

# RENNSTEIG

*The Right Tool.*



## #1 Tool Brand for Solar Professionals

# *When it's a RENNSTEIG, YOU can feel it.*

## Tools for

Amphenol H4 CF (machined contacts)	5	7	9	11	13	15	17		
Amphenol H4 S&F					5	7	11	15	
Amphenol UTX™ S&F					5	7	11	15	
Amphenol UTX™-XL/CF (machined contacts)					5	7	11	15	
BizLink		5	7	11	13	15	17		
BizLink/SunBolt					5	7	11	15	
Leoni		5	7	9	11	13	15	17	
Staubli MC3					5	7	11	15	24
Staubli MC4	5	7	9	11	13	15	17	22	
Staubli MC4-EVO 2								5	7
TE (Solarlok)		5	7	11	13	15	17		
TE Solarlok PV4-S		5	7	9	11	13	15	17	
Tlian		5	7	9	11	13	15	17	
TongLin							5	7	11
Twinsel		5	7	9	11	13	15	17	
Wieland (Gesis Solar)		5	7	9	11	13	15	17	

## Crimp System Tools

When you buy this tool you will receive a complete tool with an installed Die Set and Locator. So you are ready to crimp right away.

The Rennsteig Solar Crimp System is unique in the industry. We offer the option (different Crimp Die Sets) to crimp all common terminals/contacts on the solar market today. Because of interchangeable die sets, you won't need to buy more than one crimp tool. You can just get an additional die set to fit your existing crimp tool. In addition to our standard Crimp System Tool frame the Die Sets will also fit into the following available products.



### Hand Tool



### Electromechanical Driven Tool



### Manual Press



### Pneumatic Crimping Machine



## Single Components

You already own a RENNSTEIG Crimp System Tool? Here you will find additional Die Sets and Locators which fit into your (existing) tool.



## Complete Preassembled Cases

You need to work with different kind of connectors? With these cases you do not need to carry several single tools. In this category you will find heavy duty carrying cases in different configurations.



## Cable Cutters and Stripping Tools

Here you will find special designed cable cutters and wire stripper.



## Assembly Tools

In this section you will find other helpful tools to do your job faster, better and easier.



# Crimp System Tool

This crimp tool is recommended for crimping solar contacts. The excellent handling, easy exchange of the crimping die sets and the option of adding a positioning aid are features in favor of these crimping pliers.

- > High-precision ratchet mechanism for complete crimps
- > 1.2 metric tons pressure at crimping face, with minimal hand effort
- > **Interchangeable high-precision Crimping Die Sets**
- > Parallel jaws for even crimps
- > Interchangeable Locators for precise positioning of terminals
- > Well balanced, approx. 1.5 lbs.
- > Compact build, 8" long
- > Made in Germany - made by Rennsteig



