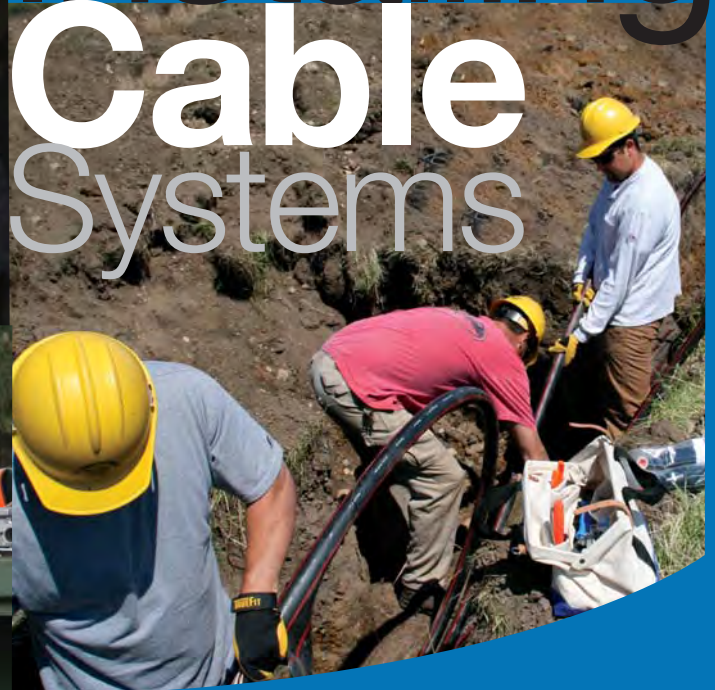


Quality tools for Installing Power Cable Systems





Quality tools for Installing Power Cable 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.

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Primary Cable Prep

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 Mylar, plastic or tape layer between the neutral wire and the jacket.

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



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 Groove and cross hole providing neutral winding capability for removal of the outer 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.



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.





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 1/2"
(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 10)

1562 - Wedge Blade

(XLP/EPR) (see page 10)

