



**CUSTOM  
TOOLS**



**PPE**



**SAFETY INSULATED PRODUCTS**

**SYRACUSE, NEW YORK 13215**

**716-812-1141**



**TOOL  
KITS**



**TOOLS**

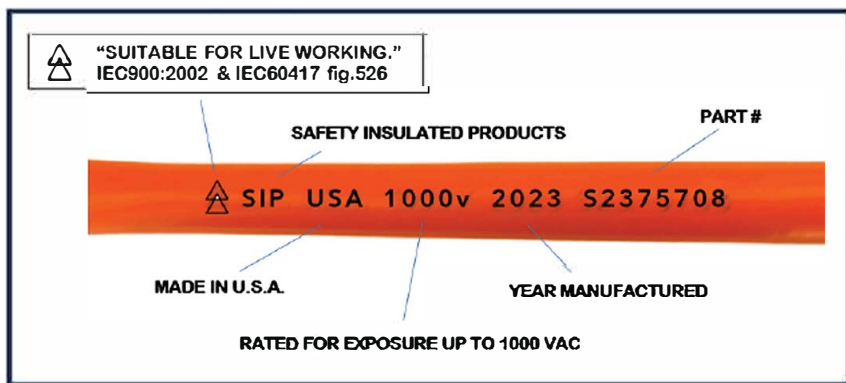
# C O N T E N T S

- **SAE1000v Insulated Tool Kits**
- **Metric 1000v Insulated Tool Kits**
- **Screwdrivers**
- **Nut Drivers and Sets and Screwdriver Sets**
- **Wrench Sets**
- **Wrenches**
- **Adjustable Wrenches**
- **Torque Wrenches and Screwdrivers**
- **Pliers**
- **1/4" Drive Sockets**
- **3/8" Drive Sockets**
- **1/2" Drive Sockets**
- **3/4" Drive Sockets**
- **Ratchet and Socket Accessories**
- **Ratchet and Socket Sets**
- **Specialized Tools**
- **Non Conductive Tools**
- **Inspection Mirrors**
- **Non Sparking Non Magnetic Sets and Tools**

All of our tools are rated for 1000V AC live line use, but tested up to 10,000V AC. These tools comply or exceed ASTM F1505 standards and they comply with IEC 900 Standards for Insulated Hand Tools. They meet OSHA 1910.333(c) (2) and NFPA 70E 2000 requirements. All of the hand tools are impact resistant and flame retardant. Our tools are two color insulated for added safety.

**INSULATED TOOL KITS**  
SHOCK PROTECTION

**INSULATED HAND TOOL MARKINGS**



**OFFERING OVER  
2,000 TOOLS!**

Contact SIP 1000v Tools for customized tool solutions. Our machine shop is able to modify tools to meet your needs and provide 1000v protection to almost any hand tool.



**TELECOMMUNICATION TOOL BOX**

CAT. NO.	DESCRIPTION
S101	16 Piece Kit Includes 3/8" Drive Ratchet Wrench 3/8" Drive Torque Wrench 10" Long 30-150 in/lb 3" Extension Regular Sockets 12pt: 3/8", 7/16", 1/2", 9/16" 3/8" Drive 5/8" Deep Socket 9" Lineman Pliers 6" Needle Nose Pliers 8" Slip Joint Pliers Slotted Screwdrivers: 3/16 x 4", 1/4 x 6", 5/16 x 6", 3/8 x 8" Phillips Screwdriver: #2 x 6" High Impact Plastic Toolbox



**S10TK23**

This set is designed to work in tight spaces

**TELECOMMUNICATION TOOL POWER CONNECTING KIT**

CAT. NO.	DESCRIPTION
S10TK23	24 Piece Kit Includes 3/8" Drive Close Quarters Socket Set with Ratchet Wrench 3" Extension Regular Sockets 12pt: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1" 6" Adjustable Wrench Nut Driver Set 3": 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2" High Impact Plastic Toolbox

## INSULATED TOOL KITS

TK9



TK30



S10TK40



S10TK25



### INSIDE MAINTENANCE BOX

CAT. NO.	DESCRIPTION
S10TK40	<p>40 Piece Kit Includes:</p> <p>Narrow Tip Screwdrivers 3/16 x 6", 1/4 x 6"</p> <p>Slotted Tip Screwdriver 3/8 x 6"</p> <p>Phillips Screwdrivers #1 x 3", #2 x 6"</p> <p>Nut Drivers 3/16 x 3", 1/4 x 3", 5/16 x 3", 11/32 x 3", 3/8 x 3", 7/16 x 3", 1/2 x 3", 9/16 x 3"</p> <p>3/8" Drive Torque wrench 30 - 150 in/lb</p> <p>3/8" Drive Reversible Ratchet Wrench</p> <p>3/8" Drive 3", 6" and 12" Extensions</p> <p>3/8" Drive Deep SAE 8 Piece Socket Set. 3/8" to 13/16" 12 pt socket set</p> <p>8 Piece Box End Wrench Set 3/8" to 13/16"</p> <p>6" Type "T" Hex wrenches, Long Arm 3/16", 1/4", 5/16", 3/8"</p> <p>10" Water Pump Pliers</p> <p>High Impact Plastic Toolbox</p>

### DELUXE MAINTENANCE TOOL KIT

CAT. NO.	DESCRIPTION
TK30	<p>29 Piece Kit Includes:</p> <p>Slotted Screwdrivers: 1/8 x 2", 3/16 x 6", 1/4 x 4"</p> <p>Phillips screwdriver: #1 x 3", #2 x 6"</p> <p>3/8" Torque Wrench 10 Long 30-150 in/lb</p> <p>3/8" Drive Reversible Ratchet Wrench</p> <p>3" and 6" Extensions, 3/8" drive, 4nm -23nm</p> <p>8 Piece Socket Set 3/8" Drive Deep Sockets 3/8" to 13/16"</p> <p>8 Piece Box End Wrench Set: 3/8" to 13/16"</p> <p>7-1/2" Diagonal Cutting Pliers</p> <p>8" Needle Nose Pliers</p> <p>9" Lineman Pliers</p> <p>Mini Flashlight</p> <p>High Impact Plastic Toolbox</p>

### BASIC ELECTRICIAN TOOL ROLL

CAT. NO.	DESCRIPTION
TK9	<p>9 Piece Kit Includes</p> <p>Slotted Screwdrivers 3/16 x 4", 3/16 x 6", 1/4 x 6"</p> <p>Phillips Screwdrivers: #1 x 3", #2 x 4"</p> <p>8" Needle Nose Pliers</p> <p>7-1/2" Diagonal Cutting Pliers</p> <p>9" Lineman Pliers</p> <p>Combination Stripper / Cimper Pliers</p> <p>In a Tool Roll</p>

### OUTSIDE MAINTENANCE BOX

CAT. NO.	DESCRIPTION
S10TK25	<p>24 Piece Kit Includes</p> <p>1/4 X 6" Narrow Tip Screwdriver</p> <p>#2 x 8" Phillips Screwdriver</p> <p>Nut Drivers: 3/8 x 3", 7/16 x 3", 1/2 x 3", 9/16 x 3"</p> <p>Torque wrench 30 - 150 in/lb</p> <p>Reversible ratchet 3/8" drive</p> <p>3", 6" and 12" Extensions, 3/8" drive</p> <p>8 Piece Socket Set Includes: 3/8" To 13/16" Deep 12 pt.</p> <p>6" Type "T" Hex Wrenches, Long Arm 3/16", 1/4", 5/16", 3/8"</p> <p>10" Water Pump Pliers</p> <p>High Impact Plastic Toolbox</p>

## INSULATED TOOL KITS

TK60



### HOT BOX TOOL KIT WITHOUT TORQUE WRENCH

CAT. NO.	DESCRIPTION
TK60E	59 Piece Kit Includes: Slotted Screwdrivers: 1/8 x 2", 3/16 x 4", 3/16 x 6", 1/4 x 6", 5/16 x 6" Phillips Screwdrivers #2 x 4", #2 x 8" Nut Drivers 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2" 3/8" Drive Reversible ratchet Wrench 3/8" Drive 3" and 6" Extensions 3/8" Drive 10 Piece Socket Set: 5/16" to 7/8" 11 Piece Box Wrench Set 3/8" to 1" 14 Piece Type "I" Hex Wrench Set 1/16" to 1/2", 6" 7-1/2" Diagonal Cutting Pliers 8" Needle Nose Pliers 9" Lineman Pliers 9 1/2" Cable Cutting Pliers 10" Water Pump Pliers Combination stripper / crimper Pliers In a Plastic Box, Including Tool Rolls

### HOT BOX TOOL KIT

CAT. NO.	DESCRIPTION
TK60	60 Piece Tool Kit Includes: Slotted Screwdrivers: 1/8 x 2", 3/16 x 4", 3/16 x 6", 1/4 x 6", 5/16 x 6" Phillips Screwdrivers #2 x 4", #2 x 8" Nut Drivers 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2" 3/8" Drive Torque Wrench 30-150 in/lb; 3/8" Drive Reversible Ratchet Wrench 3/8" Drive 3" and 6" Extensions 3/8" Drive 10 Piece Socket Set 5/16" to 7/8" 11 Piece Box End Wrench Set: 3/8" to 1" 14 Piece Type "I" Hex Wrenches 1/16" to 1/2", 6" Long arm, 17 1/2" Diagonal Cutting Pliers 8" Needle Nose Pliers 9" Lineman Pliers 9 1/2" Cable Cutting Pliers 10" Water Pump Pliers Combination stripper/crimper Pliers In a Plastic Box, Including Tool Rolls



S10TK12



TK30ETK

### ELECTRICIAN'S TOOL KIT

CAT. NO.	DESCRIPTION
TK30ETK	30 Piece Tool Kit Includes 9" Lineman Pliers 8" HD Slip Joint Pliers with Cutting Shear Crimping Tool 10" Tongue and Groove Pliers (Water Pump) Slotted Screwdrivers: 3/16" x 4", 1/4" x 4", 1/4" x 6", 5/16" x 6", 3/8" x 8", 3/16" x 6" Phillips Screwdrivers: #1 x 3", #2 x 4" Nut Drivers: 1/4" x 3", 5/16" x 3", 3/8" x 3", 7/16" x 3", 1/2" x 3", 3/16" x 3", 11/32" x 3" 8" Long Needle Nose Pliers with Side Cutter 7" Box Joint Cutting Pliers 9-1/2" Pliers Cutting Pliers 12" Tong and Groove (Water Pump) 6" Flat Nose Pliers Hex Wrench Type "I" Long arm 3/16" 6", 1/4" 6", 5/16" 6", 3/8" 6", 7/16" 6", 1/2" 6" In a High Impact Plastic Toolbox

### HVAC TOOL KIT

CAT. NO.	DESCRIPTION
S10TK12	23 Piece HVAC Tool Kit Includes: Slotted Screwdrivers 3/16 x 4", 3/16 x 6", 1/4 x 4", 1/4 x 6", 5/16 x 6", 3/8 x 8" Phillips Screwdrivers: #1 x 3", #2 x 4" Nut Drivers 3/16 x 3", 1/4 x 3", 5/16 x 3", 11/32 x 3", 3/8 x 3", 7/16 x 3", 1/2 x 3" Hex Wrenches Type "I" Long Arm 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" 8" Long Needle Nose Pliers w/ side cutter 12" Rectangular Inspection Mirror In a Plastic Box, Including Tool Rolls

## INSULATED TOOL KITS



TK12HB  
Electrical Kit for  
Hybrid Vehicles

TK24SS  
SUBSTATION KIT



TK16MT  
METER KIT



TK15LM  
LINESMAN SECONDARY DISTRIBUTION TOOL  
KIT



### SIP 1000v INSULATED TOOL KITS FOR HYBRID VEHICLES

Do you have the necessary tools to guard against the dangers of electrocution from hybrid or electric vehicles? Mechanics and firefighters should be cautious when working on these vehicles because hybrid vehicles use a combination of a gasoline motor and a high voltage electric motor. The electric motor operates on voltages as high as 500 volts. That's more than eight times the lethal voltage! Don't be caught worrying about the "what ifs" while working on these vehicles.

UTILITY INSULATED TOOL KITS SIP 1000v Tools makes working in the field even easier with these three utility tool kits.

SIP 1000v Tools three specially designed utility insulated hand tool kits. These convenient tool kits include everything you need for routine utility applications. Salisbury is proud to offer a 24 piece substation tool kit, a 16 piece meter tool kit and a 15 piece Lineman's Secondary Distribution Tool Kit. Each kit includes easy storage tool rolls and lightweight tool box.

