"/448mm x 321mm x 146mm

Catalog Number	UPC Number	Packed
<b>TCA150ST</b>	037103491367	Tool case with tools

Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991, 994R</b>	Handles (regular and ratchet Tee)	1	<b>S3161</b>	Slotted screwdriver	1
<b>99X5</b>	Extension	1	<b>SX101</b>	Phillips® screwdriver	1
<b>9920-26, 99764, 99964</b>	Allen® hex-socket type blades (9)	1	<b>XL75V</b>	5-piece set in see-thru plastic pouch	1
<b>996 - 12</b>	Hex nutdriver blades (7)	1	<b>600</b>	Combination Dual Nutdriver Handle	1
<b>99250 &amp; 99811</b>	Screwdriver blades	1	<b>W9210ME</b>	10-foot tape	1
<b>99821 &amp; 99822</b>	Phillips® screw blades	1	<b>HS14</b>	Hollow shaft nutdriver	1
<b>9938</b>	Reamer	1	<b>HS16</b>	Hollow shaft nutdriver	1
<b>42HV</b>	Seizer	1	<b>8M</b>	Magnetic nutdriver	1
<b>46CGV</b>	Adjustable wrench	1	<b>10M</b>	Magnetic driver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>WP25</b>	Weller® 25 watt soldering iron	1
<b>53CG/R27CV</b>	7"/178mm Utility pliers	1			
<b>51NCG</b>	Long nose pliers 6"/152mm	1			
<b>54CGV</b>	4"/102mm Diagonal	1			
<b>55NCGV</b>	5"/127mm Diagonal	1			
<b>57CGV</b>	5 1/2"/102mm Diagonal	1			
<b>59NCG</b>	8"/203mm Chain nose pliers	1			
<b>86NCG</b>	Electronic snips	1			
<b>101SNV</b>	Wire stripper	1			
<b>K22</b>	Electrician's knife	1			
<b>R181</b>	Slotted screwdriver	1			
<b>R3323</b>	Slotted screwdriver	1			
<b>R184</b>	Slotted screwdriver	1			
<b>R3164</b>	Slotted screwdriver	1			
<b>S5166</b>	Slotted screwdriver	1			



## Model TCMB150ST and TCMB150MT



- Carefully selected intermediate assortment of Xcelite® hand tools
- Contains 23 individual hand tools, popular WP25 Weller® 25 watt soldering iron, 24 Series 99® interchangeable screwdriver/nutdriver blades and handles, XL75 offset ratchet screwdriver set, measuring tape and solder (as listed)
- Super tough, black polyethylene with rich looking black anodized aluminum hardware
- Size: 17 3/4" x 12 5/8" x 4 3/4"/451mm x 321mm x 121mm

Catalog Number	UPC Number	Packed
<b>TCMB150ST</b>	037103491213	Tool case with tools
<b>TCMB150MT</b>	037103491220	Tool case only - NO TOOLS

Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991, 994R</b>	Handles (regular and ratchet Tee)	1	<b>S3161</b>	Slotted screwdriver	1
<b>99X5</b>	Extension	1	<b>SX101</b>	Phillips® screwdriver	1
<b>9920 - 26, 99764, 99964</b>	Allen® hex-socket type blades (9)	1	<b>XL75V</b>	5-piece set in see-thru plastic pouch	1
<b>996 - 12</b>	Hex nutdriver blades (7)	1	<b>600</b>	Combination Dual Nutdriver Handle	1
<b>99250 &amp; 99811</b>	Screwdriver blades	1	<b>W9210ME</b>	10-foot tape	1
<b>99821 &amp; 99822</b>	Phillips® screw blades	1	<b>HS14</b>	Hollow shaft nutdriver	1
<b>9938</b>	Reamer	1	<b>HS16</b>	Hollow shaft nutdriver	1
<b>42HV</b>	Seizer	1	<b>8M</b>	Magnetic nutdriver	1
<b>46CGV</b>	Adjustable wrench	1	<b>10M</b>	Magnetic nutdriver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>WP25</b>	Weller® 25 watt soldering iron	1
<b>53CG/R27CV</b>	7"/178mm Utility pliers	1			
<b>51NCG</b>	Long nose pliers 6"/152mm	1			
<b>54CGV</b>	4"/102mm Diagonal	1			
<b>55NCG</b>	5"/127mm Diagonal	1			
<b>57CGV</b>	5 1/2"/102mm Diagonal	1			
<b>59NCG</b>	8"/203mm Chain nose pliers	1			
<b>86NCG</b>	Electronic snips	1			
<b>101SNV</b>	Wire stripper	1			
<b>K22</b>	Electrician's knife	1			
<b>R181</b>	Slotted screwdriver	1			
<b>R3323</b>	Slotted screwdriver	1			
<b>R184</b>	Slotted screwdriver	1			
<b>R3164</b>	Slotted screwdriver	1			
<b>S5166</b>	Slotted screwdriver	1			

