



PC160i Crimper
with CrimplQ™ Controller
Operator Manual



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PC160i Crimper Specifications



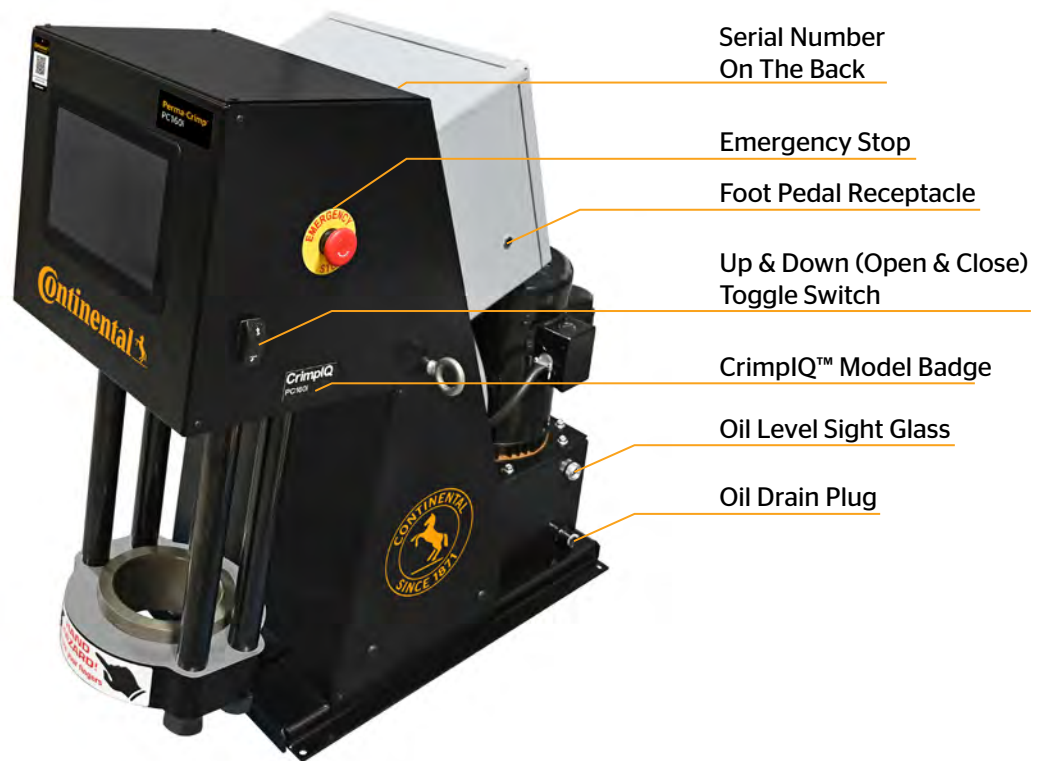
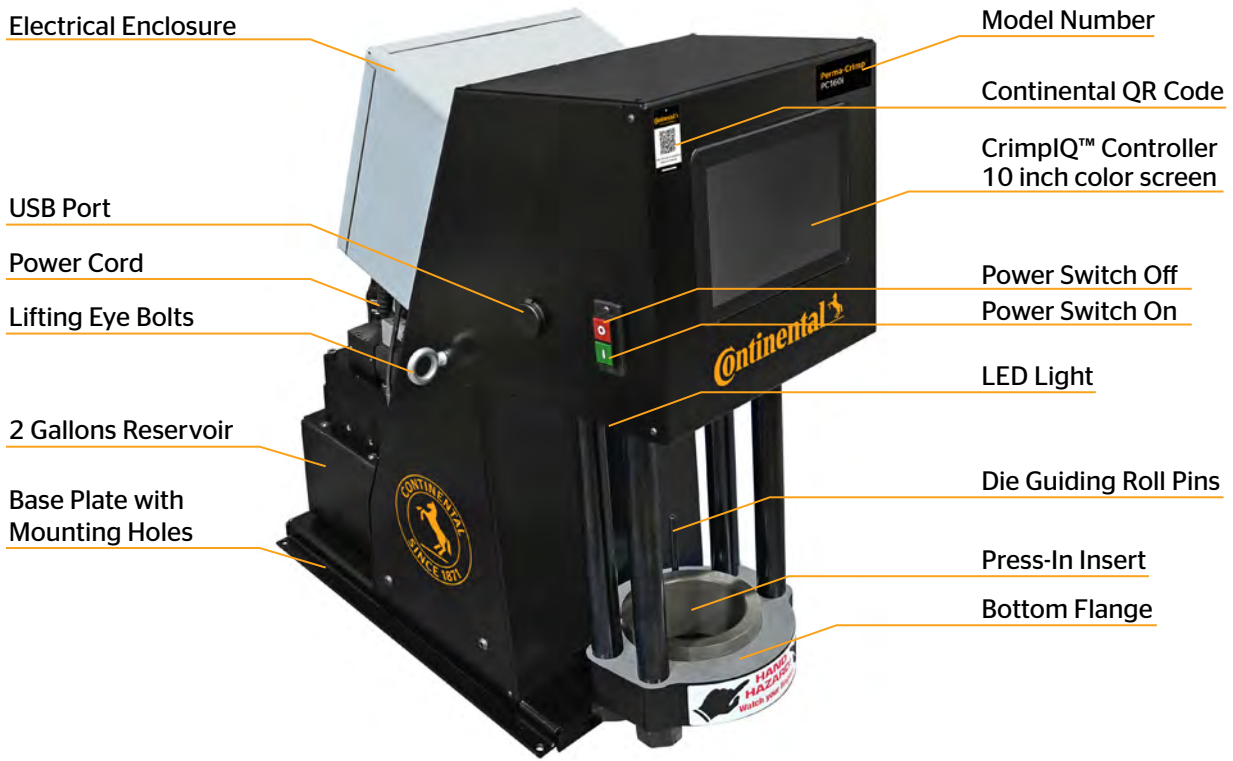
PC160i Specifications	
Crimping Force	160 Tons
Hydraulic Hose Capacity	(-20) SG Fittings (-32) B2 Fittings (only w/ wide body dies)
Controller	CrimplQ™
Adjustability	Inch / Metric
Die Series	PC160i PC160i Wide Body
Crimper Weight	400 lbs
Crimper Size	L: 31¼" x W: 16½" x H: 33½"
Power	2HP / 220V / 1Phase (Standard)
Reservoir Capacity	2 US Gallons
Oil Type	ISO 46 Hydraulic Oil

SAFETY PRECAUTIONS



- Read instructions and identify all component parts before using the crimper.
- Crimper can produce 160 tons of crimping force, keep both hands away from pinch points.
- Consult the Continental Hydraulic Crimp Specifications Manual or via our mobile app - C-IQ for correct crimper settings and crimp measurements.
- Always wear eye protection.

