Speed Systems

Quality Tools
Power

for
Installing
Cable
Systems

Quality
Tools
Installing
Power Cable
Systems

Speed Systems

Speed Systems has been manufacturing quality, field-tested products since 1970. Our tools are designed and built in our manufacturing facility in Brookfield, Wisconsin.

We focus on safety, efficiency, ergonomics and value as we design and build tools to meet specific customer needs. We offer solutions for preparing primary and secondary cable for termination, as well as products for installing specific cable system components.

We take pride in supplying high quality tools and look forward to working with you on your specific applications or needs.

Contents

NEW
Tools

2900-LS

The Model 2900-LS Stick Operable Aerial Tree Wire and Spacer Cable Insulation Stripper provides a stick operable means for removing insulation on 5kV through 35kV aerial tree wire and spacer cable.

- Stick Operable
- Works on 5kV, 15kV, 25kV and 35kV
- Aerial Tree Wire and Spacer Cable
- Adjustable blade depth for insulation up to 300 mils
- No bushings required
- Field-replaceable blade
- Unlimited strip length
- Reversible positioning jaw for large or small cables
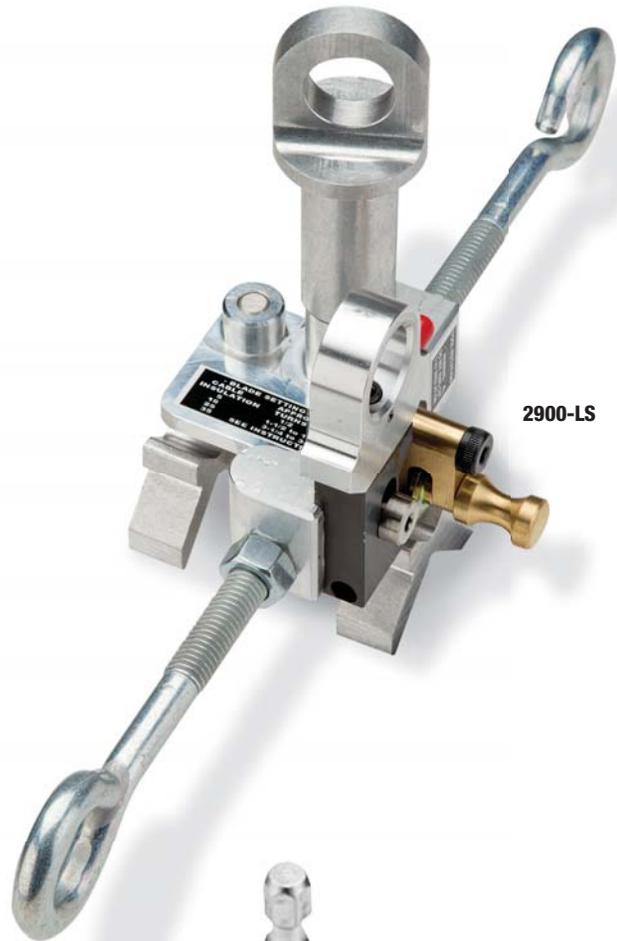
2900-LS

2750-DO

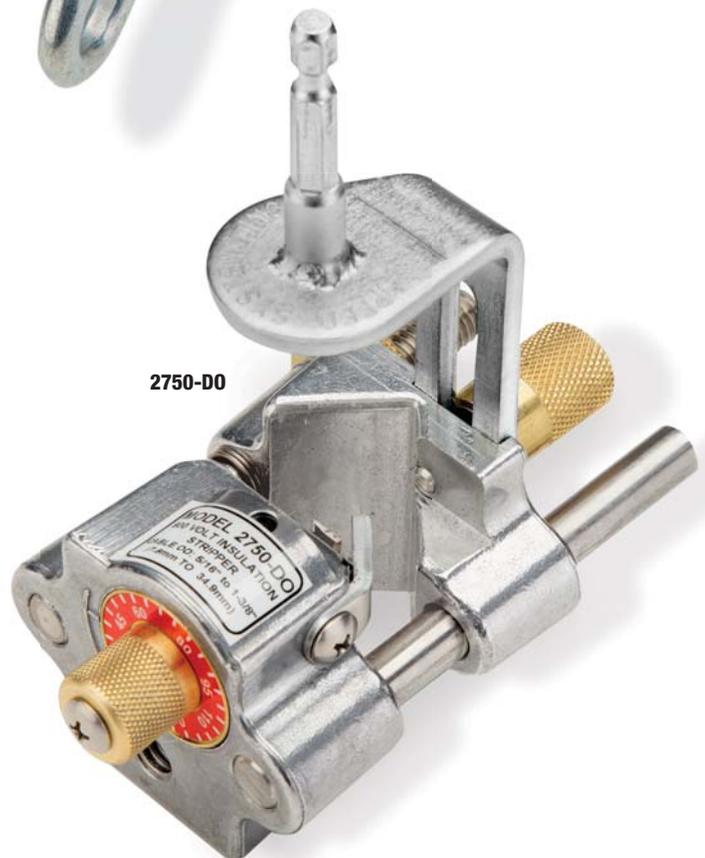The Model 2750-DO Secondary Cable Stripper is a drill-operated version of our standard Model 2750 designed to end-strip 600V cable. No bushings are required to adjust the tool to varying cable diameters and insulation thickness.

- Drill Operated
- No bushings required
- End strips 600V insulation (45 mil to 110 mil thickness)
- #4 thru 1000 MCM
- .075" to 3.5" stripback length

2750-DO

2750-DO

Primary
Cable Prep

NW-15 - 15/25kV Neutral Winder
*For cable 1" to 2-1/2" O.D.
(24.4 - 63.5 mm)*

Underground • Jacket Removal

Neutral Winder

The Neutral Winder is designed to remove the outer jacket on underground power cable with embedded neutral wires. The end of one of the neutral wires is inserted through the center cross-hole and is wound up as it is pulled through the jacket as the tool is rolled along the axis of the cable. This method of jacket removal reduces neutral wire damage or breakage while splitting the outer jacket.

The Neutral Winder will not work on jacketed cable that has a ripcord or with a Mylar, plastic or tape layer between the neutral wire and the jacket.

The tool includes a 3/8" drive in the hub.

NW-35 - 35kV Neutral Winder
*For cable 2-1/4" to 3-1/2" O.D.
(57.2 - 88.9 mm)*

Underground • Jacket Removal

LPW-N Series Probe Wrenches

The LPW1525/TK120X-N and LPW35R/TK120XN combine the torque limiting probe installation features of the LPW Series Loadbreak Probe Wrench with an added Neutral Winding Grove and cross hole providing neutral winding capability for removal of the outer jacket.

The Neutral Winder will not work on jacketed cable that has a ripcord or with a Mylar, plastic or tape layer between the neutral wire and the jacket.

The Neutral Winder reduces neutral wire damage or breakage while splitting the outer jacket.

The LPW1525/TK120XN fits all 15kV and 25kV elbows and Elastimold 35kV elbows.

The LPW35R/TK120XN only fits the large interface Eaton (Cooper/RTE) and Hubbell (Chardon) 35kV elbows.

(Left)
LPW1525/TK120X-N
Combination Tool with Neutral Winder

(Right)
LPW35R/TK120X-N
Combination Tool with Neutral Winder

Underground • Insulation Removal

1542-2CL Series

1542-2CL Series Insulation Strippers
Cable O.D. Range 1/2" to 1-3/4" (12.7 - 44.5 mm)

The 1542-2CL Series Stripper is designed to remove PE, XLP, EPR and other types of insulation from power cable.

The tool provides precise blade depth adjustment and maximizes the reliability of installation.

No bushings are required.

KV Class / Conductor Size
- 5kV / 1000 MCM and smaller
- 15kV / 750 MCM and smaller
- 25kV / 350 MCM and smaller
- 35kV / 3/0 and smaller

For larger cables refer to Mark I, Mark II and Mark III tools.

1542-2CL - Speed Stripper
With Wedge Blade installed, spare Straight Blade

1542-2CL-1 - Speed Stripper
With Wedge Blade installed, spare Wedge Blade

1542-2CL-2 - Speed Stripper
With Straight Blade installed, spare Straight Blade

Underground • Insulation Removal

1542-2AS Series Combination Strippers

1542-2AS Series Combination Strippers
Cable O.D. Range 1/2" to 1-3/4" (12.7 - 44.5 mm)

The 1542-2AS Series Stripper is designed to remove PE, XLP, EPR and other types of insulation from power cable, as well as score the cable's semi-conductive outer shield with precise accuracy.

The 1542-2AS combines the features of the 1542-2CL Speed Stripper and 1700 Semi-Con Scorer.

The tool provides precise blade depth adjustment and maximizes the reliability of installation.

No bushings are required.

KV Class / Conductor Size
- 5kV / 1000 MCM and smaller
- 15kV / 750 MCM and smaller
- 25kV / 350 MCM and smaller
- 35kV / 3/0 and smaller

For larger cables refer to Mark I, Mark II and Mark III tools.

1542-2AS - Combination Stripper
With Wedge Blade installed, spare Straight Blade

1542-2AS-1 - Combination Stripper
With Wedge Blade installed, spare Wedge Blade

1542-2AS-2 - Combination Stripper
With Straight Blade installed, spare Straight Blade

Primary
Cable Prep Continued

Underground • Insulation Removal

1542 Series Accessories

Speed Systems offers a complete line of replacement blades, tool stops and accessories.