## Model TCS150ST and TCS150MT



- Carefully selected, intermediate assortment of Xcelite® hand tools
- Contains 23 individual hand tools, popular WP25 Weller® 25 watt soldering iron, 24 Series 99° interchangeable screwdriver / nutdriver blades and handles, XL75 offset ratchet screwdriver set, measuring tape and solder (as listed)
- Case made from rugged Cordura® with heavy-duty zipper and soft leather wrapped handles
- Contains (on outside) 1 pocket on 1 side and 2 smaller pockets on opposite
- Cordura® is a registered trademark of DUPONT
- Size: 17" x 12" X 3"/432mm x 305mm x 76mm

Catalog Number	UPC Number	Packed
<b>TCS150ST</b>	037103491275	Tool case with tools
<b>TCS150MT</b>	037103491282	Tool case only-NO TOOLS

Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991, 994R</b>	Handles (regular and ratchet Tee)	1	<b>S3161</b>	Slotted screwdriver	1
<b>99X5</b>	Extension	1	<b>SX101</b>	Phillips® screwdriver	1
<b>9920 - 26, 99764, 99964</b>	Allen® hex-socket type blades (9)	1	<b>XL75V</b>	5-piece set in see-thru plastic pouch	1
<b>996 - 12</b>	Hex nutdriver blades (7)	1	<b>600</b>	Combination Dual Nutdriver Handle	1
<b>99250 &amp; 99811</b>	Screwdriver blades	1	<b>W9210ME</b>	10-foot tape	1
<b>99821 &amp; 99822</b>	Phillips® screw blades	1	<b>HS14</b>	Hollow shaft nutdriver	1
<b>9938</b>	Reamer	1	<b>HS16</b>	Hollow shaft nutdriver	1
<b>42HV</b>	Seizer	1	<b>8M</b>	Magnetic nutdriver	1
<b>46CGV</b>	Adjustable wrench	1	<b>10M</b>	Magnetic nutdriver	1
<b>50CGV</b>	Midget slip joint pliers 5"/127mm	1	<b>WP25</b>	Weller® 25 watt soldering iron	1
<b>53CG/R27CV</b>	7"/178mm Utility pliers	1			
<b>51NCG</b>	Long nose pliers 6"/152mm	1			
<b>54CGV</b>	4"/102mm Diagonal	1			
<b>55NCG</b>	5"/127mm Diagonal	1			
<b>57CGV</b>	5 1/2"/102mm Diagonal	1			
<b>59NCG</b>	8"/203mm Chain nose pliers	1			
<b>86NCG</b>	Electronic snips	1			
<b>101SNV</b>	Wire stripper	1			
<b>K22</b>	Electrician's knife	1			
<b>R181</b>	Slotted screwdriver	1			
<b>R3323</b>	Slotted screwdriver	1			
<b>R184</b>	Slotted screwdriver	1			
<b>R3164</b>	Slotted screwdriver	1			
<b>S5166</b>	Slotted screwdriver	1			

## Model TCS200ST



- Fine blending of quality, economy and flexibility
- Contains 10 individual hand tools and 27 Series 99®
- interchangeable screwdriver/nutdriver blades and handles (as listed)
- Case made from rugged Cordura® and features a heavy-duty zipper and soft leather wrapped handles. Contains (on outside) 1 pocket on one side and 2 smaller pockets on opposite
- Size: 13 1/2" x 10 1/2" x 2 3/8"/343mm x 267mm x 60mm
- Cordura® is a registered trademark of DUPONT

Catalog Number	UPC Number	Packed
<b>TCS200ST</b>	<b>037103490421</b>	<b>Tool case with tools</b>

