The Pistol Grip Hand Tool System uses interchangeable terminating heads to apply a broad range of TE IDC products. The basic tool requires a pistol grip handle assembly and a terminating head; power-assist and bench mount versions are available to suit your specific needs. This system is well suited for low- to medium-volume production. Simply order the standard or extended-wear terminating heads based on your anticipated needs. Since most terminating heads can be rotated to any angle, the operator can also tackle more difficult terminations in confined work areas.

The terminating force is provided by a manual-, pneumatic- or electric-powered assembly. The wire inserter, inside each head, pushes the end of an unstripped wire into the insulation displacement contact. Then, most tools automatically index the connector to the next contact. The tools offer precise termination depth control.

For maximum productivity, a bench mount power unit (pneumatic or electric) is recommended. Optional feed tracks can increase application rates further. Actual production rate depends on the IDC product, discrete wire or ribbon cable, and operator dexterity.

### Technical Documents

**Customer Manual**
- 409-5746—Electric Power Unit

**Instruction Sheets**
- 408-6790—Pistol Grip Manual Handle Assembly
- 408-6789—Pistol Grip Pneumatic Handle Assembly
- 408-9393—Bench Mount Pneumatic Power Unit
Pistol Grip Hand Tool System for Insulation Displacement Connectors (IDCs)

Pistol Grip Power Units

Pistol Grip Manual Handle Assembly
Part Number 58074-1
A basic hand tool requires a handle assembly and a terminating head, ordered separately, shown on page 4.
- Lightweight, easy to use
- Ratchet control will not release cam trigger until it is fully bottomed
- Ratchet release
- "U"-shaped key slides into handle to hold interchangeable heads securely
- Material (handle) — Molded nylon

Specifications
Length — 3.75 [95.2]
Width — 1.12 [28.6]
Height — 4.00 [101.6]
Grip Span — 2.50 [63.5] over trigger/handle
Weight — 3.5 oz [99 g]
Cycle Time — 0.7 - 0.8 s

Pistol Grip Pneumatic Handle Assembly
Part Number 58075-1
- Lightweight
- Power assist for less operator effort
- Push-button trigger actuated
- Quiet — 78 dB max.
- "U"-shaped key slides into handle to secure interchangeable heads
- Material (handle) — Molded nylon

Specifications
Length — 4.88 [124]
Width — 1.13 [28.7]
Height — 6.00 [152]
Grip Span — 2.50 [63.5] over push-button trigger/handle
Weight — 18 oz [510 g]
Air Pressure — 40 - 70 psi [2.76 - 4.83 bar]
Cycle Time — 0.7 - 0.8 s

Bench Mount Power Units

Bench Mount Pneumatic Power Unit
Part Number 58338-1
Assembly consists of a bench mount with attached pneumatic power unit, a foot switch, and two air lines which connect the switch to the power unit and the air source to the switch. Mounting hardware is not included.
- Mounting bracket allows interchangeable heads to be pointed up or down to suit operator
- Power assist for greater productivity
- Actuated by foot switch
- Key retains heads, or heads and feed tracks

Specifications
Outside Diameter — 1.62 [41.2]
Length — 5.00 [127]
Height — 7.00 [178]
Weight — 2 lb [0.91 kg]
Air Pressure — 40 - 70 psi [2.76 - 4.83 bar]
Cycle Time — 0.7 - 0.8 s
Application Rates (Typ.) — 600 terminations per hr; 1 100 terminations per hr with optional Loose-Piece Feed Track; and 1 250 terminations per hr with optional Tape (Reel) Feed Track (when producing 6 in [15 cm] jumpers, one 4-pos. MTA-100 connector each end, discrete wire)

Notes:
1. Interchangeable terminating heads must be ordered separately, see page 4.
2. Loose-piece or tape (reel) feed track accessories are available, see page 3.
Bench Mount Power Units (Continued)

**Bench Mount Electric Power Unit**
Part Number 931800-1
- Portable, compact
- Low noise
- Semi-automatic operation
- Foot pedal actuated
- Feed track options

**Specifications**
- Length — 14 [356]
- Width — 7 [178]; 22 [559] with feed track
- Height — 10 [254]
- Weight — 12 lb [5.44 kg]
- Electrical Requirements — 120 VAC, 60 Hz, single phase, 2 A
- Cycle Time — 0.5 s
- Application Rates (Typ.) — 900 terminations per hr; 1,100 terminations per hr with optional Loose-Piece Feed Track; and 1,250 terminations per hr with optional Tape (Reel) Feed Track (when producing 6 in [15 cm] jumpers, one 4-pos. MTA-100 connector each end, discrete wire)

**Notes:**
1. Interchangeable terminating heads must be ordered separately, see page 4.
2. Loose-piece, tube or tape (reel) feed track accessories are available, see below.

**Accessories for Bench Mount Power Units**

**Loose-Piece, Tube or Tape Feed Track Options**
- No special setup required
- Connectors load easily into feed track
- Simple, spring-loaded pusher feeds connectors into head
- Power Units shown for size reference only

**Part Numbers**

<table>
<thead>
<tr>
<th>TE IDC Product</th>
<th>Terminating Head and Loose-Piece Feed Track</th>
<th>Terminating Head, Tape Feed Track and Base</th>
<th>Terminating Head, Tube Feed Track, and Seating Station for Electric Power Unit Only</th>
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<tr>
<td>MTA Closed-End Receptacles</td>
<td>MTA-100 933567-1 (Instruction Sheet 408-9435)</td>
<td>853546-1 and 853542-1 (Base) (Instruction Sheet 408-9636)</td>
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<td>MTA-156 933568-1 (Instruction Sheet 408-9466)</td>
<td>853547-1 and 853542-1 (Base) (Instruction Sheet 408-9637)</td>
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</tbody>
</table>
**Product Facts**
- Most fit all pistol grip and bench mount power units
- Terminate unstripped wire
- Align and hold connectors in place for each termination
- Most heads automatically advance connectors after each termination

**Specifications**
- Length — 3.18 to 3.62 [80.8 to 91.9]
- Width — 1.00 to 2.62 [25.4 to 66.6]
- Height — 1.12 to 2.62 [28.4 to 66.6]
- Weight — 3 to 12 oz [85 to 340 g]

**Catalog 296176 / 08-11 / Application Tooling**
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Tyco Electronics Corporation, Harrisburg, PA 17105, Phone: 717-564-0100, Fax 717-986-3316

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**Product Catalog**
Family Number*
Instruction Sheet

### Bench Mount Power Units (Continued)

<table>
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<tr>
<th>Product Family</th>
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<th>Terminating Head Only</th>
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