Double-plated ratchet gear extends tool life



Easy grip even when fully open



Parallel crimping

**Locator**  
(for the correct positioning of the specific contact)

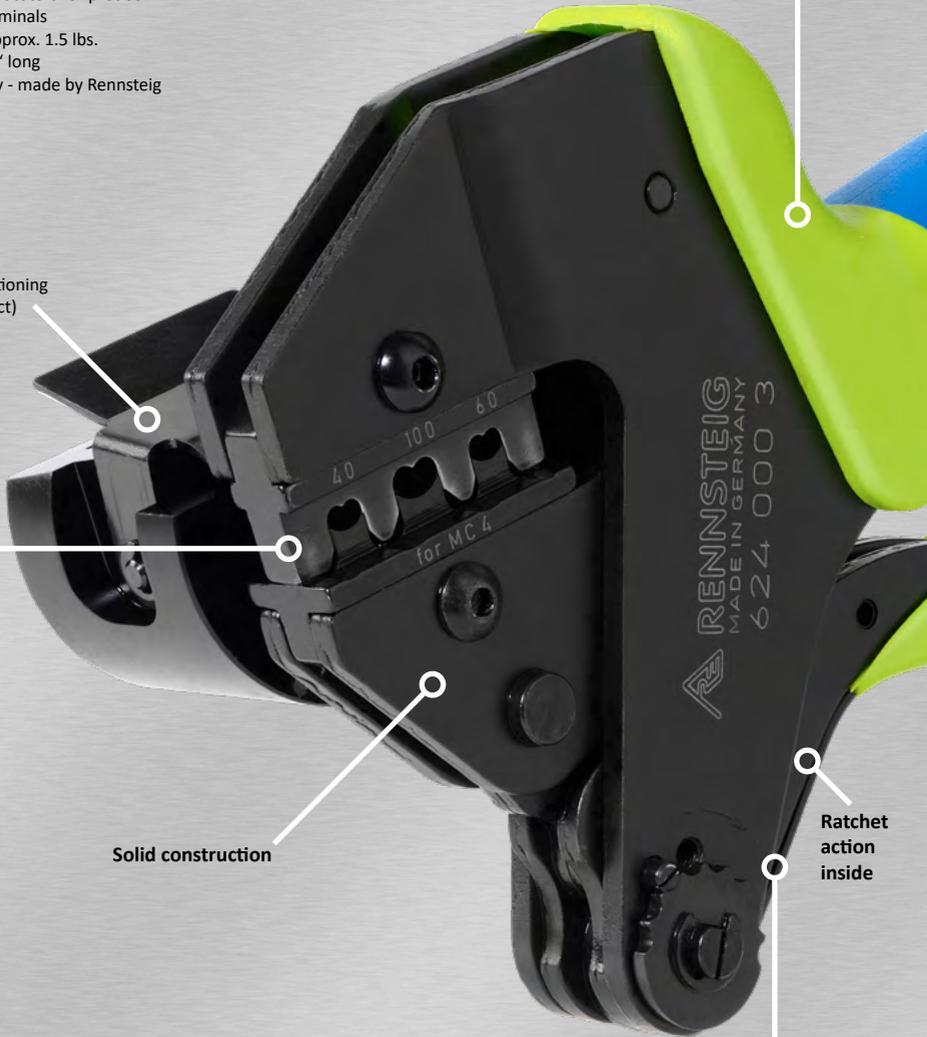
**Interchangeable Crimp Dies**

**Solid construction**

**Two component ergonomic handles**

**Ratchet action inside**

**Emergency Release**  
(if jam occurs)



Application	Wire Gauge	Part#	Description	Terminal*
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b>	 14/12/10	624 570 3 1 RT	Tool w/ Die Set + Locator	
<b>Staubli MC4</b>		12/10/8	624 1193 3 1 RT	Tool w/ Die Set + Locator
<b>Staubli MC4</b>	12/10 (stamped&formed) and 8 (machined/solid)	624 1301 3 1 RT	Tool w/ Die Set + Locator	 
<b>Staubli MC4-EVO 2*</b>	14/12/10/8	625 51332 3 1 RT	Tool w/ Die Set + Locator	
<b>Amphenol UTX™ S&amp;F</b>	14/12/10	624 1364 3 1 RT	Tool w/ Die Set + Locator	
<b>Amphenol UTX™-XL/CF</b> <small>(machined contacts)</small>	14/12/10/8	624 1371 3 RT	Tool w/ Die Set	
		624 1371 3 1 RT	Tool w/ Die Set + Locator	
<b>Amphenol H4 CF</b> <small>(machined contacts)</small>	14/12/10/8	624 1194 3 RT	Tool w/ Die Set	
		624 1194 3 1 RT	Tool w/ Die Set + Locator	
<b>Amphenol H4 S&amp;F</b>	14/12/10	624 1175 3 1 RT	Tool w/ Die Set + Locator	
<b>Wieland</b> <small>(Gesis Solar)</small>	12/10/8	624 073-1 3 RT	Tool w/ Die Set	
		624 073-1 3 16 RT	Tool w/ Die Set + Locator	
<b>TE</b> <small>(Solarlok)</small>	16/14/12/10	624 817 3 RT	Tool w/ Die Set	
		624 817 3 1 RT	Tool w/ Die Set + Locator	
<b>TE</b> <small>(Solarlok PV4)</small>	12/10	624 969 3 1 RT	Tool w/ Die Set + Locator	
<b>BizLink/SunBolt</b>	6/8	624 1170 3 RT	Tool w/ Die Set	
		624 1170 3 1 RT	Tool w/ Die Set + Locator	
	10	624 1171 3 1 RT	Tool w/ Die Set + Locator	
	12	624 1300 3 1 RT	Tool w/ Die Set + Locator	
<b>TongLin</b> <small>(BIG-MB2 / BIG-FB2, BIG-MB4 / BIG-FB4, BIG-MB6 / BIG-FB6, BIG-MB8 / BIG-FB8)</small>	14/12/10/8	624 1472 3 RT	Tool w/ Die Set	
		624 1472 3 1 RT	Tool w/ Die Set + Locator	
<b>TongLin</b> <small>(BIG-MB5 / BIG-FB5)</small>	12/10	624 1709 3 RT	Tool w/ Die Set	
		624 1709 3 1 RT	Tool w/ Die Set + Locator	
<b>TongLin</b> <small>(BIG-MA2 / BIG-FA2, BIG-MA4 / BIG-FA4)</small>	14/12/10	624 1474 3 1 RT	Tool w/ Die Set + Locator	
<b>Staubli MC3</b>	14/12/10	624 194 3 RT	Tool w/ Die Set	
		624 194 3 1 RT	Tool w/ Die Set + Locator	
	12/10/8	624 348 3 RT	Tool w/ Die Set	
		624 348 3 1 RT	Tool w/ Die Set + Locator	

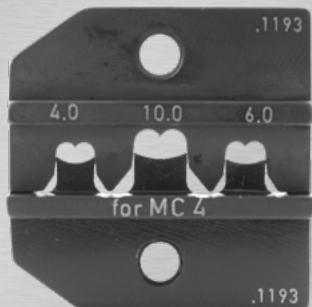
TOOLS FOR OTHER TERMINALS ON REQUEST (E.G. KOSTAL, SMK, YUKITA, HUBER+SUHNER,...).

\* Terminal images are for illustrative purposes only and may differ from the actual product.

\* Special Tool Frame (P/N 625 500000 3 RT)

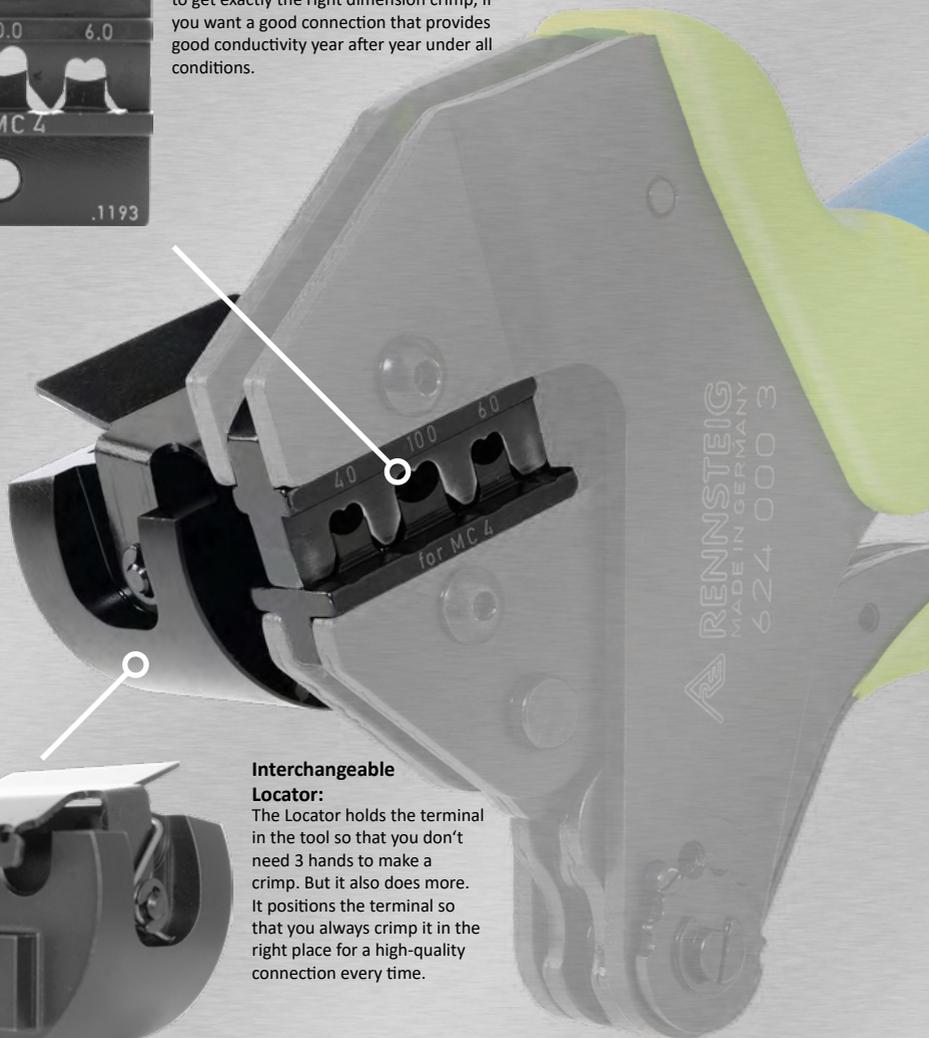
## Single components:

