

WT6000 AC



Low Frequency AC Control with Unsurpassed Weld Current Control

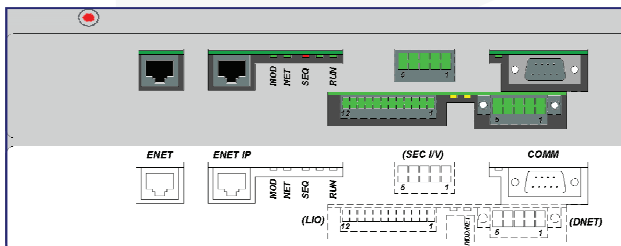
Finally an AC resistance welding control powered by technology that offers flexible intuitive programming for customization of your welding process. Combined with the guidance of built in diagnostic tools, the WT6000 will support process control of your resistance welding application.

- 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

WT6000 AC Connectivity



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

844-WSI-WELD

www.WSIWeld.com • sales@wsiweld.com

WT6000 AC Specifications

Optional Devices:

Data Entry Panels (DEP105,300)
Weld / RAFT Gateway Network Software

MedWeld 4000 Welding Applications:

Multi-Pack Configurations
Seam Welding
Robotic Welding
Projection Welding

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

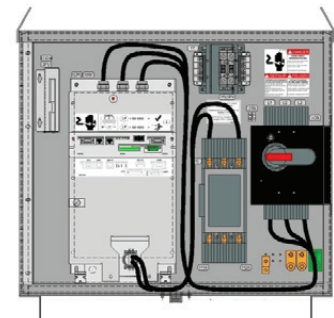
WT6000 AC Controls

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

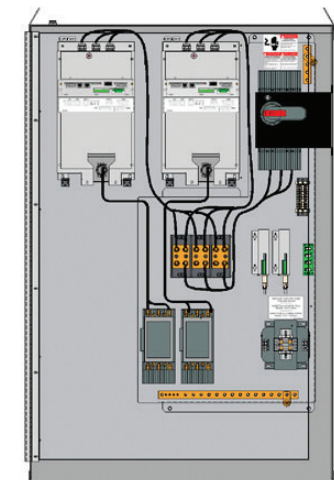
- 250 amp, 2 -Pole Circuit Breaker (400 amp Option) with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor (Size 5 option)
- 500VA Control Transformer
- LIO for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 WCU - 1650 Amp SCR - Water Cooled @50% Duty Cycle
- Integrated 6000 Processor Module
- DeviceNet, EIP, 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



WT60TN-Robot top mount control



WT600N - A1 Stand

RAFT™ Resistive Adaptive Feedback Technology (OPTIONAL)

Take control of your resistance welding process with the implementation of RAFT™ (Resistive Adaptive Feedback Technology).

RAFT™ is comprised of two independent software components - AdaptQ™ & SoftQ™

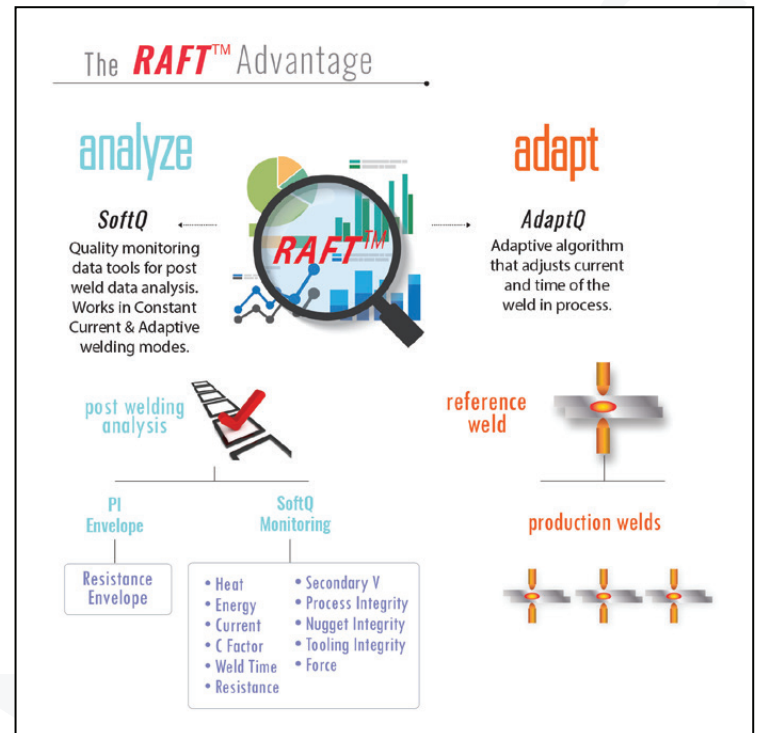
AdaptQ™ is a software algorithm designed to manipulate both current & or time based on resistive feedback from the weld that is taking place.