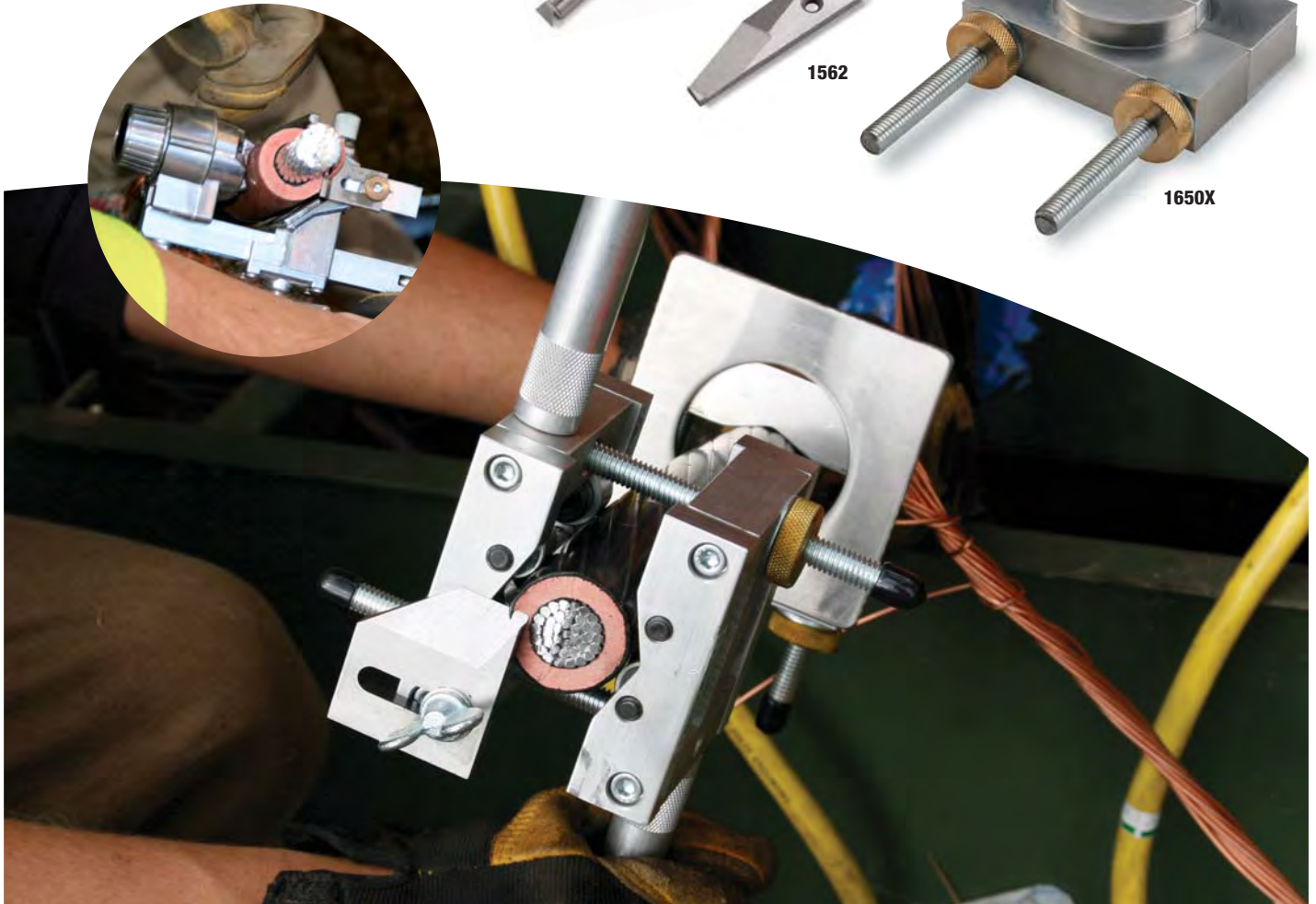
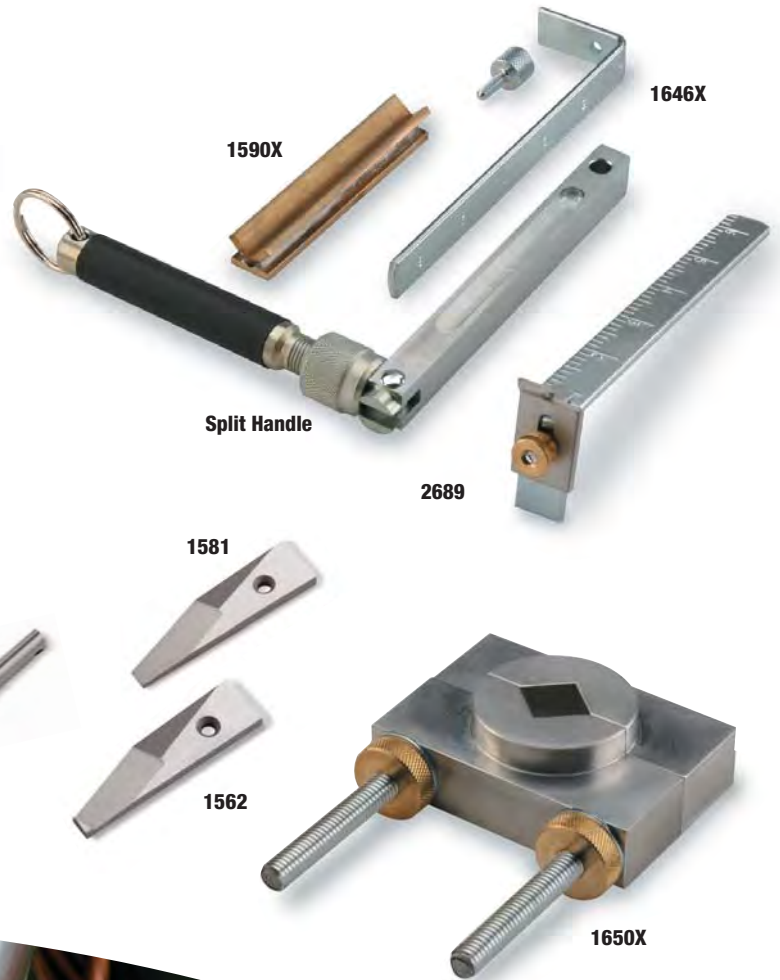
1581 - Straight Blade

Straight Blade (Kerite)
(see page 10)

1678 - Scoring Blade

(see page 10)

1650X - Tool Stop



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 10).