PC160i Crimper Identification



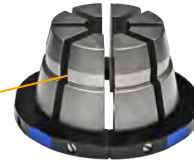
PC160i Die Installation Guide



Pusher



Compression Ring



Die Set



Pressure Plate with Die Retention Plate



Pusher



WB (Wide Body) Press Plate

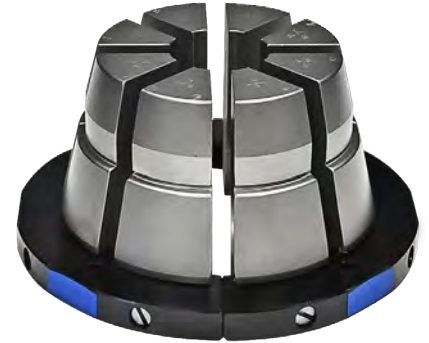


(Wide Body) Die Set

Press-In Insert

PC160i Dies

PC160i Dies			
SAP #	Description	Color	ID
20244949	PC160i-8.5 MM	Black	8.5 MM
20244950	PC160i-12 MM	Black	12 MM
20244951	PC160i-14 MM	Red	14 MM
20244952	PC160i-16MM	Blue	16 MM
20244953	PC160i-19 MM	Green	19 MM
20244954	PC160i-23 MM	Yellow	23 MM
20244955	PC160i-27 MM	Brown	27 MM
20244956	PC160i-31 MM	Silver	31 MM
20244957	PC160i-34 MM	Purple	34 MM
20244958	PC160i-41 MM	Orange	41 MM
20244959	PC160i-45 MM	Black	45 MM
20244960	PC160i-50 MM	Black	50 MM
20244961	PC160i-56 MM	Black	56 MM



PC160i Wide Body Dies			
SAP #	Description	Color	ID
21188164	PC160i-49 MM WB Die	Black	49 MM
21188165	PC160i-53 MM WB Die	Black	53 MM
21188166	PC160i-58 MM WB Die	Black	58 MM
21188167	PC160i-62 MM WB Die	Black	62 MM
21188168	PC160i-65 MM WB Die	Black	65 MM
21188169	PC160i-69 MM WB Die	Black	69 MM
21188220	PC160i-74 MM WB Die	Black	74 MM



PC160i Crimper Initial Set Up

Note: • Follow these steps before you use the PC160i crimper for the first time.

Caution: Lifting eye bolts have been provided for safe handling of the PC160i. Lift only with a chain or lifting straps capable of supporting at least 450 lbs.

The crimper should be mounted close enough to the edge of the work surface so that the hose being crimped will not contact the bench or work surface. There must be enough clearance for the hose to align perpendicular with the cone base, or the dies will not seat properly and the crimp will not be accurate.



Check the electrical circuit to be certain that it matches the crimper requirements shown on the tag attached to the crimper cord.

Caution: Do not run the PC160i crimper on an extension cord, as low voltage can damage the motor and / or electrical components.



Check to be certain that the shipping plug in the pump reservoir has been replaced with the vent plug.



Always check the oil level in the pump reservoir, it should be 1-1/2 to 2 inches below the vent plug when the cylinder is in the retracted position and it should be visible in the sight glass window of the pump reservoir.

- Notes:**
- If oil needs to be added use ISO 46 weight hydraulic oil.
 - Oil can be drained from the rear oil port of the reservoir.



PC160i Die Lubrication Procedure

Grease Point # 1

Apply a thin layer of CrimpX grease (supplied with the crimper), or a molybdenum disulfide high pressure grease to the Pressure Plate with Die Retention Plate on the entire surfaces that come in contact with the press-in insert before it is inserted.



Grease Point # 2

Once the Pressure Plate with Die Retention Plate is inserted into the press-in insert, apply a thin layer of CrimpX grease (supplied with the crimper), or a molybdenum disulfide high pressure grease on the entire surface the dies sit on.



Grease Point # 3

Before placing the Compression Ring over the correct die set, apply a thin layer of CrimpX grease (supplied with the crimper), or a molybdenum disulfide high pressure grease on the entire inner surface that the die set come in contact with.



Caution: If Dies Are Sticking In The Surface Of The Compression Ring: Continue to lubricate / grease as explained above in addition to lubricating each die finger individually.



Notes:

- Lubrication is not required before each crimp.
- Typical lubrication is after 100 crimps.

PC160i WB (Wide Body) Die Lubrication Procedure

Grease Point # 1

Apply a thin layer of CrimpX grease (supplied with the crimper), or a molybdenum disulfide high pressure grease on the entire inner surface of the press-in insert.



Grease Point # 2

Before sliding the WB (Wide Body) Press Plate over the correct die set, apply a thin layer of CrimpX grease (supplied with the crimper) or a molybdenum disulfide high pressure grease on the entire area that die set come in contact with.

Note:

- Lubricate the bottom surface of the WB (Wide Body) Press Plate with the arrows pointing down.



Caution: If Dies Are Sticking In The Surface Of The Press-In Insert: Continue to lubricate / grease as explained above in addition to lubricating each die finger individually.

Notes:

- Lubrication is not required before each crimp.
- Typical lubrication is after 100 crimps.



Initial Crimper Setup

Overview

Before the crimper can be used for the first time, a brief setup process must be completed. This process sets some initial parameters, identifies this machine to the CrimpCloud® system and allows the user to confirm the Terms and Conditions for use of this machine.

This process only needs to be completed once when the machine is installed. After that, the machine will power up and be ready for use.



Use your smartphone to scan the Continental QR Code to get full access to the operator's manuals to familiarize yourself with Logging In, Navigating the CrimpIQ™ Controller and Features, Using the Main Menu, Crimper Operations, Connecting Bluetooth Calipers, and other topics.