CAT. NO.	DESCRIPTION
TK12HB	Hybrid Tool Kit; Includes: 10" crimping tool, 9" side cutter, 8" slip joint cutter, 6" chain nose Pliers, 6" diagonal Pliers, 10" water pump Pliers, screwdrivers: #1 x 4, #2 x 4, 3/16" x 4, 1/4" x 4, 1/4" x 6, 5/16" x 6 and tool box
TK24SS	Substation Kit; Includes: (5) 3/8" - 3/4" box wrenches, (5) 3/8" 3/4" ratcheting box wrenches, (5) 3/8" 3/4" std. Sockets, 3/8" ratchet with 3" & 6" extension, #1 x 3", #2 x 6", #3 x 6" phillips screwdrivers, skinning knife, (2) tool rolls and sturdy tool box
TK16MT	Meter Kit; Includes: 9" lineman's Pliers, 7" diagonal cutters, 8" long nose Pliers, 5/16", 3/8", 1/2" nut drivers, #1 x 3", #2 x 4", #3 x 6" phillips screwdrivers, 1/8" x 2", 1/4" x 6", 3/16" x 4", 3/16" x 6" slotted screwdrivers, fuse pulser, (2) tool rolls and sturdy tool box
TK15LM	Lineman's Secondary Distribution Tool Kit; Includes: (9) 7/16" 15/16" ratcheting box wrenches, skinning knife, 3/8" x 12" slotted screwdriver, 30" bolt cutter, 12" "v" groove Pliers, 9" spring loaded lineman's Pliers, 10" adj. Wrench, (2) tool rolls and sturdy tool box
TK13TC	Service Tool Kit for Unigy™ I & II Battery System; Includes: 1/4" Dr. 30-150 in./lbs., 7/16" ratcheting box wrench (2), 5/16" x 1/4" & 7/16" x 1/4" Dr. unbooted sockets, 6" x 1/4" Dr. extension, 3/8" x 1/4" & 7/16" x 1/4" Dr. socket, valve shroud removal tool, 1/4" Dr. 1-36 in./lbs. torque screwdriver, 17 mm x 1/4" Dr. allen socket, 17 mm sa allen wrench stub, 1/4" Dr. ratchet 4.5", 7/16" ratchet box torque wrench preset 125 in./lbs., 10 pocket nylon tool roll, 17 mm x 1/4" Dr. allen socket



TK13TC SERVICE TOOL KIT  
for Unigy™ I & II Battery  
System

## METRIC INSULATED TOOL KITS



### METRIC HVAC TOOL KIT

#### CAT. NO. DESCRIPTION

S10TK12M	23 Piece HVAC Tool Kit Includes: Slotted Screwdrivers: 3/16 x 4", 3/16 x 6", 1/4 x 4", 1/4 x 6", 5/16 x 6", 3/8 x 8" Phillips Screwdrivers: #1 x 3", #2 x 4" Nut Drivers: 3" Long: 5mm, 6mm, 7mm, 8mm, 10mm, 12mm Type "I" Hex Wrenches, Long Arm: 5mm, 6mm, 7mm, 8mm, 10mm, 12mm 8" Long Needle Nose Pliers w/side cutter 12" Rectangular Inspection Mirror In a Plastic Box, Including Tool Rolls
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### METRIC OUTSIDE MAINTENANCE BOX

#### CAT. NO. DESCRIPTION

S10TK25M	24 Piece Set Includes 1/4 x 6" Narrow Tip Screwdriver #2 X 8" Phillips Screwdriver Nut Drivers: 9mm x 3", 10mm x 3", 11mm x 3", 12mm x 3" 3/8" Drive Torque wrench 30 - 150 in/lb 3mm-23mm 3/8" Drive Reversible Ratchet Wrench 3", 6" and 12" Extensions 3/8" drive 8 Piece Socket Set: 10mm-21mm Deep 12 pt. Hex Wrench Set Type "I" Hex Wrenches, Long Arm: 5mm, 6mm, 8mm, 10mm 10" Water pump Pliers <u>In a high impact plastic tool box</u>
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### METRIC DELUXE MAINTENANCE TOOL KIT

#### CAT. NO. DESCRIPTION

TK30M	30 Piece Set Includes Slotted Screwdrivers: 1/8 x 2", 3/16 x 6", 1/4 x 4" Phillips Screwdrivers: #1 x 3", #2 x 6" 3/8" Torque Wrench 10" Long 30-150 In/lb 3/8" Drive Reversible Ratchet Wrench 3/8" Drive 3" and 6" Extensions, 4mm -23mm 8 Piece Socket Set: 12 pt. Sockets 10mm, 11mm, 12mm, 14mm, 16mm, 18mm, 19mm, 21mm 8 Piece Box End Wrench Set: 10mm, 11mm, 12mm, 14mm, 16mm, 18mm, 19mm, 21mm 7" Diagonal Cutting Pliers 8" Needle Nose Pliers 9" Lineman Pliers Mini Flashlight In a high impact plastic tool box
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### METRIC HOT BOX TOOL KIT

#### CAT. NO. DESCRIPTION

TK60M	60 Piece Tool Kit Includes: Slotted Screwdrivers: 1/8 x 2", 3/16 x 4", 3/16 x 6", 1/4 x 6", 5/16 x 6" Phillips Screwdrivers #2 x 4", #2 x 8" 3" Long Nut Drivers 3/8" Drive Torque Wrench 30 - 150 in/lb 4mm-23mm 3/8" Drive Reversible Ratchet Wrench 3/8" Drive 3" and 6" Extensions 3/8" Drive 10 Piece Socket Set: 8mm 22mm 11 Piece Box End Wrenches: 10mm-27mm 14 Piece Hex Wrench Set: 1.5mm-12mm 7-1/2" Diagonal Cutting Pliers 8" Needle Nose Pliers 9" Lineman Pliers 9-1/2" Cable Cutting Pliers 10" Water Pump Pliers Combination Stripper/Crimper Pliers In a Plastic Box, Including Tool Rolls
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### METRIC HOT BOX TOOL KIT WITHOUT TORQUE WRENCH

#### CAT. NO. DESCRIPTION

TK60EM	59 Piece Set Includes Slotted Screwdrivers: 1/8 x 2", 3/16 x 4", 3/16 x 6", 1/4 x 6", 5/16 x 6" Phillips Screwdriver: #2 x 4", #2 x 8" 3" Long Nut Drivers: 5mm, 6mm, 7mm, 8mm, 9mm, 11mm, 12mm 3/8" Drive Reversible Ratchet Wrench 3/8" Drive 3" and 6" Extensions 10 Piece Socket Set 8mm-22mm 11 Piece Box End Wrench Set: 10mm - 27mm 14 Piece Hex Wrench Set: 1.5mm-12mm 7-1/2" Diagonal Cutting Pliers 8" Needle Nose Pliers 9" Lineman Pliers 9-1/2" Cable Cutting Pliers 10" Water Pump Pliers Combination stripper / crimper Pliers In a Plastic Box, Including Tool Rolls
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## METRIC INSULATED TOOL KITS



TK30ETKM

S10TK23M

THIS SET IS DESIGNED FOR  
USE IN TIGHT WORK SPACES.



S10TK40M

S101M

### METRIC TELECOMMUNICATION TOOL POWER CONNECTING KIT

CAT. NO.	DESCRIPTION
S10TK23M	23 Piece Kit Includes: Metric close quarters socket set 3/8" drive w/ ratchet 3" & 6" Extensions Regular sockets 12pt: 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm 6" Adjustable Wrench Nut Driver set 3": 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm In a high impact plastic tool box

### METRIC INSIDE MAINTENANCE BOX

CAT. NO.	DESCRIPTION
S10TK40M	39 pcs. Includes: Narrow tip screwdrivers: 3/16 x 6", 1/4 x 6" Slotted tip screwdriver: 3/8 x 6" Phillips screwdrivers: #1 x 3", #2 x 6" Nut drivers: 3" long: 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm Torque wrench 30 - 150 in/lb 3mm-23mm 3/8" Drive reversible ratchet 3", 6" and 12" Extensions, 3/8" drive 8 pcs. 10mm-21mm Deep 12 pt. Sckt set 8 pcs. 10mm-21mm Box end wrench set Type "I" hex wrenches, long arm: 5mm, 6mm, 8mm, 10mm 10" Water pump Pliers In a high impact plastic tool box

### METRIC ELECTRICIAN'S TOOL KIT

CAT. NO.	DESCRIPTION
TK30ETKM	30 pcs. Includes: 9" Lineman Pliers 8" hd slip joint Pliers with cutting shear Crimping tool 10" Tongue and groove Pliers (waterpump) Slotted screwdrivers: 3/16" x 4", 1/4" x 4", 1/4" x 6", 5/16" x 6", 3/8" x 8", 3/16" x 6"; Phillips screwdrivers: #1 x 3", #2 x 4" Nut drivers: 5mm x 3", 6mm x 3", 7mm x 3", 8mm x 3", 9mm x 3", 11mm x 3", 12mm x 3"; 8" Long needle nose Pliers with side cutter 7" Box joint cutting Pliers 9-1/2" Pliers cutting Pliers 12" Tong and groove (waterpump) 6" Flat nose Pliers Long arm, type "T" hex wrenches: 4mm x 6", 5mm x 6", 6mm x 6", 8mm x 6", 10mm x 6", 12mm x 6" In a high impact plastic tool box

### METRIC TELECOMMUNICATION TOOL BOX

CAT. NO.	DESCRIPTION
S101M	16 pcs. Includes: 3/8" Dr ratchet 3/8" Drive torque ratchet 10" long 30-150 in/lb 3mm-23mm 3" Extension Regular sockets 12pt: 10mm, 11mm, 12mm, 14mm, 16mm 16mm Deep socket 3/8" drive 9" Lineman Pliers 6" Needle nose Pliers 8" Slip joint Pliers Slotted screwdrivers: 3/16 x 4", 1/4 x 6", 5/16 x 6", 3/8 x 8" #2 x 6" Phillips screwdriver In a high impact plastic tool box

## SCREWDRIVERS

All SIP insulated screwdrivers are two color insulated for added safety. High alloy steel blade for maximum strength and ergonomic handle for comfort.

### INSULATED SLOTTED SCREWDRIVERS WITH CUSHION GRIP

Available in these blade widths:

**1/8" – 3/8"**

### INSULATED TORX SCREWDRIVERS

Available in these size ranges:

**T10 – T50**

### INSULATED PHILLIPS & ROBERTSON SCREWDRIVERS

WITH CUSHION GRIP

Phillips available in these sizes:

#0 X 2"  
#1 X 3"  
#2 X 1-1/2"  
#2 X 4"  
#2 X 6"  
#3 X 6"  
#4 X 8"

Robertson available in these sizes:

#1 X 4"  
#2 X 4"  
#2 X 8"  
#3 X 4"

### INSULATED SLOTTED SCREWDRIVERS

WITH CUSHION GRIP

CAT. NO. DESCRIPTION

S2376802	1/8" X 2"
S2376806	1/8" X 6"
S2375904	3/16" X 4"
S2375906	3/16" X 6"
S2375908	3/16" X 8"
S2375910	3/16" X 10"
S2375704	1/4" X 4"
S2375705	1/4" X 6"
S2375706	5/16" X 6"
S2375708	3/8" X 8"
S2375710	3/8" X 10"
S2375712	3/8" X 12"

### INSULATED TORX SCREWDRIVERS

CAT. NO. DESCRIPTION

S2341410	T10 X 3" Blade
S2341415	T15 X 3" Blade
S2341420	T20 X 3" Blade
S2341425	T25 X 3" Blade
S2341427	T27 X 4" Blade
S2341430	T30 X 4" Blade
S2341440	T40 X 6" Blade
S2341445	T45 X 6" Blade
S2341450	T50 X 6" Blade

### INSULATED PHILLIPS SCREWDRIVERS

WITH CUSHION GRIP

CAT. NO. DESCRIPTION

S2376302	#0 X 2" Phillips
S2376103	#1 X 3" Phillips
S2376103A	#1 X 6" Phillips
S2376102	#2 X 1-1/2" Phillips
S2376104	#2 X 4" Phillips
S2376105	#2 X 6" Phillips
S2376105A	#2 X 8" Phillips
S2376106	#3 X 6" Phillips
S2376108	#4 X 8" Phillips

### INSULATED ROBERTSON SCREWDRIVERS

WITH CUSHION GRIP

S2377610	#1 X 4" Robertson
S2377611	#1 X 8" Robertson
S2377620	#2 X 4" Robertson
S2377621	#2 X 8" Robertson
S2377630	#3 X 4" Robertson
S2377631	#3 X 8" Robertson

### MAGNETIC BIT TIP SCREWDRIVER

CAT. NO. DESCRIPTION

S2742614	3/16", 1/4", #1, #2 Bits
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A wide variety of torx screwdrivers are available upon request.

## NUT DRIVERS and SETS and SCREWDRIVER SETS

### INSULATED NUT DRIVERS WITH CUSHION GRIP



3" Lengths available in these sizes

3/16"	5mm
1/4"	6mm
5/16"	7mm
11/32"	8mm
3/8"	9mm
7/16"	10mm
1/2"	11mm
9/16"	12mm
5/8"	16mm

6" Lengths available in these sizes:

3/16"	5mm
1/4"	6mm
5/16"	7mm
11/32"	8mm
3/8"	9mm
7/16"	10mm
1/2"	11mm
9/16"	12mm
5/8"	16mm

S23870



#### 3" LENGTH INSULATED NUT DRIVERS WITH CUSHION GRIP

CAT. NO.	DESCRIPTION
S2542010	3/16" X 3"
S2542030	1/4" X 3"
S2542050	5/16" X 3"
S2542060	11/32" X 3"
S2542070	3/8" X 3"
S2542080	7/16" X 3"
S2542090	1/2" X 3"
S2542100	9/16" X 3"
S2542110	5/8" X 3"
S2542710	5mm X 3"
S2542730	6mm X 3"
S2542750	7mm X 3"
S2542760	8mm X 3"
S2542770	9mm X 3"
S2542780	10mm X 3"
S2542790	11mm X 3"
S2542800	12mm X 3"

#### 6" LENGTH INSULATED NUT DRIVERS WITH CUSHION GRIP

CAT. NO.	DESCRIPTION
S2542010L	3/16" X 6"
S2542030L	1/4" X 6"
S2542050L	5/16" X 6"
S2542060L	11/32" X 6"
S2542070L	3/8" X 6"
S2542080L	7/16" X 6"
S2542090L	1/2" X 6"
S2542100L	9/16" X 6"
S2542110L	5/8" X 6"
S2542710L	5mm X 6"
S2542730L	6mm X 6"
S2542750L	7mm X 6"
S2542760L	8mm X 6"
S2542770L	9mm X 6"
S2542780L	10mm X 6"
S2542790L	11mm X 6"
S2542800L	12mm X 6"