1646X - Scale Gauge
Measures stripback

1590X - Small Cable Adapter
For cables 5/16" to ½"
(8.0 - 12.7 mm)

Split Handle
Optional folding handle
add S to catalog number
(i.e. 1542-2CL-1S)

2689 - Chamfering Tool/Scale Gauge
(2672 Replacement Chamfering Blade
(see page 11)
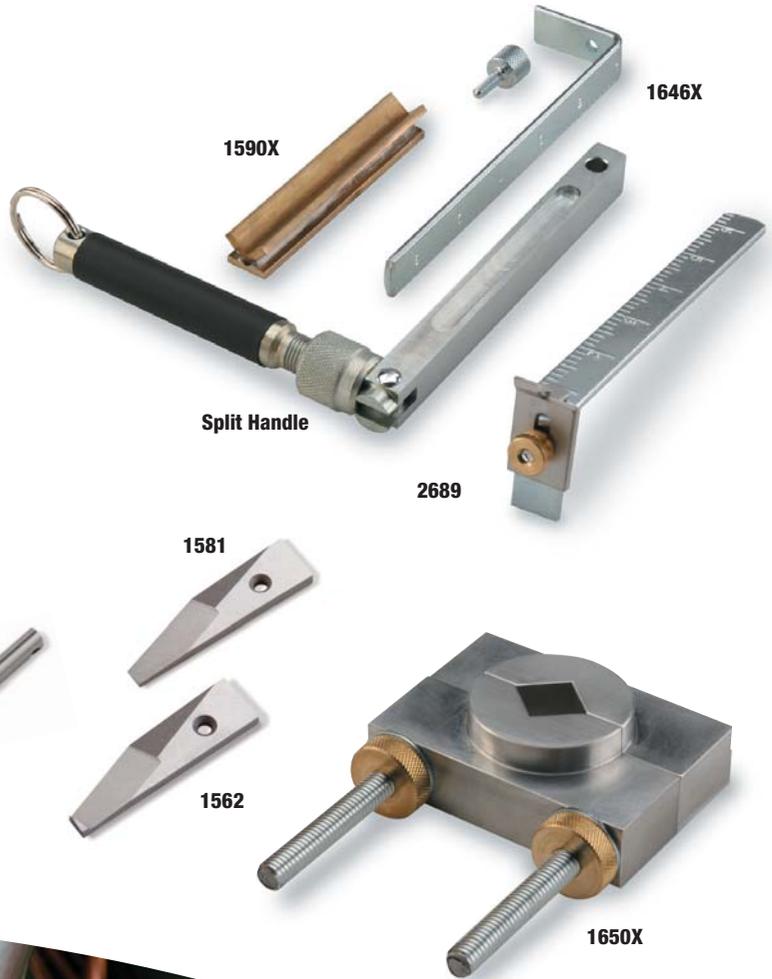
1562 - Wedge Blade
(XLP/EPR) (see page 11)

1581 - Straight Blade
Straight Blade (Kerite)
(see page 11)

1678 - Scoring Blade
(see page 11)

1650X - Tool Stop

1590X

1646X

Split Handle

2689

1581

1678

1562

1650X

Underground • Insulation Removal

Mark Series

The Mark Series Strippers combine heavy-duty design with precision components. Heat-treated rollers are angle mounted for better cable feed and reduced drag on the cable surface as the tool is rotated.

The adjustable side frames eliminate the need for sizing bushings or adapters, and are clamped to the cable with knurled thumb nuts.

A Tool Stop accessory is available to ensure an accurate square cut every time.

For cables with the semi-con bonded to the insulation, the AO13 blade is available to shave off the semi-con layer (see page 11).

Mark I
With AO11 Wedge Blade for Cable O.D. Range 3/4" to 2" (19.1 - 50.8 mm) Shown with Tool Stop Accessory (sold separately)

Mark II
With AO11 Wedge Blade for Cable O.D. Range 1-3/4" to 3" (44.5 - 76.2 mm) Shown with Tool Stop Accessory (sold separately)

Mark II-10
With AO10 Blade for 69kV - 138kV Cables for Cable O.D. Range 1-3/4" to 3" (44.5 - 76.2 mm) (not shown)

Mark III
With AO10 Blade for Cable O.D. Range 2-3/4" to 4" (69.9-101.6 mm) Includes Tool Stop Accessory

A010 - Large Blade
For 69kV – 138kV cables (only fits the Mark II-10 and Mark III tools (see page 11)
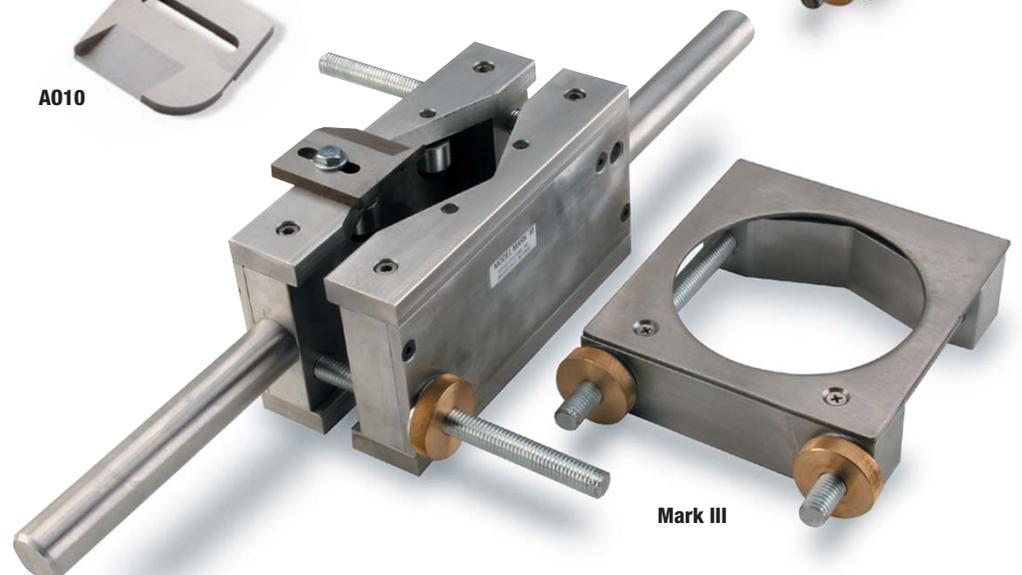
A011 - Wedge Blade
(see page 11)

A012 - Straight Blade
(see page 11)

A013 - Shaving Blade
For bonded semi-con (see page 11)

Mark I

Mark II

A011

A013

A012

A010

Mark III

Primary
Cable Prep Continued

Underground • Semi-Con Scoring

1700SS Adjustable Blade Series

Cable O.D. 1/2" to 2" (12.7 - 50.8 mm)

The 1700 Series Semi-Con Scorers have adjustable blade depth (.001" - .100") for scoring (scribing) the semi-conductive shield of medium voltage cable so the semi-con can be removed without nicking or damaging the cable insulation.

The tool switches between the square and spiral cutting functions without removing it from the cable. Leaf springs maintain constant pressure during operation.

1700-SS - Adjustable Blade Scorer
With square cut/spiral cut and dial locking set screw (shown)

1700-SS-LC - Adjustable Blade Scorer
With square cut/spiral cut and dial locking set screw - Saddle relief for close-in cut

1700-SS-LC

1700-SS

Underground • Semi-Con Scoring

1701 Fixed Blade Series

Cable O.D. 1/2" to 2" (12.7 - 50.8 mm)

The 1701 has a fixed blade depth for scoring (scribing) the semi-conductive shield of medium voltage cable so the semi-con can be removed without nicking or damaging the cable insulation.

The tool switches between the square and spiral cutting functions without removing it from the cable. Leaf springs maintain constant pressure during operation.

1701 - Fixed Blade Scorer
.023" blade depth

1701-1 – Fixed Blade Scorer
.028" blade depth

1701-2 – Fixed Blade Scorer
.033" blade depth

Consult the factory for other blade depths
Any blade depth from .010" to .095"
is available from the factory

1701

1678

1678 - Scoring Replacement Blades
All scoring tools (see page 11)

Underground • Semi-Con Scoring

1800SS Adjustable Blade Series

Cable O.D. 1-3/4" to 3" (44.5 - 76.2 mm)

The 1800 Series Semi-Con Scorers have adjustable blade depth (.001" - .100") for scoring (scribing) the semi-conductive shield of medium voltage cable so the semi-con can be removed without nicking or damaging the cable insulation.

The tool switches between the square and spiral cutting functions without removing it from the cable. Coil springs maintain constant pressure during operation.

1800SS - Adjustable Blade Scorer
With square/spiral cut - dial locking set screw (shown)

1800-SS-LC - Adjustable Blade Scorer
With square cut/spiral cut and dial locking set screw - Saddle relief for close-in cut

1800SS

Underground • Semi-Con Scoring

1801 Fixed Blade Series

Cable O.D. 1-3/4" to 3" (44.5 - 76.2 mm)

The 1801 has a fixed blade depth for scoring (scribing) the semi-conductive shield of medium voltage cable so the semi-con can be removed without nicking or damaging the cable insulation.

The tool switches between the square and spiral cutting functions without removing it from the cable. Coil springs maintain constant pressure during operation.

1801 - Fixed Blade Scorer
*Specify blade depth -
Any blade depth from .010" to .095"
is available from the factory*

Primary
Cable Prep Continued

Underground • Chamfering Tools

CT Series

Chamfering Tools cut a 45 degree bevel on the cable insulation to ease installation into molded rubber components.

