

# CTR12000™ BMW Version

## Totally Automatic 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.

This welding set is equipped with a transformer spot welding gun. This means the system places less of a strain on workshop power supply systems than conventional cable-type spot welding machines.



*Shown here with optional support arm and balance block*

### Features & Benefits

- **Powerful** with welding current up to 12,000 Amps
- **Automatic recognition of material thickness** via Pulse-Sonar-System
- **Automatic recognition of material type** via Virtual Generator
- **Proper weld nugget insured** — automatically establishes required settings
- **Advanced quality control system** that monitors and adjusts the welder to guarantee the total energy input
- **Easily upgrad welding parameters** via convenient USB port
- **Completely liquid-cooled welding**, from the power module all the way to the caps providing a greater Duty Cycle
- **Reproducible** welding quality
- **Welding data documentation** with the use of WinSpotQS-Software
- **Conforms to the exposure limits** of EU Directive 2004/40/EC

### "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.

This software has been designed specifically for BMW and MINI.



## TECHNICAL DATA

<b>CTR12000T Spot Welder</b>	
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:	6 bar min.
<b>Power unit for transformer gun (10 KHZ)</b>	
Output current:	0-200 A
Output voltage:	560V
<b>Cooling</b>	
Cooling power:	1000 W
Tank capacity:	20 l (5.3gal)
Flow rate:	6 l/min (1.6 gal/min)
<b>Configuration</b>	
Dimensions (HxWxD) approx. (without support arm)	680x800x1220 mm (48x27x32 in)
Approx. weight: (without support arm)	95 kg (210 lbs)
<b>Transformer C- Gun Connection Data</b>	
Primary voltage / Frequency:	560V/10 kHz
Primary power: (100% duty cycle):	20kVA
Protection type:	IP21
Insulation class:	F
Cooling type:	Liquid Cooled
<b>Welding Circuit</b>	
Welding amperage:	12,000 A (Current Controlled)
No-load voltage:	12.5 VDC
<b>Mechanical Data</b>	
Electrode force:	0 - 500 daN (0 - 1124 lbf)
Weight, with 80mm yoke,	11 kg (24 lbs)
Cable length:	6 m (19.7 ft)

\* Special voltage versions: 220/230V, 208V, 460V, 575V

\*\* Recommendation 32A (delayed action)

## The CTR12000T 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



Support arm with balancer block



Supportarm med balansblock

Supportarm extension 457 mm (18")

## Optional Equipment

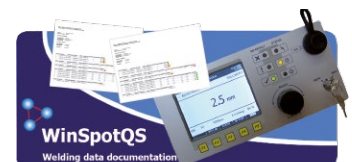
### Complete Set Spotter/Dent fixer

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.



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