# All of our Crimping Die Sets & Locators will fit into our Crimp System Tools



### Interchangeable Crimping Die Sets:

Each type and size of terminal needs its own crimp. Just squeezing isn't enough - you have to get exactly the right dimension crimp, if you want a good connection that provides good conductivity year after year under all conditions.



### Interchangeable

#### Locator:

The Locator holds the terminal in the tool so that you don't need 3 hands to make a crimp. But it also does more. It positions the terminal so that you always crimp it in the right place for a high-quality connection every time.

Application	Wire Gauge	Part#	Description	Terminal*		
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b>	 14/12/10	624 570 3 0 RT	Die Set only			
		624 570 0 01 RT	Locator only			
		<b>Staubli MC4</b>	12/10/8	624 1193 3 0 RT	Die Set only	
				624 1193 0 01 RT	Locator only	
12/10 (stamped&formed) and 8 (machined/solid)	624 1301 3 0 RT		Die Set only			
	624 1301 0 01 RT		Locator only			
<b>Staubli MC4-EVO 2*</b>	14/12/10/8	625 51332 3 0 RT	Die Set only			
		625 51332 0 01 RT	Locator only			
<b>Amphenol UTX™ S&amp;F</b>	14/12/10	624 1364 3 0 RT	Die Set only			
		624 1364 0 01 RT	Locator only			
<b>Amphenol UTX™-XL/CF</b> <small>(machined contacts)</small>	14/12/10/8	624 1371 3 0 RT	Die Set only			
		624 1371 0 01 RT	Locator only			
<b>Amphenol H4</b> <small>CF (machined contacts)</small>	14/12/10/8	624 1194 3 0 RT	Die Set only			
		624 1194 0 01 RT	Locator only			
<b>Amphenol H4</b> <small>S&amp;F</small>	14/12/10	624 1175 3 0 RT	Die Set only			
		624 1175 0 01 RT	Locator only			
<b>Wieland</b> <small>(Gesis Solar)</small>	12/10/8	624 073-1 3 0 RT	Die Set only			
		624 071 0 016 RT	Locator only			
<b>TE</b> <small>(Solarlok)</small>	16/14/12/10	624 817 3 0 RT	Die Set only			
		624 817 0 01 RT	Locator only			
<b>TE</b> <small>(Solarlok PV4)</small>	12/10	624 969 3 0 RT	Die Set only			
		624 969 0 01 RT	Locator only			
<b>BizLink/SunBolt</b>	6/8	624 1170 3 0 RT	Die Set only			
		624 1170 0 01 RT	Locator only			
	10	624 1171 3 0 RT	Die Set only			
		624 1171 0 01 RT	Locator only			
	12	624 1300 3 0 RT	Die Set only			
		624 1300 0 01 RT	Locator only			
<b>TongLin</b> <small>(BIG-MB2 / BIG-FB2, BIG-MB4 / BIG-FB4, BIG-MB6 / BIG-FB6, BIG-MB8 / BIG-FB8)</small>	14/12/10/8	624 1472 3 0 RT	Die Set only			
		624 1472 0 01 RT	Locator only			
<b>TongLin</b> <small>(BIG-MB5 / BIG-FB5)</small>	12/10	624 1709 3 0 RT	Die Set only			
		624 1709 0 01 RT	Locator only			
<b>TongLin</b> <small>(BIG-MA2 / BIG-FA2, BIG-MA4 / BIG-FA4)</small>	14/12/10	624 1474 3 0 RT	Die Set only			
		624 1474 0 01 RT	Locator only			
<b>Staubli MC3</b>	14/12/10	624 194 3 0 RT	Die Set only			
		624 194 0 01 RT	Locator only			
	12/10/8	624 348 3 0 RT	Die Set only			
		624 348 0 01 RT	Locator only			

TOOLS FOR OTHER TERMINALS ON REQUEST (E.G. KOSTAL, SMK, YUKITA, HUBER+SUHNER,...).

\* Terminal images are for illustrative purposes only and may differ from the actual product.

\* Special Tool Frame needed (P/N 625 500000 3 RT)

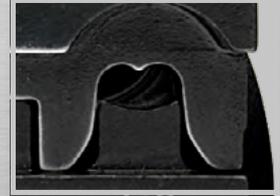
# CSC Multifunction Tool

No more carrying around 3 different tools, when all you really want to do is make a connection. "CSC" stands for Cut - Strip - Crimp, and that's what this tool does. Unique in the industry!