S2592

#### 6" NUT DRIVER SETS WITH CUSHION GRIP

CAT. NO.	DESCRIPTION
S25922L	9 Tools+ tool ml bag: 3/16"; 1/4"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"; 9/16"; 5/8"
S25925L	Metric Set, 8 Tools+ tool roll bag: 5mm; 6mm; 7mm; 8mm; 9mm; 10mm; 11mm; 12mm

#### SCREWDRIVER SETS WITH CUSHION GRIP

CAT. NO.	DESCRIPTION
S23871	6 Tools+ tool roll bag: #1 X3"; #2 X4"; 1/8" X2"; 3/16" X6"; 1/4" X4"; 5/16" X6"
S23869	8 Tools+ tool roll bag: #1 X3"; #2 X4"; 1/8" X2"; 3/16" X6"; 3/16" X10"; 1/4" X4"; 5/16" X6"; 3/8" X8"
S23870	10 Tools+ tool roll bag: #1 X3"; #2 X4"; #3 X6"; 1/8" X2"; 3/16" X6"; 3/16" X10"; 1/4" X4"; 5/16" X6"; 3/8" X8"; 3/8" X12"

#### 3" NUT DRIVER SETS WITH CUSHION GRIP

CAT. NO.	DESCRIPTION
S25921	7 Tools + tool roll bag: 3/16"; 1/4"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"
S25922	9 Tools+ tool roll bag: 3/16"; 1/4"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"; 9/16"; 5/8"
S25925	Metric set. Tools+ tool roll bag: 5mm; 6mm; 7mm; 8mm; 9mm; 10mm; 11mm; 12mm

## WRENCH SETS

AVAILABLE IN BOTH SAE & METRIC SIZES

### OPEN END WRENCH SETS

CAT. NO.	DESCRIPTION
S241713	13 pcs. 1/4" - 1" in a tool roll bag
S241714	14 pcs. 3/8" - 1-1/4" in a tool roll bag
S241814	13 pcs. 7mm - 19mm, in a tool roll bag
S241818	17 pcs. 7mm - 24mm, in a tool roll bag

### OPEN END WRENCH SETS

CAT. NO.	DESCRIPTION
S241780	8 pcs. 1" - 1-1/2" in a bag
S241790	6 pcs. 1-5/8" - 2" in a bag

### BOX END WRENCH SETS

CAT. NO.	DESCRIPTION
S241713-B	13 pcs. 1/4" - 1" in a roll bag
S241714-B	14 pcs. 3/8" - 1 1/4" in a tool roll bag
S241814-B	13 pcs. 7mm - 19mm, in a tool roll bag
S241818-B	17 pcs. 7mm - 24mm, in a tool roll bag

### BOX END WRENCH SETS

CAT. NO.	DESCRIPTION
S241780-B	8 pcs. 1" - 1-1/2" in a bag
S241790-B	6 pcs. 1-5/8" - 2" in a bag

S241714

S241714-B



### OPEN END WRENCHES

AVAILABLE IN BOTH SAE & METRIC SIZES

SAE sizes from 1/4" - 2"

Metric sizes from 6mm - 36mm

OPEN END WRENCH METRIC SIZES		OPEN END WRENCH SAE SIZES	
CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
S248306	6mm	S2488408	1/4"
S248307	7mm	S2488410	5/16"
S248308	8mm	S2488412	3/8"
S248309	9mm	S2488414	7/16"
S248310	10mm	S2488416	1/2"
S248311	11mm	S2488418	9/16"
S248312	12mm	S2488420	5/8"
S248313	13mm	S2488422	11/16"
S248314	14mm	S2488424	3/4"
S248315	15mm	S24C26	13/16"
S248316	16mm	S24C28	7/8"
S248317	17mm	S24C30	15/16"
S248318	18mm	S24C32	1"
S248319	19mm	S24C34	1-1/16"
S248320	20mm	S24C36	1-1/8"
S248321	21mm	S24C40	1-1/4"
S248322	22mm	S24C42	1-5/16"
S248323	23mm	S24C44	1-3/8"
S248324	24mm	S24C46	1 7/16"
S248325	25mm	S24C48	1 1/2"
S248326	26mm	S24C52	1-5/8"
S248327	27mm	S24C54	1-11/16"
S248328	28mm	S24C56	1-3/4"
S248329	29mm	S24C58	1-13/16"
S248330	30mm	S24C60	1-7/8"
S248332	32mm	S24C64	2"
S248336	36mm		

S241780-B



S241780



## WRENCHES

### AVAILABLE IN BOTH SAE & METRIC SIZES

#### RATCHETING BOX END WRENCH

##### 12 POINT SAE SIZES

CAT. NO.	DESCRIPTION
----------	-------------

S249008	1/4"
S249010	5/16"
S249011	11/32"
S249012	3/8"
S249014	7/16"
S249016	1/2"
S249018	9/16"
S249020	5/8"
S249022	11/16"
S249024	3/4"
S249026	13/16"
S249028	7/8"
S249030	15/16"
S249032	1"
S249034	1-1/16"
S249036	1 1/8"
S249038	1 1/4"
S24RB 42	1 5/16"
S24RB 44	1 3/8"
S24RB 46	1 7/16"
S24RB-48	1-1/2"
S24RB-50	1 9/16"
S24RB-52	1-5/8"
S24RB-54	1 11/16"
S24RB 56	1 3/4"
S24RB-58	1-13/16"
S24RB-60	1-7/8"
S24RB-64	2"
S24RB-68	2-1/8"

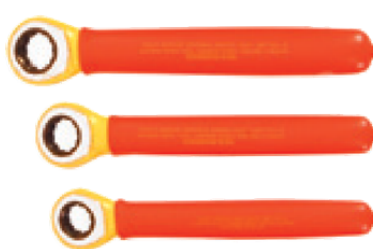
#### RATCHETING BOX END WRENCH

##### 12 POINT METRIC SIZES

CAT. NO.	DESCRIPTION
----------	-------------

S249115	15mm 12 Point
S249116	16mm 12 Point
S249117	17mm 12 Point
S249118	18mm 12 Point
S249119	19mm 12 Point
S249120	20mm 12 Point
S249121	21mm 12 Point
S249122	22mm 12 Point
S249123	23mm 12 Point
S249124	24mm 12 Point
S249125	25mm 12 Point
S249126	26mm 12 Point
S249127	27mm 12 Point
S249129	29mm 12 Point
S249130	30mm 12 Point
S249132	32mm 12 Point
S249134	34mm 12 Point
S249136	36mm 12 Point

#### RATCHETING BOX END WRENCHES



#### RATCHETING BOX END WRENCH

##### 6 POINT METRIC SIZES

CAT. NO.	DESCRIPTION
----------	-------------

S249106	6mm 6 Point
S249107	7mm 6 Point
S249108	8mm 6 Point
S249109	9mm 6 Point
S249110	10mm 6 Point
S249111	11mm 6 Point
S249112	12mm 6 Point
S249113	13mm 6 Point
S249114	14mm 6 Point

#### BOX END WRENCH

##### SAE SIZES - 12 POINT

CAT. NO.	DESCRIPTION
----------	-------------

S2488408-B	1/4"
S2488410-B	5/16"
S2488412-B	3/8"
S2488414-B	7/16"
S2488416-B	1/2"
S2488418-B	9/16"
S2488420-B	5/8"
S2488422-B	11/16"
S2488424-B	3/4"
S24C26-B	13/16"
S24C28-B	7/8"
S24C30-B	15/16"
S24C32-B	1"
S24C34-B	1-1/16"
S24C36-B	1-1/8"
S24C40-B	1-1/4"
S24C42-B	1-5/16"
S24C44-B	1-3/8"
S24C46-B	1 7/16"
S24C48-B	1-1/2"
S24C52-B	1 5/8"
S24C54-B	1-11/16"
S24C56-B	1-3/4"
S24C58-B	1-13/16"
S24C60-B	1-7/8"
S24C64-B	2"



#### BOX END WRENCHES



#### BOX END WRENCH

##### METRIC SIZES - 12 POINT

CAT. NO.	DESCRIPTION
----------	-------------

S248306-B	6mm
S248307-B	7mm
S248308-B	8mm
S248309-B	9mm
S248310-B	10mm
S248311-B	11mm
S248312-B	12mm
S248313-B	13mm
S248314-B	14mm
S248315-B	15mm
S248316-B	16mm
S248317-B	17mm
S248318-B	18mm
S248319-B	19mm
S248320-B	20mm
S248321-B	21mm
S248322-B	22mm
S248323-B	23mm
S248324-B	24mm
S248325-B	25mm
S248326-B	26mm
S248327-B	27mm
S248328-B	28mm
S248329-B	29mm
S248330-B	30mm
S248332-B	32mm
S248336-B	36mm

## WRENCHES

AVAILABLE IN BOTH SAE & METRIC SIZES

### RATCHETING BOX END WRENCH SET

CAT. NO.	DESCRIPTION
S24RB 13	13 pcs. 1/4" 1", 12 Point In a tool roll bag
S24RBM-15	15 pcs. 7mm 21mm, In a tool roll bag

### RATCHETING BOX END WRENCH SET

CAT. NO.	DESCRIPTION
S24RB-12	15 pcs. 1 1/16", 1-1/8", 1-1/4", 1-5/16", 1 3/8", 1-7/16", 1-1/2", 1-9/16", 1-5/8", 1-11/16", 1-3/4", 1-13/16", 1 7/8", 2", 2 1/8" 12 point In a tool bag
S24RBM-10	10 pcs. 22, 23, 24, 25, 26, 27, 29, 30, 32, 36mm In a tool bag



### HEX WRENCH "T" HANDLE SET

CAT. NO.	DESCRIPTION
S262344	11 pcs. 5/64 - 3/8" 6" Long In plastic tool roll bag
S2613P	13 pcs. 5/64 1/2" 6" Long In a tool roll bag
S2610M	10 pcs. 2mm 12mm 6" Long In a tool roll bag



### HEX WRENCH TYPE "L" SET

CAT. NO.	DESCRIPTION
S2610214	14 pcs. 1/16" 1/2" Long arm In a tool roll bag
S2610217	16 pcs. 1/16" - 5/8" Long arm In a tool roll bag
S2610610	10 pcs. 1.5mm - 12.0mm Long arm In a tool roll bag
S2610614	12 pcs. 1.5mm 17.0mm Long arm In a tool roll bag

### 6" LONG "T" HANDLE HEX WRENCH

AVAILABLE IN BOTH SAE & METRIC SIZES

SAE sizes from 5/64" - 9/16"

Metric sizes from 2mm - 12mm



### 6" LONG "T" HANDLE HEX WRENCH

#### SAE SIZES

CAT. NO.	DESCRIPTION
S2631605	5/64"
S2631606	3/32"
S2631607	7/64"
S2631608	1/8"
S2631609	9/64"
S2631610	5/32"
S2631612	3/16"
S2631614	7/32"
S2631616	1/4"
S2631620	5/16"
S2631624	3/8"
S2651628	7/16"
S2651632	1/2"
S2651634	9/16"

### 6" LONG "T" HANDLE HEX WRENCH

#### METRIC SIZES

CAT. NO.	DESCRIPTION
S2634620	2mm
S2634625	2.5mm
S2634630	3mm
S2634640	4mm
S2634650	5mm
S2634660	6mm
S2634680	8mm
S2634690	10mm
S2654691	11mm
S2654692	12mm

## WRENCHES

AVAILABLE IN BOTH SAE & METRIC SIZES



### LONG ARM HEX WRENCH

AVAILABLE IN BOTH SAE & METRIC SIZES

SAE sizes from 1/16" - 2"

Metric sizes from 1.5mm - 36mm



### LONG ARM HEX WRENCH

#### SAE SIZES

CAT. NO.	DESCRIPTION
S262223	1/16"
S262224	5/64"
S262225	3/32"
S262226	7/64"
S262227	1/8"
S262228	9/64"
S262229	5/32"
S262231	3/16"
S262233	7/32"
S262235	1/4"
S262239	5/16"
S262243	3/8"
S262247	7/16"
S262251	1/2"
S262255	9/16"
S262259	5/8"
S262267	3/4"
S262275	7/8"
S262283	1"
S262291	1-1/8"

SIZES UP TO 2" AVAILABLE UPON REQUEST.

### LONG ARM HEX WRENCH

#### METRIC SIZES

CAT. NO.	DESCRIPTION
S2615603	1.5mm
S2615604	2mm
S2615605	2.5mm
S2615606	3mm
S2615607	3.5mm
S2615608	4mm
S2615609	4.5mm
S2615610	5mm
S2615611	5.5mm
S2615612	6mm
S2615614	7mm
S2615616	8mm
S2615618	9mm
S2615620	10mm
S2615622	11mm
S2615624	12mm
S2615628	14mm
S2615634	17mm
S2615638	19mm
S2615644	22mm
S2615648	24mm
S2615651	27mm
S2615656	32mm
S2615660	36mm

### ADJUSTABLE WRENCH

AVAILABLE IN SIZES FROM 4" - 24"

CAT. NO.	DESCRIPTION
S24804	4"; 1/2" Jaw opening
S24806	6"; 15/16" Jaw opening
S24808	8"; 1 1/8" Jaw opening
S24810	10"; 1-5/16" Jaw opening
S24812	12"; 1-1/2" Jaw opening
S24815	15"; 1-11/16" Jaw opening
S24818	18"; 2-1/16" Jaw opening
S24824	24"; 2-7/16" Jaw opening



### ADJUSTABLE BUG WRENCH

CAT. NO.	DESCRIPTION
S2470221	8" Bug wrench 1/4" 3/4" capacity
S2470222	10" Bug wrench 3/8" 1" capacity

## TORQUE WRENCHES

### TORQUE WRENCH

CAT. NO.	DESCRIPTION
S22TC150RA	1/4" Dr, 9-1/2" long, 30-200 lbf b (4nm-23nm)
S22TC150RA38	3/8" Dr, 10" long, 30-200 lbf b (4nm-23nm)
S22TC250RA	3/8" Dr, 12-1/2" long, 50-250 lbf b (6nm-29nm)
S22TC1750R	3/8" Dr, 15" long, 100-1000 lbf b (14nm-110nm)
S22TC175FRN	3/8" Dr, 14-1/4" long, 5-75 ft/lb (5nm-105nm)
S22TC150FRN	1/2" Dr, 18-1/2" long, 10-150 ft/lb (20nm-210nm)
S22TC250FRN	1/2" Dr, 21-1/2" long, 25-250 ft/lb (43nm-348nm)

### TORQUE SCREWDRIVER

CAT. NO.	DESCRIPTION
S22TS35	1/4" Dr, 6-3/8" long, 1-36 lbf b
S22TS100	1/4" Dr, 6-3/8" long, 20-100 lbf b

A WIDE VARIETY OF TORQUE WRENCHES ARE AVAILABLE UPON REQUEST. RE-CALIBRATION SERVICE AVAILABLE, CONTACT CUSTOMER SERVICE FOR MORE INFORMATION.