Catalog Number	Description	Qty	Catalog Number	Description	Qty
<b>991</b>	Straight handle	1	<b>53CG/R27CV</b>	Utility pliers 7"/178mm	1
<b>994</b>	Tee handle	1	<b>64CGV</b>	Diagonal cutter 4"/101mm	1
<b>9920 - 9926</b>	Hex socket screw blades(7)	1	<b>55NCG</b>	Diagonal pliers 5"/127mm	1
<b>99764</b>	Hex socket screw blade	1	<b>57CGV</b>	Needle nose pliers 5 1/2"/139mm	1
<b>99964</b>	Hex socket screw blade	1	<b>86NCG</b>	Electronic snips	1
<b>9938</b>	Reamer	1	<b>101SNV</b>	Wire stripper-cutter	1
<b>99X5</b>	Extension	1	<b>K22</b>	Electrician's knife	1
<b>99820</b>	Phillips® screw blade	1			
<b>99821</b>	Phillips® screw blade	1			
<b>99822</b>	Phillips® screw blade	1			
<b>99125</b>	Slotted screw blade	1			
<b>99811</b>	Slotted screw blade	1			
<b>99250</b>	Slotted screw blade	1			
<b>99312</b>	Slotted screw blade	1			
<b>996</b>	Hex nutdriver blade	1			
<b>998</b>	Hex nutdriver blade	1			
<b>9910</b>	Hex nutdriver blade	1			
<b>9911</b>	Hex nutdriver blade	1			
<b>9912</b>	Hex nutdriver blade	1			
<b>9914</b>	Hex nutdriver blade	1			
<b>9916</b>	Hex nutdriver blade	1			
<b>43HV</b>	Curved nose seizer 6"/152mm	1			
<b>46CGV</b>	Adjustable wrench 6"/152mm	1			
<b>51NCG</b>	Long nose pliers 6 1/2"/165mm	1			

## Tools for Cable Terminals and Connectors

### Xcelite® ErgoCrimp Plus® Mechanical Crimping Tools

ErgoCrimp Plus® are the world's most advanced crimping tools to date with a patented design and they deliver up to 50% better mechanical gain than any other kind. Increased mechanical gain gives you significantly lower handle force, which could result in an increase in productivity.

These crimping tools have been designed to achieve maximum comfort, reliability, and durability with main features of:

#### One-Handed Crimping

- The handle force needed for the crimping operation in most tools exceeds 60-70lbs. (27-32Kg)
- The average man and virtually all women cannot make a comfortable one-handed crimp
- Xcelite® crimping tools are designed with such a low handle force requirement that the crimp operation can be performed with only one hand

#### Crimping Pressure

- The configurations of the crimping nests and indentors are designed to increase the tensile strength of the crimp
- The jaw pressure applies is scientifically calculated for optimum connections

#### Reliability

- All components are made of high-quality Swedish steel and have been life tested for 50,000 cycles
- Precision manufacturing guarantees a uniform product of high accuracy
- After long wear, it is always possible to check the crimp dimensions with go/no-go gauges, and to adjust for eventual discrepancies by turning the patented excenter adjustment plate

#### Size

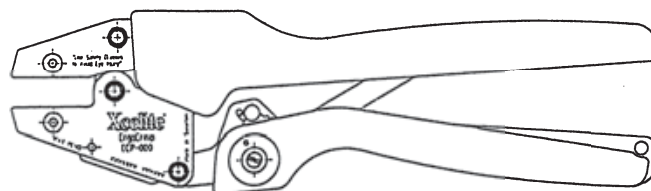
- Size has been minimized to allow single-handed operation and to ensure the tool fits easily into repair kits

#### Safety

- A ratchet device has been built in to guarantee that the user makes the exact same complete crimp every time
- Should the user start a faulty crimp, a safety release mechanism is built into the ratchet, allowing the user, with one finger, to open the tool before the cycle is complete

#### Economy

- Because of their considerable advantages in quality, speed, and efficiency, the payoff time for an investment in Xcelite® tools is extremely short



ErgoCrimp Plus® (ECP-000 Frame)  
 Length: 10.0"  
 Weight: 1.2lbs.