The CT Series tools are adjustable, with no bushings or adapters required.

The 2689 Chamfering Tool/Scale Gauge fits the 1542 Series Strippers to provide both scale gauge and chamfering capabilities.
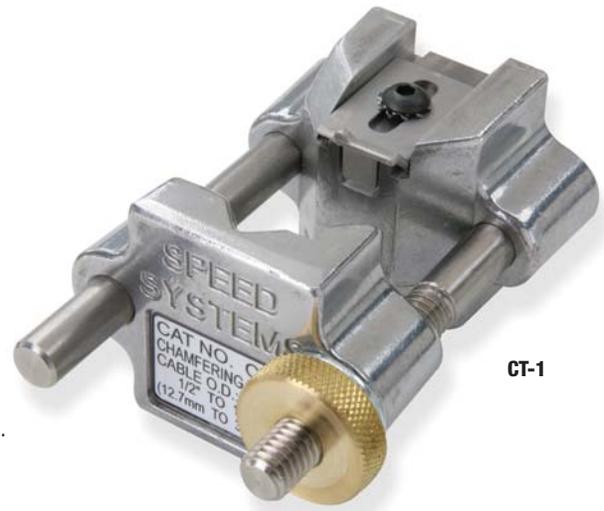
CT-1 - Chamfering Tool
For ½" to 1-3/8" cables
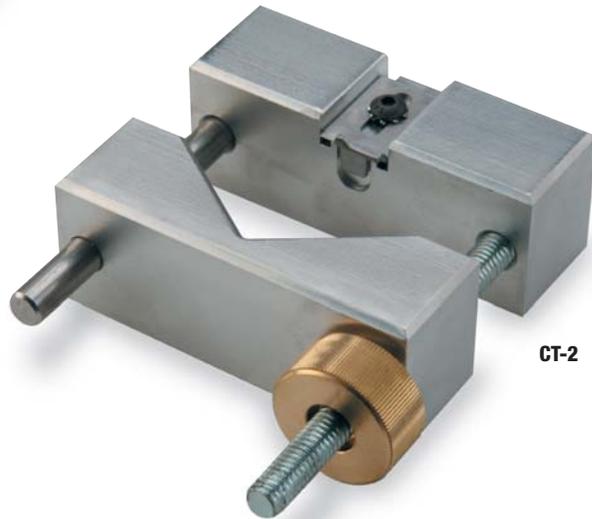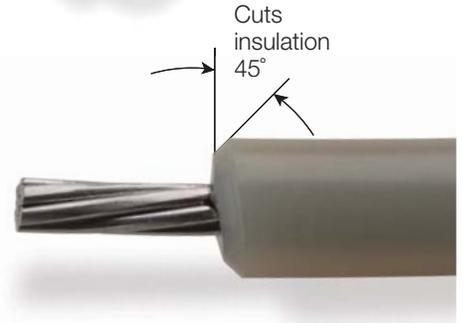*(12.7 - 34.9 mm)*

CT-2 – Chamfering Tool
For 1-1/4" to 2-3/4" cables
(31.8 - 69.9 mm)

2689 - Chamfering Tool/Scale Gauge
(2672 Replacement Chamfering Blade
(see page 11)

2672 - Replacement Blade
(see page 11)

CT-1
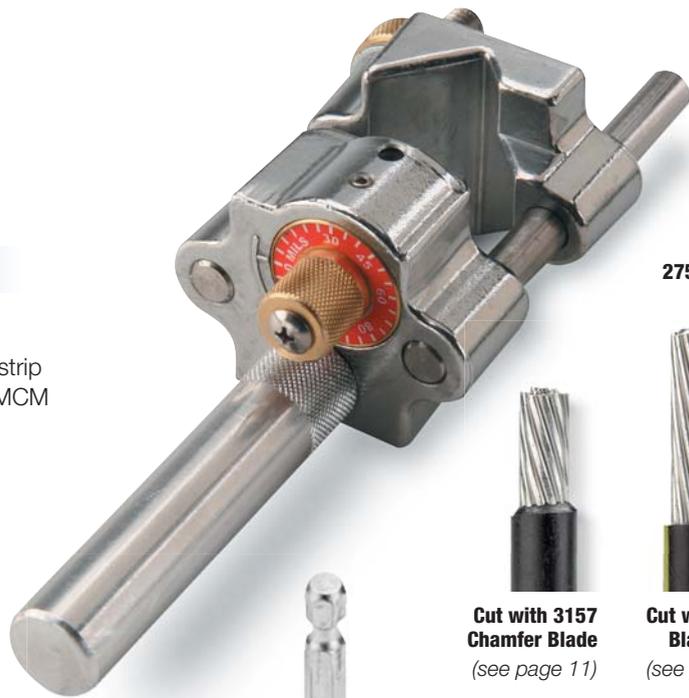
Cuts insulation 45°

2689

CT-2

Secondary
Cable Prep

Underground End Strip

2750

Cable OD .31" to 1.375" (7.9 - 33.3 mm)

The Model 2750 Secondary Cable Stripper is designed to end-strip 600V cable. The tool is adjustable and strips #4 through 1000 MCM cable with 45 mil through 110 mil insulation thickness with no bushings required. It has an unlimited strip length.

2750

3157 - Replacement Chamfer Blade
(see page 11)

2781 - Replacement Blade
(see page 11)

Cut with 3157 Chamfer Blade
(see page 11)

Cut with 2781 Blade
(see page 11)

2750-DO

Cable OD .31" to 1.375" (7.9 - 33.3 mm)

The Model 2750-DO Secondary Cable Stripper is a drill-operated version of our standard Model 2750 that designed to end-strip 600V cable. No bushings are required to adjust the tool to varying cable diameters and insulation thickness.

Drill Operated. No bushings required. End strips 600V insulation (45 mil to 110 mil thickness). #4 thru 1000 MCM. 0.75" to 3.5" stripback length.
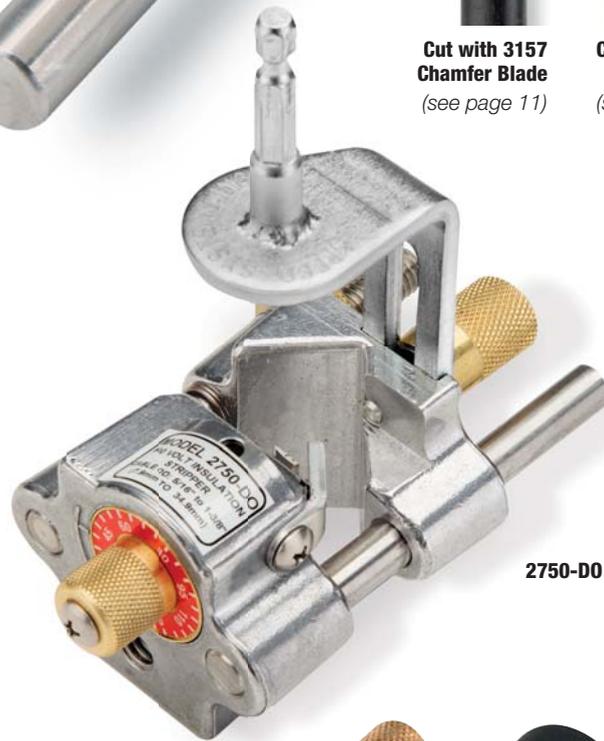
2750-DO

Underground End and Mid Span Strip

2850

Cable OD .31" to 1.375" (7.9 - 33.3 mm)

The Model 2850 Secondary Cable Stripper is designed to both end-strip and mid-span strip 600V cable. The tool is adjustable and strips #4 through 1000 MCM cable with 45 mil through 110 mil insulation thickness with no bushings required. It has an unlimited strip length.

2850 - Secondary Mid-Span Stripper

2850S – Secondary Mid-Span Stripper
Cable OD .31" to .72" (7.9 - 18.3 mm)
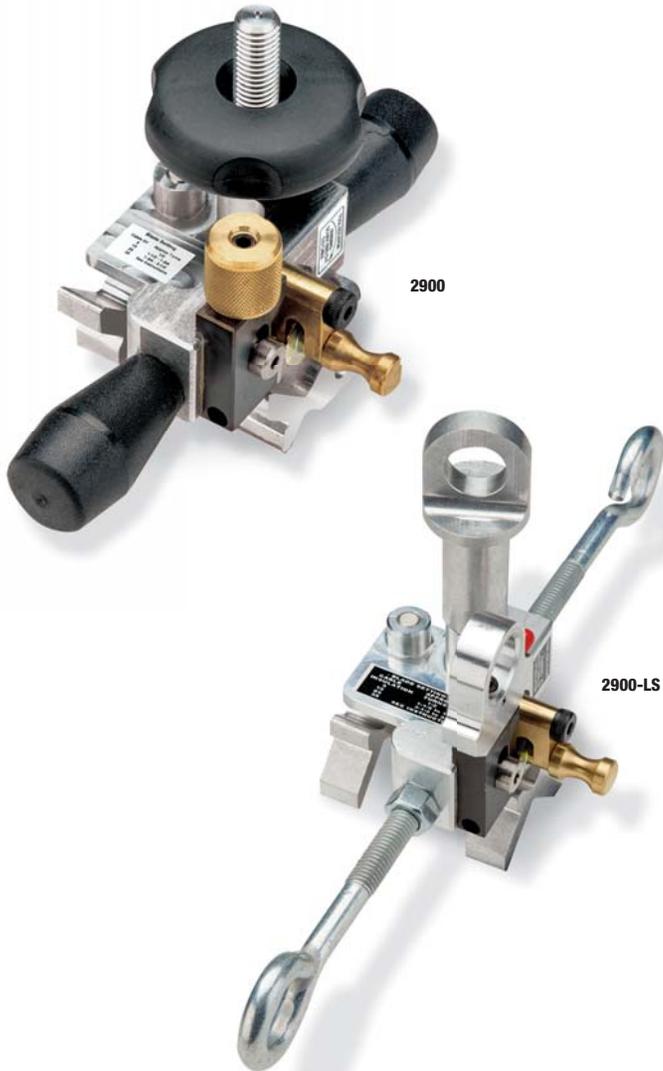*Short Version for use in cable spacer or with limited workspace (not shown)*

2787 - Replacement Blade
(see page 11)

2850

Specialty
Cable Prep

2900

2900-LS

Aerial Tree Wire and Spacer Cable

2900 Series

The Model 2900 Aerial Tree Wire and Spacer Cable Stripper performs both end strip and mid-span strips on 5kV through 35kV Aerial Tree Wire and Spacer Cables.