- > For cutting, stripping and crimping of solar contacts with just one tool
- > Includes Die Set
- > Applicable for other wire sizes and connector types
- > Burnished finish, solid construction, easy to handle
- > Made in Germany - made by Rennsteig



**Stripping Area**  
(Round Blades, no wire damage)



**Crimping Area**  
(Specially designed)



**Cutting Area**  
(Special Blade Design)



Application	Wire Gauge	Part#	Description	Terminal*
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>TE Solarlok PV4-S</b>	<b>12</b> <small>(similar to 4 mm<sup>2</sup>)</small>	624 004 3 RT	Tool with Die Set	
		624 004 3 1 RT	Tool with Die Set+Locator	
		624 004 3 0 RT	Die Set only	
		624 004 0 01 RT	Locator only	
	<b>10</b> <small>(similar to 6 mm<sup>2</sup>)</small>	624 006 3 RT	Tool with Die Set	
		624 006 3 1 RT	Tool with Die Set+Locator	
		624 006 3 0 RT	Die Set only	
		624 006 0 01 RT	Locator only	
<b>Amphenol H4</b> <small>CF (machined contacts)</small>	<b>12</b> <small>(similar to 4 mm<sup>2</sup>)</small>	624 1184 3 RT	Tool with Die Set	
		624 1184 3 1 RT	Tool with Die Set+Locator	
		624 1184 3 0 RT	Die Set only	
		624 1184 0 01 RT	Locator only	
	<b>10</b> <small>(similar to 6 mm<sup>2</sup>)</small>	624 1185 3 RT	Tool with Die Set	
		624 1185 3 1 RT	Tool with Die Set+Locator	
		624 1185 3 0 RT	Die Set only	
		624 1185 0 01 RT	Locator only	
<b>Wieland</b> <small>(Gesis Solar)</small>	<b>12</b> <small>(similar to 4 mm<sup>2</sup>)</small>	624 1197 3 RT	Tool with Die Set	
		624 1197 3 1 RT	Tool with Die Set+Locator	
		624 1197 3 0 RT	Die Set only	
		624 1197 0 01 RT	Locator only	
	<b>10</b> <small>(similar to 6 mm<sup>2</sup>)</small>	624 1196 3 RT	Tool with Die Set	
		624 1196 3 1 RT	Tool with Die Set+Locator	
		624 1196 3 0 RT	Die Set only	
		624 1196 0 01 RT	Locator only	
<b>LAPP Epic Solar 4</b>	<b>12</b> <small>(similar to 4 mm<sup>2</sup>)</small>	624 004-L 3 RT	Tool with Die Set	
		624 004-L 3 1 RT	Tool with Die Set+Locator	
		624 004-L 3 0 RT	Die Set only	
		624 004-L 0 01 RT	Locator only	
	<b>10</b> <small>(similar to 6 mm<sup>2</sup>)</small>	624 006-L 3 RT	Tool with Die Set	
		624 006-L 3 1 RT	Tool with Die Set+Locator	
		624 006-L 3 0 RT	Die Set only	
		624 006-L 0 01 RT	Locator only	

### Cutting



### Stripping



### Crimping



At Rennsteig, we stay on top of the market. When new connectors come out and gain ground, you can be sure we'll make die sets for them. What does this mean? It means you don't have to invest in a whole new crimp tool. You can just get an additional die set to fit your existing crimp tool, and you're ready to install the latest gear.

\* Terminal images are for illustrative purposes only and may differ from the actual product.

# eForce® Battery Powered Crimping Tool

<b>Part#</b>	6370 0300 1 RT	6370 0300 1-2 RT
<b>Content:</b>	<ul style="list-style-type: none"> <li>&gt; 1x eForce® Battery Powered Crimping Tool</li> <li>&gt; 1x Battery Charger (Cli 12)</li> <li>&gt; <b>One</b> Li-Ion Batteries (Milwaukee M12) included</li> <li>&gt; Space for Die Sets* and Locators provided</li> </ul>	<ul style="list-style-type: none"> <li>&gt; 1x eForce® Battery Powered Crimping Tool</li> <li>&gt; 1x Battery Charger (Cli 12)</li> <li>&gt; <b>Two</b> Li-Ion Batteries (Milwaukee M12) included</li> <li>&gt; Space for Die Sets* and Locators provided</li> </ul>

- 1 Takes all existing interchangeable crimp Die Sets and Locators (more than 1000) from Rennsteig's Crimp System Tool (P/N 624 000 3)
- 2 Ergonomically designed handle with soft grip, provides comfort and increases control
- 3 Removable battery (12v Li-Ion) eliminates downtime due to recharging
- 4 Drop protection ring
- 5 Reset button, Emergency release
- 6 Convenient to use and has a level, steady base for bench top production
- 7 Compact work area



Tool comes in portable plastic case with storage space.



Ergonomic working height when used for bench top production.



Powerful electromechanical drive mechanism. No accident-sensitive hydraulic components.



Start Button with integrated multifunction LED-Display for indication of:

- Function standby
- Functioning battery capacity
- Overloading

Application	Wire Gauge	Part#	Description	Terminal*		
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b> 	14/12/10	624 570 3 0 RT	Die Set only			
		624 570 0 01 RT	Locator only			
		624 1193 3 0 RT	Die Set only			
		624 1193 0 01 RT	Locator only			
<b>Staubli MC4</b>	12/10/8	624 1301 3 0 RT	Die Set only			
		624 1301 0 01 RT	Locator only			
	12/10 (stamped&formed) and 8 (machined/solid)	624 1364 3 0 RT	Die Set only			
		624 1364 0 01 RT	Locator only			
<b>Amphenol UTX™ S&amp;F</b>	14/12/10	624 1371 3 0 RT	Die Set only			
		624 1371 0 01 RT	Locator only			
<b>Amphenol UTX™-XL/CF</b> (machined contacts)	14/12/10/8	624 1194 3 0 RT	Die Set only			
		624 1194 0 01 RT	Locator only			
<b>Amphenol H4</b> CF (machined contacts)	14/12/10/8	624 1175 3 0 RT	Die Set only			
		624 1175 0 01 RT	Locator only			
<b>Amphenol H4</b> S&F	14/12/10	624 073-1 3 0 RT	Die Set only			
		624 071 0 016 RT	Locator only			
<b>Wieland</b> (Gesis Solar)	12/10/8	624 817 3 0 RT	Die Set only			
		624 817 0 01 RT	Locator only			
<b>TE</b> (Solarlok)	16/14/12/10	624 969 3 0 RT	Die Set only			
		624 969 0 01 RT	Locator only			
<b>TE</b> (Solarlok PV4)	12/10	624 1170 3 0 RT	Die Set only			
		624 1170 0 01 RT	Locator only			
<b>BizLink/SunBolt</b>	6/8	624 1171 3 0 RT	Die Set only			
		624 1171 0 01 RT	Locator only			
	10	624 1300 3 0 RT	Die Set only			
		624 1300 0 01 RT	Locator only			
	12	624 1472 3 0 RT	Die Set only			
		624 1472 0 01 RT	Locator only			
<b>TongLin</b> (BIG-MB2 / BIG-FB2, BIG-MB4 / BIG-FB4, BIG-MB6 / BIG-FB6, BIG-MB8 / BIG-FB8)	14/12/10/8	624 1709 3 0 RT	Die Set only			
		624 1709 0 01 RT	Locator only			
<b>TongLin</b> (BIG-MB5 / BIG-FB5)	12/10	624 1474 3 0 RT	Die Set only			
		624 1474 0 01 RT	Locator only			
<b>TongLin</b> (BIG-MA2 / BIG-FA2, BIG-MA4 / BIG-FA4)	14/12/10	624 194 3 0 RT	Die Set only			
		624 194 0 01 RT	Locator only			
<b>Staubli MC3</b>	14/12/10	624 348 3 0 RT	Die Set only			
		624 348 0 01 RT	Locator only			
	12/10/8	624 348 3 0 RT	Die Set only			
		624 348 0 01 RT	Locator only			

