

# Spot Welder CTR12000

## Totally Automatic Spot Welding Machine

Fully automatic process-regulated, multiple function spot welding machine with medium frequency inverter operation and liquid cooling. Designed for vehicle body repair, particularly for components made of high or maximum strength steel and also coated or laminated steel panels.

- **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
- **Extremely powerful** with welding current up to 12,000 Amps
- **Greater Power Efficiency** via the 10 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 WinSpot QS-Software



CTR12000 with support arm and balancer block  
Art. No. 43578 (optional)



### Virtual Machine -

### Programmable Intelligence

The term "Virtual Machine" refers to the innovative control technology. The integrated quality assurance management system monitors the joining process from end to end; 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.

CTR12000	Article No.	Qty.
400V	43000	1
220/230V	43466	1
208V	43465	1
460V	43467	1
400V BMW	43801	1
220/230V BMW	43803	1
208V BMW	43802	1
460V BMW	43804	1
400V VAS	44310	1
220/230V VAS	44312	1
208V VAS	44311	1
460V Vas	44313	1

## CTR12000 Resistance Spot Welder

### Technical Data

Spot Welder CTR12000	
Max voltage	3 × 400V 50Hz*
Max power	75 kVA
Fuse (delayed action) 16-32 A *	16-32A
Protection class	IP 21
Insulation class	F
Compressed air supply	8 bar
<b>Power unit for transformer gun</b>	(10 KHZ)
Output current	0-200A
Output voltage	560V
Cooling	
Cooling power	1000 W
Tank capacity	20l
Flow rate	6 l/minute
<b>Configuration</b>	
Dimensions(H × W × D) approx.	1220 × 680 × 800 mm
Weight approx. **	95 kg
<b>Technical data transformer C-Gun Connection data</b>	
Primary voltage / frequency	560V/10 kHz
Primary power (100 % duty cycle)	20 kVA
Protection class	IP 21
Insulation class	F
Cooling	Water
<b>Welding circuit</b>	
Welding current	12 kA
No-load voltage	12,5V DC
<b>Mechanical data</b>	
Electrode force	0-5 kN
Weight (dep. upon fitting) approx.	11 kg
Cable length	6 m

\* Recommendation 32A (delayed action)

\*\*With the C-80 Yoke. Weight varies with yoke sizes

## Optional Equipment

### Multifunction Gun Kit

Art. No. 41888



The Multifunction Spot Welding Gun connects quickly and easily to the CTR12000 C-Gun. The kit includes the MF Gun and Ground Cable, Accessory Box, Slide Hammer, and MF Gun Holder.

## CTR12000 includes the following:\*



C-Gun 40 mm,  
air-cooled



C-Gun 80 mm,  
water-cooled



C-Gun 350 mm,  
water-cooled



C-Gun 500 mm,  
water-cooled



Electrode Set

## Optional Accessories

### Support Arm with Tool Balancer

Art. No. 43578



### Welding Data Documentation

Art. No. 41943

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.

\*More spare parts and accessories shown on pages 23-26