The tool is fully adjustable and requires no bushings. The blade adjusts for insulation up to 300 mils thick and is field replaceable.
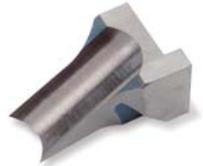
The 2900 Series Aerial Tree Wire and Spacer Cable Strippers allow unlimited strip length.

2900 - Aerial Tree Wire/Spacer Cable
Insulation Stripper
(includes both long and short handles)

2872 - Replacement Blade
(see page 11)

## Aerial Tree Wire and Spacer Cable

2900-LS

The Model 2900-LS Stick Operable Aerial Tree Wire and Spacer Cable Insulation Stripper provides a stick operable means for removing insulation on 5kV through 35kV aerial tree wire and spacer cable.

Stick Operable Works on 5kV, 15kV, 25kV and 35kV Aerial Tree Wire and Spacer Cable with adjustable blade depth for insulation up to 300 mils. No bushings required. Field-replaceable blade. Unlimited strip length. Reversible positioning jaw.

3050 Series

Speed Systems Covered Tap Wire Strippers are specifically designed to perform end and mid-span strips on covered tap wire. Cable samples may be required to ensure the tool is properly sized for the specific cable being stripped.
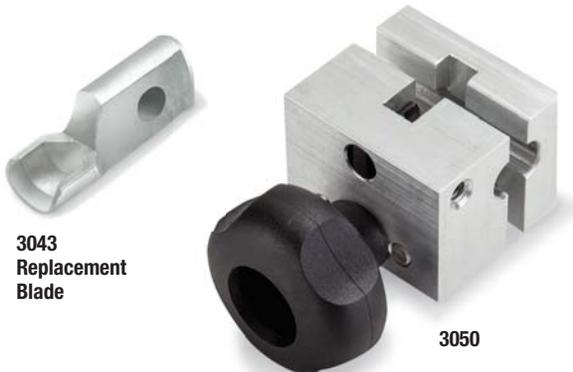
3043 Replacement Blade

3050

3050 Covered Tap Wire Strippers (Available Configurations)

In the example below, the part number 3050 #4 150SLD-H refers to a tool for stripping Hendrix #4 solid conductor wire with 150 mils of insulation.

Tool Series Number	Insulation Thickness	Cable Manufacturer
3050	#4	150	SLD	H

Conductor Size | Conductor Type
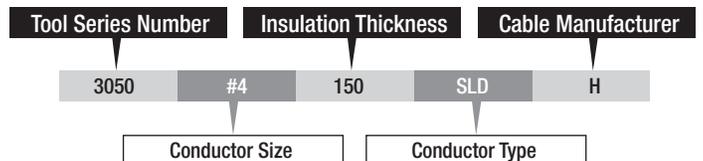
Part Number Options

Conductor Size	Insulation Thickness	Conductor Type	Cable Manufacturer
#6	110	SLD	H=Hendrix
#4	150	STR	S=Southwire
#2			N=Nehring
1/0			
4/0			

Blades

1542 Series Blades

1562 Wedge Blade

The 1562 Wedge Blade has a small foot at the bottom of the blade to assist in lifting the insulation away from the conductor as you strip the cable. The 1562 Wedge Blade is the correct choice for almost all applications. We normally recommend using the Straight Blade only if the Wedge Blade is unable to strip your specific cable. This is typically only true when stripping extremely soft EPR insulated cables. Virtually all XLP and most EPR cables can be stripped using the 1562 Wedge Blade.

1581 Straight Blade

The 1581 Straight Blade is typically only required when stripping very soft EPR (Kerite brand) insulated cables.

1562　　　　1581

Mark Series Stripping Blades

A010 Large Blade

*Only used on the Mark II-10 and Mark III strippers.
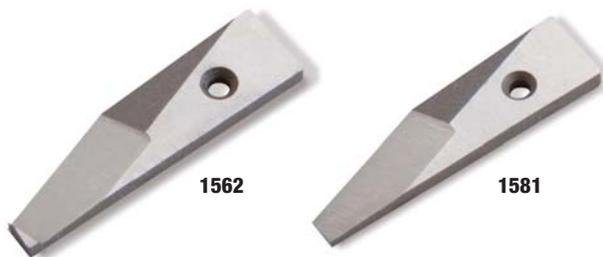It is designed to strip 69kV to 138kV cables. It has a larger web than the standard AO11 blade to provide additional strength when stripping the thicker insulation of those cables.*

A011 Wedge Blade

Has a small foot at the bottom of the blade to assist in lifting the insulation away from the conductor as you strip the cable. The AO11 Wedge Blade is the correct choice for almost all applications. We normally recommend using the Straight Blade only if the Wedge Blade is unable to strip your specific cable. This is typically only true when stripping extremely soft EPR insulated cables. Virtually all XLP and most EPR cables can be stripped using the AO11 Wedge Blade.

A012 Straight Blade

Typically only required when stripping very soft EPR (Kerite brand) insulated cables.

A013 Semi-Con Shaving Blade

Fits on all of the Mark Series Strippers. It is used to shave off the semi-conductive layer on those cables with bonded semi-con. Some sanding is likely necessary after shaving bonded semi-con.

A013　　　A011

A010

A012

Aerial Tree Wire/Spacer Cable Blade

The 2872 Blade is used on all versions of the Model 2900 Aerial Tree Wire and Spacer Cable Stripper.

2872

1678 Scoring Blade

1678 Scoring Blade is used on all Speed Systems Semi-Con Scorers and the semi-con scorer of the 1542-2AS.

1678
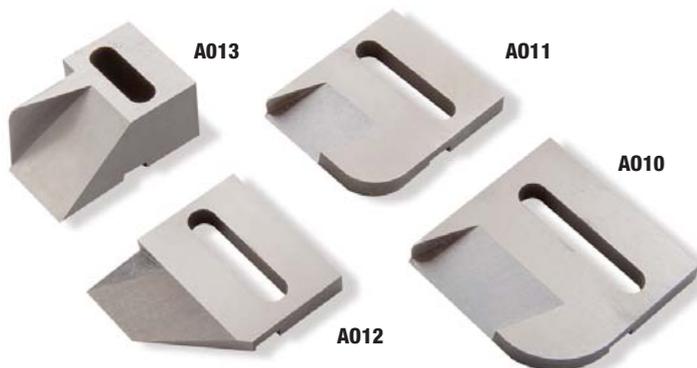
2672 Chamfering Blade

2672 Chamfering Blade is used in the CT-1, CT-2 and 2689 to cut a small bevel on the edge of the insulation to ease insertion into molded rubber components.

2672

Secondary Stripping Blades

2781 Blade
The 2781 Blade is used in the 2750 Adjustable Secondary End Stripper

3157 Blade
The 3157 blade provides a chamfer option in the 2750 Adjustable Secondary End Stripper

2787 Blade
The 2787 Blade is used in the 2850 Adjustable Secondary End and Mid-Span Secondary Stripper

2781

2787

3157

Torque
Tools

Bushing Insert Tools - 200A

BIT/E180 Series

The BIT/E180 Series Bushing Insert Tool provides preset torque for installation and removal of bushing inserts with a 5/16" internal hex socket. Available in both T-Handle (AT) and OP eye (AH) versions. The torque limiter locks while reversing to allow the tool to be used to remove bushing inserts.

BIT/E180AT

Bushing Insert Tool with Torque Limiter and T-Handle 5/16" hex shaft

BIT/E180AH

Bushing Insert Tool with Torque Limiter and Operating Eye 5/16" hex shaft

BIT/E180AT

BIT/E180AH

BIT/TK Series

The Bushing Insert Tool is designed to provide operating personnel with an effective and reliable means of installation and removal of bushing inserts, especially those without an internal 5/16" socket. The tool has a nut to allow use of a wrench for removing bushing inserts.

The -N version is for use on non-loadbreak bushings only.

BIT/TK120X-Q

Bushing Insert Tool with TorKey Fits loadbreak bushing inserts (shown)

BIT/TK120X-N

BIT/TK120X-N - Bushing Insert Tool with TorKey Fits deadbreak bushing inserts (not shown)

TK120S

Replacement torque limiter

BIT/TK120X-Q

Bushing Insert Tools - 600A

LRTP Series

The LRTP Series Bushing Insert Tool provides preset torque for installation and removal of 600A reducing tap plug bushings with a 5/16" and/or 3/8" internal hex socket requiring 20 ft-lbs of torque. The torque limiter locks when reversing, allowing the tool to be used for bushing removal. Consult component manufacturer for torque requirements.

