CTR12000 *Spot Welder*

Totally Automatic Spot Welding Machine

CTR12000 - featuring optional support arm with balancer block

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.

Product Benefits

- Automatic recognition of total material thickness via Pulse-Sonar-System

- Automatic recognition of material type via Virtual Generator

- Automatically 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

- Greater Power Efficiency via the 15 kHz Transformer C-Gun

- 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

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

The system can recognize and adjust for specific situations such as bonding material and shunt effect. Rather than having a fixed pre-pulse, the welder uses a dynamic pre-pulse feature which recognizes actual burn through.

TECHNICAL DATA

CTR12000 Spot Welder

Max voltage	3 x 400V 50 Hz*
Max power:	75kVA
Fuse (delayed action):	16-32 A**
Protection type:	IP21
Insulation class:	F
Compressed air supply:	8 bar (116 PSI)

Power unit for transformer gun (15 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) approx:	1220 x 680 x 800mm
(without balancer kit)	(48" x 27" x 32")
Approx. weight:	95 kg (210 lbs)
(without balancer kit)	

Technical data transformer C- Gun
Connection Data

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)

* Special voltage versions available: 220/230V, 208V, 460V
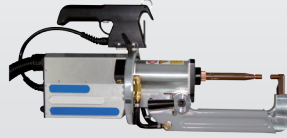*** Recommendation32A (delayed action)*
*** With the C-80 Yoke. Weight varies with other Yokes

The CTR12000 includes the following:

C-Gun 40 mm throat depth

C-Gun 80 mm throat depth, cooled

C-Gun 350 mm throat depth, cooled

C-Gun 500 mm throat depth, cooled

Accessories case, electrode set and 13mm caps.

Wheel extension

Optional accessories:

Support arm with balancer block

Optional Equipment

Complete Set Spotter/Dent fixer

Consisting of: 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 is a documentation software program that records weld data and generates reports on the repair process. Users can 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. Orders are easily transferred to a computer via USB flash drive.

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