## PLIERS



### WIRING PLIERS

CAT. NO.	DESCRIPTION
S21337W	7", Cuts and strips insulation

### CUTTING PLIERS, LAP JOINT

CAT. NO.	DESCRIPTION
S21337	7" Lap joint
S21338	8" Lap joint

### CURVED CUTTING PLIERS

CAT. NO.	DESCRIPTION
S21447	Diagonal curve 7-3/4" box joint

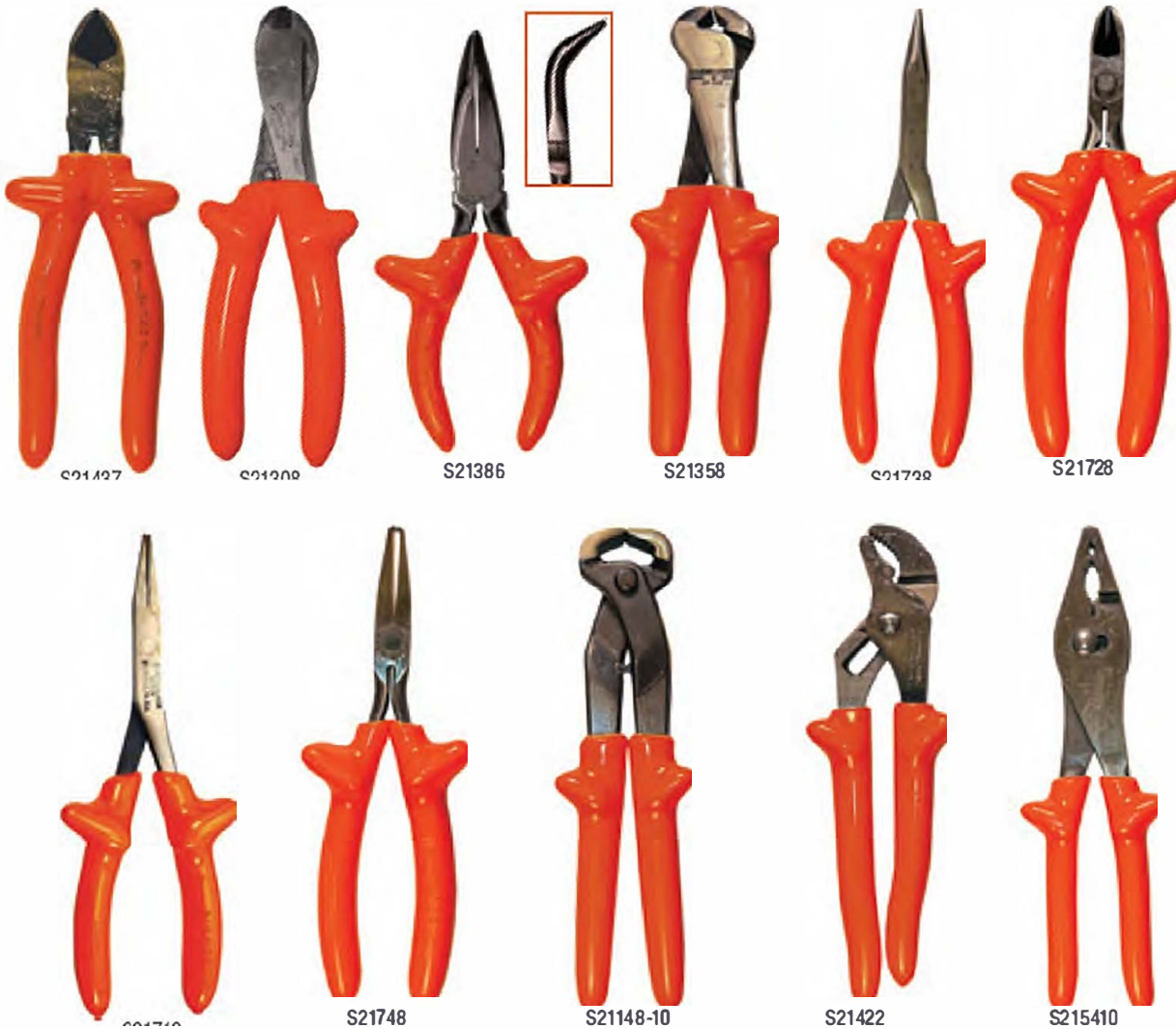
### LONG NEEDLE NOSE PLIERS

CAT. NO.	DESCRIPTION
S2147S	4 3/4" With side cutter / spring
S2150S	5 3/4" With side cutter / spring
S21326	6" With side cutter
S21317	7" With side cutter
S21318	8" With side cutter

### FENCE TOOL

CAT. NO.	DESCRIPTION
S2185	10-1/2" Overall length hammer on one jaw, staple starter and puller on the other side

## PLIERS



### CUTTING PLIERS, BOX JOINT

CAT. NO.	DESCRIPTION
S21435	5" Box joint
S21435S	5" Box joint w/ spring
S21436	6" Box joint
S21436S	6" Box joint w/ spring
S21437	7" Box joint

### BENT NEEDLE NOSE PLIERS

CAT. NO.	DESCRIPTION
S2149	4-1/2"
S21386	5-1/2" Without side cutter

### END CUTTING PLIERS

CAT. NO.	DESCRIPTION
S21356	6"
S21357	7"
S21358	8"

### LONG REACH PLIERS

CAT. NO.	DESCRIPTION
S21728	7 1/2" Diagonal cutter
S21738	8"

### FLAT NOSE PLIERS

CAT. NO.	DESCRIPTION
S2144	4 3/4"
S21D305-6	6"
S21718	Long reach 8"

### LONG REACH END CUTTER

CAT. NO.	DESCRIPTION
S21748	8"

### SHORT NOSE PLIERS

CAT. NO.	DESCRIPTION
S21308	8" Shearing

### END CUTTING NIPPERS

CAT. NO.	DESCRIPTION
S21148-10	10"
S21148-14	14"

### V GROOVE PLIERS

CAT. NO.	DESCRIPTION
S21422	9-1/2", 1-1/2" Capacity
S21442	12", 2-1/4" Capacity

### HEAVY DUTY SLIP JOINT PLIERS

CAT. NO.	DESCRIPTION
S21546	6" With cutting shear
S21537	7" With fine side cutter
S21548	8" With cutting shear
S215410	Pliers hose clamp slip joint 10" with cutting shear

## PLIERS



S21GL10



S2112098



S213248



S21516



S21420



S21958

### WATERPUMP PLIERS

CAT. NO.	DESCRIPTION
S21GL6	6", 1-1/16" Capacity
S21gl10	9-1/2", 1-1/4" Capacity
S21gl12	12", 2-1/4" Capacity

### PLIERS W/SIDE CUTTERS

CAT. NO.	DESCRIPTION
S2112098	8-1/2" With sleeve-connector crimping die

### ROUNDED NOSE PLIERS

CAT. NO.	DESCRIPTION
S21346	6"
S21347	7"
S21348	8-1/2"
S21369	9" High leverage
S213248	8 1/2" With cutter & crimper

### SLIP JOINT PLIERS

CAT. NO.	DESCRIPTION
S21516	6", Thin nose with cutting shear

### LINEMAN PLIERS

CAT. NO.	DESCRIPTION
S21350-S	9" With coiled spring

### TONGUE & GROOVE PLIERS

CAT. NO.	DESCRIPTION
S21415	10", 2" Capacity smooth jaws
S21424	4 1/2", 1/2" Capacity
S21426	6-1/2", 7/8" Capacity
S21420	9-1/2", 1-1/2" Capacity
S21430	10", 2" Capacity
S21440	12", 2-1/4" Capacity
S21460	16", 4 1/4" Capacity
S21480	20", 5 1/2" Capacity



S21908



S21350-S



S21909



S21911

### WIRE STRIPPER-CUTTER-CRIMPER

CAT. NO.	DESCRIPTION
S2111045	For cutting stripping and looping wire 10 - 18 ga
S21908	Wiring tool strips wire with no damage to conductor crimps both insulated and non-insulated wire

### WIRE STRIPPER

CAT. NO.	DESCRIPTION
S2111062	Automatic wire stripper for 10-22ga; 1" depth. Blades are available for 8-12 awg; 16-26 awg and metric 4.0 0.5mm; and 1.0-.015mm
S21958	Wire stripper/cutter 10-20ga for copper, strips insulation fast with no damage to wire, cuts copper wire cleanly

### CRIMPING TOOL

CAT. NO.	DESCRIPTION
S21909	Crimping and cutting tool
S211005	Crimping tool and wire cutter for 10 to 22 awg

### CUTTING PLIERS

CAT. NO.	DESCRIPTION
S21911	Cable cutter 9-1/2", cuts up to 4/0 aluminum and up to 2/0 soft copper. It is not designed for steel or ACSR

## LONG REACH PLIERS & THIN PROFILE ELECTRONICS PUERS



S21310

S21371

S21372

S2161190

S21510

S214044

S214046



S214050

S214052

S214048

### LONG REACH DIAGONAL CUTTERS

CAT. NO.	DESCRIPTION
S21310	11" Long reach diagonal cutter with end cutter
S21311	11" Long reach offset diagonal cutters

### LONG REACH SLIP JOINT PLIERS

CAT. NO.	DESCRIPTION
S21371	11" Long reach hd slip joint Pliers straight
S2137145	11" Long reach hd slip joint Pliers 45 degree

### LONG REACH SLIP JOINT CABLE GRIPPERS

CAT. NO.	DESCRIPTION
S21372	11" Long hd slip joint cable grippers 3/8"
S21373	11" Long hd slip joint cable grippers 3/4"

### LONG REACH NEEDLE NOSE

CAT. NO.	DESCRIPTION
S21611	11" Long reach needle nose straight
S2161145	11" Long reach needle nose 45 degree bent nose
S2161190	11" Long reach needle nose 90 degree bent nose

### LONG REACH FLAT NOSE

CAT. NO.	DESCRIPTION
S214050	6" Long reach flat nose non-serrated thin profile

### LONG REACH THIN HEAD

CAT. NO.	DESCRIPTION
S214052	5.5" Long reach thin head semi flush diagonal thin profile

### LONG REACH NEEDLE NOSE

CAT. NO.	DESCRIPTION
S214048	7" Long reach thin needle nose non-serrated thin profile
S214054	7" Long reach bent needle nose non-serrated thin profile

### LONG REACH CABLE GRIPPING PLIERS

CAT. NO.	DESCRIPTION
S21510	11" Long 5/16 od cable gripping Pliers
S21512	11" Long 1/2 od cable gripping Pliers
S21514	11" Long 3/4 od cable gripping Pliers

### LONG REACH CHAIN NOSE

CAT. NO.	DESCRIPTION
S214044	6" Long Reach Chain Nose w/ cutter smooth jaws thin profile

### LONG REACH OVAL HEAD

CAT. NO.	DESCRIPTION
S214046	5.5" Long reach oval head semi flush diagonal thin profile

## PLIERS

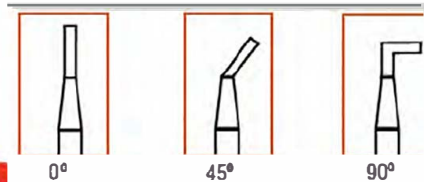
### SNAP RING PLIERS

CAT. NO.	DESCRIPTION
S211202R	.038" Tip diameter
S21120245R	45 Deg .038" Tip diameter
S21120290R	90 Deg .038" Tip diameter
S213202R	.047" Tip diameter
S21320245R	45 Deg .047" Tip diameter
S21320290R	90 Deg .047" Tip diameter
S213402R	.070" Tip diameter
S21340245R	45 Deg .070" Tip diameter
S21340290R	90 Deg .070" Tip diameter
S215602R	.090" Tip diameter
S21560245R	45 Deg .090" Tip diameter
S21560290R	90 Deg .090" Tip diameter



S211202R

### TIP CONFIGURATIONS



Use with either external or internal retaining rings.