LRTP/TK240AT

Bushing Insert Tool for 600A LRTP with T-Handle and 240 in-lb torque limiter

LRTP/TK240AH

Bushing Insert Tool for 600A LRTP with op eye and 240 in-lb torque limiter

LRTP/TK240AT   **LRTP/TK240AH**

LRTP/TK55 Series

The LRTP Series Bushing Insert Tool provides preset torque for installation and removal of 600A reducing tap plug bushings with a 5/16" and/or 3/8" internal hex socket requiring 50 to 60 ft-lbs of torque. Can also be used for bushing removal. Consult component manufacturer for torque requirements.

LRTP/TK55

Bushing Insert Tool for 600A LRTP with 55 ft-lb torque limiter and 1/2" drive

LRTP /TK55-38S

Bushing Insert Tool for 600A LRTP with 55 ft-lb torque limiter, 3/8" shaft and 1/2" drive

LRTP/TK55H

Bushing Insert Tool for 600A LRTP with 55 ft-lb torque limiter and OP Eye

LRTP/TK55   **LRTP/TK55H**

TPH-1 Tap Plug Holder

The TPH-1 600A Tap Plug Holder provides a means of holding a 600A component in position on the torquing tool shaft when installing or removing the component in hard to reach locations.

The LRTP shaft fits through the TPH-1 and into the insert to hold the insert snugly when installing the component in a vertical position.

TPH-1 – Tap Plug Holder

600A Accessories

The LRTP-12 provides for installation and removal of 600A reducing tap plug bushings with a 5/16" internal hex socket. The LRTP-12 requires a separate torque wrench.

The TW516-13 and W516-13 provides a 5/16" hex shaft available with or without T-Handle for installing T-OP II components.

LRTP-12
Shaft only with 1/2" drive

LRTP-12-38S
3/8" shaft only with 1/2" drive

W516-13
5/16" shaft with 3/8" drive (not shown)

W516-13
5/16" shaft with 3/8" drive (not shown)

TW516-13   **LRTP-12**

Torque
Tools Continued

Loadbreak Probe Tools

LPW1525 Series

The LPW1525/TK120X and LPW-1525/TK120X-N Combination Loadbreak Probe Wrench provide a means of preventing probe arc follower contamination and other damage when installing the probe into a loadbreak elbow. The tool holds the loadbreak probe for positioning into the threaded eye of the elbow crimp connector.

The torque limiter is preset and is rotated until the Tor-Key clicks, indicating that the preset torque has been reached.

The LPW1525/TK120X-N adds a neutral winding groove and cross hole option to reduce neutral wire breakage when splitting the outer jacket.

The LPW1525 Loadbreak Probe Wrench is a standalone probe wrench with a ¼" square drive for use with the TK-120 Tor-Key.

The LPW1525 Series tools fit all 15kV and 25kV elbows and Elastimold 35kV elbows.

LPW1525/TK120X-N
Combination Tool with Neutral Winder

LPW1525/TK120X
Combination Tool

LPW1525
Probe Wrench only for use with 1/4" square drive

TK120
Torque limiter with 1/4" square drive

TK120S
Replacement torque limiter with 3/8" round stub (not shown)

LPW35R Series

The LPW35R/TK120X and LPW-35R/TK120X-N Combination Loadbreak Probe Wrench provide a means of preventing probe arc follower contamination and other damage when installing the probe into a loadbreak elbow. The tool holds the loadbreak probe for positioning into the threaded eye of the elbow crimp connector. The torque limiter is preset torque and is rotated until the Tor-Key clicks, indicating that the preset torque has been reached.

The LPW35R/TK120X-N adds a neutral winding groove and cross hole option to reduce neutral wire breakage when splitting the outer jacket.

The LPW35R Series tools only fit Eaton (Cooper/RTE) and Hubbell (Chardon) 35kV elbows.

LPW35R/TK120X-N
Combination Tool with Neutral Winder

LPW35R/TK120X
Combination Tool

TK120S
Replacement torque limiter with 3/8" round stub (not shown)

DPW1525 - Deadbreak Probe Tool

The DPW1525 provides a means for installing deadbreak elbow probes. The tool features a built-in, pre-set torque limiter that provides consistency of probe tightness.

DPW-1525
Deadbreak Probe Wrench

LPW1525/TK120X-N

LPW1525/TK120X

TK120

LPW1525

LPW35R/TK120X-N

LPW35R/TK120X

DPW-1525

Elbow & Cap
Pulling Tools

PT-1525

(U.S. Patent Number(s): US 6,922,888 B2)

The PT-1525 Elbow/Cap Pulling Tool is designed to assist in the removal of seized elbows and protective caps. The tool is used with a standard shotgun stick.

The PT-1525's lever action provides a significant mechanical advantage over other means of pulling elbows and caps.

The tool includes a high-dielectric rope and a carrying bag.

The PT-TXS is a shorter version of the PT-TX adapter for use pulling elbows on 600A T-Bodies.

PT-1525
Elbow/Cap Pulling Tool

PT-TXS
T-Body Bridge only

PT-1525

PT-TXS

PT-35

(U.S. Patent Number(s): US 6,922,888 B2)

The PT-35 Elbow/Cap Pulling Tool is designed to assist in the removal of seized elbows and protective caps. The tool fits a standard shotgun stick. *The PT-35 fits Eaton (Cooper/RTE) and Hubbell (Chardon) 35kV elbows and caps.*

The PT-35's lever action provides a significant mechanical advantage over other means of pulling elbows and caps.

The tool includes a high-dielectric rope and a carrying bag.

The PT-35 is available in several configurations with reversible channels and multi-hole adjuster bars for use with the PT-TX 600A T-Body Bridge or 3133 PUSH-OP Adapter.

PT-TX

PT-35

PT-35
*Elbow/Cap Pulling Tool
with standard channel
and adjuster bar (shown)*

PT-35RTX
*Elbow and Cap Pulling Tool
With Reversible Channel/Multi-Hole
Adjustor Bar and Bridge for use
on 600 Amp T-Body (not shown)*

PT-35TX
*Elbow and Cap Pulling Tool
With Standard Channel/Multi-Hole
Adjustor Bar and Bridge for use
on 600 Amp T-Body*

PT-TX
T-Body Bridge only

PT-35B
*Elbow and Cap Pulling Tool With
Standard Channel/Multi-Hole Adjustor
Bar and 3133 PUSH-OP Adaptor*

3133
*Adapter for PUSH-OP
applications*

3133

Component Installation & Removal Tools

TAT – T-Body and Cable Adapter Tool

The TAT is designed to assist in the installation of 15 kV, 25 kV and 35 kV 600 Amp cable adapters and T-Bodies onto high voltage underground cable for deadfront apparatus. The tool includes a combination 3/4"/3/8" hex drive. The clamp fits #2 through 1000MCM cable (0.75" – 2.42").

The TAT is drill operable to provide a significant ergonomic benefit. The tool has a 7-1/8" stroke and moves one inch with just two revolutions of the driver.

TAT
Cable Adapter and T-Body Installation Tool
(includes carrying bag)

TAT

SAT

The SAT Splice Assembly Tool is designed to ease installation and assembly of 15 kV, 25 kV and 35 kV molded rubber splice components. The tool includes a combination 3/4"/3/8" hex drive. The clamp fits #2 through 1000MCM cable (0.75" – 2.42").

The arms grip splice sleeves from 1-1/2" through 3-3/8" OD.

The SAT is drill operable to provide a significant ergonomic benefit. The tool has a 15" stroke and moves one inch with just two revolutions of the driver.

SAT
Splice Assembly Tool
(includes carrying bag)

SAT

TAT/SAT

The TAT/SAT Combination Tool combines the features of the SAT Splice Assembly Tool and the TAT T-Body/Cable Adapter Tool. The tool includes a combination 3/4"/3/8" hex drive. The clamp fits #2 through 1000MCM cable (0.75" – 2.42").

The arms grip splice sleeves from 1-1/2" through 3-3/8" OD.

The TAT/SAT is drill operable to provide a significant ergonomic benefit. The tool has a 15" stroke and moves one inch with just two revolutions of the driver.