Note: • The crimping procedure found in this quick start guide can be used when you are crimping with PC160i dies or PC160i WB (Wide Body) dies.

PC160i Die & Tooling Alignment Procedure

- Notes:**
- Follow the lubrication procedure prior to crimping.
 - **Caution:** Failure to lubricate will cause damage to the die set and crimper.

Step 1: Make sure that the **Press-In Insert** is clean.



Step 2: Insert the **lubricated Pressure Plate with Die Retention Plate** into the press-in insert making sure that is seated firmly and squarely into the press-in insert.



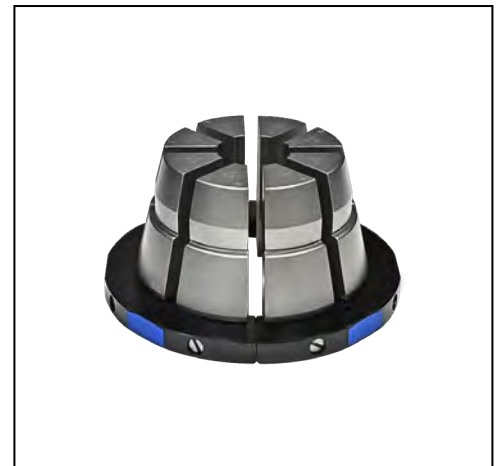
Note:

- **Caution:** Do not misalign the Pressure Plate with Die Retention Plate or damage will occur, if it is not aligned properly.



Step 3: Select the correct **PC160i Die Set** for the combination of hose and fitting being crimped.

- Notes:**
- The correct die set can be found in the Continental Hydraulic Crimp Specifications Manual or via our mobile app - C-IQ.
 - The number etched on the die ring represents the fully closed diameter of the die set in either inches or millimeters depending upon the die set, also is color-coded for easy identification.



PC160i Die & Tooling Alignment Procedure

Step 4: Place the **Half of the PC160i Die** in the pressure plate with die retention plate.

Note: • Pay close attention in the position of the (half) die, this will be the proper alignment then place the other half of the die.

Note: • **Caution:** Do not position the (half) of the die as shown in the picture this will result in a wrong alignment of the PC160i die set .

Notes: • Proper alignment of the PC160i die set is shown in the picture.

• Make sure the **split of the die rings** is facing you as shown in the picture.

Step 5: Select the correct **Hose and Fitting** for your project.

Note: • The proper hose assembly can be found in the Continental Hydraulic Crimp Specifications Manual or via our mobile app - CIQ.



PC160i Die & Tooling Alignment Procedure

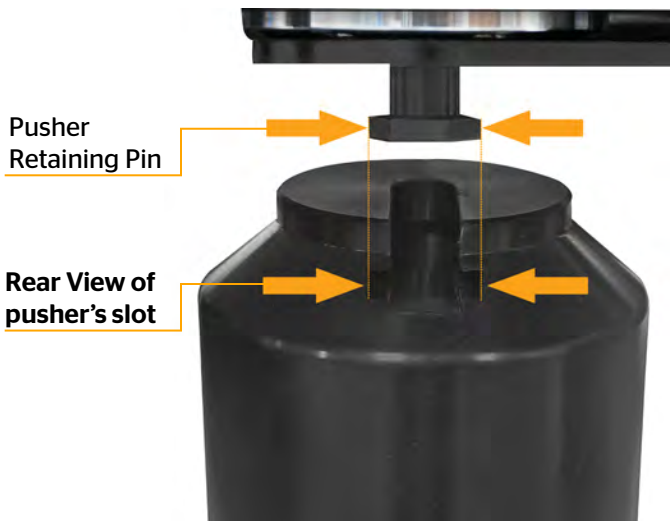
Step 6: Position the hose and fitting into the die set, then place the **lubricated Compression Ring** over the die set.

- Notes:**
- The proper hose assembly alignment can be found in the Continental Hydraulic Crimp Specifications Manual or via our mobile app - C-IQ.
 - Manually depress the compression ring, closing the die set until the hose and fitting are held loosely in the die set.



Step 7: Slide the **Pusher** onto the pusher retaining pin on the hydraulic cylinder.

- Notes:**
- Make sure the pusher retaining pin goes into the pusher's slot. (**see the example below for details**).
 - **Caution:** Damage to the pusher and retaining pin can occur if they are misaligned.



Front view of the crimper (Pusher Retaining Pin)



Caution: Make sure the pusher retaining pin goes into the pusher's slot.

- Note:**
- If you are ready to crimp go to page 16 for crimper operations.

PC160i WB (Wide Body) Die & Tooling Alignment Procedure

- Notes:**
- Follow the lubrication procedure prior to crimping.
 - **Caution:** Failure to lubricate will cause damage to the die set and crimper.

Step 1: Make sure that the **Press-In Insert** is clean and lubricated.



Step 2: Select the correct **PC160i WB (Wide Body) Die Set** for the combination of hose and fitting being crimped.

- Notes:**
- The correct die set can be found in the Continental Hydraulic Crimp Specifications Manual or via our mobile app - C-IQ.
 - The number etched on the die ring represents the fully closed diameter of the die set in either inches or millimeters depending upon the die set, also is color-coded for easy identification.



Step 3: Insert the **PC160i WB (Wide Body) die set** with the die fingers pointing down.

- Notes:**
- Proper alignment of the PC160i WB (Wide Body) die set is shown in the picture.
 - Make sure the **split of the die rings** is facing you as shown in the picture.



- Note:**
- **Caution:** Make sure that the die halves **DO NOT** overlap.



PC160i WB (Wide Body) Die & Tooling Alignment Procedure

Step 4: Place the **lubricated WB (Wide Body) Press Plate** over the die set.

Note:

- Make sure that the WB (Wide Body) Press Plate is placed with the arrows pointing down.



Step 5: Select the correct **Hose and Fitting** for your project.

Note:

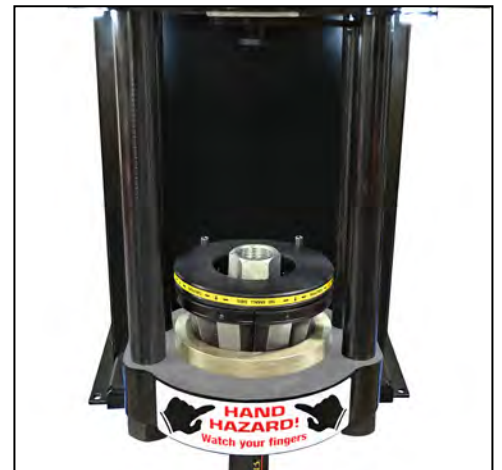
- The proper hose assembly can be found in the Continental Hydraulic Crimp Specifications Manual or via our mobile app - C-IQ.