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

AO10 - Large Blade

For 69kV - 138kV cables (only fits the Mark II-10 and Mark III tools (see page 10)

AO11 - Wedge Blade

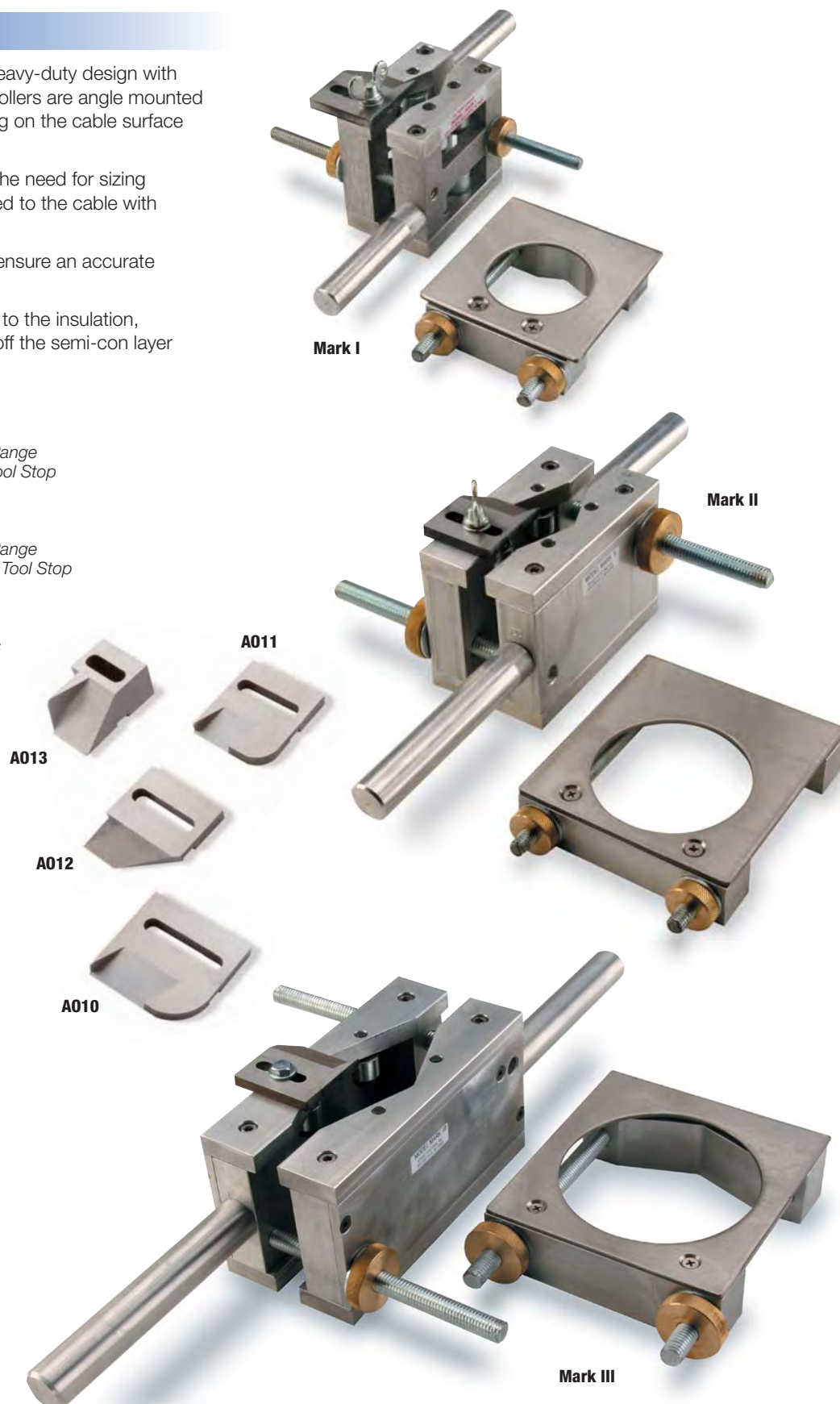
(see page 10)