TAT/SAT
Combination Splice/T-Body Tool
(includes carrying bag)

3155

TAT/SAT

3155 Cable Adapter Stop Accessory

A Cable Adapter Stop Accessory Model 3155 is available to prevent the cable adapter from being forced further down the cable as the T-Body is installed. It is available separately (3155) or installed on the TAT or TAT/SAT by adding a -S to the part number (i.e. TAT-S).
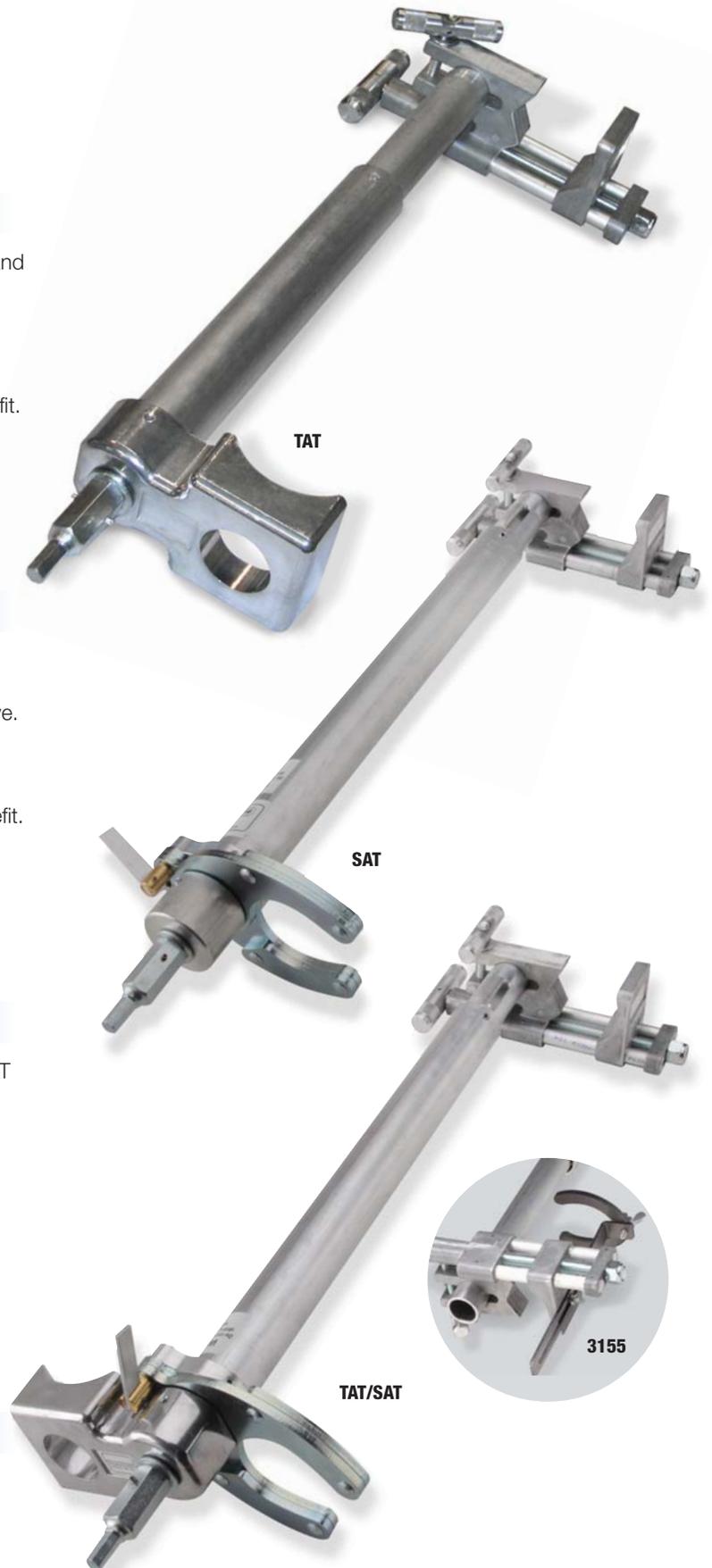
CJT

The Speed Systems Cable Joint Housing Assembly/Disassembly Tool is an ergonomic, drill-operable tool designed to assist in the assembly and disassembly of 15KV and 25KV 600 Amp deadfront cable joints onto high voltage underground cable.

CJT
*Cable Joint Housing
Assembly/Disassembly Tool*

CJT

CLRT

The CLRT tool is an ergonomic tool designed to provide a means of freeing the Eaton/Cooper Power Systems Clēēr™ 600A loadbreak components prior to breaking electrical contact.

The tool is sized to fit between the C connector's legs and provides 3/4" of stroke to break the seal without breaking the electrical contact.

CLRT
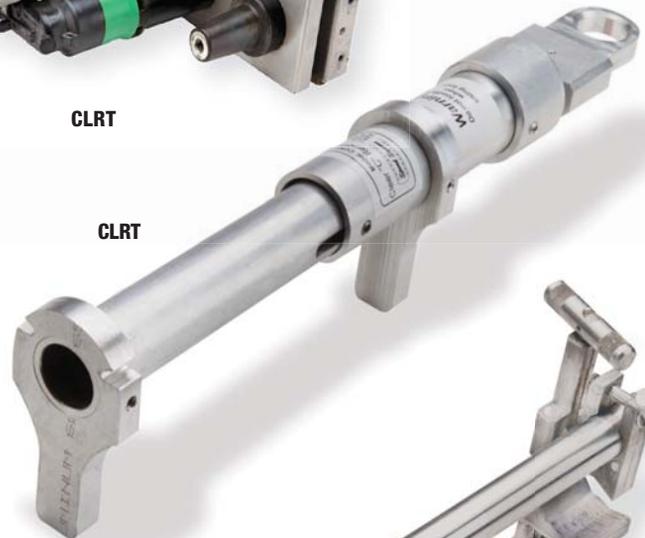
CLRT

VSAT

The VSAT is an ergonomic, drill-operable tool designed to install vault stretcher molded rubber components onto power cables in a vault

VSAT

Isolated
Accessories

Ratcheting Box Wrenches

RBW-QUAD1

The RBW-QUAD1 – Isolated Ratcheting Box Wrench includes
1/2", 9/16", 5/8" and 3/4" 12-point ratcheting box wrenches
on Speed Systems' patented isolated handle.
The RBW-QUAD1 is rated for 1000V.

RBW-QUAD1
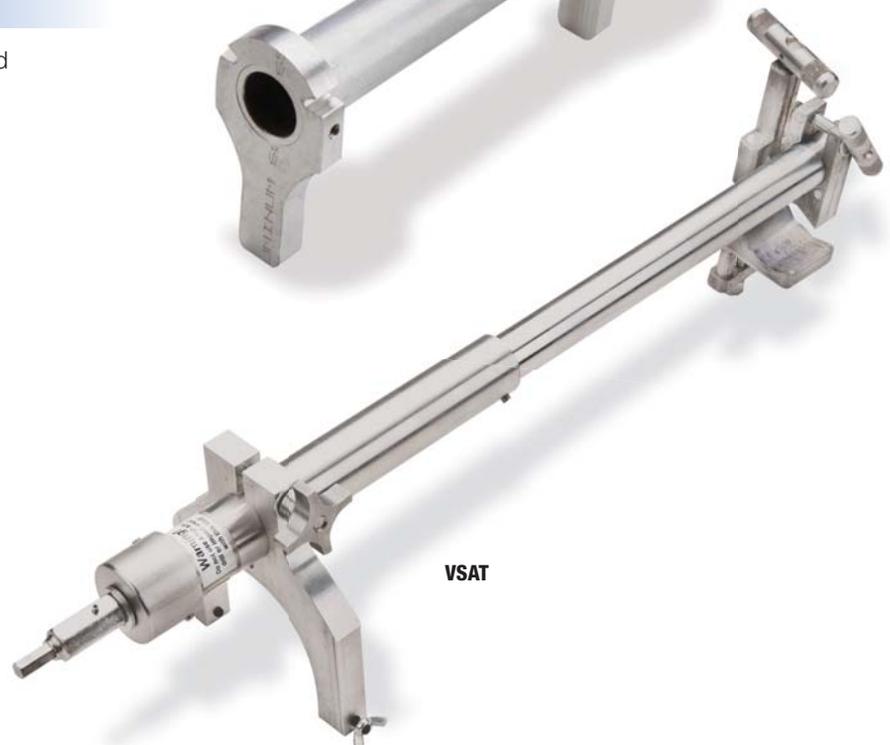*1/2", 9/16", 5/8" and 3/4" ratcheting box wrench*

RBW-QUAD1

Dogbone Wrenches

(U.S. Patent Number(s): US D492,556 S)

Speed Systems' Ratcheting Box Wrenches are designed
to provide end to end isolation for maximum safety.
The RBW wrenches have a center "window" displaying
the separation of the tool ends and are rated for 1000V.
The wrenches are available with a variety of end options.

Consult the factory for configurations other than those shown.

RBW-51638
5/16" x 3/8" box wrenches

RBW-38716
3/8" x 7/16" box wrenches

RBW-3812
3/8" x 1/2" box wrenches

RBW-38916
3/8" x 9/16" box wrenches

RBW-12916
1/2" x 9/16" box wrenches

RBW-1258
1/2" x 5/8" box wrenches

RBW-1234
1/2" x 3/4" box wrenches

RBW-91658
9/16" x 5/8" box wrenches

RBW-91634
9/16" x 3/4" box wrenches

RBW-5834
5/8" x 3/4" box wrenches

RBW-581316
5/8" x 13/16" box wrenches

RBW-11161316
11/16" x 13/16" box wrenches

RBW-11161516
11/16" x 15/16" box wrenches

RBW-3478
3/4" x 7/8" box wrenches

RBW-341516
3/4" x 15/16" box wrenches

RBW-131678
13/16" x 7/8" box wrenches

RBW-13161516
13/16" x 15/16" box wrenches

RBW-781516
7/8" x 15/16" box wrenches

RBW-12916

Hex Wrenches

Ratcheting Box Wrench

Wrench – 5/16" or 3/8" Hex Shaft

(U.S. Patent Number(s): US D492,556 S)

Speed Systems' Ratcheting Box Wrenches are designed to provide end to end isolation for maximum safety. The RBW wrenches have a center "window" displaying the separation of the tool ends and are rated for 1000V. The wrenches are available with a variety of end options.

Consult the factory for configurations other than those shown.