Step 6: Position the Hose and Fitting into the WB (Wide Body) die set and make sure the die set and press plate are aligned properly as shown in the picture.

Note:

- The proper hose assembly alignment can be found in the Continental Hydraulic Crimp Specifications Manual or via our mobile app - C-IQ.



Step 7: Slide the **Pusher** onto the pusher retaining pin on the hydraulic cylinder.

Notes:

- Make sure the pusher retaining pin goes into the pusher's slot. (see the example on page 12 for details, if needed).

- **Caution:** Damage to the pusher and retaining pin can occur if they are misaligned.

Note:

- If you are ready to crimp go to page 16 for crimper operations.

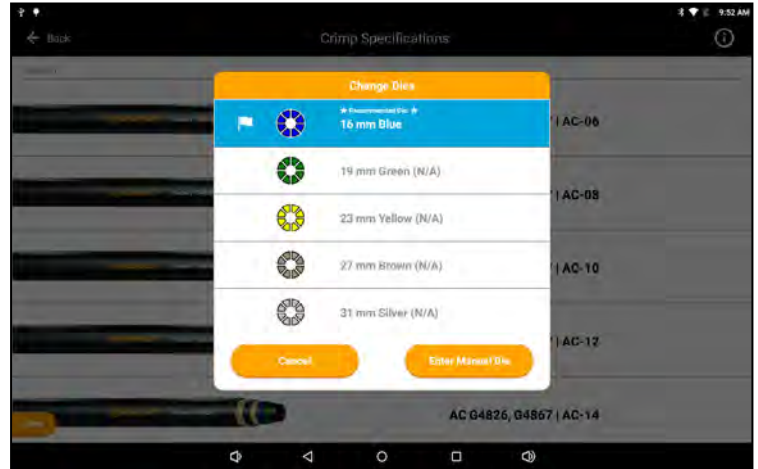


Crimper Operations

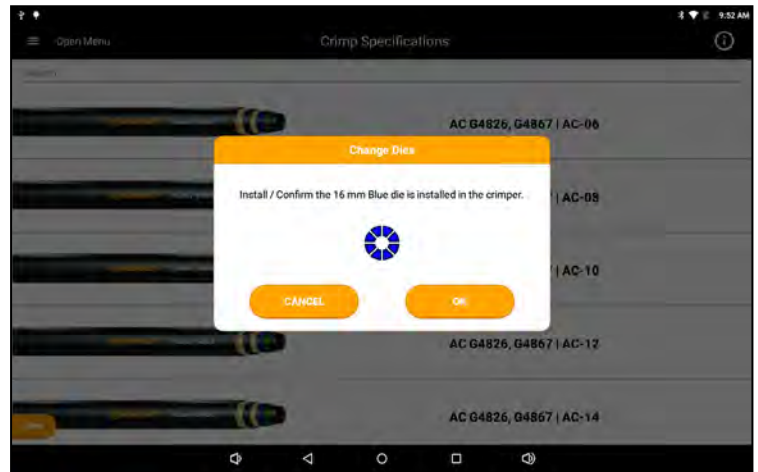
Step 1: After you have logged in, you will be presented with a list of crimp specifications that you can scroll through or search with the search function at the top. Once you have found your desired crimp specification, tap on it to select it.



Step 2: The Change Dies screen will automatically appear and prompt you with the best recommended die for your selection. Verify this die is loaded into the machine and then proceed by tapping the screen on the highlighted die.



Step 3: Once you have selected the die, install it into the machine and confirm that it is installed in the crimper by tapping the ****OK**** button.



Note:

- The first crimp always needs to be measured to ensure the crimp is within tolerance of the crimp diameter.



Crimper Operations

- Note:**
- If you are crimping with PC160i dies make sure that the tooling and the die set have the proper alignment as mentioned in the **PC160i Die & Tooling Alignment Procedure**.



- Note:**
- If you are crimping with PC160i WB (Wide Body) dies make sure that the tooling and the die set have the proper alignment as mentioned in the **PC160i WB (Wide Body) Die & Tooling Alignment Procedure**.



Step 4: Press and Hold DOWN the toggle switch to make a crimp.

- Note:**
- The crimper will stop automatically once has reached the crimp target.

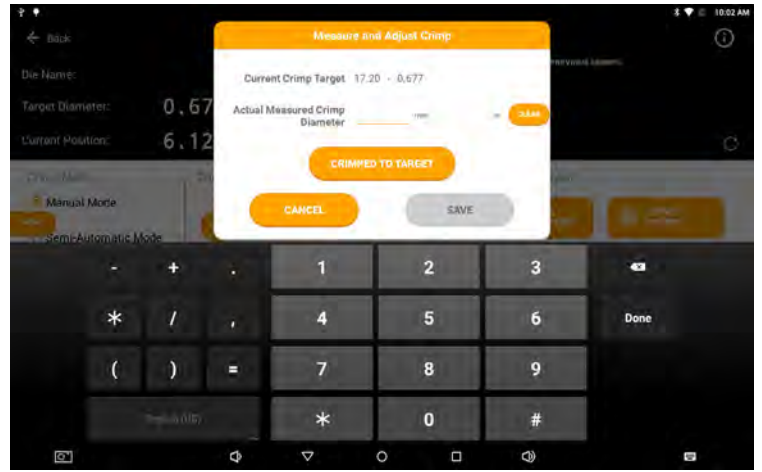


Step 5: Once the ram is fully extended compressing the compression ring or the WB (Wide Body) press plate onto the die set to crimp the fitting, the crimper will stop automatically.



Crimper Operations

- Notes:**
- Once the crimp is completed the **Measure and Adjust Crimp** screen will pop up, the crimper will always prompt the user to measure the first crimp. The crimper uses this measurement to adjust the crimper to correctly crimp the next crimps.
 - Wait until you measured the crimp diameter of the finished assembly. If the crimp diameter measurement matches the current crimp target, press the **CRIMPED TO TARGET** button to automatically enter the measurement with a single button press.