AO12 - Straight Blade

(see page 10)

AO13 - Shaving Blade

For bonded semi-con (see page 10)



Primary Cable Prep Continued

Underground • Semi-Con Scoring

1700 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



1701

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



1678

1678 - Scoring Replacement Blades

All scoring tools (see page 10)

Underground • Semi-Con Scoring

1800 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 1/2" 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)

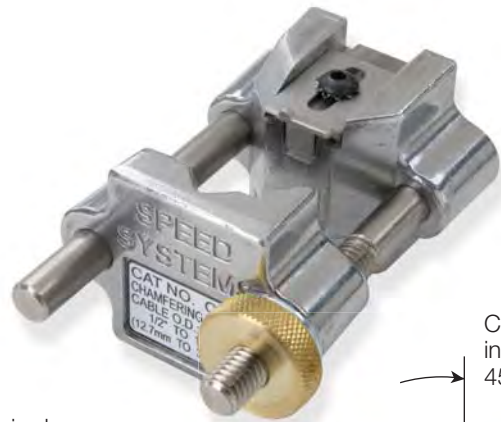
2689 - Chamfering Tool/Scale Gauge

(not shown - see page 10)

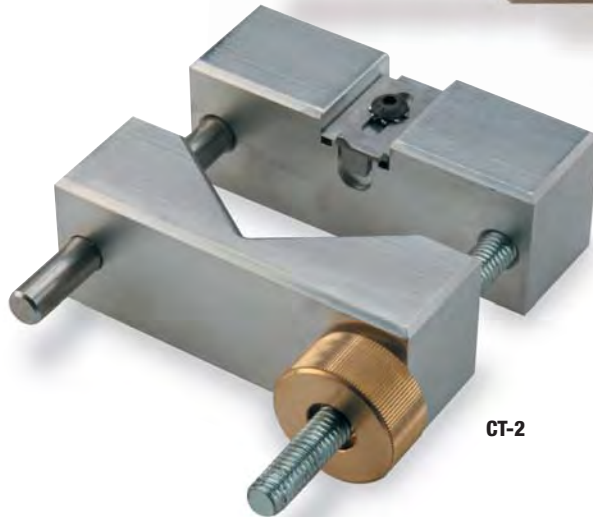
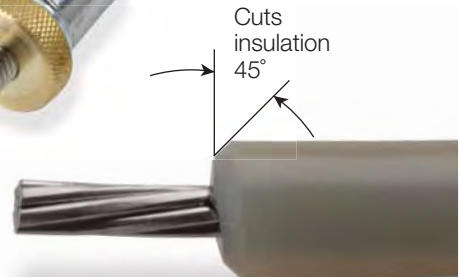


2672 - Replacement Blade

(see page 10)



CT-1



CT-2



2900

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.

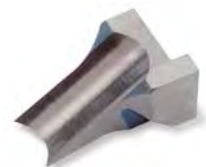
The 2900 Series Aerial Tree Wire and Spacer Cable Strippers allow unlimited strip length.