TOOLS FOR OTHER TERMINALS ON REQUEST (E.G. KOSTAL, SMK, YUKITA, HUBER+SUHNER,...).

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# Solar Crimp Sets (preassembled)

This professional set has everything you need to make solar wire connections. All components are high-quality Rennsteig tools designed Made in Germany and specially for the solar industry.



Application	Wire Gauge	Part#	Description	Terminal*
<b>Amphenol H4</b> <small>CF (machined contacts)</small> <b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b> <b>TE</b> <small>(Solarlok)</small>	H4 - 14/12/10/8 MC4 - 14/12/10 TE - 16/14/12/10	624 105-40 RT	Crimp Tool H4-Die Set, H4-Locator MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator Spare Parts	  
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b> <b>Amphenol H4</b> <small>CF (machined contacts)</small> <b>Wieland</b> <small>(Gesis Solar)</small>	MC4 - 14/12/10 H4 - 14/12/10/8 Wieland - 12/10/8	624 105-18 RT	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator Wieland-Die Set, Wieland-Locator, Spare Parts	  
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b> <b>TE</b> <small>(Solarlok)</small> <b>Wieland</b> <small>(Gesis Solar)</small>	MC4 - 14/12/10 TE - 16/14/12/10 Wieland - 12/10/8	624 105-21 RT	Crimp Tool MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator Wieland-Die Set, Wieland-Locator, Spare Parts	  
<b>Staubli MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok PV4-S</b> <b>Amphenol H4</b> <small>CF (machined contacts)</small>	MC4 - 12/10 <small>(stamped&amp;formed)</small> MC4 - 8 <small>(solid/machined)</small> H4 - 14/12/10/8	624 105-51 RT	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator, Spare Parts	  

**You already own our tools? Complete it with a case.**

	Part#	Description
	624 105-25 RT	Space for: - 1x Crimp System Tool - 5x Die Sets - 5x Locators - additional storage space  (includes spare parts)

# Custom Solar Crimp Set “ONE FOR ALL”

Our “Custom Solar Crimp Set”, gives YOU the option to create your own set. With a top-quality Rennsteig Solar System Crimp Tool, Crimp Dies and Locators of your choice - up to 5 different combinations are possible. YOU decide which ones you need. We offer tools for all common manufacturers like Multi-Contact, Tyco, Amphenol, Wieland and many others.

***YOU decide which ones you need!***

## Step by Step

1. Choose your application, you can add a maximum of 5 different Die Sets in the case
2. You can also add a maximum of 5 different Locators in the case
3. If you have added a MC4 Die Set or Locator, you can also add a maximum of 2 Assembly Keys for MC4 couplers.
4. Place an order by using Part# R624 105-12 and the Part#'s shown in the tables after having finished step 1-3.



Basic Item

Empty Tool Frame in portable plastic case

Part# 624 105-12 RT

Application	Wire Gauge	Part#	Description	Terminal*
Staubli <b>MC4</b> , <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F), <b>Leoni</b> (LSC-R1), <b>BizLink</b> (S418-F1A/ S418-F2A), <b>TE</b> Solarlok PV4-S	 14/12/10	624 570 3 0 RT	Die Set only	
		624 1193 3 0 RT	Die Set only	
<b>Staubli MC4</b>	12/10/8 12/10 (stamped&formed) and 8 (machined/solid)	624 194 3 0 RT	Die Set only	
		624 348 3 0 RT	Die Set only	
<b>Staubli MC3</b>	14/12/10 12/10/8	624 1364 3 0 RT	Die Set only	
		624 1194 3 0 RT	Die Set only	
Amphenol <b>UTX™</b> S&F	14/12/10	624 1364 3 0 RT	Die Set only	
Amphenol <b>UTX™-XL/CF</b> (machined contacts)	14/12/10/8	624 1371 3 0 RT	Die Set only	
Amphenol <b>H4</b> CF (machined contacts)	14/12/10/8	624 1194 3 0 RT	Die Set only	
Amphenol <b>H4</b> S&F	14/12/10	624 1175 3 0 RT	Die Set only	
<b>Wieland</b> (Gesis Solar)	12/10/8	624 073-1 3 0 RT	Die Set only	
<b>TE</b> (Solarlok)	16/14/12/10	624 817 3 0 RT	Die Set only	
<b>TE</b> (Solarlok PV4)	12/10	624 969 3 0 RT	Die Set only	
<b>SMK</b>	14/12/10 6/8 10 12	624 1188 3 0 RT	Die Set only	
		624 1170 3 0 RT	Die Set only	
		624 1171 3 0 RT	Die Set only	
<b>BizLink/SunBolt</b>	10 12	624 1171 3 0 RT	Die Set only	
		624 1300 3 0 RT	Die Set only	