### ErgoCrimp Plus® Insulated Terminals and Splices



- ECP000 large ergonomic frame for large hands
- D100 die set for 22-10 AWG red, blue and yellow insulated terminals and splices
- Mechanical gain estimated 50%
- Guaranteed for at least 50,000 cycles
- Variety of die sets available



Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>ECP100</b>	037103059307	Boxed	ECP000 frame and D100 die set	1.2	0.54	1
<b>D100</b>	037103059345	Boxed	Die set for ECP100	-	-	1

## ErgoCrimp Plus® Non-Insulated Terminal Splices



- Die set designed for 22-10 AWG non-insulated terminal splices
- Patented ergonomic design makes this tool easy and comfortable to use
- Lowest possible handle forces required
- High-quality construction with tight tolerances
- Superior crimp die design insures the highest quality crimp results
- High strength through-hardened alloy steel and precision manufacturing
- Guaranteed for 50,000 cycles
- Precise eccentric adjustment for consistent performance for life of tool
- Tools can be purchased complete with die set or separately
- Special dies are also available upon request

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>ECP101</b>	037103197146	Boxed	ECP000 frame and D101 die set	1.4	0.64	1
<b>D101</b>	037103059352	Boxed	Die set F/E ECP101	-	-	1

## Frame only - ErgoCrimp Plus® Crimping Tool



- Large ergonomic frame for large hands
- Length 10"
- Width 2.83"
- Used with D100 through D109 die sets

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>ECP000</b>	037103059338	Boxed	ErgoCrimp Plus® crimping tool-large	1.00	0.45	1

## ErgoCrimp Plus® Crimping Tool for Open-Barrel



- Precision-machined hardened steel
- Precise eccentric adjustment for consistent performance for life of tool
- Special dies are also available upon request

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>ECP112</b>	0371031979245	Boxed	Crimp tool, ergo, 22-10 AWG, open barrel terminals	1.2	.054	1

## ErgoCrimp® Die Set for Insulated Terminals and Splices



- For 22-10 AWG red, blue and yellow insulated terminals and splices
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools



Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>D100</b>	037103059345	Boxed	Die set	1	0.45	1

## ErgoCrimp® Die Set for Non-insulated Terminals and Splices



- For 22-10 AWG non-insulated terminals and splices
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools



Catalog Number	UPC Number	Packed	Description	Shelf pack
D101	037103059352	Boxed	Die set	1

## ErgoCrimp® Die Set for RG58, RG59/62 AU BNC/TNC Coaxial Connectors



- For RG 58, RG 59/62 AU BNC/TNC - .213", .255" and .068" hex cavities
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools



Catalog Number	UPC Number	Packed	Description	Shelf pack
D102	037103059369	Boxed	Die set	1

## ErgoCrimp® Die Set for RG59, Belden® 8281 and Belden® 1694A, RG6, 50 and 75 ohm Coaxial Connectors



- For RG 59, Belden® 8281, RG6, 50 and 75 ohm center contacts - .324", .255", .068" and .042" hex cavities
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools
- Belden® is a registered trademark of BELDEN, INC.



Catalog Number	UPC Number	Packed	Description	Shelf pack
D104	037103059383	Boxed	Die set	1

### ErgoCrimp® Die Set for RG174, RG179 BNC/TNC Coaxial Connectors



- For RG 174 BNC/TNC - .178", .128", and .068" hex cavities
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools



Catalog Number	UPC Number	Packed	Description	Shelf pack
D105	037103059390	Boxed	Die set	1

### ErgoCrimp® Die Set for RG8, RG11, RG213, RG216 Coaxial Connectors



- For RG 8, RG 11, RG 213 and RG 216 ethernet
- N-series, .429"/.213"/.100"/.067" hex cavities
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools



Catalog Number	UPC Number	Packed	Description	Shelf pack
D106	037103059444	Boxed	Die set	1

### ErgoCrimp® Die Set for RG6, Belden® 1694A, Twinax, CATV Coaxial Connectors



- For RG 6 CATV "F" connectors - .360"/.324"/.068" hex cavities
- Hex BNC HDTV and cable "F" connectors
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools

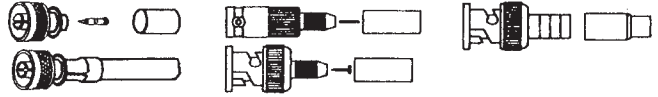


Catalog Number	UPC Number	Packed	Description	Shelf pack
D107	037103059413	Boxed	Die set	1