2900 - Aerial Tree Wire/Spacer Cable

Insulation Stripper
(includes both long and short handles)

2900 Lite - Aerial Tree Wire/Spacer Cable

Lite version of Model 2900 –
weighs over two pounds less
than the standard 2900
(includes short handles only) (not shown)



2872 - Replacement Blade
(see page 10)

Secondary Cable Prep

End Strip

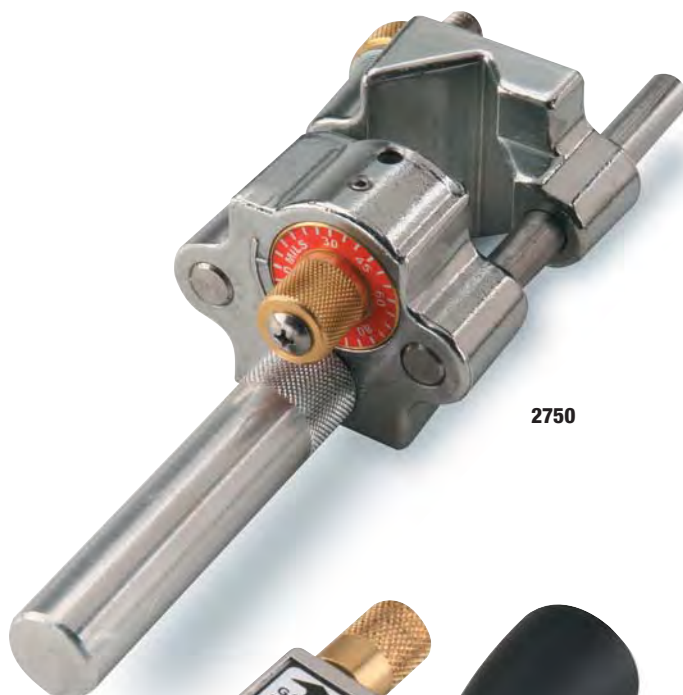
2750

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 - Secondary Stripper

2781 - Replacement Blade
(see page 10)



2750

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

2787 - Replacement Blade
(see page 10)



2850



2850S



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

AO10 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.

AO11 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.

AO12 Straight Blade

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

AO13 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.



1013

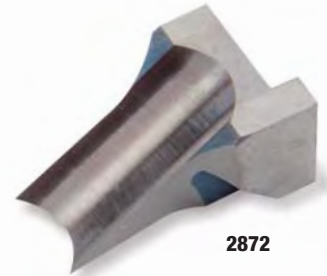
AO11

AO10

AO12

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

2787 Blade

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



2781

2787

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/TK120X-Q



LRTP/TK240AT

LRTP/TK240AH

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. 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 Torque Limiter
Bushing Insert with Tor-Key
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

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.

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

Torque Tools Continued

L RTP/TK55 Series

The L RTP 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.

L RTP/TK55

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

L RTP/TK55H

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



L RTP/TK55

L RTP/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 torqueing tool shaft when installing or removing the component in hard to reach locations.

The L RTP 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 L RTP-12 provides for installation and removal of 600A reducing tap plug bushings with a 5/16" internal hex socket. The L RTP-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.

L RTP-12

Shaft only with 1/2" drive

TW516-13

T-Wrench with 5/16" shaft and T-Handle

W516-13

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



TW516-13

L RTP-12

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 1/4" 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

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)*

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)*

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.

