Motor Test Systems
Low & High Power AC/DC Motor Test Systems

HAEFELY HIPOTRONICS has been the leading manufacturer of complete AC and DC motor test systems since 1962. Our experience over the past 50+ years has enabled us to develop the most reliable and efficient test systems on the market. All of our manufacturing is done in-house to provide the highest level of quality. Our standardized design, patented Peschel Variable Transformer (PVT), and rugged motorized tap switches provide years of operation with minimal maintenance.

Our test sets include a 10 inch (25cm) color touch screen controller with intuitive menu functions. A standard digital tachometer and wattmeter allow for conveniently displayed measurements on the control interface, as well as temperature and power factor metering. Fast and easy test reports can be generated using data acquisition software on any computer.

FEATURES

- **Measurement Devices** included with all models:
  - Digital Tachometer
  - Digital Wattmeter
  - Temperature Meter (Type – E)
  - Power Factor Meter
  - Data Acquisition Software
- **Emergency OFF switch** and warning lamp for increased safety
- **Control power circuit breaker**
- **Motorized tap selector switch** decreases start up time
- **Primary overload protection**
- **Digital voltage and current meters** for accurate measurements
- **Interlocked HV taps** increase user safety
- **Lifting provisions (crane and forklift)**
- **External Interlock provisions**

BENEFITS

Variable transformer offers the most stable output available.

**Continuous variable voltage** from near zero to full voltage.

**Complete metering** to verify conditions of motor under test.

**Decreased startup cost** with minimal mains wiring required.

Motorized tap switch uses the latest technology to ensure reliable and accurate testing.

**Touch screen PLC controls** require minimal user training.

Patented PVT design allows for smaller footprint and fewer moving parts.

Integrated safety and overload protection.

We are a proud member of The Electrical Apparatus Service Association (EASA). EASA provides members with a means of keeping up to date on materials, equipment, and state-of-the-art technology.
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>MTC-150</th>
<th>MTC-300</th>
<th>MTC-500</th>
<th>MTC-750</th>
<th>MTC-1000V</th>
<th>MTC-1500V</th>
<th>MTC-2000V</th>
</tr>
</thead>
<tbody>
<tr>
<td>System KVA</td>
<td>150</td>
<td>300</td>
<td>500</td>
<td>750</td>
<td>1000</td>
<td>1500</td>
<td>2000</td>
</tr>
<tr>
<td>Input Voltage (V)</td>
<td>480V, 3p</td>
<td>480V, 3p</td>
<td>480V, 3p</td>
<td>480V, 3p</td>
<td>480V, 3p</td>
<td>480V, 3p</td>
<td>4160V, 3p</td>
</tr>
<tr>
<td>Input Current (A)</td>
<td>200</td>
<td>400</td>
<td>600</td>
<td>1000</td>
<td>1250</td>
<td>1850</td>
<td>280</td>
</tr>
<tr>
<td>AC No-Load test Capabilities (HP)*</td>
<td>750</td>
<td>1500</td>
<td>2500</td>
<td>3750</td>
<td>5000</td>
<td>7500</td>
<td>10000</td>
</tr>
<tr>
<td>AC Full-Load Test Capabilities (HP)*</td>
<td>150</td>
<td>300</td>
<td>500</td>
<td>750</td>
<td>1000</td>
<td>1500</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Duty Cycle AC Supply**
- Continuous, 110% 1 Hour on / 1 Hour off, 250% for 1 minute

**Output Tap**
- 0 to 240V: 360A, N/A, N/A, N/A, N/A, N/A, N/A
- 0 to 480V: 180A, 360A, 600A, 900A, 1000A, 1000A, N/A
- 0 to 600V: 144A, 289A, 480A, 720A, 960A, 1000A, 1200A
- 0 to 1200V: 72A, 144A, 240A, 360A, 480A, 720A, 960A
- 0 to 2400V: 36A, 72A, 120A, 180A, 240A, 360A, 480A
- 0 to 3300V: N/A, 52A, 87A, 130A, 175A, 262A, 350A
- 0 to 4160V: N/A, 42A, 70A, 104A, 139A, 208A, 278A
- 0 to 7200V: N/A, Optional, Optional, Optional, Optional, 120A, 160A
- 0 to 11,000V: N/A, N/A, Optional, Optional, Optional, Optional, Optional
- 0 to 13,800V: N/A, N/A, Optional, Optional, Optional, Optional, Optional

**DC Armature Supply**
- Voltage (V DC): 0...650, 0...650, 0...650, 0...750, 0...750, 0...750, 0...750
- Current (A): 200, 425, 625, 900, 900, 1200, 1500

**DC Field Supply**
- 300V, 10A

**Field Supply #2 (optional)**
- 0...12V DC 500A, 48% Ripple RMS

1. The model prefix MTC applies to systems with both AC & DC testing capabilities.
2. For Motor Test Systems with AC capabilities only, the DC specifications in the gray shaded area above are eliminated and model prefix changes to MTA.
3. Larger and smaller units may be available upon request.
4. Other input voltages may be available upon request.
5. No-Load and Load calculations are approximate and may vary with each specific customer and application.

### OPTIONAL EQUIPMENT & ACCESSORIES

- RTD Temperature Measurement Input
- Boom Arm Output
- Impedance supply
- Vibration Analyzer
- Additional Voltage Taps
- Optional Series Field Supply
- Input Volt and Current Meters

Be sure to download the new Motor Test Series Product Guide from our website.

---

**OFFICES:**

**Europe**
HaefelyTest AG
Birsstrasse 300
4052 Basel
Switzerland

- +41 61 373 4111
- +41 61 373 4912
- sales@haefely.com

**China**
Haefely Test AG Representative Beijing Office
No. 67, Chaoyang Road, Chaoyang District, Beijing, China 100025

- +86 10 8678 8000
- +86 10 8678 9888
- sales@haefely.com.cn

**North America**
Hipotronics, Inc.
1050 Route 22 N
Brewster, NY 10509
United States

- +1 845 270 3644
- +1 845 279 2487
- sales@hipotronics.com

HAEFELY HIPOTRONICS has a policy of continuous product improvement. We therefore reserve the right to change design and specification without notice.