## ErgoCrimp® Die Set for SMA, SMB, SFR, ST, SC Fiber Optic Connectors



- For fiber optic connectors requiring .128"/.151"/.213"/.197"/.178" hex crimps
- Precision-machined hardened steel
- Fits ErgoCrimp® and ErgoCrimp Plus® tools



Catalog Number	UPC Number	Packed	Description	Shelf pack
<b>D109</b>	037103059437	Boxed	Die set	1



## Mini-Crimper/Maxi-Crimper Mechanical Crimping Tools

Xcelite® mechanical crimping tools have been designed to achieve maximum comfort, reliability, and durability.

Their main features are:

### One-handed Crimping

- The handle force needed for the crimping operation in most tools exceeds 60-70lbs. (27-32Kg)
- The average man and virtually all women cannot make a comfortable one-handed crimp
- Xcelite® crimping tools are designed with such a low handle force requirement that the crimp operation can be performed with only one hand

### Handle Spread

- Other crimping tools on the market have open handle spreads equal to or greater than 6" at the point where the user places his grip
- This is too great a spread for the average male and female hand
- The Xcelite® mini-crimper has a handle spread of about 3 1/2"/88mm
- It is the smallest spread available in a tool this powerful
- The maxi-crimper, with about 20% more power, still has a handle spread under 4 1/2"/144mm
- Both tools fit comfortably in the average male or female hand
- With just one hand needed to hold the crimping tool, the user is now free to easily locate cable and connector in the jaw of the tool

### Crimping Pressure

- The configurations of the crimping nests and indentors are designed to increase the tensile strength of the crimp
- The jaw pressure applies is scientifically calculated for optimum connections

### Reliability

- All components are made of high-quality Swedish steel and have been life tested for 50,000 cycles
- Precision manufacturing guarantees a uniform product of high accuracy
- After long wear, it is always possible to check the crimp dimensions with go/no-go gauges, and to adjust for eventual discrepancies by turning the patented excenter adjustment plate

### Size

- Size has been **minimized** to allow single-handed operation and to ensure the tool fits easily into repair kits

### Safety

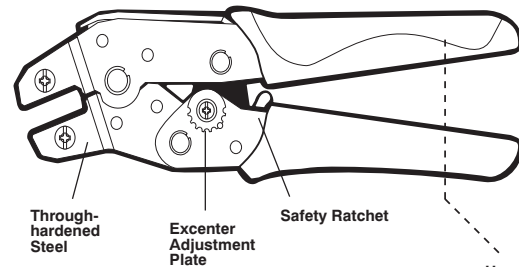
- A ratchet device has been built in to guarantee that the user makes the exact same complete crimp every time
- Should the user start a faulty crimp, a safety release mechanism is built into the ratchet, allowing the user, with one finger, to open the tool before the cycle is complete

### Economy

- Because of their considerable advantages in quality, speed, and efficiency, the payoff time for an investment in Xcelite® tools is extremely short.

### Mini-crimper (MIC)

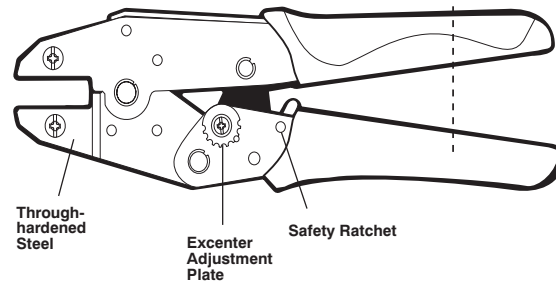
Length: 7.68"  
 Weight: 0.55lbs.  
 Open Handle Spread: 3.66"  
 Closed Handle Spread: 1.90"  
 Max. Crimp Force: 1,600lbs.



MIC has the smallest handle spread available

### Maxi-crimper (MAC)

Length: 8.86"  
 Weight: 1.10lbs.  
 Open Handle Spread: 4.50"  
 Closed Handle Spread: 2.10"  
 Max. Crimp Force: 2,200lbs.



