BT Series of Battery-Hydraulic Hand Tool Kits
Fast Facts
More than a ton of power in your hand. (BT 3500)

- Highly Portable
- Lightweight
- Ergonomic
- Compatible with SDE dies and numerous heads
  - 9 different heads/adapters
    - 7 for BT 3500 Tool
    - 2 for BT 1900 Tool
- New ‘quick take-up’ feature
- Approximately 250 crimps per charge
- Generates up to 3500 lbs of crimp force.

Part Number:
2031400-x
Customer Manual
409-10095

BT Series (BT 1900 and BT 3500) Kits

The BT Series of Battery-Hydraulic Hand Tool Kits is designed to provide the ultimate in flexibility, modularity, and powered efficiency in a lightweight, ergonomic, and powerful crimp unit powered by a superior Lithium-ion Battery.

The BT Series flexibility begins with the availability of 2 different power units (BT 1900 and BT 3500), 9 different heads and adapters, and various user options. The kit comes with a shoulder strap that can be used on the kit’s case or directly on either power unit (BT 1900 or BT 3500). An optional belt allows the unit to be worn on the user’s waist, and an optional 4-point harness can be incorporated for added stability. If the unit will remain stationary, an optional bench mount holder is available.

By using the BT carrying case, multiple storage pockets permit a convenient location for terminals, wire cutters, wire strippers, spare batteries, the battery charger, and any other items an operator might require.

The BT Kit’s modularity follows the TE Connectivity powered hand tool lineage, through compatibility with a multitude of dies and heads.

Need More Information?
For information about tooling, call 888-777-5917 or 717-810-2080; email: toolingsales@te.com.
Amazing performance and easy handling

First, check out the new “quick take-up” terminal retention feature. A spring loaded terminal grip allows users to properly locate the terminal and, before the final crimp, concentrate on the proper insertion of the wire.

The BT Series Tools generates crimp force through a hand-held crimp tool weighing approx 0.6 kg [1.4 lb], connected through an electro-hydraulic umbilical to a 2.0 kg [4.3 lb] power pack with a significantly improved ram retract feature.

Pressure Release Button

The pressure release button feature provides advantages for all application situations. Some applications require the capability to stop the crimp process and retract the ram. Other applications may warrant supervisory consent to reset the tool after a ram retract situation. The new BT Series of Battery-Hydraulic Tools offers solutions to both situations, with the turn of a threaded pin.

- Red Pressure Release Button
- Knurled Reset Tool is specially threaded and removable
BT Series of Battery-Hydraulic Hand Tool Kits

BT 3500 Kit

Battery Charger
2063870-1, 110V US
2063870-2, 220V, EU
2063870-3, 220V UK
2063870-4, 110V Japan
2063870-5, 220V Aus/China
(1 included with kit)

Rechargeable Li-ion Battery,
2031440-1
(included in kit)

Crimp Heads & Adapters
(Sold Separately)

Red Pressure Release Button

Reset Tool
2031495-1
(included in kit)

Pump Assembly

Hand Tool Assy

Battery
(included in kit)

BT 3500 Kit
2031400-1, 110V, US
1-2031400-1, 110V, Japan
2-2031400-1, 220V, EMEA
3-2031400-1, 220V, UK
4-2031400-1, 220V, China/Aus

Carrying Case with Shoulder Strap 2031489-1
(Included with Kit)
BT Series of Battery-Hydraulic Hand Tool Kits

**BT 3500 Compatible Heads**
(All heads, dies and adapters sold separately)

- **SDE C Head, 2031450-1**
  For use with shoulder-type SDE Dies

- **SDE Shoulder-type Die**
  Numerous styles & P/Ns available — see catalog 1773379-1.

- **Double Action Adapter, 2119483-1**
  Numerous styles & P/Ns available — see catalog 65780.

- **Double Action Head**
  Numerous styles & P/Ns available — see catalog 65780.

- **SDE Closed Head, 2031460-1**
  For use with pin and shoulder-type SDE Dies

- **SDE Shoulder-type Die**
  Numerous styles & P/Ns available — see catalog 1773379-1.

- **Large Die C-Head, 2119810-1**
  For use with large C-Head Dies

- **Large C-Head Die**
  Numerous styles & P/Ns available — see catalog 65780.

- **CERTI-CRIMP II SA Head**
  Numerous styles & P/Ns available — see catalog 65780.

- **CERTI-CRIMP II SA/ T-HEAD Adapter, 2031480-1**

- **T-HEAD, 2161000-1**
  (specific to BT 3500)

- **Heavy Head Adapter, 2119840-1**
  Numerous styles & P/Ns available — see catalog 65780.