- Step 6:** Once the crimp is completed, **Press and Hold UP** the toggle switch to allow the pusher to return to the retracted position and then remove the hose assembly.

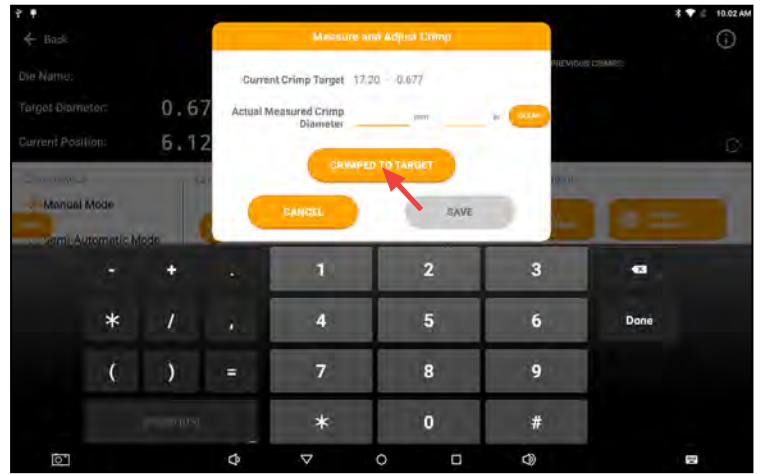


- Step 7:** Check the crimp diameter of the finished assembly with calipers or micrometers to be certain that it is within the specifications as outlined in the **Continental Hydraulic Crimp Specifications Manual** or via our mobile app - C-IQ.



Crimper Operations

Step 8: If it is correct, then from the **Measure and Adjust Crimp** screen press **CRIMPED TO TARGET**.



Step 9: Press **Done**, to stop crimping.



Crimp Mode

The crimper can operate in any of 3 different modes:



Manual Mode:

Use this mode to manually Open/Close the head. Pressing and holding down the toggle switch will close the head to the target position and no further.

Semi-Automatic Mode:

This mode allows the user to manually close the head to the target position. Once the crimper reaches the target position, the crimper will automatically open back to the retraction point.

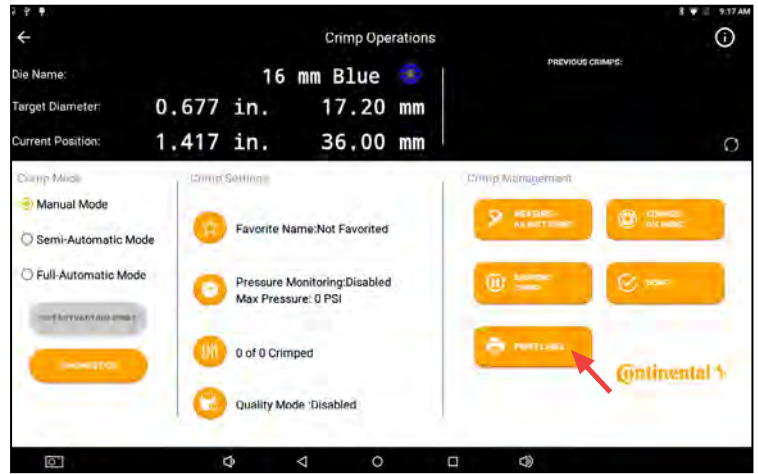
Full Automatic Mode:

This mode allows the crimper to complete a complete cycle (close then open) with just a single push of the down toggle switch. Once the hose and fitting are correctly positioned, press the down toggle switch once and the crimper will close to the target position and then automatically open back to the retraction point.

Note: • In either of the automatic modes, the foot pedal can also be used in place of the Down toggle switch.

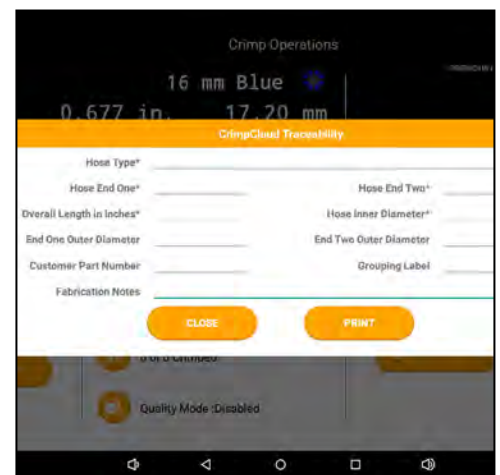
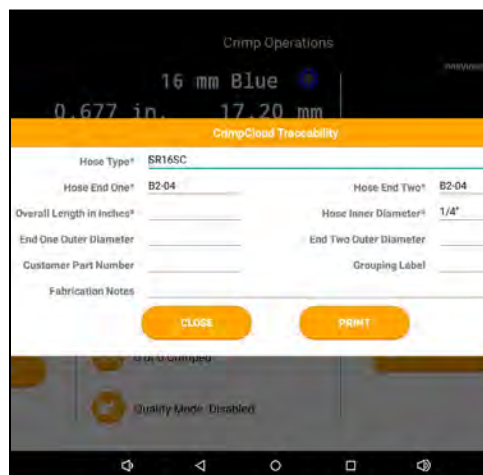
How To Print Traceability Labels

Step 1: Once the crimping is finalized you can see the **Print Label** button being active. If it's gray, you are either not connected to the internet or there is no active CrimpCloud® subscription.



Step 2: Once you tap on the button you can see the input fields. Please note that if you used the crimp Hose via MyCrimp, there are fields prepopulated. You can fill out the following fields:

Field	Description	Value
Hose Type	Name/Brand of the Hose	Mandatory
Hose End One	Name/Type of the Fitting	Mandatory
Hose End Two	Name/Type of the Fitting	Mandatory
Overall length in Inches	Total length of the assembly in Inches	Mandatory
End One Outer Diameter	Crimped outer diameter End One (preferred unit of measure)	Optional
End Two Outer Diameter	Crimped outer diameter End Two (preferred unit of measure)	Optional
Customer Part Number	Optional - will be displayed on the label	Optional
Grouping Label	Used for creating kits or bundle hoses together	Optional
Fabrication Notes	Free text field for comments	Optional



Step 3: Once you tap on **Print** the label is created and the hose assembly is printed in the CrimpCloud® database.