Alternate Shaft Lengths
(RBW-1, RBW-1P, RBW-516RP only)
For 1" shaft – add suffix A
For 1-3/4" shaft – add suffix B
For 2" shaft, add suffix C
For 2-1/2" shaft, add suffix D

RBW-1

Ratcheting Box Wrench (Hex Shaft) has 5/16" hex shaft extended 1-1/2" on one side. Other shaft lengths available

RBW-1P

Ratcheting Box Wrench (Hex Shaft) has 5/16" hex shaft extended 1-1/2" on one side with fixed Penta. Other shaft lengths available

RBW-516RP

Ratcheting Box Wrench (Hex Shaft) has 5/16" hex shaft extended 1-1/2" on one side with ratcheting Penta on other end. Other shaft lengths available

RBW-38H

Ratcheting Box Wrench (Hex Shaft) has 3/8" hex shaft extended 1-1/2" on one side (not shown)

RBW-38HP

Ratcheting Box Wrench (Hex Shaft) has 3/8" hex shaft extended 1-1/2" on one side with fixed Penta in handle (not shown)

RBW-38HRP

Ratcheting Box Wrench (Hex Shaft) has 3/8" hex shaft extended 1-1/2" on one side with ratcheting Penta (not shown)

RBW-2

Ratcheting Box Wrench (Hex Shaft) has 5/16" hex shaft extended 1-1/2" on each side

RBW-2P

Ratcheting Box Wrench (Hex Shaft) has 5/16" hex shaft extended 1-1/2" on each side with fixed Penta in handle (not shown)

RBW-3

Ratcheting Box Wrench (Hex Shaft) has 5/16" hex shaft on one side, 3/8" hex shaft on the other side, both 1-1/2" long (not shown)

RBW-3P

Ratcheting Box Wrench (with Penta) has 5/16" hex shaft on one side, 3/8" hex shaft on the other side, both 1-1/2" long - fixed Penta in handle (not shown)

RBW-1

RBW-1P

RBW-2
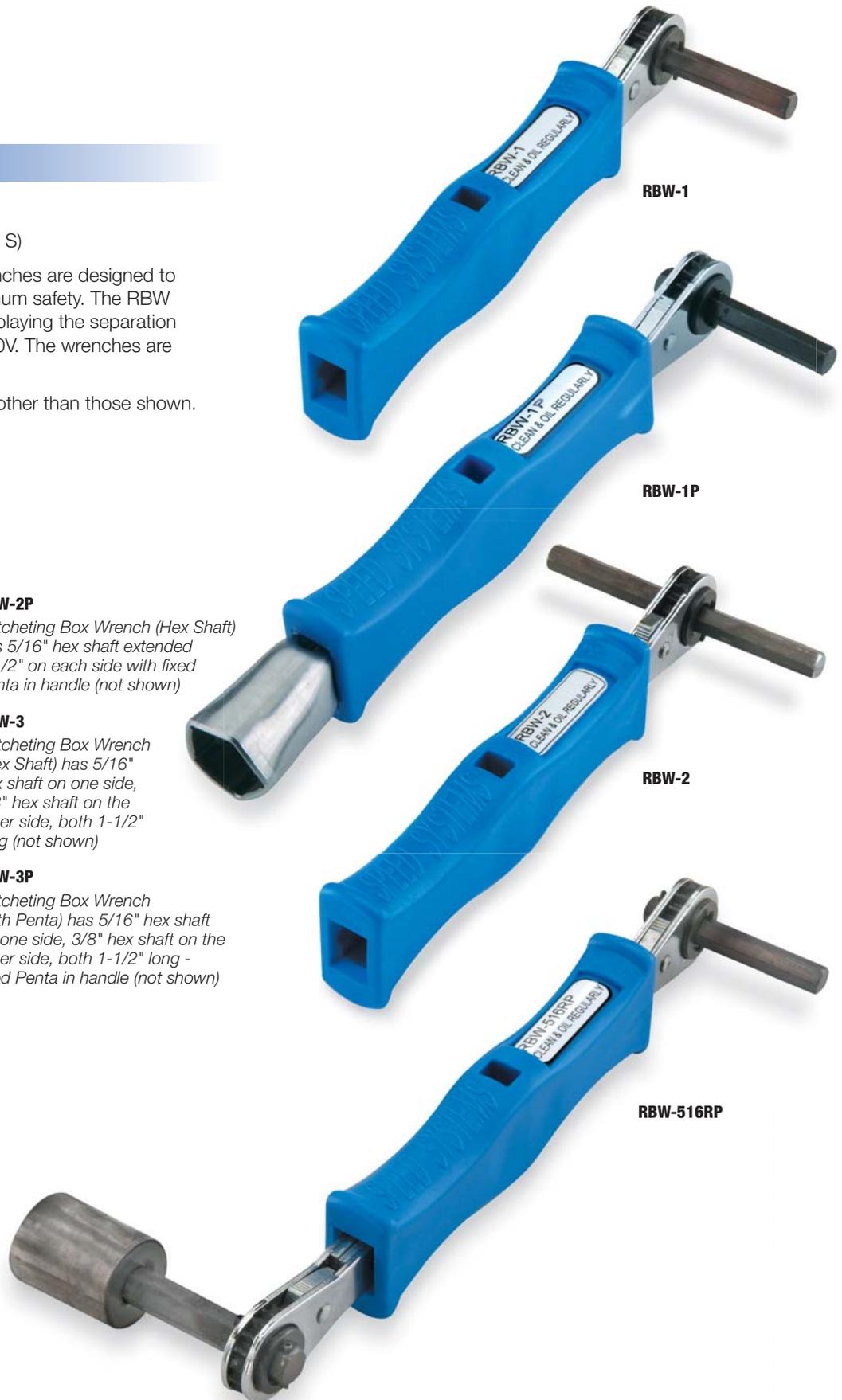
RBW-516RP

Isolated
Accessories Continued

Hex Wrenches

Ratcheting Box Wrench

RBW-51638RP

Ratcheting Box Wrench (with ratcheting Penta) has 5/16" hex shaft on one end, 3/8" hex shaft and ratcheting Penta on other end

RBW-51638SRP

Ratcheting Box Wrench (with ratcheting Penta) has 5/16" hex shaft and 3/8" socket (opposed) on one end with ratcheting Penta on opposite end

RBW-51638RP

RBW-51638SRP

Penta Socket with Ergonomic Handle

Speed Systems offers both fixed and ratcheting Penta Wrenches for use on power transformers. Both the PW-2 (fixed wrench) and RBW-RP (ratcheting wrench) are attached to Speed Systems' patented handle.

PW-2
Fixed Penta Security Wrench

RBW-RP
Ratcheting Penta Security Wrench

Specialty Wrenches

RBW with Square Drive

The RBW line includes square drive with hex shaft or socket options. Specify 3/8" or ½" drive and opposing hex bit or socket size.

RBW-38SQ
Ratcheting box wrench with 3/8" square drive (not shown)

RBW-12SQ
Ratcheting box wrench with ½" drive (not shown)

RBW with Torque Limiter

The RBW is available with a torque limiter to provide an isolated torquing hex bit. Fixed torque values between 100 and 140 in-lb are available. Specify torque value and drive tip.

RBW-TK
Isolated Ratcheting Torque Wrench (not shown)

Sockets/Combination

The RBW line includes various socket options. All are built on our patented, isolated handle and are rated for 1000V.

Contact the factory for styles and configurations not shown.

RBW-34SRP
Ratcheting 3/4" socket and Penta Wrench on our patented ergonomic, isolated handle

RBW-91634WE-S
Ratcheting Box Wrench (Sockets) has 9/16" x 3/4" standard sockets (opposed) with handle loop

RBW-91634WE-L
Ratcheting Box Wrench (Sockets) has 9/16" x 3/4" long sockets (opposed) with handle loop (not shown)

PW-2

RBW-RP

RBW-34SRP

RBW-91634WE-S

RBW-38TD

RBW-12TD

RBW-58TD

Specialty Wrenches

RBW-TD Series

The RBW-TD Tap and Die Tools have a tap and die for chasing threads on connectors and probes built on our patented isolated handle.

Contact the factory for styles and configurations not shown.

RBW-12TD

Ratcheting Tap and Die has 1/2-13 bottoming tap and die for chasing threads on transformer ground lugs

RBW-38TD

Ratcheting Tap and Die has 3/8-16 tap and die for chasing threads on loadbreak elbow probe and connector

RBW-58TD

Ratcheting Tap and Die has 5/8-11 tap and die for chasing threads on 600A connectors

Build Your Own Wrench

Don't see what you need in our regular line? Speed Systems gives you the option of configuring a wrench with the components you want! Choose one or more of the component options shown below to customize your wrench.

Note: Not all component options are compatible with all other options. Configurations that require custom welding or other services may require a minimum quantity purchase.

Torque Limiter
(specify in-lbs and tip)

Ratcheting Box Wrench
(specify size)

Tap
(specify size)

Hex Shaft
(specify size and length)

Die
(specify size)

Square Drive
(specify size)

Ratcheting Penta

Handle Ring

Standard or Deep Socket
(specify size)

Ratcheting Box Wrench
(specify size)

Fixed Penta Socket

Isolated
Accessories Continued

ISE Series

Isolated Shaft Extensions are designed for use with a socket wrench or torque wrench where total isolation is required between the socket and extension.

The ISE Series tools are constructed with thick-walled filament wound fiberglass shafts and provide total end to end separation for isolation.

The ISE-375, ISE-4 and ISE-WE feature 5/16" hex shafts for use on secondary set screw bar connectors. The ISE-6, ISE-8 and ISE-14 feature pin lock drives to serve as isolated extensions for use with ratchet wrenches.

Consult the factory for additional lengths.