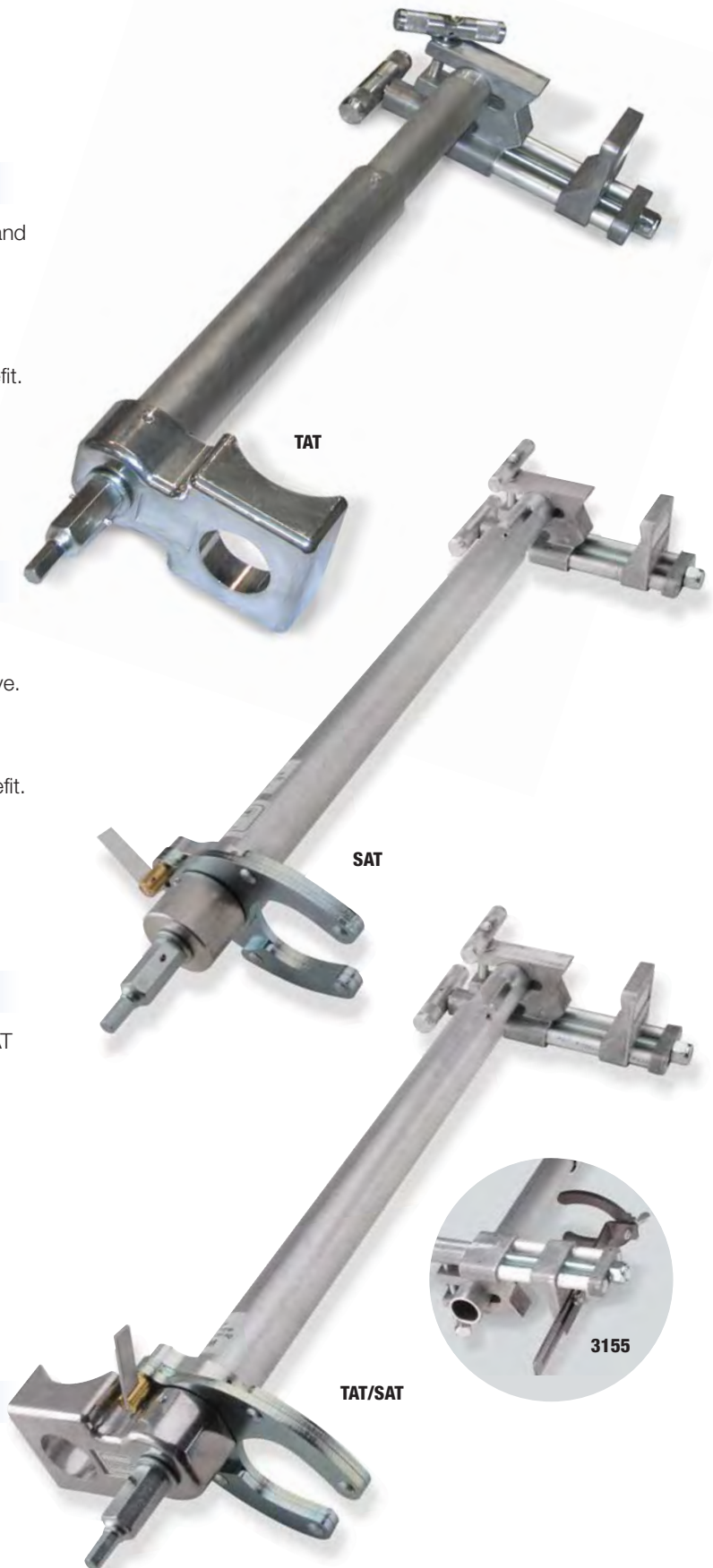
The TAT/SAT is drill operable to provide a significant ergonomic benefit. The tool has a 15" stroke and moves one inch with just two revolutions of the driver.

TAT/SAT

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

3155 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 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

CLEER

The CLEER tool provides a means of freeing the Eaton/Cooper Power Systems Clêr™ 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.



CLEER



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 fits all 15kV and 25kV elbows and caps and Elastimold 35kV elbows and caps.

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 35

Elbow/Cap Pulling Tool with standard channel and adjuster bar (shown)

PT-35RTX

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

PT-35TX

Elbow and Cap Pulling Tool With Standard Channel/Multi-Hole Adjuster 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 Adjuster Bar and 3133 PUSH-OP Adaptor

3133

Adapter for PUSH-OP applications



PT-TX



PT 35



3133

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



RBW-QUAD1

1/2", 9/16", 5/8" and 3/4" ratcheting box wrench

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



Isolated Accessories

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 a 5/16" hex shaft on one side, 3/8" hex shaft on the other side, both 1-1/2" long

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-51638RP

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

RBW51638SRP

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



RBW-1



RBW-1P



RBW-516RP



RBW-2





Isolated Accessories Continued

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 1/2" 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 1/2" 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 Wrench with Ratcheting Penta has 3/4" socket with Penta socket (opposed)

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)





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.