Application	Wire Gauge	Part#	Description	Terminal*
Staubli <b>MC4</b> , <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F), <b>Leoni</b> (LSC-R1), <b>BizLink</b> (S418-F1A/ S418-F2A), <b>TE</b> Solarlok PV4-S	 14/12/10	624 570 0 01 RT	Die Set only	
		624 1193 0 01 RT	Die Set only	
<b>Staubli MC4</b>	12/10/8 12/10 (stamped&formed) and 8 (machined/solid)	624 194 0 01 RT	Die Set only	
		624 348 0 01 RT	Die Set only	
<b>Staubli MC3</b>	14/12/10 12/10/8	624 1364 0 01 RT	Die Set only	
		624 1194 0 01 RT	Die Set only	
Amphenol <b>UTX™</b> S&F	14/12/10	624 1364 0 01 RT	Die Set only	
Amphenol <b>UTX™-XL/CF</b> (machined contacts)	14/12/10/8	624 1371 0 01 RT	Die Set only	
Amphenol <b>H4</b> CF (machined contacts)	14/12/10/8	624 1194 0 01 RT	Die Set only	
Amphenol <b>H4</b> S&F	14/12/10	624 1175 0 01 RT	Die Set only	
<b>Wieland</b> (Gesis Solar)	12/10/8	624 071 0 016 RT	Die Set only	
<b>TE</b> (Solarlok)	16/14/12/10	624 817 0 01 RT	Die Set only	
<b>TE</b> (Solarlok PV4)	12/10	624 969 0 01 RT	Die Set only	
<b>SMK</b>	14/12/10 6/8 10 12	624 1188 0 01 RT	Die Set only	
		624 1170 0 01 RT	Die Set only	
		624 1171 0 01 RT	Die Set only	
<b>BizLink/SunBolt</b>	10 12	624 1171 0 01 RT	Die Set only	
		624 1300 0 01 RT	Die Set only	

TOOLS FOR OTHER TERMINAL MANUFACTURERS ON REQUEST.

\* Terminal images are for illustrative purposes only and may differ from the actual product.

# Professional Solar Wiring/Crimping Kits (preassembled)

Save money...by fabricating your own PV wires. This professional kit has everything you need for making solar wire connections, from cutting - stripping - crimping. All components are top-quality Rennsteig tools designed and made in Germany specially for the solar industry.

Every Kit includes:

- > Crimping Die Sets
- > Locators (for correct positioning of the terminal)
- > Insulation stripper
- > Cable cutter
- > Different spare parts
- > Made in Germany - made by Rennsteig



**Free space for  
MC4 Assembly  
Keys**

**Additional  
Crimp Die Sets  
(interchangeable)**

**Protective case  
3 1/4" Height,  
13 1/2" Length,  
10 3/4" Width**

**Crimp System  
Tool**

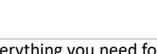
**Additional  
Crimp Die Sets  
(interchangeable)**

**Insulation Stripper**

**Cable Cutter**

Application	Wire Gauge	Part#	Description	Terminal*
Amphenol <b>H4</b> <small>CF (machined contacts)</small> Staubli <b>MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok</b> PV4-S <b>TE</b> <small>(Solarlok)</small>	H4 - 14/12/10/8 MC4 - 14/12/10 TE - 16/14/12/10	624 105-32 RT	Crimp Tool H4-Die Set, H4-Locator MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator, Insulation Stripper, Cable Cutter RG, Spare Parts	  
Staubli <b>MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok</b> PV4-S Amphenol <b>H4</b> <small>CF (machined contacts)</small> <b>Wieland</b> <small>(Gesis Solar)</small>	MC4 - 14/12/10 H4 - 14/12/10/8 Wieland - 12/10/8	624 105-17 RT	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator Wieland-Die Set, Wieland-Locator, Insulation Stripper, Cable Cutter RG, Spare Parts	  
Staubli <b>MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok</b> PV4-S Amphenol <b>H4</b> <small>CF (machined contacts)</small>	MC4 - 12/10 <small>(stamped&amp;formed)</small> MC4 - 8 <small>(solid/machined)</small> H4 - 14/12/10/8	624 105-52 RT	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator, Insulation Stripper, Cable Cutter RG, Spare Parts	  

## Professional Solar Wiring/Crimping Kit <sup>Plus</sup> (preassembled)

Application	Wire Gauge	Part#	Description	Terminal*
Multi-Contact <b>MC3</b> <small>(Solarline 1)</small> Staubli <b>MC4</b> <b>Tlian</b> (T4-PC-1/T4-PPE-1) <b>Twinsel</b> (PV-SY02M/PV-SY02F) <b>Leoni</b> (LSC-R1) <b>BizLink</b> (S418-F1A/S418-F2A) <b>TE Solarlok</b> PV4-S <b>TE</b> <small>(Solarlok)</small>	MC3 - 14/12/10 MC4 - 14/12/10 TE - 16/14/12/10	624 105-23 RT	Crimp Tool MC3-Die Set, MC3-Locator MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator Assembly Tool for mounting of MC3 Couplers, Insulation Stripper, Cable Cutter RG	  



Save money...by fabricating your own PV wires. This professional kit has everything you need for making solar wire connections, from cutting - stripping - crimping. All components are top-quality Rennsteig tools designed and made in Germany specially for the solar industry.

Every Kit includes:

- > Crimping Die Sets
- > Locators (for correct positioning of the terminal)
- > Insulation stripper
- > Assembly Tool for MC3 coupler
- > Cable cutter
- > Different spare parts
- > Made in Germany - made by Rennsteig

You already own our tools? Complete it with a case.	Part#	Description
Empty Kit case for Rennsteig Crimp System Tool	624 105-26 RT	Space for: 1x Crimp System Tool, 1x Insulation Stripper, 1x Cable Cutter, 2x Die Sets, 2x Locators
Empty Kit <sup>Plus</sup> case for Rennsteig Crimp System Tool	624 105-28 RT	Space for: 1x Crimp System Tool, 1x Insulation Stripper, 1x Cable Cutter, 1x Assembly Tool, 2x Die Sets, 2x Locators, Additional storage space

\* Terminal images are for illustrative purposes only and may differ from the actual product.