- **Heavy Head**
  Numerous styles & P/Ns available — see catalog 65780.

**Need More Information?**
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Catalog 1773381-5
Revised 02-2011

For drawings or technical data, contact your TE Connectivity sales engineer or call the Technical Support Center: 1-800-522-6752. Dimensions are in millimeters unless specified otherwise. Values in brackets are English equivalents unless specified otherwise. Specifications subject to change. Consult TE Connectivity for latest specifications.
Options for both the BT 1900 and BT 3500

**AC Adapter (optional)**
- 2063874-1, 110V US
- 2063874-2, 220V, EU
- 2063874-3, 220V UK
- 2063874-4, 110V Japan
- 2063874-5, 220V Aus/China

**Optional Bench Mount Holder, 2031403-1**
(Shown with BT 3500 tool and AC Adapter.
The BT 3500 and AC Adapter are not included with the bench mount holder.)

**4-Point Harness for use with Padded Belt (optional)**
- 2063864-1

**Padded Belt (optional)**
- 2063863-1

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Revised 02-2011
Use It Your Way

**Shoulder Strap with Case**
(included with kit)

**Shoulder Strap with Pump Assembly and Hand Tool**
(included with kit)

**Belt**
(sold separately)

**4-point Harness**
(sold separately)
(for use with Padded Belt)

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BT Series of Battery-Hydraulic Hand Tool Kits

BT 1900 Kit

Battery Charger
2063870-1, 110V US
2063870-2, 220V, EU
2063870-3, 220V UK
2063870-4, 110V Japan
2063870-5, 220V Aus/China
(1 included with kit)

Rechargeable Li-ion Battery,
2031440-1
(included in kit)

Hand Tool Assy

Crimp Heads & Adapters
(Sold Separately)

Reset Tool
2031495-1
(included in kit)

Red Pressure Release Button

Pump Assembly

Battery
(included in kit)

Carrying Case with
Shoulder Strap 2031489-1
(Included with Kit)

BT 1900 Kit
2031400-5, 110V, US
1-2031400-5, 110V, Japan
2-2031400-5 220V, EMEA
3-2031400-5, 220V, UK
4-2031400-5, 220V, China/Aus

Battery
(included in kit)

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Revised 02-2011
BT Series of Battery-Hydraulic Hand Tool Kits

BT 1900 Compatible Heads
(Sold separately)

DMC AFE8-R Head, 2161658-1
Numerous styles & P/Ns available.

DMC AFME8-R Head, 2161659-1
Numerous styles & P/Ns available.

Positioner

Turret Head

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Military Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioner or Turret Head</td>
<td>601966-2</td>
<td>MIL-C-22520/2-02</td>
</tr>
<tr>
<td></td>
<td>601966-4</td>
<td>MIL-C-22520/2-06</td>
</tr>
<tr>
<td></td>
<td>601966-5</td>
<td>MIL-C-22520/2-08</td>
</tr>
<tr>
<td></td>
<td>601966-6</td>
<td>MIL-C-22520/2-09</td>
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<tr>
<td></td>
<td>601966-8</td>
<td>MIL-C-22520/2-23</td>
</tr>
<tr>
<td></td>
<td>601967-2</td>
<td>MIL-C-22520/1-02</td>
</tr>
<tr>
<td></td>
<td>1-601966-2</td>
<td>MIL-C-22520/1-11</td>
</tr>
</tbody>
</table>

*One charger with appropriate electrical specifications is included with each kit.

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BT Series of Battery-Hydraulic Hand Tool Kits