### RATCHETING CABLE CUTTER

CAT. NO.	DESCRIPTION
S2163060	600mcm Alum 400mcm Copper
S215090FS	750mcm Alum 500mcm Copper



S2163060



S210190



S2163035

### BOLT CUTTER

CAT. NO.	DESCRIPTION
S210090	18" Cuts 3/8" soft/medium material, 1/4" hard material
S210190	24" Cuts 7/16" soft/medium material, 5/16" hard material
S210290	30" Cuts 1/2" soft/medium material, 3/8" hard material
S210390	36" Cuts 9/16" soft/medium material, 7/16" hard material
S210590	42" Cuts 11/16" soft/medium material, 1/2" hard material

### CABLE CUTTING PLIERS

CAT. NO.	DESCRIPTION
S2163035	17" For up to 1" coax cable cuts soft copper and aluminum cable up to 350 mcm, drop forged steel, shear-type hook jaws grab and hold cable
S2163041	25" 1-3/8" Cutting capacity cuts 500 copper, 750 aluminum soft cable. Not designed for cutting steel or ACSR
S2163035-RING	For up to 1" coax cable cuts soft copper and aluminum cable up to 350 mcm; drop forged steel; shear-type hook jaws grab and hold cable; with guidance ring
S2163030	9-1/2"
S2163055-RING	8" Cuts 24 awg cooper, aluminum multi-strand cable and wire; with guidance ring



S2163041-RING



S2163055-RING



S2163035-RING

### CABLE SHEAR

CAT. NO.	DESCRIPTION
S2163041-RING	25", 1-3/8" Cutting capacity , cuts 500 copper, 750 aluminum, soft cable: 1-3/8" diameter; with guidance ring. Not designed for cutting steel or ACSR

### HACKSAW

CAT. NO.	DESCRIPTION
S30602VSE	12" Hacksaw frame

S30602VSE



## SOCKETS - 1/4" DRIVE



### STANDARD OR DEEP SOCKET

1/4" DRIVE, 12 POINT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.

#### STANDARD SOCKET

##### SAE SIZES

CAT. NO.	DESCRIPTION
S2043906	3/16"
S2043907	7/32"
S2043908	1/4"
S2043909	9/32"
S2043910	5/16"
S2043911	11/32"
S2043912	3/8"
S2043914	7/16"
S2043916	1/2"
S2043918	9/16"

#### DEEP SOCKET

##### SAE SIZES

CAT. NO.	DESCRIPTION
S2044906	3/16"
S2044907	7/32"
S2044908	1/4"
S2044909	9/32"
S2044910	5/16"
S2044911	11/32"
S2044912	3/8"
S2044914	7/16"
S2044916	1/2"
S2044918	9/16"

#### STANDARD SOCKET

##### METRIC SIZES

CAT. NO.	DESCRIPTION
S2040701	4mm 6 point
S2043702	5mm
S2043703	5.5mm
S2043704	6mm
S2043706	7mm
S2043707	8mm
S2043708	9mm
S2043709	10mm
S2043710	11mm
S2043711	12mm
S2043712	13mm
S2043713	14mm
S2040714	15mm 6 point

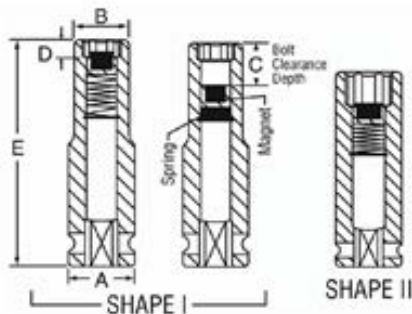
#### DEEP SOCKET

##### METRIC SIZES

CAT. NO.	DESCRIPTION
S2041697	4mm 6 point
S2044702	5mm
S2044703	5.5mm
S2044704	6mm
S2044706	7mm
S2044707	8mm
S2044708	9mm
S2044709	10mm
S2044710	11mm
S2044711	12mm
S2044712	13mm
S2044713	14mm
S2041711	15mm 6 point

## 1/4" DRIVE DEEP SPRING LOADED MAGNETIC SOCKETS

1/4" DRIVE DEEP SPRING-LOADED MAGNETIC SOCKETS			
SAE SIZES		METRIC SIZES	
CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
S20906DG	3/16"	S20905MDM	5mm
S20907DG	7/32"	S20955MDM	5.5mm
S2010142	1/4"	S2010602M	6mm
S20909DG	9/32"	S2010702M	7mm
S2015162	5/16"	S2010802M	8mm
S20111322	11/32"	S2010902M	9mm
S2010382	3/8"	S2011002M	10mm
S2017162	7/16"	S2011102M	11mm
S2010122	1/2"	S2011202M	12mm
S2019162	9/16"	S2011302M	13mm
S2010582	5/8"	S2011402M	14mm
		S2011502M	15mm



## SOCKETS - 3/8" DRIVE

### STANDARD OR DEEP SOCKET

3/8" DRIVE, 12 POINT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.

#### STANDARD SOCKET

##### SAE SIZES

CAT. NO.	DESCRIPTION
S2045208	1/4"
S2045210	5/16"
S2045212	3/8"
S2045214	7/16"
S2045216	1/2"
S2045218	9/16"
S2045120	5/8"
S2045122	11/16"
S2045124	3/4"
S2045126	13/16"
S2045128	7/8"
S2045130	15/16"
S2045132	1"

#### STANDARD SOCKET

##### METRIC SIZES

CAT. NO.	DESCRIPTION
S20306	6mm 6 point
S202307	7mm
S202308	8mm
S202309	9mm
S202310	10mm
S202311	11mm
S202312	12mm
S202313	13mm
S202314	14mm
S202315	15mm
S202316	16mm
S202317	17mm
S202318	18mm
S202319	19mm
S202320	20mm
S202321	21mm
S202322	22mm
S202323	23mm
S202324	24mm

#### DEEP SOCKET

##### SAE SIZES

CAT. NO.	DESCRIPTION
S2042408	1/4"
S2042410	5/16"
S2042412	3/8"
S2042414	7/16"
S2042416	1/2"
S2042418	9/16"
S2042420	5/8"
S2042422	11/16"
S2042424	3/4"
S2042426	13/16"
S2042428	7/8"
S2042430	15/16"
S2042432	1"

#### DEEP SOCKET

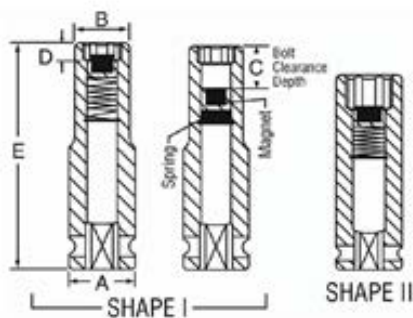
##### METRIC SIZES

CAT. NO.	DESCRIPTION
S208406	6mm 6 point
S208407	7mm 6 point
S208408	8mm 6 point
S208429	9mm
S208430	10mm
S208431	11mm
S208432	12mm
S208433	13mm
S208434	14mm
S208435	15mm
S208436	16mm
S208437	17mm
S208438	18mm
S208439	19mm
S208420	20mm 6 point
S208421	21mm 6 point
S208422	22mm 6 point
S208423	23mm 6 point
S208424	24mm 6 point
S208425	25mm 6 point
S208426	26mm 6 point



## 3/8" DRIVE DEEP SPRING-LOADED MAGNETIC SOCKETS

3/8" DRIVE DEEP SPRING-LOADED MAGNETIC SOCKETS			
SAE SIZES		METRIC SIZES	
CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
S20906DG	3/16"	S2020602M	6mm
S20907DG	7/32"	S2020702M	7mm
S2010142	1/4"	S2002802M	8mm
S20909DG	9/32"	S2020902M	9mm
S2015162	5/16"	S2021002M	10mm
S20111322	11/32"	S2021102M	11mm
S2010382	3/8"	S2021202M	12mm
S2017162	7/16"	S2021302M	13mm
S2010122	1/2"	S2021402M	14mm
S2019162	9/16"	S2021502M	15mm
S2010582	5/8"	S2021602M	16mm
1022DG	1 1/16"	S2021702M	17mm
1024DG	3/4"	S2021802M	18mm
		1019DG	19mm



## SOCKETS - 1/2" DRIVE

### STANDARD OR DEEP SOCKET

1/2" DRIVE, 12 POINT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.



### STANDARD SOCKET

SAE SIZES

CAT. NO.	DESCRIPTION
S2040212	3/8"
S2040214	7/16"
S2040216	1/2"
S2040218	9/16"
S2040120	5/8"
S2040122	11/16"
S2040124	3/4"
S2040126	13/16"
S2040128	7/8"
S2040130	15/16"
S2040132	1"
S2040134	1 1/16"
S2040136	1 1/8"
S2040138	1-3/16"
S2040140	1-1/4"
S2040142	1 5/16"
S2040144	1-3/8"
S2040146	1 7/16"
S2040148	1-1/2"

### STANDARD SOCKET

METRIC SIZES

CAT. NO.	DESCRIPTION
S2040309	9mm
S2040310	10mm
S2040311	11mm
S2040312	12mm
S2040313	13mm
S2040314	14mm
S2040315	15mm
S2040316	16mm
S2040317	17mm
S2040318	18mm
S2040319	19mm
S2040320	20mm
S2040321	21mm
S2040322	22mm
S2040323	23mm
S2040324	24mm
S2040325	25mm
S2040326	26mm
S2040327	27mm
S2040328	28mm
S2040329	29mm
S2040330	30mm
S2040331	31mm
S2040332	32mm
S2040336	36mm

### DEEP SOCKET

SAE SIZES

CAT. NO.	DESCRIPTION
S2040812	3/8"
S2040814	7/16"
S2040816	1/2"
S2040818	9/16"
S2040820	5/8"
S2040822	11/16"
S2040824	3/4"
S2040826	13/16"
S2040828	7/8"
S2040830	15/16"
S2040832	1"
S2040834	1 1/16"
S2040836	1 1/8"
S2040838	1-3/16"
S2040840	1 1/4"
S2040842	1 5/16"
S2040844	1-3/8"
S2040846	1-7/16"
S2040848	1-1/2"

### DEEP SOCKET

METRIC SIZES

CAT. NO.	DESCRIPTION
S2048010	10mm
S2048011	11mm
S2048012	12mm
S2048013	13mm
S2048014	14mm
S2048015	15mm
S2048016	16mm
S2048017	17mm
S2048018	18mm
S2048019	19mm
S2048020	20mm
S2048021	21mm
S2048022	22mm
S2048023	23mm
S2048024	24mm
S2048025	25mm
S2048026	26mm
S2048027	27mm
S2048028	28mm
S2048030	30mm
S2048032	32mm

## SOCKETS - 3/4" DRIVE

### STANDARD SOCKET

3/4" DRIVE, 12 POINT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.

### STANDARD SOCKET

#### SAE SIZES

CAT. NO.	DESCRIPTION
S2047124	3/4"
S2047126	13/16"
S2047128	7/8"
S2047130	15/16"
S2047132	1"
S2047134	1 1/16"
S2047136	1-1/8"
S2047138	1-3/16"
S2047140	1 1/4"
S2047142	1-5/16"
S2047144	1-3/8"
S2047146	1 7/16"
S2047148	1-1/2"
S2047150	1 9/16"
S2047152	1 5/8"
S2047154	1-11/16"
S2047156	1 3/4"
S2047158	1 13/16"
S2047160	1-7/8"
S2047164	2"
S2047166	2 1/16"
S2047168	2-1/8"
S2047171	2-3/16"
S2047172	2-1/4"
S2047176	2-3/8"

### STANDARD SOCKET

#### METRIC SIZES

CAT. NO.	DESCRIPTION
S2048122	22mm
S2048123	23mm
S2048124	24mm
S2048126	26mm
S2048127	27mm
S2048128	28mm
S2048129	29mm
S2048130	30mm
S2048132	32mm
S2048133	33mm
S2048135	35mm
S2048136	36mm
S2048138	38mm
S2048140	40mm
S2048141	41mm
S2048142	42mm
S2048146	46mm
S2048150	50mm
S2048154	54mm
S2048155	55mm



## BATCHET & SOCKET ACCESSORIES



### FLEX HEAD HANDLES

CAT. NO.	DESCRIPTION
S2040952	1/4" Drive flex head handle 5.4"
S2045152	3/8" Drive flex head handle 10"
S2041650	1/2" Drive flex head handle 9"
S2041652	1/2" Drive flex head handle 16"
S2041654	1/2" Drive flex head handle 24"
S2047155	3/4" Drive flex head handle 18"

### RATCHETS

CAT. NO.	DESCRIPTION
S2040970NB	1/4" Drive ratchet 4.5" no boot
S2040970	1/4" Drive ratchet 4.5"
S2040971	1/4" Drive ratchet 6.5"
S2045170NB	3/8" Drive ratchet 7.6" no boot
S2045170	3/8" Drive ratchet 7.6"
S2045179	3/8" Drive ratchet 10.3"
S2045174	3/8" Drive ratchet stubby 4.8"
S2042470NB	1/2" Drive ratchet 10.3" no boot
S2042470	1/2" Drive ratchet 10.3"
S2040170	1/2" Drive ratchet 15"
S2047170	3/4" Drive ratchet 18"

### "T" SOCKET DRIVER

CAT. NO.	DESCRIPTION
S2045850	6" "T"-socket driver, 3/8" drive
S2045851	12" "T"-socket driver, 3/8" drive
S2041950	6" "T"-socket driver, 1/2" drive
S2041951	12" "T" socket driver, 1/2" drive

### ADAPTERS

CAT. NO.	DESCRIPTION
S20384	Adapter 3/8" F - 1/4" M
S20385	Adapter 1/4" F - 3/8" M
S20451	Adapter 3/8" F - 1/2" M
S20401	Adapter 1/2" F - 3/8" M
S20407	Adapter 1/2" F - 3/4" M
S20409	Adapter 3/4" F - 1/2" M



## RATCHET & SOCKET ACCESSORIES

### EXTENSIONS

AVAILABLE IN 1/4", 3/8", 1/2" AND 3/4" DRIVES

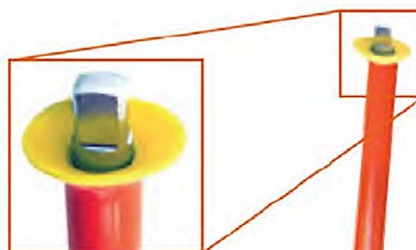
EXTENSIONS ARE AVAILABLE IN FLARE NOSE STYLE FOR USE ON NON-BOOTED SOCKETS.