How To Connect To Bluetooth Calipers

The CrimpIQ™ Controller supports the ability to integrate with Bluetooth Calipers, allowing for fast and easy wireless transfer of measured crimp diameter to the controller.

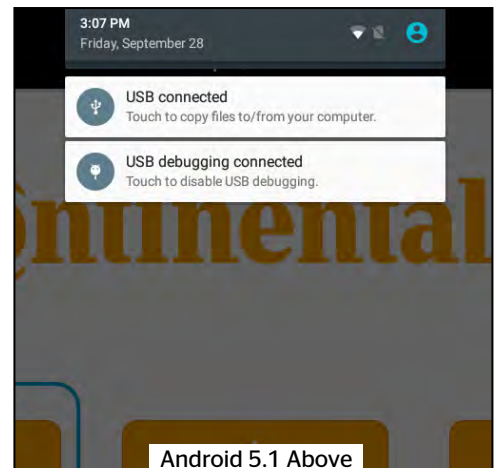
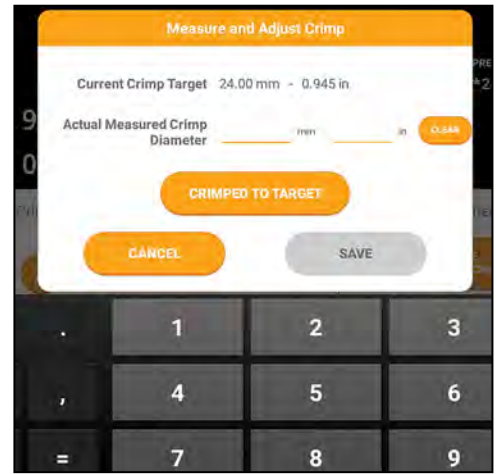
Initial Set up - Caliper with Wireless Bluetooth

Step 1: Use the small flat screw driver supplied, to open the battery compartment and install the battery then insert it into the calipers.

Note: • To replace battery when needed, use a CR2032 3V battery for the wireless bluetooth calipers.

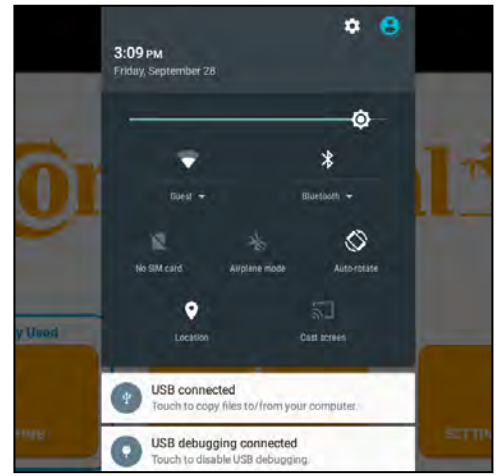
Step 2: With the caliper fully closed, the caliper screen should show 0.00 inches/millimeters when at the zero position. If needed hold the origin button for 2 seconds to reset at the zero position.

Step 3: **Access the device's Bluetooth Settings:** Swipe down from the upper right of the device screen, to reveal an options panel. Tap the Bluetooth button to open the Bluetooth management page.

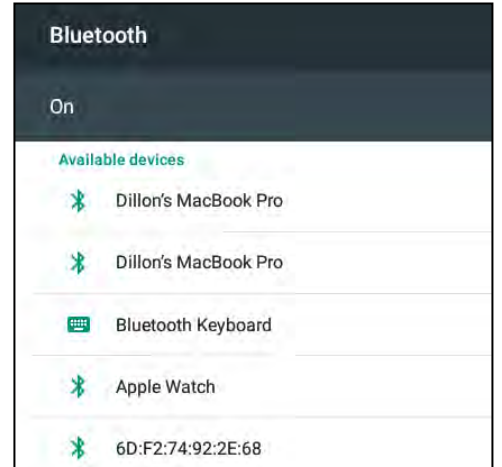


How To Connect To Bluetooth Calipers

Step 4: Tap gray area in pull down menu and tap the Gear icon to show full settings menu.



Step 5: Tap the Bluetooth Button and launch the Bluetooth Menu.



Step 6: Hold Bluetooth Accessory button, until the blue light blinks.

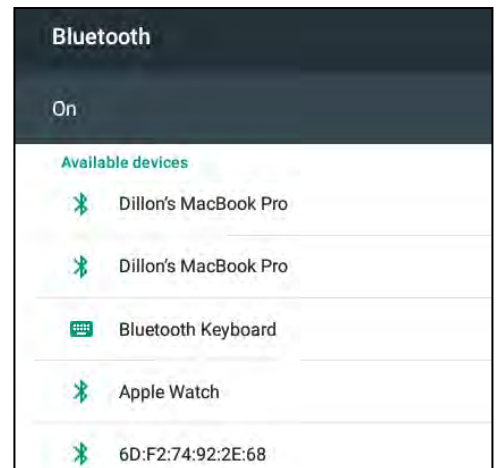
Note: • *Firmly press and hold on the Bluetooth accessory's click button for approximately 5 seconds, or until the blue light begins to flash.*



Step 7: Find the Bluetooth Accessory in the list of all available devices: First, make sure that the Bluetooth feature switch is in the On position. When Bluetooth is enabled and the blue light on the adapter is flashing, the device should appear on the list with the name "Bluetooth Keyboard", and you should see other devices available as well, for nearby phones or computers. It is possible that the device will appear with no name, or a name such as

OF : 5E : 12 : 9A : B4

, or any other group of letters and numbers. If a series of letters appears, you should still see the gray keyboard icon to the left of the device name. Tap on this item in the list while the blue light is still flashing on the calipers to begin the syncing process.



How To Connect To Bluetooth Calipers

Step 8: Test Using the Caliper: The calipers will still work in text entry fields in the app where a diameter needs to be entered. Just make your measurement and tap once on the silver entry button on the Bluetooth Accessory.

Note: • The accessory automatically powers itself off when not in use (you still need to power the caliper screen off between each use), and will turn back on after pressing the button. With this behavior, it may take a second for the calipers to register a measurement when performing a first measurement of the day.

