The WT6000 Medium Frequency DC control powered by GEN6 technology offers flexible intuitive programming for customization of your welding process.

Combined with the guidance of built in diagnostic tools, the WT6000 will support process control of your resistance welding application.

- Up to 255 Weld Programs
- Multi-Language Programming
- Web Based Interface
- Free Format Programming for Various Applications
- Configurable I/O
- Network Ready (Weld Gateway / RAFT™ Gateway)
- Various I/O Connectivity
- Weld Tool Efficiency Monitoring
- Weld Transformer Protection (Flux Control)
- Weld Transformer Diode Failure Detection
- Duty Cycle of Inverter Monitoring
- Laptop or DEP Interface for Programming and Data Acquisition
- Secondary Current & Voltage Monitoring
- Oscilloscope Quality Data Archiving
- 220 - 480VAC 50/60hz (600VAC optional)
- Programmable Output Frequency (400-2000 hertz)

Supported Languages: English, German, French, Spanish, Portuguese, Chinese, Korean, Polish
WT6000 Single Pack Designs

**WT60TN Top Mount MFDC**
- 150 Amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor
- 250VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 Inverter - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Dimensions (610H x 737W x 432D (mm)) (24”H x 29”W x 17”D)
- Device-Net, EIP, ProfiBus or ProfiNet Connectivity
- Tip Dress Control & Monitor - RAFT Feature (Optional)

**WT60MN MiniPak MFDC**
- 100 Amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 3 Isolation Contactor
- 250VA Control Transformer
- GEN6 Inverter Rated 400 Amp Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Dimensions (300H x 670W x 505D (mm)) (12”H x 26.5”W x 20”D)
- Device-Net, EIP, ProfiBus, or ProfiNet Connectivity
- RAFT Feature (Optional)

**WT600N-A1 Stand MFDC**
- 150 amp, 3-Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor
- 250VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 Inverter - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Dimensions (950H x 510W x 410D (mm)) (37.4”H x 20”W x 16”D)
- Device-Net, EIP or Discrete I/O connectivity
- Tip Dress Control & Monitor - RAFT Feature (Optional)
WT6000 Multi-Pack Designs

**WT600N-A2 Dual Pack MFDC**
- 250 amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Two Size 4 Isolation Contactors
- 500VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- Two GEN6 Inverters - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Two Integrated 6000 Processor Modules
- Dimensions (1500H x 990W x 550D (mm)) (59”H x 39”W x 21.6”D)
- Device-Net, EIP, ProfiBus or ProfiNet Connectivity

**WT600N-A3 Tri-Pack MFDC**
- 400 amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Three Size 4 Isolation Contactors
- 600VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- Three GEN6 inverters - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Three Integrated 6000 Processor Modules
- Dimensions (1500H x 990W x 550D (mm)) (59”H x 39”W x 21.6”D)
- Device-Net, EIP, ProfiBus or ProfiNet Connectivity

**WT600N-A13 Three Cascade MFDC**
- 150 Amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor
- 250VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 Inverter - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Solid state switching for 3 cascade loads
- Dimensions (1500H x 510W x 410D (mm)) (59”H x 20”W x 16”D)
- Device-Net, EIP, ProfiBus or ProfiNet Connectivity
**WT6000**

**Monitoring and Control Functions**

<table>
<thead>
<tr>
<th>Firing Control:</th>
<th>Fixed Frequency, Pulse Width Modulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firing modes:</td>
<td>Primary Constant Current</td>
</tr>
<tr>
<td></td>
<td>Secondary Constant Current</td>
</tr>
<tr>
<td></td>
<td>Voltage Control</td>
</tr>
<tr>
<td>Primary Current Range:</td>
<td>20A to Rated Current Level</td>
</tr>
<tr>
<td>Primary Current Accuracy:</td>
<td>± 1% Setting, ± .5% Repeatability</td>
</tr>
<tr>
<td>DC Bus Voltage Measurement Accuracy:</td>
<td>± 1% Setting, ± .5% Repeatability</td>
</tr>
<tr>
<td>Secondary Current Accuracy:</td>
<td>± 2% Setting, ± 1% Repeatability</td>
</tr>
<tr>
<td>Secondary Voltage Accuracy:</td>
<td>± 3%</td>
</tr>
<tr>
<td>Secondary Resistive Accuracy:</td>
<td>± 3%</td>
</tr>
<tr>
<td>MFDC Transformer Flux Protection:</td>
<td>Included</td>
</tr>
<tr>
<td>Digital Scope Function:</td>
<td>1 MHz Equivalent Uploads to PC</td>
</tr>
<tr>
<td>Duty Cycle Protection:</td>
<td>Inverter and Weld Transformer Duty Cycle</td>
</tr>
<tr>
<td>MFDC Weld Transformer Monitoring:</td>
<td>Diode Monitoring</td>
</tr>
</tbody>
</table>

**WT6000 Welding Applications**

- Multi-Pack Configurations
- Automated Cascade Configurations
- DCIT Gun Station Controls
- Seam Welding
- Robotic Welding
- Projection Welding
- External Control Interfaces (ECI)

**Power Source**

<table>
<thead>
<tr>
<th>Voltage:</th>
<th>3-Phase AC 220V - 480V (± 10%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Power Frequency:</td>
<td>50/60Hz (Automatic Selection)</td>
</tr>
<tr>
<td>Alternate Configuration:</td>
<td>Optional: 575V (± 10%)</td>
</tr>
<tr>
<td>Output Frequency:</td>
<td>1,000 Hz (Programmable Range = 400Hz - 2,000Hz)</td>
</tr>
<tr>
<td>Output Current at 10% Duty Cycle:</td>
<td>600/500 Amps, Water/Air Cooled</td>
</tr>
<tr>
<td>Device Type:</td>
<td>IGBT</td>
</tr>
<tr>
<td>Power Consumption:</td>
<td>70VA (Idling Condition)</td>
</tr>
</tbody>
</table>

**WT6000 Connectivity**

- SSPI port
- Two (2) 100BASE T Ethernet Ports
- Local I/O Port
- Device-Net, EIP, ProfiBus or ProfiNet Connectivity
- Secondary Current & Voltage Channels
- Serial RS485 Port
- Discrete I/O Options

**Processor**

<table>
<thead>
<tr>
<th>Weld Processor:</th>
<th>WT6000 Integrated</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O Protocol:</td>
<td>Ethernet IP 10/100BASE T</td>
</tr>
<tr>
<td>Optional I/O Protocol:</td>
<td>Device Net, DIO, PROFINET, PROFIBUS</td>
</tr>
<tr>
<td>Onboard Inputs:</td>
<td>2 x 24VDC</td>
</tr>
<tr>
<td>Onboard Outputs:</td>
<td>3 x 120VAC</td>
</tr>
<tr>
<td>Number of weld schedules:</td>
<td>255</td>
</tr>
<tr>
<td>Number of steppers:</td>
<td>32</td>
</tr>
<tr>
<td>Processor Storage Type:</td>
<td>F-RAM (No Battery Required)</td>
</tr>
<tr>
<td>Weld Processor Languages:</td>
<td>English, French, German, Spanish, Portuguese, Chinese, Korean, Polish</td>
</tr>
</tbody>
</table>

**Optional Devices**

- Data Entry Panels (DEP100,300)
- Weld Interface Laptop Software
- Weld / RAFT Gateway Network Software

**DCIT Gun Station Control with**

**Ground Safety Monitoring &**

**10 - 30mA Personnel Protection System**