### FIBERGLASS EXTENSIONS

AVAILABLE IN 3/8" AND 1/2" DRIVES

CAT. NO.	DESCRIPTION
S2045161FB	extension 6" 3/8" drive
S2045162FB	extension 12" 3/8" drive
S2040164FB	extension 6" 1/2" drive
S2040165FB	extension 12" 1/2" drive

FIBERGLASS EXTENSIONS ARE TESTED AT 80 FT.LBS., DO NOT EXCEED 60 FT.LBS.



### EXTENSIONS

CAT. NO.	DESCRIPTION
S2040961	1/4" drive extension 2"
S2040963	1/4" drive extension 3"
S2040962	1/4" drive extension 6"
S2040968	1/4" drive extension 8"
S2040969	1/4" drive extension 10"
S2040964	1/4" drive extension 14"

### EXTENSIONS WITH FLARE END

CAT. NO.	DESCRIPTION
S2040961FN	1/4" drive extension 2"
S2040963FN	1/4" drive extension 3"
S2040962FN	1/4" drive extension 6"
S2040968FN	1/4" drive extension 8"
S2040969FN	1/4" drive extension 10"
S2040964FN	1/4" drive extension 14"

S2045159	3/8" drive extension 1.5"
S2045160	3/8" drive extension 3"
S2045161	3/8" drive extension 6"
S2045158	3/8" drive extension 9"
S2045162	3/8" drive extension 12"
S2045163	3/8" drive extension 18"
S2045164	3/8" drive extension 24"
S2045149	3/8" drive extension 35"

S2045159FN	3/8" drive extension 1.5"
S2045160FN	3/8" drive extension 3"
S2045161FN	3/8" drive extension 6"
S2045158FN	3/8" drive extension 9"
S2045162FN	3/8" drive extension 12"
S2045163FN	3/8" drive extension 18"
S2045164FN	3/8" drive extension 24"
S2045149FN	3/8" drive extension 35"

S2040160	1/2" drive extension 2"
S2040161	1/2" drive extension 5"
S2040162	1/2" drive extension 10"
S2040163	1/2" drive extension 20"

S2040160FN	1/2" drive extension 2"
S2040161FN	1/2" drive extension 5"
S2040162FN	1/2" drive extension 10"
S2040163FN	1/2" drive extension 20"

S2047159	3/4" drive extension 3"
S2047163	3/4" drive extension 5"
S2047161	3/4" drive extension 8"
S2047162	3/4" drive extension 16"

S2047159FN	3/4" drive extension 3"
S2047163FN	3/4" drive extension 5"
S2047161FN	3/4" drive extension 8"
S2047162FN	3/4" drive extension 16"



## RATCHET & SOCKET ACCESSORIES



Phillips Screwdriver Bit Socket



Slotted Screwdriver Bit Socket



### 1/4" DRIVE SCREWDRIVER BIT SOCKETS

#### SLOTTED AND PHILLIPS

Available in these size ranges:

Slotted - 3/16" - 5/16"

Phillips - #0 - #3

CAT. NO.	DESCRIPTION
S2044470	Slotted 1F - 2R
S2044471	Slotted 2F - 3R
S2044472	Slotted 4F - 5R
S2044473	Slotted 6F - 8R
S2044480	Phillips #0
S2044481	Phillips #1
S2044482	Phillips #2
S2044483	Phillips #3
S2044570	6" long slotted 1F - 2R
S2044571	6" long slotted 2F - 3R
S2044572	6" long slotted 4F - 5R
S2044573	6" long slotted 6F - 8R
S2044581	6" long phillips #1
S2044582	6" long phillips #2
S2044883	6" long phillips #3

### 3/8" DRIVE SCREWDRIVER BIT SOCKETS

#### SLOTTED AND PHILLIPS

Available in these size ranges:

Slotted - 3F - 4R - 12F - 16R

Phillips - #1 - #4

CAT. NO.	DESCRIPTION
S2045471	Slotted 3F - 4R
S2045472	Slotted 4F - 5R
S2045473	Slotted 5F - 6R
S2045474	Slotted 8F - 12R
S2045475	Slotted 12F - 16R
S2045481	Phillips #1
S2045482	Phillips #2
S2045483	Phillips #3
S2045484	Phillips #4
S2045671	6" long slotted 3F - 4R
S2045672	6" long slotted 4F - 5R
S2045673	6" long slotted 5F - 6R
S2045674	6" long slotted 8F - 12R
S2045675	6" long slotted 12F - 16R
S2045681	6" Long phillips #1
S2045682	6" Long phillips #2
S2045683	6" Long phillips #3
S2045684	6" Long phillips #4

## TORX BIT AND TAMPER-PROOF TORX SOCKETS

### 1/4" DRIVE TORX BIT & TAMPER-PROOF TORX SOCKET

Available in these size ranges:

T8 - T27 4" long

#### 1/4" TORX BIT SOCKET

CAT. NO.	DESCRIPTION
S2042908	T8
S2042910	T10
S2042915	T15
S2042920	T20
S2042925	T25
S2042927	T27
S2042930	T30
S2042958	T8 4" long
S2042960	T10 4" long
S2042965	T15 4" long
S2042970	T20 4" long
S2042975	T25 4" long
S2042977	T27 4" long

#### 1/4" TAMPER-PROOF TORX BIT SOCKET

CAT. NO.	DESCRIPTION
S2042507	T7
S2042508	T8
S2042510	T10
S2042515	T15
S2042520	T20
S2042525	T25
S2042527	T27
S2042530	T30



Torx Screwdriver Bit Socket

### 3/8" DRIVE TORX BIT & TAMPER-PROOF TORX SOCKET

Available in these size ranges:

T40 - T50 extra long

#### 3/8" TORX BIT SOCKET

CAT. NO.	DESCRIPTION
S2045540	T40
S2045545	T45
S2045547	T47
S2045550	T50
S2045555	T55
S2042580	T30 4" long
S2042590	T40 4" long
S2042595	T45 4" long
S2042600	T50 4" long
S2042640	T40 6" long
S2042645	T45 6" long
S2042650	T50 6" long
S2042655	T55 6" long

#### 3/8" TAMPER-PROOF TORX BIT SOCKET

CAT. NO.	DESCRIPTION
S2045440	T40
S2045445	T45
S2045450	T50
S2045455	T55
S2044205	5/64
S2044206	3/32
S2044207	7/64
S2044208	1/8
S2044209	9/64
S2044210	5/32
S2044212	3/16
S2044214	7/32
S2044216	1/4



Tamper-Proof Torx Screwdriver Bit Socket



### 1/2" DRIVE TORX BIT SOCKET

Available in this size:

T60 - T70

### 1/2" TORX BIT SOCKET

CAT. NO.	DESCRIPTION
S2045560	T60
S2045565	T70

### TAMPER-PROOF TORX BIT SOCKET

Available in this size:

T60 - T70

### 1/2" TORX BIT SOCKET

CAT. NO.	DESCRIPTION
S2045570	T60
S2045580	T70

## HEX BIT SOCKETS

### 1/4" DRIVE HEX BIT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.

Available in these size ranges:

1/16" - 1/4"
2mm - 6mm

### 1/4" HEX BIT SOCKET

SAE SIZES

CAT. NO.	DESCRIPTION
S2044304	1/16"
S2044305	5/64"
S2044306	3/32"
S2044307	7/64"
S2044308	1/8"
S2044309	9/64"
S2044310	5/32"
S2044312	3/16"
S2044314	7/32"
S2044316	1/4"

### 1/4" HEX BIT SOCKET

METRIC SIZES

CAT. NO.	DESCRIPTION
S2044324	2mm
S2044325	2.5mm
S2044326	3mm
S2044327	4mm
S2044328	5mm
S2044330	6mm



Hex Screwdriver  
Bit Socket

### 1/2" DRIVE HEX BIT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.

Available in these size ranges:

5/16" - 3/4"
12mm - 19mm

### 1/2" HEX BIT SOCKET

SAE SIZES

CAT. NO.	DESCRIPTION
S2041213	5/16"
S2041214	3/8"
S2041215	7/16"
S2041216	1/2"
S2041218	9/16"
S2041220	5/8"
S2041221	11/16"
S2041222	3/4"
S2041613	5/16" 6" long
S2041614	3/8" 6" long
S2041615	7/16" 6" long
S2041266	1/2" 6" long
S2041268	9/16" 6" long
S2041270	5/8" 6" long
S2041621	11/16" 6" long
S2041622	3/4" 6" long

### 1/2" HEX BIT SOCKET

METRIC SIZES

CAT. NO.	DESCRIPTION
S2041412	12mm
S2041413	13mm
S2041414	14mm
S2041416	16mm
S2041417	17mm
S2041419	19mm
S2041462	12mm 6" long
S2041463	13mm 6" long
S2041464	14mm 6" long
S2041466	16mm 6" long
S2041467	17mm 6" long
S2041469	19mm 6" long

## HEX BIT SOCKETS

### 3/8" DRIVE HEX BIT SOCKET

AVAILABLE IN BOTH SAE & METRIC SIZES.

Available in these size ranges:

1/16" - 1/2"  
2mm - 12mm

### 3/8" HEX BIT SOCKET

#### SAE SIZES

CAT. NO.	DESCRIPTION
S2041201	1/16"
S2041202	5/64"
S2041203	3/32"
S2041204	7/64"
S2041205	1/8"
S2041206	9/64"
S2041207	5/32"
S2041208	3/16"
S2041209	7/32"
S2041210	1/4"
S2041310	9/32"
S2041211	5/16"
S2041212	3/8"
S2041225	7/16"
S2041226	1/2"
S2045904	1/8" 6" long
S2045905	5/32" 6" long
S2045906	3/16" 6" long
S2045907	7/32" 6" long
S2045908	1/4" 6" long
S2045909	9/32" 6" long
S2045910	5/16" 6" long
S2045912	3/8" 6" long
S2045913	7/16" 6" long
S2045914	1/2" 6" long

### 3/8" HEX BIT SOCKET

#### METRIC SIZES

CAT. NO.	DESCRIPTION
S2041400	2mm
S2041401	2.5mm
S2041402	3mm
S2041403	4mm
S2041404	5mm
S2041405	6mm
S2041406	7mm
S2041407	8mm
S2041408	9mm
S2041409	10mm
S2041410	11mm
S2041411	12mm
S2041502	3mm 6" long
S2041503	4mm 6" long
S2041504	5mm 6" long
S2041505	6mm 6" long
S2041506	7mm 6" long
S2041507	8mm 6" long
S2041508	9mm 6" long
S2041509	10mm 6" long
S2041510	11mm 6" long
S2041511	12mm 6" long



## RATCHET AND SOCKET SETS



S102

### BATTERY TORQUE SET

CAT. NO.	DESCRIPTION
S102	4 Piece Set Includes: 3/8" Drive Torque Wrench 10" Long 30-150 in/lb, 7" Fiberglass Extension, 1/2" Box Wrench, 1/2" Regular 6pt Socket In a Plastic Box



S104

### 3/8" DRIVE SOCKET SETS

CAT. NO.	DESCRIPTION
S103	11 Piece Set Includes: 3/8" Drive Reversible Ratchet Wrench, 3" and 6" Extensions. Deep Sockets 12pt 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 and 13/16" In a Fitted Plastic Case
S103-ST	11 pcs. Regular socket, 3/8 Dr.
S104	16 Piece Deep SAE Socket Set Includes: 3/8" Drive Ratchet Wrench, 3" and 6" Extensions. Deep sockets 12pt: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1" In a Fitted Plastic Case
S105	14 Piece Deep Metric Socket Set includes: 3/8" Drive Ratchet Wrench, 3" and 6" Extensions, Deep Sockets 12pt: 9mm to 19mm In a Fitted Plastic Case
S106	24 Piece Deep Metric Set Includes: 3/8" Drive Ratchet Wrench, 3" and 6" Extensions, Deep Sockets 6 and 12pt: 6mm to 26mm In a Fitted Plastic Case
S601	13 Piece Deep SAE Set Includes 3/8" Drive Ratchet Wrench, 3" and 6" Extensions, Deep Sockets 1/4 to 13/16 In a Fitted Plastic Case



### ALLEN SOCKET SETS

CAT. NO.	DESCRIPTION
S602	14 Piece SAE Allen Socket Set Includes: 3/8" Drive Ratchet Wrench, Hex Sockets 1/8" to 1/2", 3" and 6" Extensions, Packed in a Tool Roll
S602M	13 Piece Metric Allen Socket Set Includes: 3/8" Drive Ratchet Wrench, Hex Sockets 3mm-12mm, 3" and 6" Extensions, Packed in a Tool Roll
S603	15 Piece SAE Allen Socket Set Includes: 3/8" Drive Reversible Ratchet Wrench, Hex Sockets 1/16"-3/8" 3/8", 3" and 6" Extensions Packed in a Tool Roll