MAC is built bigger for greater termination power

## Maxi-Crimper for Insulated Terminals and Splices



- Maxi-Crimper built bigger for greater terminating power
- Crimps 22-10 AWG (.75-6.0mm<sup>2</sup>) 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



Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>MAC2210</b>	037103489180	Boxed	Maxi-crimper tool	1.1	0.5	1
<b>D2210</b>	037103490186	Boxed	Die set for MAC2210	-	-	1

## Mini-Crimper for Open Barrel D-subminiature Contacts



- Mini-Crimper smallest professional crimp tool of its kind
- Universal tool designed to crimp a wide range of open-barrel and D-subminiature contacts 30-20 AWG
- Versatile tool for pins, sockets, disconnects and other open-barrel contacts from AMP, MOLEX, ITT Cannon and others
- Incorporates ratchet to ensure a full-cycle complete crimp every time



Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>MIC3020BL</b>	037103490391	Boxed	Mini-crimper tool	0.55	0.25	1
<b>MICPZD3</b>	037103197269	Boxed	Crimp tool. insulated/non-insulated, wire ferrule, 22-10 AWG	0.55	0.25	1

## Combination, Self-adjusting Wire Stripper



- Tool capable of stripping wires from 32-10 AWG without adjustment
- Widest stripping capacity of any tool of its type
- Easily interchangeable stripping cassettes enables precision stripping
- Strips a wide range of insulation types, PVC to PTFE with just one tool. Tested to over 150,000 cycles
- The ergonomic design is lightweight, strong, and comfortable
- The tool issuitable for production of field service work
- Fine insulation can be stripped without damage to the conductor
- Low friction moving handle optimized grip span, and angled head

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>SAS3210</b>	037103197306	Boxed	Self-adjusting wire stripper	1	0.54	1

## Interchangeable Replacement Blade for SAS3210 Combination Wire Stripper



- Interchangeable replacement blade for SAS3210 combination wire stripper
- Capable of stripping wires from 32-10 AWG without adjustment

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>SAS3210RB</b>	037103197276	Boxed	Interchangeable replacement blade	1	0.54	1

## Interchangeable Replacement Blade for SAS3210 Combination Wire Stripper



- Interchangeable replacement blade for SAS3210 combination wire stripper
- Capable of stripping Teflon® insulation from 28-12 AWG

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>SAS3210TRB</b>	037103197283	Boxed	Interchangeable replacement blade/Teflon	1	0.54	1

## Economical Coaxial Wire Stripper: Pre-adjusted for RG59 & RG6



- Tool specially designed to quickly and easily strip
- RG 59 and RG 6 cables for CATV "F" connectors
- Built-in stop (no adjustments needed)
- Replaceable blade cassette lasts 1,000-2,000 strips
- Convenient built-in belt clip
- Full operating instructions listed on back of blister card



Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>2CSKCATV</b>	037103045324	Carded	For RG59 and RG6	1/4	6	3

## Cable Jacket Stripper, 0.43" Maximum Diameter



- Precise: Fine adjustability and repeatability assured by 9 position blade cutting depth adjustment
- Easy to use: Simply squeeze together, insert cable, release and rotate once, remove from cable and pull off scrap insulation
- Safe: Smooth, rounded, pocketable, lightweight design. No exposed blades. Replacement blades are encased in a plastic cassette
- Flexible: Strips the jacket from most cables up to 0.43" (11 mm) in diameter
- Durable: Tested to over 50,000 cycles
- Economical: Replaceable blade (p/n CJS100B)

Catalog Number	UPC Number	Packed	Description	Pack weight (lb)	Pack weight (kg)	Shelf pack
<b>CJS100</b>	037103197061	Carded	Cable jacket stripper	1	6	3
<b>CJS100B</b>	037103197122	Boxed	Replacement blade	1	-	-
<b>CJS200</b>	037103197085	Carded	Cable jacket stripper	1	6	-
<b>CJS200B</b>	037103197072	Boxed	Replacement blades	1	6	-

