

# WT6000 AC

## Latest Generation of Resistance Welding Controls

*Finally an AC resistance welding control powered by technology that 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 Schedules
- Web Based Interface - Use simple web browsing software
- Free Format Programming for Various Applications
- Configurable Input and Outputs
- Network Ready (Weld Gateway / RAFT™ Gateway)
- Various Robotic & PLC Connectivity
  - DeviceNet, Ethernet IP, ProfiNet, ProfiBus*
- Weld Tool Efficiency Monitoring using C-Factor tools
- Automatic Power Factor Compensation
- Laptop or DEP Interface for Programming and Data Acquisition
- Range: 220-600VAC 50/60hz Mains
- Discrete I/O interface using optional PLC Devices
- No Batteries Required - Processor Data Backed Up by F-RAM
- Multiple Firing Modes - Primary CREG, AVC
- Available in Kit or Complete Weld Panel with Single or Multiple WCU



**WT6000 AC powered by the most advanced processing technology**



- ◆ *Touch Safe Packaging - for Safety of Maintenance People*
- ◆ *External Water Cooling - or Direct Air Cooling*

**WT60TN - Robot Top Mount Control**

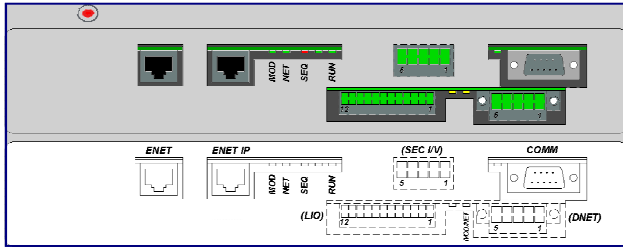


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**Adapting to Welding Excellence**



# WT6000



## WT6000 Connectivity

- Two (2) 100BASE T Ethernet Ports
- Local I/O Port
- DeviceNet, IIP, ProfiBus or ProfiNet Connectivity
- Serial RS485 Port

## WT6000 Processor

### WT6000 Welding Applications

Multi-Pack Configurations

Seam Welding

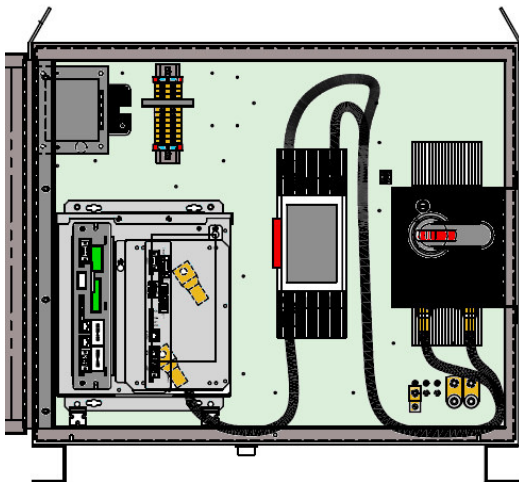
Robotic Welding

Projection Welding

### Optional Devices

Data Entry Panels (DEP105,300)

Weld / RAFT Gateway Network Software



**WT60TN-Robot Top Mount Control**

### WT600x-Controls

250 amp, 2 -Pole Circuit Breaker (400 amp Option)  
with Magnetic, Thermal, and External Shunt Trip

Size 4 Isolation Contactor (Size 5 option)

500VA Control Transformer

LIO for Shunt Trip, Isolation Contactor, Control Stop

GEN6 WCU - 1650 Amp SCR - Water Cooled @50% Duty Cycle

Integrated 6000 Processor Module

DeviceNet, IIP, ProfiNet, ProfiBus or Discrete I/O via external PLC

### Dimensions:

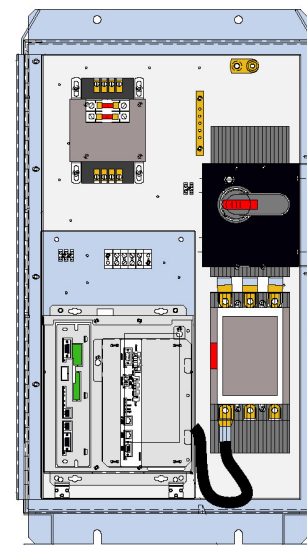
A1 Stand: (950H x 510W x 410D (mm)) (37.4"H x 20"W x 16"D)

Top Mount: (610H x 740W x 390D (mm)) (24.02"H x 29.13"W x 15.40"D)

dimensions of TM does not include the shipping feet

Power Source	
Voltage:	Single Phase AC 220V - 600V (± 10%)
Line Power Frequency:	50/60Hz (Automatic Selection)
Device Type:	SCR - Water Cooled - 1650A—50% duty cycle
Power Consumption:	70VA (Idling Condition)
Processor	
Weld Processor:	WT6000 Integrated
I/O Protocol:	Ethernet IP
Optional I/O Protocol:	Device Net, PROFINET,PROFIBUS
Onboard Inputs:	2 x 24VDC
Onboard Outputs:	3 x 120VAC
Number of weld schedules:	255
Number of steppers:	10
Processor Storage Type:	F-RAM (No Battery Required)
Weld Processor Languages:	English

Monitoring and Control Functions	
Firing Control:	SCR Phase Control with Auto Power Factor
Firing modes:	Primary Constant Current Voltage Control
Primary Current Accuracy:	± 1% Setting, ± .5% Repeatability
AC Mains Measurement Accuracy:	± 1% Setting, ± .5% Repeatability



**WT600N-A1 Stand Control**

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# wtec