ISE-375
Isolated Shaft Tool has a 5/16" hex shaft and 3/8" drive for use on secondary set screw bar connectors (3-3/4" overall length, rated 1000V, 600 in. lbs.)

ISE-4
Isolated Shaft Tool has a 5/16" hex shaft and 3/8" drive for use on secondary set screw bar connectors (4-1/2" overall length, rated 1000V, 600 in. lbs.)

ISE-WE
Isolated Shaft Tool has a 5/16" hex shaft and 1/2" drive for use on secondary set screw bar connectors (5-1/2" overall length, rated 1000V, 600 in. lbs.)

ISE-6
Isolated Shaft Tool has a 3/8" pin lock drive for use as an Isolated Socket Extension (6-1/2" overall length, rated 5kV, 600 in. lbs.)

ISE-6B
Isolated Shaft Tool has a 3/8" ball lock drive for use as an Isolated Socket Extension (6-1/2" overall length, rated 5kV, 600 in. lbs.) (not shown)

ISE-8
Iisolated Shaft Tool has a 1/2" pin lock drive for use as an Isolated Socket Extension (8" overall length, rated 5kV, 600 in. lbs.)

ISE-8B
Iisolated Shaft Tool has a 1/2" ball lock drive for use as an Isolated Socket Extension (8" overall length, rated 5kV, 600 in. lbs.) (not shown)

ISE-14
Isolated Shaft Tool has a 1/2" pin lock drive for use as an Isolated Socket Extension (14" overall length, rated 10kV, 600 in. lbs.)

TPC-1 Test Point Cleaner

The TPC-1 Test Point Cleaner provides a stick-operable means of cleaning elbow and T-Body test points with a dual surface cleaning media.

TPC-1

ISE-375

ISE-4

ISE-WE

ISE-6

ISE-8

ISE-14

NonIsolated Accessories

Overhead Lineman's Wrench (OHW Series)

The OHW Series Overhead Lineman's Wrench have 3/4", 1" and 1-1/8" square drive sockets on a single head for use on 1/2", 5/8" and 3/4" hardware. The wrenches have an open center to allow the bolt to pass through. The wrenches also have a large reversing lever and a padded handle.

The OHW Series also includes a two-sided 3/4" and 9/16" 12 point ratcheting box wrench on opposite end

The OHW-D version has deeper sockets to allow more clearance between the pole and the user's hand.

OHW
3/4", 1" and 1-1/8" square sockets with two-sided 3/4" and 9/16" ratcheting box wrench on the other end

OHW-D
3/4", 1" and 1-1/8" square deep sockets with two-sided 3/4" and 9/16" ratcheting box wrench on the other end

Penta/Hex Security Wrenches

PHW-1
The PHW-1 has a Penta socket on one end and a 3/4" hex on the other. It is made of stainless steel with a captive folding cross-rod for leverage

PHS Series - The PHS-1 and PHS-2 include a Penta and 3/4" hex socket combined into one socket with a common 3/8" (PHS-1) or ½" (PHS-2) center drive. The tool is reversible when used with a socket extension.

PHS-1
Penta/Hex Security Wrench with a 3/8" square drive

PHS-2
Penta/Hex Security Wrench with a 1/2" square drive

RBW-34SRP
Ratcheting 3/4" socket and Penta Wrench on our patented ergonomic, isolated handle

Other socket sizes available

OHW

OHW-D

RBW-34SRP

PHS-1   **PHS-2**

PHW-1

NonIsolated
Accessories Continued

Knives and Pliers

The SC-10 and SC-11 Semi-Con Edge Wedges are designed for lifting the front edge of the cable semi-con layer after it has been scored. The tools are supplied with a leather sheath.

The SC-13 Semi-Con Roller Grip is designed to provide controlled rolling of the semi-con layer that has been scored. This method of rolling helps reduce tearing of the semi-con as it is being removed.

SC-10
Semi-Con Edge Wedge

SC-11
Semi-Con Edge Wedge with finger grip

SC-13
Semi-Con Roller Grip

SC-10

SC-11

SC-13

UTR Universal Test Rod

Allows testing 15kV, 25kV and Elastimold 35kV Deadbreak and Loadbreak bushings. It features an OP Eye for stick operation and includes a disk for connecting test leads.

Not for use on Eaton (Cooper/RTE) or Hubbell (Chardon) 35kV bushings

ECT-2 Elbow Cleaning Tool

The Elbow Cleaning Tool is designed to enable cleaning of the bushing cavity of 15kV and 25kV class loadbreak elbows. Made of PVC, the tool has a tapered shaft that closely conforms to the cavity of the elbow. The end of the tool has two slots to hold a cleaning cloth.

UTR

ECT-2

ToolBoxes
Bags & Kits

Steel Boxes

Tool Boxes constructed of 20 ga. steel with a full-length piano hinge and oil-resistant pad to cushion the tools. The case has an internal divider to separate the 1542 Series Stripper and 1700SS Series Semi-Con Scorer.

CPK-12
Small Steel Tool Case
12" x 4.5" x 4" (30.5 x 11.4 x 10.2 cm) (front)

CPK-18
Large Steel Tool Case
18" x 8.25" x 4" (45.7 x 21.0 x 10.2 cm) (back)
(tools not included)

CPK-18

CPK-12

Canvas Bags

Reinforced canvas bags with six internal pockets designed to hold tools and accessories required for cable preparation.

CPK-14
Small Canvas Bag
14" x 9" x 7" (35.6 x 22.9 x 17.8 cm) (front)
(tools not included)

CPK-24
Large Canvas Bag
24" x 15" x 6" (61.0 x 38.1 x 15.2 cm) (back)

CPK-24

CPK-14

Individual Tool Bags

Individual Tool Bags are sized to easily and efficiently carry one or more Speed Systems tools. All of the bags are manufactured of sturdy canvas and feature a sturdy, zipper closure.

TB-9
Small Individual Tool Bag
6 x 10" (15.2 x 25.4 cm)

TB-10
Medium Individual Tool Bag
7 x 14" (17.8 x 35.6 cm)

TB-11
Large Individual Tool Bag
14 x 16-1/2" (35.6 x 41.9 cm)

TB-12
Extra Large Individual Tool Bag 22 x 6 x 3"
(55.9 x 15.2 x 7.6 cm)

TB-12

TB-10

TB-11

TB-9

Cable PrepKits

Speed Systems offers various kits that include some of the most common tool combinations. Contact the factory for custom kit configurations.

CPK-1

Kit with 1542-2CL, 1646X and 1700SS in a CPK-12 Case

CPK-2

Kit with 1542-2CL, 1646X, 1700SS, SC-11 and SC-13 in a CPK-12 Case

CPK-3

Kit with 1542-2AS, 1646X, SC-11 and SC-13 in a CPK-12 Case

CPK-4

Kit with 1542-2CL, 1646X, 1700SS, CT-1, LPW1525/TK120X-N, SC-11 and SC-13 in a CPK-14 Bag

CPK-5

Kit with 1542-2CL, 1646X, 1700SS, BIT/E180AT, LPW1525/TK120X-N, SC-11 and SC-13 in a CPK-14 Bag

CPK-6

Kit with Mark I, Mark I Tool Stop, 1700SS, SC-11 and SC-13 in a CPK-14 Bag

CPK-7

Kit with Mark I, Mark I Tool Stop, 1700SS, BIT/E180AT, LPW1525/TK120X-N, SC-11 and SC-13 in a CPK-14 Bag

CPK-8

Kit with 1542-2CL, 1646X, 1700SS and LPW1525/TK120X-N in a CPK-18 Case

CPK-9

Kit with 1542-2CL, 1646X, 1700SS, LPW1525/TK120X-N, SC-11 and SC-13 in a CPK-18 Case

CPK-10

Kit with 1542-2AS, 1646X, LPW1525/TK120X-N, SC-11 and SC-13 in a CPK-18 Case

CPK-11

Kit with Mark II, Mark II Tool Stop, 1800SS, CT-2, SC-11 and SC-13 in a CPK-24 Bag

CPK-1

CPK-2

CPK-3

CPK-4

CPK-5

CPK-6

CPK-7

CPK-8

CPK-9

CPK-10

CPK-11

Custom
Tools

Custom Tools

Speed Systems focuses on adjustable tools to fit a wide variety of cables without requiring the use of bushings or adapters. There are some applications, though, that require a one tool to one cable approach.

We do that, too!

We currently offer a variety of tools designed for a specific function on a specific cable. These tools require the customer to provide cable samples so we can ensure that the tool will properly function on that cable. There may be minimum order quantities required on custom tools.

Contact the factory for more information.

Penciling Tool

Penciling Tool

Penciling Tools are designed to cut a 1-1/2" long taper on the cable's insulation for applications requiring a tape build-up of the stress cone. The tool operates like and old-style manual pencil sharpener to carve away the insulation to the correct taper.

Cable samples are required to ensure the blade settings adequately remove the insulation.
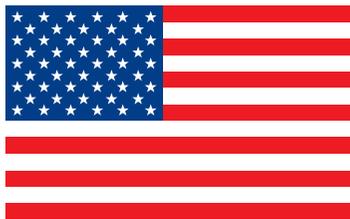
Drill Operated Isolated Secondary Stripper

The Speed Systems Drill Operated Isolated Secondary Strippers are available to remove the insulation layer from secondary cables in a variety of sizes and strip back lengths. The strip back length must be specified along with the cable sample.

Drill Operated Isolated Secondary Stripper

Speed Systems tools are proudly manufactured in the U.S.A.