# Solar wire insulation stripper

Unlike other strippers, that only cut insulation partially and tear the rest, this Rennsteig stripper cuts the insulation around the entire circumference of the wire, and then pulls it gently off the end. There is never any damage to the leads.

Replaceable stripping blades let you configure the stripper to your needs. When the blades wear out, you can replace them without buying a new stripper - for significant savings.

- > For two-stage stripping action
- > Specialized tool with length stop, for precise stripping and dismantling of single and multi-strand cables
- > No pinching or deformation of cable ends
- > Interchangeable blades for different wire gauges
- > Custom blade design upon request
- > Burnished finish, ergonomically designed two-component handles
- > Solid construction, easy to handle
- > Made in Germany - made by Rennsteig



Precise cutting of the insulation to a complete extent.



Positive stripping thanks to precise shape of the blades.



Automatic stripping of the insulation.

Length scale

Adjustable Length Stop

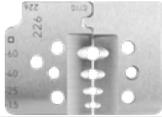
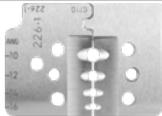
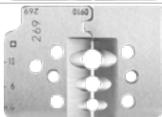
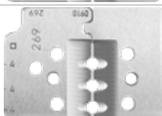
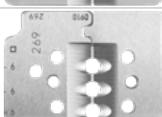
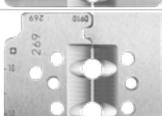
Interchangeable Stripping Blades

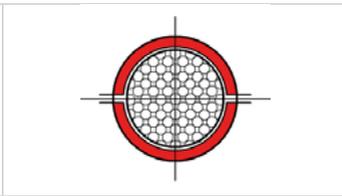
Dual component comfort grip handles

Adjustable length stop with scale

4-piece interchangeable blade set,  
Precision mechanism of hardened spring steel,  
tough and long lasting



Application	Maximum Wire Cross Section	Part#	Blade
Tool for metric solar cable	1.5/2.5/4/6 mm <sup>2</sup> (similar to AWG 16/14/12/10)	708 226 3 RT	
Tool for AWG solar cable	AWG 16/14/12/10	708 226-1 6 RT	
Tool for metric solar cable	4/6/10 mm <sup>2</sup> (similar to AWG 12/10/8)	708 269 3 RT	
Tool for metric solar cable	4 mm <sup>2</sup> (similar to AWG 12)	708 269-1 3 RT	
Tool for metric solar cable	6 mm <sup>2</sup> (similar to AWG 10)	708 269-2 3 RT	
Tool for metric solar cable	10 mm <sup>2</sup> (similar to AWG 8)	708 269-3 3 RT	



Two pairs of blades (1) cut the insulation to complete extent. Then the blade pairs move apart, and thus the insulation is removed form-fit (2). The pliers opens automatically after the stripping procedure.

The shaped blades cuts the insulation completely. (The red area will be cut, no damaging of the cable strands)

Already now more than 250 different stripping blades available!  
Custom blade design upon request.

## Cable Cutter

This specially-designed Rennsteig Cable Cutter gives you clean, straight, burr-free cuts, with no wire end deformation. Wires stay round, so they fit better and more securely into terminals. The ergonomic form factor makes your job easier, too.

- > Perfect for cutting almost all cables (\*Not for steel wire or hard-drawn copper cables)
- > Plastic coated handles
- > Easy, clean, one hand cuts
- > Sharp, hardened, precision-ground blades
- > No crushing or deformation of cables
- > Material: special tool steel, forged
- > Made in Germany - made by Rennsteig



Ergonomic grips

Spring loaded  
(opening spring inside the tool)

Precision ground blades

Safety lock

Tool name	Maximum Wire Cross Section	Part#	Finish	Picture
Cable Cutter	50 mm <sup>2</sup> (similar to AWG 1/0)	700 015 3 RT	Burnished, plastic coated	
Cable Cutter RG	50 mm <sup>2</sup> (similar to AWG 1/0)	700 015 36 RT	Burnished, reinforced plastic grips	
Cable Cutter OS	50 mm <sup>2</sup> (similar to AWG 1/0)	700 016 3 RT	Burnished, spring loaded, plastic coated	
Cable Cutter RGO	50 mm <sup>2</sup> (similar to AWG 1/0)	700 016 36 RT	Burnished, spring loaded, reinforced plastic grips	
Cable Shears D27	150 mm <sup>2</sup> (similar to AWG 5/0)	700 027 2 RT	Burnished, bright ground blades	

## Cable Tie Removal Tool



This tool is especially designed for opening the heads of cable ties without harming bundled items.

- > Light weight
- > Recommended by the aircraft industry
- > Wire tie "capture" cutting design, prevents wire tie head from ejecting into sensitive equipment
- > For areas with limited space
- > Spring loaded
- > Designed for Maintenance and Repair

Tool name	Capacity	Part#	Finish
Cable Tie Removal Tool	Works great with all cable tie strap widths.	8007 5004 6 RT	Two-component handles

## Assembly Key for MC4 couplers

This absolutely ergonomic PVC open end spanner is for tightening and loosening of the cable gland. You can use this key also for breaking connections (open the locking) after they have already been locked together.

To tighten the cable gland, we recommend using two assembly keys.

The Key comes in green.



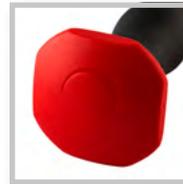
Assembly Key for MC4 couplers (Set of 2)

Part# 690 001 RT

## Automatic Center Punch with Hand Guard

The automatic center punch is a selfstriking tool - used for fast and precise markings. It is mainly used in such fields as precision mechanics, steel engineering and by tool makers and for similar applications. The striking force can be adjusted continuously.

- > Machine steel
- > Precision design
- > Activated by downward pressure (you don't need a hammer)
- > Replaceable hardened pin
- > Single handed operation
- > Nickel plated finish
- > Rugged self striking mechanism
- > Impact force adjustable
- > Hand guard prevents insurance
- > Made in Germany - made by Rennsteig



Center Punch Size I - 20 - 50 N Striking Force

Part# 430 229 RT

## Dual-Edged Screw Extractor (Easy-Outs)

PATENTED

This Dual-Edged Screw Extractor represents a new generation of its kind and is used to remove ruined screws or bolts out of threads. This technology can be used on right-hand and left-hand threads.