SoftQ™ is a system of quality monitoring data tools for post weld data analysis.

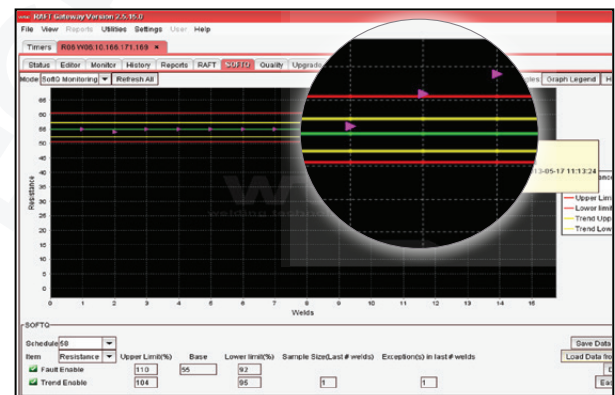
Key Benefits

RAFT™ will adapt the weld schedule via current and or time to tackle weld disturbances such as:

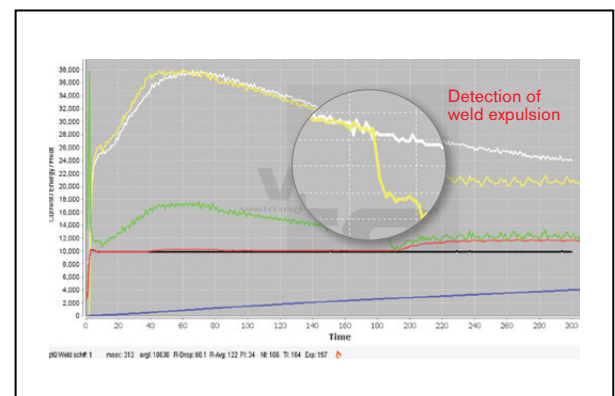
- Part fit up
- Part thickness variations
- Misaligned electrodes
- Variations in coatings
- Sealers
- Weld force variations
- Shunting
- Machine tooling degradation



Expulsion free reporting



SoftQ™ graphing tool



Expulsion detection monitor

Resistance Welding. SOLVED!

Weld Systems Integrators (WSI) specializes in high-quality spot and projection resistance welders with single-phase AC and CD, and three-phase DC and MFDC power supplies. Our standard and custom welders include:

- Rocker Arm Spot Welders
- Capacitor Discharge Welder
- Seam Welders
- XY Welders
- Manual, Partial, or Fully-Automated Multi-Gun Weld Automation
- Press Type Welders
- Bench Welders
- Door Welders
- Turntable Welders

We work with trusted partners to stock a diverse inventory of consumables, spare parts and accessories. This includes electrodes, portable spot welding guns, controls, chillers, transformers and more. And we support our equipment with excellent customer service, training, welding lab testing and contract engineering.

TECNADirect.com, a division of WSI, is a stocking master distributor of TECNA welders, tool balancers and accessories. Along with BALANCERSDirect.com, our dedicated to balancers website, we maintain an IN-STOCK inventory at our Warrensville Heights, OHIO location.

Factory direct from our Warrensville Heights, OHIO location, or through our distributor network, Weld Systems Integrators offers exceptional welding machinery equipment with global shipping and quick delivery.



Contact your WSI Representative TODAY!



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Spot | Projection | Seam | Butt | Capacitor Discharge
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