## Round Cable Stripper, .178" - 1.57" Diameter



**CJS200**

- Unique to this type of tool, the CJS200 features two interchangeable cable retention guides giving it an incomparable stripping capacity of 0.18" to 1.57" (4.5-40 mm) in one tool. Both cable guides are included with each tool. The CJS200 can replace two or more similar products in the toolbox
- Easy to use: Positive locking positions for circular, lengthways, and spiral cuts
- No special tools required to interchange cable guides
- Safety strap can be attached to the eyelet at the base of the tool to prevent accidental dropping
- Ergonomic: The well-balanced design features rests for thumb, first, and little fingers to ease in raising of the cable retention guides
- Durable: Tested to over 100,000 cycles
- Economical: Replacement blade available (p/n CJS200B). Can be stored in the tool body

By rotating the body of the tool, the blade can be fixed in any of three positions to provide:



Circular cuts around the cable



Lengthways along the cable



Spiral cuts along the cable



End strip circular + spiral cut



End strip circular + lengthways



Mid-span strip - two circular + spiral cut

Catalog Number	UPC Number	Packed	Description	Shelf pack
<b>CJS200</b>	037103197085	Carded	Round cable stripper	3

## Replacement Blade for CJS200 Round Cable Stripper



**CJS200B**

- **CJS200B:** Replacement blade for CSJ200 round cable stripper

Catalog Number	UPC Number	Packed	Description	Shelf pack
<b>CJS200B</b>	037103197092	Boxed	Replacement blade for CSJ200 round cable stripper	1

## Cable Tie Gun



**DCT300V**

- Die cast steel construction for durability and long life
- Flush cut with each use for professional installation
- Tension adjustment for miniature, intermediate standard, heavy duty cable ties

Catalog Number	UPC Number	Packed	Description	Shelf pack
<b>DCT300V</b>	037103184887	Carded	Cable tie tightener/cutter	6

## Coaxial Wire Stripper: Full Kits and Pre-adjusted Models

Fastest accurate coax-stripping system

Coaxial cable from .10" to .30" (1.87-7.6mm) in thickness (RG 178 up to RG 6) stripped in seconds

Also removes dielectric, braid and outside insulation

Xcelite® system available with different color-coded cassettes designed to meet exact stripping specifications

Cassettes changed in seconds

Available in full kits for users of many different cable sizes

Special, pre-adjusted models or cassettes with special strip lengths made upon request



### Full Kits - Coaxial Wire Stripper



- 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
- 3-step models not recommended for cable with hollow dielectric (RG 62) or foam dielectric (use 2-step models instead)
- Cable O.D. range: .10"-.30" (2.5-7.6mm), RG 174 to Belden® 8281 or RG 6

Kit Catalog Number	UPC Number	Type	Packed	Cassette catalog number & color	Cassette UPC Number	Blade spacing B (in)	Blade spacing B (mm)	Blade spacing C (in)	Blade spacing C (mm)	Cover strip length specs (B) (in)	Cover strip length specs (B) (mm)	Cover strip length specs (C) (in)	Cover strip length specs (C) (mm)	Shelf pack
<b>2CSKR</b>	037103489456	2-step	Pouched	2CR red	037103489493	0.24	6.0	-	-	7/32-1/4	5.6-6.3	-	-	1
<b>2CSKB</b>	037103489470	2-step	Pouched	2CB blue	037103489616	0.27	6.8	-	-	1/4-9/32	6.3-7.1	-	-	1
<b>2CSKY</b>	037103489463	2-step	Pouched	2CY yellow	037103489609	0.47	12.0	-	-	7/16-1/2	11.1-12.7	-	-	1
<b>3CSKBR</b>	037103489432	3-step	Pouched	3CBR brown	037103489579	.328	8.3	.109	2.7	5/16-11/32	7.9-8.7	1/16-7/64	1.6-2.8	1
<b>3CSKGN</b>	037103489449	3-step	Pouched	3CGN green	037103489586	.235	6.0	.235	6.0	7/32-1/4	5.6-6.3	13/64-1/4	5.1-6.3	1
<b>3CSKWH</b>	037103489975	3-step	Pouched	3CWH white	037103489986	.266	6.7	.100	2.54	1/4-17/64	6.3-6.7	1/16-3/32	1.6-2.4	1

Note: 3-STEP models are not recommended for cable with hollow dielectrics (RG 62) or foam dielectrics. Use 2-STEP models instead.  
 Cable O.D. range: .10"-.30" (2.5-7.6mm) e.g. RG174 to Belden® 8281 or RG6.