BT Series Battery Tool Kit Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Included in Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2031440-1</td>
<td>Li-ion Battery</td>
<td>Y</td>
</tr>
<tr>
<td>2063870-1</td>
<td>Charger, 110V 50/60 Hz US</td>
<td>Y*</td>
</tr>
<tr>
<td>2063870-2</td>
<td>Charger, 220V 50/60 Hz EMEA</td>
<td>Y*</td>
</tr>
<tr>
<td>2063870-3</td>
<td>Charger, 220V 50/60 Hz UK</td>
<td>Y*</td>
</tr>
<tr>
<td>2063870-4</td>
<td>Charger, 100V 50/60 Hz Japan</td>
<td>Y*</td>
</tr>
<tr>
<td>2063870-5</td>
<td>Charger, 220V 50/60 Hz China/Aus</td>
<td>Y*</td>
</tr>
<tr>
<td>2063874-1</td>
<td>AC Adapter, 110V 50/60 Hz US</td>
<td>N</td>
</tr>
<tr>
<td>2063874-2</td>
<td>AC Adapter, 220V 50/60 Hz EMEA</td>
<td>N</td>
</tr>
<tr>
<td>2063874-3</td>
<td>AC Adapter, 220V 50/60 Hz UK</td>
<td>N</td>
</tr>
<tr>
<td>2063874-4</td>
<td>AC Adapter, 100V 50/60 Hz Japan</td>
<td>N</td>
</tr>
<tr>
<td>2063874-5</td>
<td>AC Adapter, 220V 50/60 Hz China/Aus</td>
<td>N</td>
</tr>
<tr>
<td>2031403-1</td>
<td>Bench Mount Assembly</td>
<td>N</td>
</tr>
<tr>
<td>2063864-1</td>
<td>4-Point Harness (for use with Padded Belt)</td>
<td>N</td>
</tr>
<tr>
<td>2063863-1</td>
<td>Padded Belt</td>
<td>N</td>
</tr>
<tr>
<td>2031489-1</td>
<td>Carrying Case with Shoulder Strap</td>
<td>Y</td>
</tr>
<tr>
<td>2031495-1</td>
<td>Reset Tool</td>
<td>Y</td>
</tr>
</tbody>
</table>

*One charger with appropriate electrical specifications is included with each kit.

BT 3500 Heads & Kits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2031450-1</td>
<td>C-Head Assembly, SDE Shoulder Dies</td>
</tr>
<tr>
<td>2031460-1</td>
<td>Closed Head Assembly, SDE Pin and Shoulder Dies</td>
</tr>
<tr>
<td>2031480-1</td>
<td>CERTI-CRIMP Adapter Assembly</td>
</tr>
<tr>
<td>2119483-1</td>
<td>Double Action Adapter Assembly</td>
</tr>
<tr>
<td>2119840-1</td>
<td>Heavy Head Adapter Assembly</td>
</tr>
<tr>
<td>2119810-1</td>
<td>Large Die C-Head Adapter Assembly</td>
</tr>
<tr>
<td>2161000-1</td>
<td>T-Head Adapter Assembly</td>
</tr>
</tbody>
</table>

BT 1900 Heads & Kits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2161658-1</td>
<td>Large DMC 4-8 Indent Head</td>
</tr>
<tr>
<td>2161659-1</td>
<td>Small DMC 4-8 Indent Head</td>
</tr>
</tbody>
</table>

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BT Series of Battery-Hydraulic Hand Tool Kits

Specifications

**BT 3500 Common Terminal Capabilities**

<table>
<thead>
<tr>
<th>Terminal Style</th>
<th>Max. Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIDG (RBY)</td>
<td>10 AWG</td>
</tr>
<tr>
<td>PLASTI-GRIP (RBY)</td>
<td>10 AWG</td>
</tr>
<tr>
<td>SOLISTRAND</td>
<td>10 AWG</td>
</tr>
<tr>
<td>Open-Barrel</td>
<td>Most up to 14 AWG</td>
</tr>
<tr>
<td>Coaxial</td>
<td>Several Options</td>
</tr>
</tbody>
</table>

**BT 1900 Common Screw Machine Contacts**

<table>
<thead>
<tr>
<th>Contact Style</th>
<th>Wire Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimate</td>
<td>16-32 AWG</td>
</tr>
<tr>
<td>Subminiature</td>
<td>24-32 AWG</td>
</tr>
<tr>
<td>ARINC</td>
<td>12-24 AWG</td>
</tr>
<tr>
<td>AMPLIMITE</td>
<td>8-28 AWG</td>
</tr>
</tbody>
</table>

**Crimping Capacities**

- Crimping Force for BT 1900: 8.5 kN [1900 lb] (maximum)
- Crimping Force for BT 3500: 15.6 kN [3500 lb] (maximum)
- Crimping Time for BT 1900: 3.5 seconds (approximately)
- Crimping Time for BT 3500: 4.5 seconds (approximately)
- Crimps per Charge: 250 (approximately)

**Crimping Tool**

- Length*: 240mm [9.4”]
- Width*: 59mm [2.3”]
- Depth*: 48mm [1.9”]
- Weight*: 0.6kg [1.4 lb]

**Power Pack (with Li-ion Battery installed)**

- Length: 248mm [9.8”]
- Width: 80mm [3.1”]
- Depth: 142mm [5.6”]
- Weight: 2.0kg [4.3 lb]
- Sound Level: 72 dBA
- Hydraulic Oil: Petro-Canada Hydrex MV Arctic 15
- Li-ion Battery Voltage: 10.8 Vdc
- Charging Time: 25 minutes (approximately)

*Depends on the specific crimp tooling head installed.

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