Troubleshooting: Number Pad Not Showing

If you find testing the calipers that the number pad isn't displaying on screen to manually enter values or login as different Users it is because the **Show Input Method** setting is off. This should be turned ON during setup but if it is ever missed it can be fixed manually.

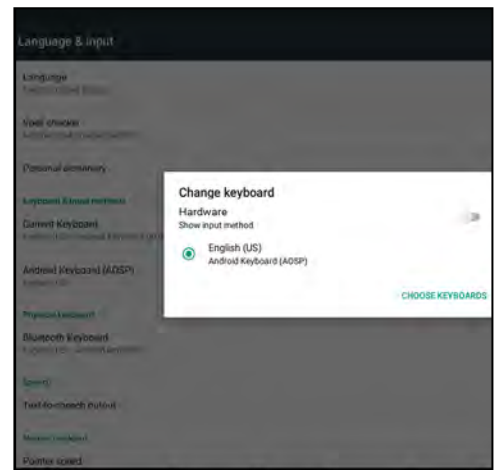
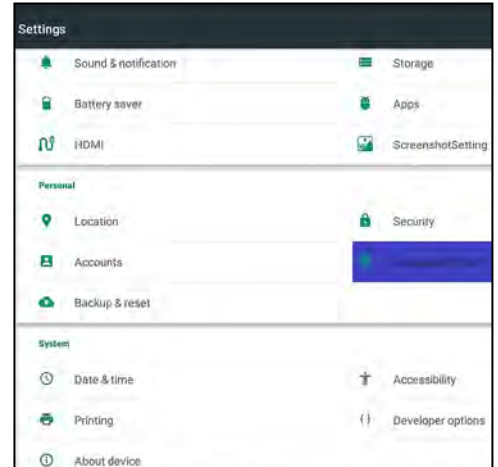
Solution:

Step 1: First go to the Android Settings screen outlined in Step 1.

Step 2: Then scroll down, and in the **Personal** section, tap on **Language & Input**

Step 3: Once in Language & Input, tap **Current Keyboard** in the Keyboards & input methods section.

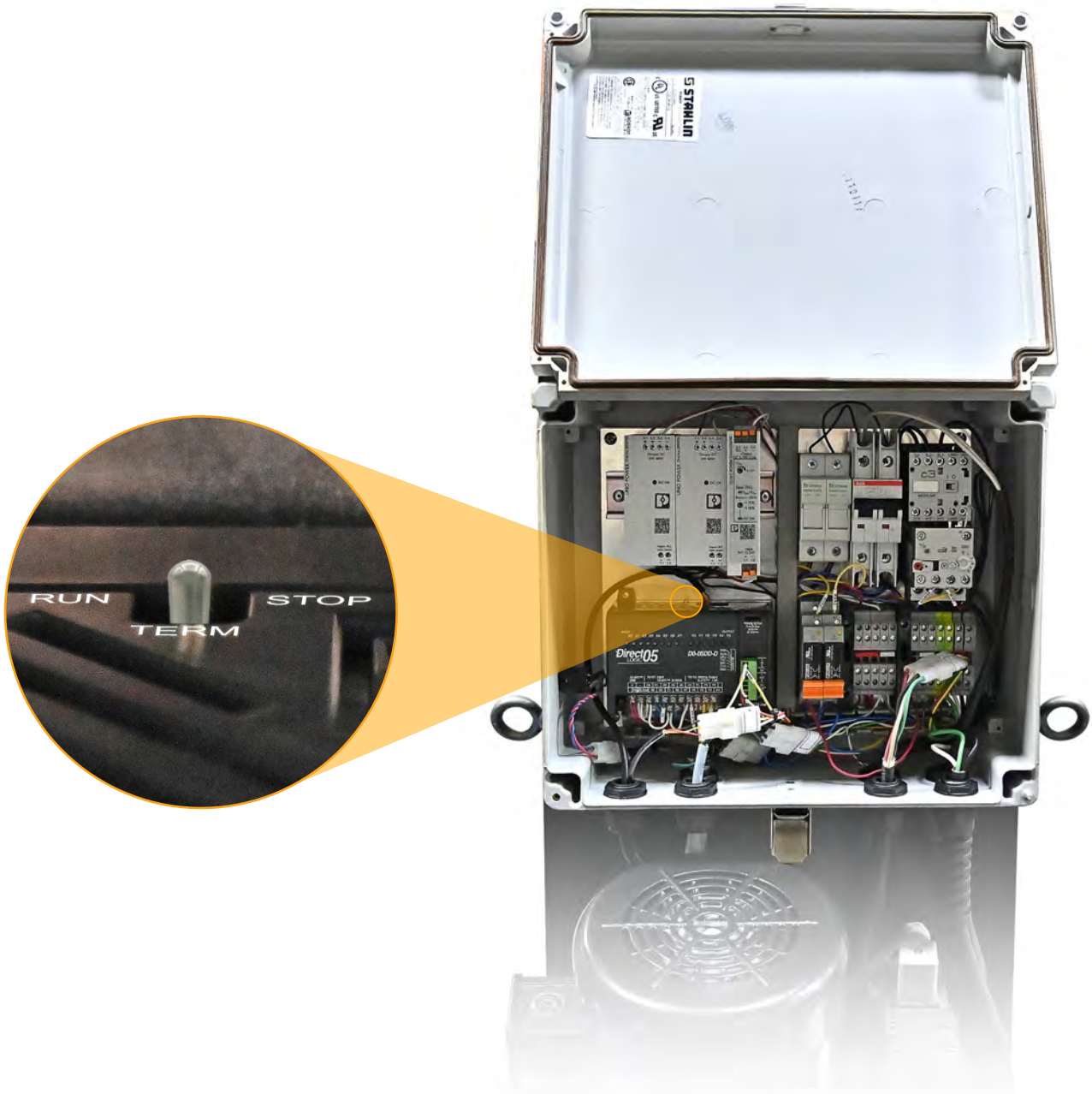
Step 4: A dialog will appear. Tap **Hardware: Show input method** to turn its toggle to the ON position. The dialog should close automatically.



Additional Notes about the Bluetooth Caliper Accessory:

- If power is lost to the Bluetooth Accessory (for example, if the battery dies) replace the battery and hold the send button on the module until it beeps and the blue light blinks. This should reconnect the module to the tablet. If the device does not connect automatically, follow the steps above to reconnect the accessory.