Tool Roll Included

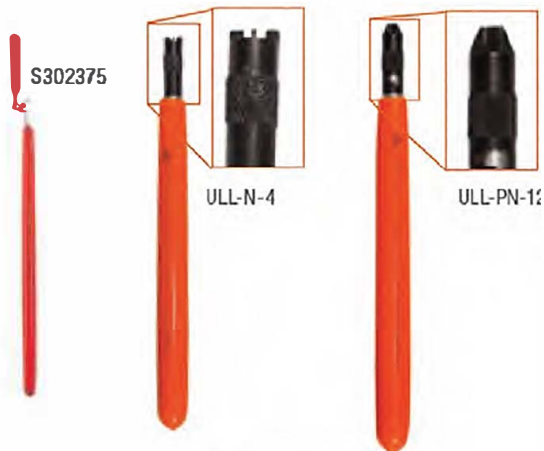
**CLOSE QUARTERS SOCKET SET**

THESE SETS ARE DESIGNED FOR USE IN TIGHT WORK SPACES

CAT. NO.	DESCRIPTION
S204946	1/4" Drive 13 Piece Set Includes: 1/4" Ratchet Wrench, 3" & 6" Flared Extensions, Regular Sockets 12pt: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2 and 9/16" Packaged in a Plastic Tool Box
S204653	3/8" Drive 16 Piece Set Includes: 3/8" Ratchet Wrench, 3" & 6" Flared Extensions Regular Sockets 12pt: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1" Packaged in a Plastic Tool Box
S204121	1/2" Drive 21 Piece Set Includes: 1/2" Ratchet Wrench, 5" Flared Extension, Regular Sockets 12pt: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16 and 1-1/2" Packaged in a Plastic Tool Box
S204122	3/4" Drive 27 Piece Set Includes: 3/4" Ratchet Wrench, 5" Flared Extension, Regular Sockets 12pt: 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 2, 2-1/16, 2-1/8, 2-3/16, 2-1/4 and 2-3/8" Packaged in a Plastic Tool Box
S201340	1/4" Drive 13 Piece Set Includes: 1/4" Ratchet Wrench, 3" & 6" Flared Extensions, Regular Sockets 12pt: 5mm to 14mm Packaged in a Plastic Tool Box
S2089023	3/8" Drive 16 Piece Set Includes: 3/8" Ratchet Wrench, 3" & 6" Flared Extensions, Regular Sockets 12pt: 7mm to 19mm Packaged in a Plastic Tool Box
S201919	1/2" Drive 21 Piece Set Includes: 1/2" Ratchet Wrench, 5" Flared Extension, Regular Sockets 12pt: 10mm to 28mm Packaged in a Plastic Tool Box
S2094712E	3/4" Drive 22 Piece Set Includes: 3/4" Ratchet Wrench, 5" Flared Extension, Regular Sockets 12pt: 22, 23, 24, 26, 27, 28, 29, 30, 32, 33, 35, 36, 38, 40, 41, 42, 46, 50, 54, 55mm Packaged in a Plastic Tool Box



## SPECIALIZED TOOLS



ROLL-08



ROLL-05



ROLL-04

### ADJUSTABLE MAGNETS

CAT. NO.	DESCRIPTION
S302375	Retrieving Tool 18"

### SCREWSTARTERS

CAT. NO.	DESCRIPTION
ULL-N-4	Slotted
ULL-PN-12	Phillips

### POCKET MAGNETS

CAT. NO.	DESCRIPTION
S30385	6" Long

### ACCESSORIES

CAT. NO.	DESCRIPTION
S30PPF 1	Fuse Puller
SIP LIGHT	Waterproof Flashlight
S90001	Penta Wrench
KN985313	Dismantling Knife

### HOOK & PICK

CAT. NO.	DESCRIPTION
S3042996	4 pc. Pick & Hook Set; Straight pick, 90 deg. hook, round hook & compound bend pick
S3042996-1	Straight Pick
S3042996-2	90 Deg
S3042996-3	Round
S3042996-4	Compound Bend Pick

### BOXES AND ROLLS

CAT. NO.	DESCRIPTION
BOX TK30	TK30 Box with Foam Insert
BOX-TK60	TK60 Box
BOX PB-16	16" Tool Box
ROLL-04	Roll 10 Pockets for Screwdrivers and Nut Drivers
ROLL-05	Roll 9 pockets (4 for Pliers and 5 for Screwdrivers) for TK9
ROLL-06	Roll 18 pockets for 1 hex wrenches
ROLL-08	Roll 13 pockets for "I" type hex wrench
ROLL-11	Roll 18 Pockets for Open and Box End Wrenches
ROLL-12	Socket Kit Roll

## NON-CONDUCTIVE TOOLS

### DOUBLE END PICKUP MAGNET

CAT. NO.	DESCRIPTION
S27300-6	6" Double ended pickup magnet 5 lbs and 1-1/2 lbs pulling capacity
S27300-12	12" Double ended pickup magnet 5 lbs and 1 1/2 lbs pulling capacity
S27300-18	18" Double ended pickup magnet 5 lbs and 1-1/2 lbs pulling capacity

CAPABLE OF RETRIEVING STEEL PARTS AND FASTENERS FROM 1-1/2 LB TO 5 LB FROM HARD TO REACH PLACES. ALL SIP MAGNETS ARE MADE OF ALNICO MATERIAL.

### DOUBLE END SCREW STARTERS

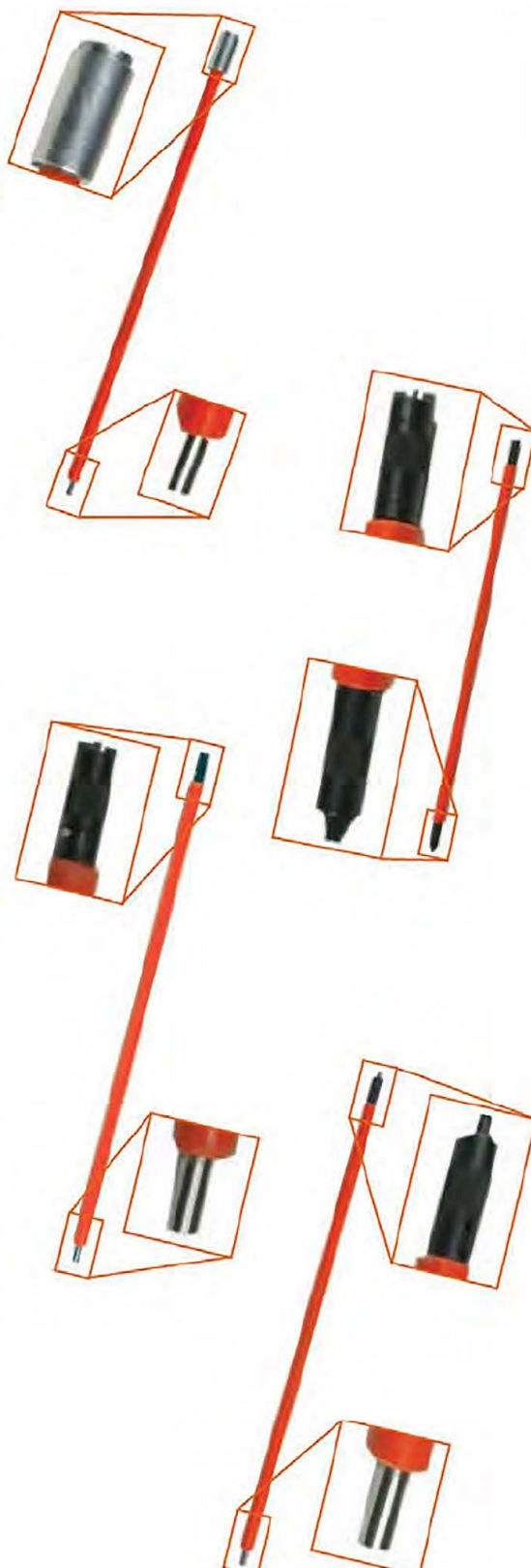
CAT. NO.	DESCRIPTION
S27400-6	6" Double end screw starter phillips at one end and slotted at the opposite end
S27400-12	12" Double end screw starter phillips at one end and slotted at the opposite end
S27400-18	18" Double end screw starter phillips at one end and slotted at the opposite end

### SLOTTED SCREW STARTER WITH MAGNET

CAT. NO.	DESCRIPTION
S27500-6	6" Slotted screw starter with 1-1/2 lbs pickup magnet on opposite side
S27500-12	12" Slotted screw starter with 1-1/2 lbs pickup magnet on opposite side
S27500-18	18" Slotted screw starter with 1 1/2 lbs pickup magnet on opposite side

### PHILLIPS SCREW STARTER WITH MAGNET

CAT. NO.	DESCRIPTION
S27700-6	6" Phillips screw starter with 1-1/2 lbs pickup magnet on opposite side
S27700-12	12" Phillips screw starter with 1-1/2 lbs pickup magnet on opposite side
S27700-18	18" Phillips screw starter with 1-1/2 lbs pickup magnet on opposite side



## INSPECTION MIRRORS



Pickup Magnet with  
1-1/2 LBS Pulling Capacity at  
each Mirror End



### INSPECTION • MIRRORS

CAT. NO.	DESCRIPTION
S276A2 6	7/8" Circular Mirror, 6" OAL (Over All Length) with pickup magnet 1-1/2lbs pulling capacity at the other end
S276A2-12	7/8" Circular Mirror, 12" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276A2-18	7/8" Circular Mirror, 18" OAL with pickup magnet 1-1/2lbs pulling capacity at the other end
S276E2 6	1-1/4" Circular Mirror, 6" OAL with pickup magnet 1-1/2 lbs pulling capacity
S276E2 12	1-1/4" Circular Mirror, 12" OAL with pickup magnet 1-1/2 lbs pulling capacity
S276E2-18	1-1/4" Circular Mirror, 18" OAL with pickup magnet 1-1/2 lbs pulling capacity
S276C2 6	2-1/4" Circular Mirror, 6" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276C2 12	2-1/4" Circular Mirror, 12" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276C2-18	2-1/4" Circular Mirror, 18" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276S2-6	3-1/4" Circular Mirror, 6" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276S2 12	3-1/4" Circular Mirror, 12" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276S2-18	3-1/4" Circular Mirror, 18" OAL with pickup magnet 1-1/2lbs pulling capacity at the other end
S276K2-6	2-1/4 x 3-1/2" Rectangular Mirror, 6" OAL with pickup magnet 1-1/2 lbs pulling capacity
S276K2 12	2-1/4 x 3-1/2" Rectangular Mirror, 12" OAL with pickup magnet 1-1/2 lbs pulling capacity
S276K2-18	2-1/4 x 3-1/2" Rectangular Mirror, 18" OAL with pickup magnet 1-1/2 lbs pulling capacity
S276B2 6	1 x 2" Oval Mirror, 6" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276B2-12	1 x 2" Oval Mirror, 12" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end
S276B2-18	1 x 2" Oval Mirror, 18" OAL with pickup magnet 1-1/2 lbs pulling capacity at the other end

## NON-SPARKING & NON MAGNETIC SAFETY TOOLS

**SPECIFICALLY DESIGNED TO ELIMINATE THE RISK OF DANGEROUS SPARKS.**

### NON-SPARKING & NON-MAGNETIC SAFETY TOOLS

SIP 1000v Tools is proud to introduce the *New Non-Sparking & Non-Magnetic Insulated Hand Tools and Tool Kits*. This new introduction to the Insulated Hand Tool line are manufactured from special Aluminum-Bronze and Copper-Beryllium alloys for safe use in areas where hazardous, flammable, or combustible vapors, liquids, dusts, or residues may be present. These tools are also highly corrosion-resistant.

Aluminum bronze and copper beryllium non-sparking safety tools are specifically designed to eliminate the risk of sparks at sites where explosive atmospheres may be present.

Our safety tools are drop forged for the highest quality in hand tools. These corrosion-resistant tools are suitable for use in ship yards, laboratories and paper and pulp mills, as well as in the pharmaceutical, food product manufacturing and wine industries.

Every non-sparking & non-magnetic double insulated hand tool is rated for exposure up to 1000 VAC and dielectrically tested at 10,000 VAC. These tools meet or exceed ASTM 1505-07 and IEC 900 standards for insulated hand tools. These tools are necessary for compliance with OSHA 1910.333 (c)(2) and NFPA. These tools also meet CSA-2462 standards.

These tools utilize the same highly impact resistant insulating material as our established full line of insulated hand tools. The insulating material used is flame retardant and created with two-colors, making inspection easier and adding to the overall safety. If the yellow under layer is showing, the tool may no longer be insulated properly and should be considered for replacement and shall be removed from service.

Appropriate applications include industries where non-sparking safety tools are required. The non-magnetic feature of these alloys also make them ideal for working on special machinery with powerful magnets such as MRI machines, military demining and explosives.