- > For unscrewing ruined screws and bolts without damaging threads
- > Unique design allows both left and right-handed turning
- > Extractor is driven into the bore hole for a safe and secure hold
- > Integrated center punch pin for precision work
- > Non-slip and dual-edged engagement with the screw or bolt to be removed
- > Material: chrome vanadium steel, for longer tool life
- > Surface: burnished, cutting edges polished
- > Made in Germany - made by Rennsteig



Content	Screw Size Inch		Screw Size	
	Min	Max	Min	Max
Size I	3/16	1/4	M5	M6
Size II	5/16	3/8	M8	M10
Size III	7/16	1/2	M10	M12



Screw Extractor set in plastic case (Size I/II/III)

Part# 471 903 3 RT

## Cut Off Tool (called Singulator)

- > Tool to separate terminals from terminal-reel, coil up to a material thickness of 1/32"
- > Produces a clean cut of multiple terminals at once – for more efficiency
- > Versatile tool, works with most standard metal strip reels



Side Feed, Front Carrier Strip

Center Feed Terminal Strips

End Feed Terminal Strips

Tool name	Part#	Description	Stock Thickness	Finish
Cut Off Tool (called Singulator)	625 41551 3 RT	<p>Rennsteig Cut Off Tool (called Singulator)</p> <p>This hand tool was developed to separate terminals from the carrier strip.</p> <ul style="list-style-type: none"> <li>• With this tool you can cut single or multiple pieces in one step</li> <li>• The Cut Off Tool enables operators to easily cut side-feed, front-carrier terminal strips and reels - the operator creates loose piece terminals</li> <li>• All components are long life tested</li> <li>• The hand tool produces a clean cut (perfect cut-off tab)</li> </ul>	max. 1/32"   0.7 mm	Two-component handles

# Assembly Tool for mounting of MC3 couplers

The MC3 Assembly Tool is a high quality device that is used for inserting the crimped solar PV cable into the rubber housing in order to build a fully insulated MC3 connection.

- > Suitable for assembling MC3 connectors from 14/12/10/8 AWG (similar to 2.5/4/6/10 mm<sup>2</sup>)
- > Can be used for both male and female connections
- > Ergonomic and effortless
- > Up to 3 spindles can be stored in grip
- > Made in Germany - made by Rennteig

Suitable for on-site use, on roofs, etc.



Application	Wire Gauge	Part#	Description	Terminal*
Multi-Contact MC3	14/12/10/8	725 000 RT	Complete Tool w/ all spindles for mounting of MC3 couplers	

## Private Label

To enhance our customers marketing position, we offer a private labeling service which provides you the following options:

- > Your logo on the tool
- > Ergonomic 2- component handles can be varied in color
- > Customized labeling



## Custom Design

In addition to our standard product line, we offer custom design tooling. We have the knowledge, skill and capacity to meet any customer specifications, and we specialize in meeting customer requirements.

## ON REQUEST

**Rennsteig will offer a Crimp Tool Solution for the crimping of C-TAPS.**

**RED**  
12-16  
54705  
TWCTR10T16

**BLUE**  
8-12  
54710  
TWCTR8T12  
YC8L12

**GRAY**  
6-12  
54715  
TWCTR6T12  
YC6L12

**BROWN**  
4-12  
54720  
TWCTR4T12  
YC4L12

**GREEN**  
3-12  
54725  
TWCTR3T12  
YC3L12



# Rennsteig Tools, Inc. - Precision Tools Made in Germany



A leading US and German producer of high quality hand tools, Rennsteig Werkzeuge designs and manufactures state of the art crimping, cutting, and stripping tools. The company follows a long tradition of specialty hand tool development and manufacturing which enables it to craft exceptionally dynamic hand tools. In January 2006, Rennsteig Werkzeuge established Rennsteig Tools Inc. with a sales office in Hudson, Ohio to better serve the North American market (including Canada and Mexico). From this location, the company provides precision tools that conform to USCAR 21 and other North American specifications. Rennsteig Tools Inc. supplies distributors, dealers, OEMs, secondary suppliers and individuals across various industries.

In **November 2009**, Rennsteig emphasized its commitment to US market with the opening of a new warehouse in Somerdale NJ.

In **August 2010**, Rennsteig moved from Hudson, OH to a new Sales Office in Rutherford, NJ.

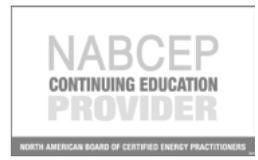
In **October 2013**, Rennsteig opened a new technical office in Texas. Rennsteig offers the right tools to help you do a professional job by making electrical connections neat, durable, and fast.

In **June 2015**, RENNSTEIG TOOLS, INC. opened a service point in Illinois.

In **July 2016**, RENNSTEIG TOOLS, INC. moved from Rutherford, NJ to Hackensack, NJ.



Member of  
AMERICAN  
SOLAR  
ENERGY SOCIETY



## State-of-the-art production - The core of our company!



**Rennsteig can help you streamline your solar installs, by giving you the tools you need to do a fast, professional job. These precision cutting, stripping and crimping tools are specifically engineered for the wires and terminals specific to the solar industry. Our top-quality tools are designed for durability and efficiency, and give you consistently excellent results. RENNSTEIG TOOLS MEET THE REQUIREMENTS OF EVERY PROFESSIONAL USER.**



## Other products we manufacturer.



TOOLS FOR AUTOMOTIVE



INSERTION & EXTRACTION TOOLS



ASSEMBLY TOOLS



TOOLS FOR OPTICAL FIBER



BATTERY OPERATED HEAVY DUTY CRIMPERS



HARDWARE

# REDUCE INSTALLATION COSTS...



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## RENNSTEIG TOOLS, INC.

*Warehouse*

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Somerdale, NJ 08083

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mail: [warehouse@rennsteig.us](mailto:warehouse@rennsteig.us)



...BY FABRICATING  
YOUR OWN PV  
WIRES

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rti 02/2020

*We are the manufacturer. WE KNOW HOW!*