## Cassettes



- 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

Kit Catalog Number & Color	UPC Number	Type	Packed	Cassette UPC Number	Blade spacing B (in)	Blade spacing B (mm)	Blade spacing C (in)	Blade spacing C (mm)	Cover strip length specs (B) (in)	Cover strip length specs (B) (mm)	Cover strip length specs (C) (in)	Cover strip length specs (C) (mm)	Shelf pack
<b>2CR red</b>	037103489493	2-step	Carded	0.24	6.0	-	-	7/32-1/4	5.6-6.3	-	-	1	1
<b>2CB blue</b>	037103489616	2-step	Carded	0.27	6.8	-	-	1/4-9/32	6.3-7.1	-	-	1	1
<b>3CBR brown</b>	037103489579	3-step	Carded	0.328	8.3	0.109	2.7	5/16-11/32	7.9-8.7	-	-	1	1
<b>3CGN green</b>	037103489586	3-step	Carded	0.235	6.0	0.235	6.0	7/32-1/4	5.6-6.3	-	-	1	1

## Coaxial Wire Stripper Operating Instructions

Note the parts of the stripper in Figure 1.

**Follow these steps when stripping with the Xcelite® Coaxial Cable Stripper.**

- Adjust slide to position 4 or 5.
- Open tool by rotating locking latch downward. (Fig. 2)
- Mark jacket of cable for center conductor length. (If you have a simple wire-cutter, ignore this instruction. You can cut center conductor to length after the strip.)
- Hold the tool with the handle towards you and insert coax from left into the groove position. Close and latch tool. (Figs. 3 and 4)
- Push slide forward to appropriate start position (see Fig. 7). Make sure proper V-block is installed.
- Rotate tool around coax about 5 times (Fig. 5). Push slide forward to next position in sequence. Rotate tool again. Then push slide forward to final position and rotate tool final 5 times.
- Move slide back one position. Then pull cable out carefully while squeezing tool (Fig. 6).



Figure 1

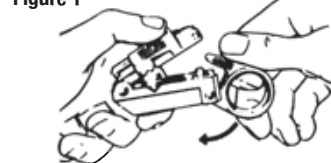


Figure 2

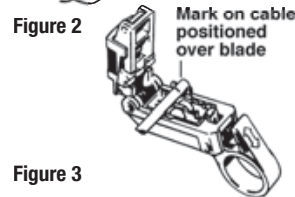


Figure 3

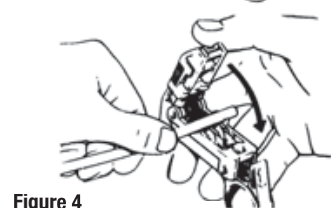


Figure 4



Figure 5

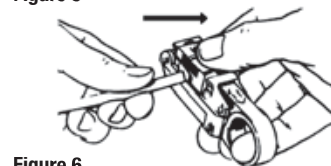


Figure 6

Recommended Settings:

Coax	V-block	Slide Progression
RG-58	Blue	3, 2, 1
RG59, 62	Blue	5, 4, 3
RG 174, 188, 316	White	4, 3
RG6	Yellow	5, 4, 3
Belden® 8281	Yellow	5, 4
RG 195, 180	Red	4, 3, 2

Figure 7

V-blocks:

Select proper V-block by O.D. of wire (see Fig. 8).

V-block	Cable	Cable	Color
Part No.	Dia. Range	RG #	
VMD	.20"-25" (5-6.4mm)	58, 59	Blue
VSUB	.10-12" (2.5-3mm)	174, 188, 316	White

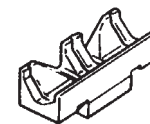


Figure 8

Cassettes:

Each cassette contains 4 sets of cutting edges. Cassettes can be reversed each time a blade set wears out. Numbers 1 to 4 are printed inside cassette to determine usage. (see Fig. 1)

To change or reverse cassette, move locking latch in direction of arrow, then push cassette out of tool by inserting wing wrench through hole in bottom of tool (Fig. 9).

Note: 3-bladed cassettes can only be in positions 1 and 2.

Positions 3 and 4 would give reversed strip dimensions!

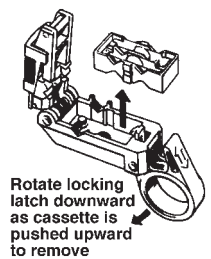


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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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