### INDUSTRIES REQUIRING HAND TOOLS WITH NON-SPARKING PROPERTIES

#### MANUFACTURING INDUSTRIES:

- Alcohol Industries
- Ammunition, Missile & Explosives Plants
- Automotive Plants
- Breweries & Distilleries
- Chemical Manufacturing
- Flammable Materials Manufacturing
- Flour Mills
- Furniture Manufacturers (Varnish and Painting)
- Gas Plants
- Glue Factories
- Ink Industries
- Liquefied Petroleum Gases (LPG)
- Mining
- Nuclear Products
- Oil & Natural Gas Drilling, Refining & Handling
- Paint, Lacquer & Varnish Products
- Paper and Pulp Mills
- Petrochemicals
- Petroleum Refining
- Pharmaceutical Industries
- Pipeline Construction & Maintenance
- Plastic Manufacturing
- Sugar Mills
- Synthetic Fiber Manufacturing
- Wine Industries

#### TRANSPORTATION INDUSTRIES:

- Airports
- Railroads
- Shipyards
- Tankers
- Tanker Trucks
- Vessels
- Workboats

#### GOVERNMENT AGENCIES:

- Aircraft & Missile Plants
- Airport (Refueling & Maintenance Operations)
- Armed Forces
- Chemical, Biological, Radiological, Nuclear or Explosives Logistical Support Operational Equipment
- Fire Departments, Military Bases
- First Responders to Weapons of Mass Destruction, Firefighters, Public Safety Bomb Squads & Local Rescue Squads
- Hazardous Materials Handling & Clean-up
- Munitions Depots
- Nuclear Production & Waste
- Public Utilities: Gas, Electric & Telecommunication
- Waste Management
- Water Treatment Facilities

#### OTHER INDUSTRIES:

- Cleaning & Spraying Operations
- Confined Space Maintenance
- Explosive & Pyrotechnics
- Geophysical Exploration
- Grain Storage & Handling
- Hazardous Material Handling
- Maintenance & Service Operations
- Paint Spraying, Finishing & Booth Operations
- Packing Plants
- Propane Distributors & Bulk Plants
- Warehousing of all Hazardous Materials

### INDUSTRIES REQUIRING HAND TOOLS WITH NON-MAGNETIC PROPERTIES

- Aircraft Maintenance & Overhaul
- Aluminum & Other Metal Smelting
- Electronics Manufacturers
- Hospitals & Clinics Magnetic Resonance Imaging (MRI)
- MRI Maintenance
- Mine Sweepers
- Nuclear Products & Testing Machines
- Precision Magnetic Equipment
- Public Utilities: Gas, Electric & Telephone
- Radar Transmission Centers

### INDUSTRIES REQUIRING HAND TOOLS WITH CORROSION-RESISTANT PROPERTIES

- Boat Owners
- Chemical Manufacturing
- Desalinization Plants
- Food Product Manufacturing
- Laboratories
- Paper & Pulp Mills
- Petrochemicals
- Pharmaceutical Industry
- Plastic Manufacturing
- Shipyards
- Tankers, Vessels & Other Work Boats
- Wine Industry

**INTRODUCING  
OUR NEW RED  
COLOR**



**OFFERING A FULL LINE OF NON SPARK NON MAGNETIC TOOLS & TOOL KITS:**

**FOR ADDITIONAL INFORMATION ON OUR NON SPARK NON MAGNETIC TOOLS, PLEASE CONTACT US AT 716-812-1141 OR SALES@1000VTOOLS.COM**

- Box End Wrenches
- Open End Wrenches
- Hex Wrenches
- Ratcheting Wrenches

- Pliers
- Cutters
- Socket Wrenches
- Screwdrivers

- Sockets
- Spanner Wrenches
- Tool Kits and more

## NON-SPARKING & NON MAGNETIC SAFETY TOOLS



### NON-SPARKING & NON MAGNETIC BASIC ELECTRICIANS ROLL

CAT. NO.	DESCRIPTION
TK10NS	9 Piece Set Includes: 3/16" x 4" Slotted Screwdriver 1/4" x 6" Slotted Screwdriver 5/16" x 6" Slotted Screwdriver #2 x 4" Phillips Screwdriver #1 x 3" Phillips Screwdriver 8" Needle Nose Pliers 7-1/2" Diagonal Pliers 8" Lineman Pliers 10" Water Pump Pliers In a Tool Roll



### NON-SPARKING & NON MAGNETIC HYBRID TOOL KIT

CAT. NO.	DESCRIPTION
TK11HBNS	11 Piece Set Includes: 8" Lineman Pliers 8" Slip joint Pliers 6" Chain Nose Pliers 6" Diagonal Pliers 10" Water Pump Pliers 3/16" x 4" Slotted Screwdriver 1/4" x 4" Slotted Screwdriver 1/4" x 6" Slotted Screwdriver 5/16" x 6" Slotted Screwdriver #1 x 3" Phillips Screwdriver #2 x 4" Phillips Screwdriver In a Plastic Toolbox



### NON-SPARKING & NON MAGNETIC SCREWDRIVER SETS

CAT. NO.	DESCRIPTION
S23872NS	7 Piece Set Includes: 1/8" x 3" Slotted Screwdriver 3/16" x 4" Slotted Screwdriver 1/4" x 6" Slotted Screwdriver 5/16" x 6" Slotted Screwdriver #0 x 2 3/8" Phillips Screwdriver #1 x 3" Phillips Screwdriver #2 x 4" Phillips Screwdriver In a Tool Roll
S23873NS	11 Piece Kit Includes: 1/8" x 3" Slotted Screwdriver 3/16" x 4" Slotted Screwdriver 1/4" x 6" Slotted Screwdriver 5/16" x 6" Slotted Screwdriver 3/8" x 8" Slotted Screwdriver 3/8" x 12" Slotted Screwdriver #1 x 3" Phillips Screwdriver #2 x 4" Phillips Screwdriver #3 x 6" Phillips Screwdriver #4 x 6" Phillips Screwdriver In a Tool Roll



## NON-SPARKING & NON MAGNETIC SAFETY TOOLS

### NON-SPARKING & NON MAGNETIC OPEN END WRENCH SETS

CAT.NO.	DESCRIPTION
S241714NS	14 Piece SAE Open End Wrench Set Includes: 3/8" - 1-1/4" In a Tool Roll
S241713NS	13 Piece SAE Open End Wrench Set Includes: 1/4" - 1" In a Tool Roll
S241814NS	13 Piece Set Includes: Open End Wrenches 7mm-19mm In a Tool Roll
S241818NS	17 Piece Set Includes: Open End Wrenches 7mm- 24mm In a Tool Roll



### NON-SPARKING & NON MAGNETIC BOX END WRENCH SETS

CAT. NO.	DESCRIPTION
S241714-BNS	14 Piece SAE Box Wrench Set Includes: 3/8" - 1-1/4" In a Tool Roll
S241713-BNS	13 Piece SAE Box Wrench Set Includes: 1/4" - 1" In a Tool Roll
S241814-BNS	13 Piece Metric Box Wrench Set Includes: 7mm-19mm In a Tool Roll
S241818-BNS	17 Piece Metric Box Wrench Set Includes: 7mm-24mm In a Tool Roll



### NON-SPARKING & NON MAGNETIC HEX WRENCH TYPE "L" SET

CAT. NO.	DESCRIPTION
S261D214NS	14 Piece Hex Wrench Set Includes 1/16" - 1/2" Long Arm In a Tool Roll

### NON-SPARKING & NON MAGNETIC HEX WRENCH TYPE "L" SET

CAT. NO.	DESCRIPTION
S261D61DNS	12 Piece Hex Wrench Set Includes 1.5mm - 12mm Long Arm In a Tool Roll



### NON-SPARKING & NON MAGNETIC CLOSE QUARTER SOCKET SETS

CAT. NO.	DESCRIPTION
S204947NS	1/4" Drive 13 Piece SAE Socket Set Includes : 1/4" Drive Ratchet Wrench, 4" & 8" Flared Extensions, Regular Sockets 6pt 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16", 1/2 and 9/16". In a plastic case.
S204654NS	3/8" Drive 14 Piece SAE Socket Set Includes: 3/8" Drive Ratchet Wrench, 3" & 6" Flared Extensions. Regular Sockets 6pt 1/4, 5/16", 3/8", 7/16", 11/16", 3/4", 13/16" and 7/8". In a plastic case.
S204122NS	1/2" Drive 22 Piece SAE Socket Set Includes: 1/2" Drive Ratchet Wrench, 4" & 8" Flared Extensions, Regular Sockets 6pt 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2". In a plastic case.



## DEFINITIONS

**Arc Flash:** An arcing fault is the flow of current through the air between phase conductors or phase conductors and neutral or ground. An arcing fault can release tremendous amounts of concentrated radiant energy at the point of the arcing in a small fraction of a second resulting in extremely high temperatures, a tremendous pressure blast and shrapnel hurling at high velocity.

**ASTM:** American Society for Testing and Materials

**Arc Thermal Performance Value (ATPV):** This value is presented in calories per square centimeter and represents the maximum capability for arc flash protection of a particular garment. This rating also applies to fabrics; however, a garment made from more than one layer of arc flash rated fabric will have a calorie per square centimeter rating greater than the sum of the ATPV ratings of the original fabrics. The calories per square centimeter rating of most arc flash protection suits, coveralls and coats is commonly sewn into the fabric in large letters on the outside of the garment.

**Calories per Centimeter Squared (cal/cm<sup>2</sup>):** This is a number identifying the amount of energy that can be delivered to a Point at a particular distance from an arc flash. Once this value is known, the ATPV rating of the flash clothing required for work at that distance from the potential flash hazard is also known. See ATPV.

**Calorie:** A calorie is the energy required to raise one gram of water one degree Celsius at one atmosphere. The onset of second-degree burns may occur at 1.2 calories per centimeter squared per second. One calorie per centimeter squared per second can be equal to holding your finger over the tip of the flame of a cigarette lighter for one second.

**De-energized:** Free from any electrical connection to a source of potential difference and from electrical charge; not having a potential different from that of the earth.

**Electrical Hazard:** A dangerous condition such that contact or equipment failure can result in electric shock, arc flash burn, thermal burn, or blast.

**Electrical Safety:** Recognizing hazards associated with the use of electrical energy and taking precautions so that hazards do not cause injury or death.

**Electrically Safe Work Condition:** A state in which the conductor or circuit part to be worked on or near has been disconnected from energized parts, locked/tagged in accordance with established standards, tested to ensure the absence of voltage and grounded if determined necessary.

**Energy Breakopen Threshold (EBT):** Primarily, this addresses the physical strength of the fabric with respect to thermal energy and at what arc-flash value the fabric will fail.

**Flame-Resistant (FR):** The property of a material whereby combustion is prevented, terminated, or inhibited following the application of a flaming or non-flaming source of ignition, with or without subsequent removal of the ignition source.

**Flash Hazard:** A dangerous condition associated with the release of energy caused by an electric arc.

**Flash Hazard Analysis:** A study investigating a worker's potential exposure to arc-flash energy, conducted for the purpose of injury prevention, the determination of safe work practices and the appropriate levels of PPE.

**Flash Protection Boundary:** An approach limit at a distance from exposed live parts within which a person could receive a second degree burn if an electrical arc flash were to occur.

**Flash Suit:** A complete arc rated clothing and equipment system that covers the entire body, except for the hands and feet. This includes pants, jacket and bee-keeper-type hood fitted with a face shield.

**IEEE:** The Institute of Electrical and Electronics Engineers (IEEE) (Note: IEEE1584 – 2002 Guide to Performing Arc-Flash Hazard Calculations).

**Incident Energy:** The amount of energy impressed on a surface, a certain distance from the source, generated during an electrical arc event. One of the units used to measure incident energy is calories per centimeter squared (cal/cm<sup>2</sup>).

**Limited Approach Boundary:** An approach limit at a distance from an exposed live part within which a shock hazard exists.

**NEC The National Electrical Code:** The NFPA Standard 70-2005 "The National Electrical Code" (NEC) (Note: paragraph 110.16 contains requirements for warning labels).

**NFPA:** The National Fire Protection Association.

**NFPA 70E Standard:** Standard that provides guidance on implementing appropriate work practices that are required to safeguard workers from injury while working on or near exposed electrical conductors or circuit parts that could become energized.

**OSHA:** Occupational Safety and Health Administration.

**OSHA 29 CFR 1910, Subpart S-Electrical:** Occupational Safety and Health Standards. Section 1910 Subpart S-Electrical Standard number 1910.333 specifically addresses Standards for Work Practices.

**Personal Protective Equipment (PPE):** Categories defined by NFPA 70E to explain protection levels needed when performing tasks. The values range from -1 to 4. ATPV rated PPE is required for categories 1 through 4 as follows:

- Category 1: 4 cal/cm<sup>2</sup>
- Category 2: 8 cal/cm<sup>2</sup>
- Category 3: 25 cal/cm<sup>2</sup>
- Category 4: 40 cal/cm<sup>2</sup>

**Prohibited Approach Boundary:** An approach limit at a distance from an exposed live part within which work is considered the same as making contact with the live part.

**Restricted Approach Boundary:** An approach limit at a distance from an exposed live part within which there is an increased risk of shock, due to electrical arc over combined with inadvertent movement, for personnel working in close proximity to the live part.

**Shock Hazard:** A dangerous electrical condition associated with the possible release of energy caused by contact or approach to energized parts.

**Voltage, Nominal:** A nominal value assigned to a circuit or system for the purpose of conveniently designating its voltage class. The actual voltage at which a circuit operates can vary from the nominal within a range that permits satisfactory operation of equipment.

**Working Near (live parts):** Any activity inside a limited approach boundary.

**Working On (live parts):** Coming in contact with live parts with the hands, feet, or other body parts, with tools, probes, or with test equipment, regardless of the personal protective equipment a person is wearing.

## LIMITED WARRANTY

***Return Goods Policy:***

*Authorization for the return of merchandise must be obtained in writing from Seller. A restocking charge of 25% will apply on all material returned for credit, provided such goods are in salable condition. Custom products, discontinued items, specialty items, etc., may not be returned for credit. Products may not be returned more than 12 months after the original sale. Return Authorization must be returned to Seller within 30 days of the authorization date. The buyer is responsible for freight.*

***Inspection and Acceptance:***

*Unless other acceptance criteria have been agreed to by the Parties under this Agreement the Buyer will inspect Products within a reasonable period after delivery not to exceed 30 calendar days. Products will be presumed accepted unless Seller receives written notice of rejection explaining the basis for rejection within the same timeframe. Seller will have a reasonable opportunity to repair or replace rejected products at its option.*

*Seller does not accept cancellations of orders for custom or specially manufactured products, or for non-stocked, long lead time products after Seller receives order confirmation.*



***WE TAKE YOUR SAFETY SERIOUSLY***

## **We are your complete safety solution.**

We have everything you need to meet the NFPA 70E Standards and OSHA 29 1910.269 Regulations. Which have been established to protect workers from electrical shock and arc flash hazards. For example, the NFPA 70E Standard specifies areas in which arc flash protection is required for workers. All personnel within the defined boundaries must wear specified protective equipment, even on circuits as low as 50 volts. The NFPA 70E Standard and OSHA Regulations MUST be met, and 1000v Tools, LLC has made it easy to meet them.

**SIP1000vTools.com**

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