

CTR12000

Totally Automatic Resistance Spot Welder

Designed to simplify vehicle collision repair, the high power, medium frequency inverter operation of the CTR12000 is ideal for today's newer materials, including high, ultra-high, and laminated steels.

The process-regulated system provides true quality assurance.



Shown with optional support arm with tool balancer.

Features & Benefits

- **Automatically:**
 - recognizes total material thickness via Pulse-Sonar-System
 - recognizes material type via Virtual Generator
 - establishes required settings to ensure the proper weld nugget
- **Advanced quality control system** that monitors and adjusts the welder to guarantee the total energy input
- **Powerful** with welding current up to 12,000 Amps
- **Completely liquid-cooled welding**, from the power module all the way to the caps providing a greater Duty Cycle
- **Easily upgraded** via convenient USB port
- **Reproducible** welding quality
- **Welding data documentation** with the use of WinSpotQS-Software

"Virtual Machine" - Programmable Intelligence

"Virtual Machine" refers to innovative control technology. The integrated quality assurance management system monitors the joining process from start to finish; starting with defining the initial weld situation, monitoring and adjusting through the weld to the completion of the weld.

The system can recognize and adjust for specific situations such as bonding material and shunt effect. The dynamic pre-pulse function recognizes actual burn through.



TECHNICAL DATA

CTR12000 Spot Welder

Input voltage:	208V 3 phase, 50-60HZ 220V 3 phase, 50-60HZ 460V 3 phase, 50-60HZ
Input power:	75kVA
Fuse (delayed action):	30 - 60 A
Protection type:	IP21
Insulation class:	F
Compressed air supply:	8 bar (116 PSI)

Power unit for transformer gun (10 KHZ)

Output current:	0-200 A
Output voltage:	560V

Cooling

Cooling power:	1000W
Tank capacity:	20 l (5.3 gal)
Flow rate:	6 l/min (1.6 gal/min)

Configuration

Dimensions (HxWxD):	1220 x 680 x 800mm (48" x 27" x 32")
Approx. weight:	95 kg (210 lbs)*

Transformer C- Gun

Primary voltage / Frequency:	560V/10 kHz
Primary power (100 % duty cycle):	20kVA
Protection type:	IP21
Insulation class:	F
Cooling type:	Liquid Cooled

Welding Circuit

Welding current:	12,000 A
No-load voltage:	12.5 VDC

Mechanical Data

Electrode force:	0 - 500 daN (0 - 1124 lbf)
Weight approx*	11 kg (24 lbs)
Cable length:	6 m (19.7 ft)

* With the C-80 Yoke. Weight varies with other Yokes

The CTR12000 includes the following:

C-Gun 40 mm throat depth,
water cooled



C-Gun 80 mm throat depth,
air cooled



C-Gun 350 mm throat depth,
air cooled



C-Gun 500 mm throat depth,
air cooled



Accessories case, electrode set
and 13mm caps



Wheel extension



Optional accessories:

Support arm
with balancer block



Optional Equipment

Complete Set Spotter/Dent Fixer

Includes: multifunction spot welding gun for dent repairs, pulling, push-spotting and shrinking. With pulling hammer, workpiece cable with connector, ground cable 2500 mm, accessories box and delivery plate.



Welding Data Documentation

WinSpotQS documentation software program records weld data and generates reports on the repair process. Create multiple repair orders at one time, record data, store the information and add additional repair order information if desired. The QS Traffic Light icons also appear on the report for quick reference. Easily transfer orders to a computer via USB flash drive.