Isolated Accessories Continued



RBW-12TD

RBW-38TD

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



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 on 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-8

Isolated 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-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.)



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 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



OHW

OHW-D

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 1/2" (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 ergonomically friendly isolated handle

Other socket sizes available

RBW-34SRP

PHW-1



PHS-1

PHS-2



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



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.



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-9

TB-11

Cable Prep Kits

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



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, tool!

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 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 an 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.



Penciling Tool

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

Covered Tap Wire Stripper

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



Covered Tap Wire Stripper

Cable Prep Kits with Multiple Tool Combinations Ordering Chart

Catalog NUMBER	CPK-12 CASE	CPK-14 BAG	CPK-18 CASE	1542-2CL STRIPPER w/1646X GAUGE	1542-2AS STRIPPER w/1646X GAUGE	CT-1 CHAMFER TOOL	MARK I w/TOOL STOP	1700SS SCORER	LPW1525/TK120X-N COMB. TOOL	BIT/E180AT BUSHING TOOL	SC-11 EDGE WEDGE	SC-13 ROLLER GRIP
CPK-1	X			X				X				
CPK-2	X			X				X			X	X
CPK-3	X				X						X	X
CPK-4		X		X		X		X	X		X	X
CPK-5		X		X				X	X	X	X	X
CPK-6		X					X	X			X	X
CPK-7		X					X	X	X	X	X	X
CPK-8			X	X				X	X			
CPK-9			X	X				X	X		X	X
CPK-10			X		X				X		X	X
CPK-11		CPK-24 BAG				CT-2	Mark II w/Tool Stop	1800SS			X	X

Diameter Over Shielding and Conductor

Cond. Size	15kV - .175" (4.4mm)				15kV - .220" (5.6mm)				25kV - .260" (6.6mm)				35kV - .345" (8.8mm)			
	Con. Str.		Compact		Con. Str.		Compact		Con. Str.		Compact		Con. Str.		Compact	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
4	.720	18.3	.700	17.8	.810	20.6	.790	20.1	-	-	-	-	-	-	-	-
2	.780	19.8	.760	19.3	.870	22.1	.850	21.6	-	-	-	-	-	-	-	-
1	.820	20.8	.790	20.1	.910	23.1	.880	22.4	.990	25.1	.960	24.4	-	-	-	-
1/0	.865	22.0	.825	21.0	.955	24.3	.915	23.2	1.035	26.3	.995	25.3	1.245	31.6	1.205	30.6
2/0	.910	23.1	.865	22.0	1.000	25.4	.955	24.3	1.080	27.4	1.035	26.3	1.290	32.8	1.245	31.6
3/0	.960	24.4	.915	23.2	1.050	26.7	1.005	25.5	1.170	29.7	1.085	27.6	1.340	34.0	1.295	32.9
4/0	1.020	25.9	.965	24.5	1.110	28.2	1.055	26.8	1.230	31.2	1.175	29.8	1.400	35.6	1.345	34.2
250	1.075	27.3	1.020	25.9	1.205	30.6	1.110	28.2	1.295	32.9	1.240	31.5	1.470	37.3	1.415	35.9
350	1.220	31.0	1.155	29.3	1.310	33.3	1.245	31.6	1.400	35.6	1.335	33.9	1.575	40.0	1.510	38.4
500	1.335	34.4	1.275	32.4	1.445	36.7	1.365	34.7	1.535	39.0	1.455	37.0	1.750	45.5	1.630	41.4
600	1.445	36.7	1.365	34.7	1.535	39.0	1.445	37.0	1.625	41.3	1.545	39.2	1.840	46.7	1.760	44.7
750	1.550	39.4	1.460	37.1	1.640	41.7	1.550	39.4	1.770	45.0	1.640	41.7	1.945	49.4	1.855	47.1
1000	1.740	44.2	1.610	40.9	1.830	46.5	1.740	44.2	1.920	48.8	1.830	46.5	2.095	53.2	2.005	50.9

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