PC160i PLC Reset Procedure



The PLC (Programmable Logic Controller) requires a relatively constant source of electrical power. Power surges, outages or drops in power can cause the PLC to lose its settings. This may result in missing or misplaced information on the controller screen.

Resetting the PLC to Its Original Settings

- Open the back electrical enclosure.
- Power up the crimper from the main power switch. The crimper must be powered on during the PLC reset procedure.
- Move the three-position toggle switch on top of the PLC right to the STOP position and then left to the RUN position.
- Return the toggle switch to the center TERM position.
- Cycle the main power off and back on.
- The PLC and the crimper should now operate normally.
- Close the electrical enclosure.

PC160i SHOP IN A BOX



Heat shrink gun and starter kit

1-1/4" Hand Held Launcher

Nozzle Holder

1/4 thru 1-1/4" projectile starter kit

PC160i Shop in a Box Standard Package Includes:

Description	Qty	Description	Qty
1 36" Hose Reel Rack (Hose spools not included)	1	10 PC160i Tooling Box, and Tooling Mat	1
2 6' LED Light Kit	1	11 PC160i Crimper (Dies, Shelf and Tooling Box)	1
3 6' Continental Sign	1	12 5' 110V Power Strip	1
4 Hose Helper prevents the hose from being drawn back during a cut and gives the operator the ability to more precisely control the cut length	1	13 4 Drawer Cabinet with Small and Large Bins	1
5 10' Continental Air Hose with Nozzle	1	14 Die Shelf	1
6 HS-501 Hose Saw (Handle, Vacuum Port, and Alignment Pins)	1	15 Foot Pedal	1
7 Insertion Block Assembly (B2 and SG blocks, 2 Paint Markers)	1	16 Adjustable Feet	4
8 CrimpIQ™ Tablet and Mounting Arm	1	17 Ultra Clean Starter Kit	1
9 Tape Measure			

PC160i SHOP IN A BOX								
SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Hose Saw
21189470	220V	1	NEMA 6-20	60	*CAN, MEX, USA	9	16, 19, 23, 27, 31, 34, 41, 50, 56	HS-501

*CSA rated components are being used, but CSA decal is only applied to crimper.

PC160i Series with CrimpIQ™ Controller

CAPABILITY

- › (-20) SG Fittings
- › (-32) B2 Fittings (only w/ wide body dies)

TECHNICAL DATA

CRIMPING FORCE 160 ton

WEIGHT 400 lbs. (crimper only)

DIMENSIONS 31¼" L x 16½" W x 33½" H

DIE SERIES PC160i / PC160i wide body

OIL CAPACITY 2 gallon

FEATURES

CrimpIQ® PRO Mode

- › 3 clicks to crimp
- › -20 SG capability
- › Up to -32 B2 Capability (only w/ wide body dies)
- › Easy die removal process that enables the operator to change tooling quick, safe, and easy
- › Eliminates pain point of setting micrometer
- › Live crimp charts*
- › Integrated technical support*
- › Built-in crimp specifications
- › Advanced features like a Full-Automatic mode
- › 12 month subscription to CrimpCloud® included*

* When connected to Wi-Fi



AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Die Shelf Included
21189471	220V	1	NEMA 6-20	60	CAN, MEX, USA	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓
21189472	220V	1	NEMA 6-20	60	CAN, MEX, USA	None		

All crimpers are made for service in either country.

PC160i Replacement Parts



PC150/PC160i Series
Pusher Removable Pusher
P/N: 20244946



PC150/PC160i
Pusher Retaining Pin
P/N: 20419989



PC160i Series
Pressure Plate With
Die Retention Plate
P/N: TBA



PC150/PC160i Series
Compression Ring
P/N: 20244947



PC160i Series
WB Press Plate
P/N: TBA



PC150/PC160i/PC150
DA Die Spring
P/N: 20244963



PC150/PC160i Die Screw
P/N: 20244962



PC160i WB Die Spring
P/N: 21189474



PC160i WB Die Screw
P/N: 21189475



CRIMPX Lubricant Grease
4 oz can with brush
P/N: 20828390



CRIMPX Lubricant Grease
16 oz can with brush
P/N: 20244994



PC150 Die Shelf
P/N: 20244943



Foot Switch w/ Guard
Touch Screen Crimpers
P/N: 21095974



SAP #	Description	Color	Etch
21095962	PC150 Die Ring Half	Black	8.5MM
21095959	PC150 Die Ring Half	Black	12MM
20688964	PC150 Die Ring Half	Blue	16MM
20704273	PC150 Die Ring Half	Green	19MM
20704275	PC150 Die Ring Half	Yellow	23MM
20455159	PC150 Die Ring Half	Brown	27MM
20543412	PC150 Die Ring Half	Silver	31MM
20466009	PC150 Die Ring Half	Purple	34MM
20495092	PC150 Die Ring Half	Orange	41MM
21095960	PC150 Die Ring Half	Black	45MM
20646846	PC150 Die Ring Half	Black	50MM
21095961	PC150 Die Ring Half	Black	56MM

SAP #	Description	Color
21189473	PC160i Blank Replacement Die Ring Half	Black

PC160i Crimper Warranty

For technical assistance, call customer service at **1-800-235-4632**. The Continental ContiTech branded crimper is covered under the warranty below.

Custom Crimp® “No Nonsense” warranty

All Custom Crimp® products are warranted to be free of defects in workmanship and materials for one year from the date of invoice. This warranty ends when the product becomes unusable for reasons other than defects in workmanship or material.

If any product or part manufactured by Custom Crimp® is found to be defective by Custom Crimp®, at its option Custom Crimp® will either repair or replace the defective part or product and return via ground transportation, freight prepaid.

This warranty does not cover any product or part which is worn out, abused, altered, used for a purpose other than for which it was intended or used in a manner which was inconsistent with any instructions regarding its use.

Electric motors are separately warranted by their manufacturer under the conditions stated in their separate warranty.

FHS - Fluid Handling Solution

Market segment

Hydraulic Hose

Contact

Continental

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Fairlawn, OH 44333-3023 U.S.A.

1-800-235-4632

www.continental-industry.com

Your local contact

www.contitech.de/contactlocator

Canada

1-888-275-4397

Mexico

1-800-439-7373