

WELDING SYSTEMS

OVERVIEW SPOT WELDERS CTR®9, CTR®7 & CTR®12000





MODEL	CTR [®] 9	CTR [®] 7	CTR [®] 12000	BENEFITS
DESCRIPTION	Fully automatic process-regulated, multiple function spot welding machine with medium frequency inverter operation and liquid cooling. Designed for the repair of vehicle bodywork, particularly of components made of high or maximum strength, and also coated or laminated, steel panels.	Process-regulated, multiple function spot welding machine with medium frequency inverter operation and liquid cooling. Designed for the repair of vehicle bodywork, particularly of components made of high or maximum strength, and also coated or laminated, steel panels.	Fully automatic process-regulated, multiple function spot welding machine with medium frequency inverter operation and liquid cooling. Designed for the repair of vehicle bodywork, particularly of components made of high or maximum strength, and also coated or laminated, steel panels.	
Maximum Electrode Force	350-640 daN (787-1439 lbf)	0 - 500daN (0 - 1124lbf)	0 - 500 daN (0 - 1124 lbf)	High tip pressure is needed for AHSS/Boron and future metals.
Amperage Maximum Capacity	16,000 amps	12,000 amps	12,000 amps	Extremely powerful with decreased welding time and reduced heat to machine and weld area
Bad Spot Detection & Monitoring	Yes		Yes	Guarantees weld quality in finished repair.
Water Cooling Radiator System	Yes	Yes	Yes	Gives a cooler machine and tips, especially important when welding AHSS
Resin Coated Rectifier for Heat Control	Yes	Yes	Yes	Efficient heat dissipation for extra long welding duty cycles
Cooling Capacity LTRS	20 liters total and 3 liters per minute of cooled liquid	20 liters total and 2 liters per minute of cooled liquid	20 liters total and 6 liters per minute of cooled liquid	Higher capacity gives a cooler water source and improves the duty cycle
Cooling System	Water cooled with cooled water	Water cooled with cooled water	Water cooled with cooled water	Completely liquid-cooled welding, from the power module all the way to the caps, providing a greater Duty Cycle
Welder Cable Diameter	Transformer gun - diameter not critical (20' length)	Transformer gun - diameter not critical (20' length)	Transformer gun - diameter not critical (20' length)	Larger diameter cables enable more energy to pass in less time increasing duty cycle and reducing heat at the tips, cables, gun converter and heat affected weld area.
High Efficiency Diode Flat Packs	Yes	Yes	Yes	Enables more power in less time and with much less heat
Anti-Spin Electrode Shaft	Yes	Yes	Yes	Enables electrode removal ease
Isolated Ground Straps on Multi-Function Gun	Separate unit - Not Required	Separate unit - Not Required	Separate unit - ground straps not required	Increases safety, decreases explosion risk from improperly stored multi-function gun
Telescopic Support Arm	1.9 (74.8 in) - 2.4 m (94.5 in) Arm reach 40° 1.2M (47.2 in) - 1.5M (59.1 in)	1.9 (74.8 in) - 2.4 m (94.5 in) Arm reach 40° 1.2M (47.2 in) - 1.5M (59.1 in)	500 mm Standard	Long reach support arms are standard, no additional cost, allows welding in hard to reach places
Rotating handle function 355°	Yes - Double with quick-release button	Yes	Yes	The CTR9 handle swivels on 2 axes. Press the quick-release button and turn the handle to the optimal working position.
Metal Type Detection	100% Automatic Self Detecting	Semi-Automatic Self Detecting	100% Automatic Self Detecting	CTR12000, no settings required, fully automatic eliminates need for vehicle spec. sheet, ensures proper weld nugget
Metal Thickness Detection	100% Self Adjusting	Manual	100% Self Adjusting	CTR9 & CTR12000 no settings required, fully automatic. Eliminates need for vehicle spec. sheet, gives accurate results via Pulse-Sonar System
Tip Pressure	100% Self Adjusting		100% Self Adjusting	Automatically sets tip pressure according to metal type and thickness, gives accurate results
Automatic Amperage/Power Settings	Fully Automatic	Semi Automatic	Fully Automatic	CTR9 & CTR12000, Advanced quality control system that monitors and adjusts the welder to guarantee the total energy input, gives accurate results.
CANBUS Communication	Yes	No	No	Advanced processors, integrated sensors and digital CANBUS communication ensure fast and correct data transmission for absolute accuracy.
USB Software Update Mode	Yes	No	Yes	Easily updated, enables faster and larger file uploads
Welding Documentation Software	Optional	Optional	Optional	WinSpot QS Software enables documentation of each spot weld in a report format
Weld Cap Change Notification	Yes	No	Yes	Display notifies users when to check or change electrode caps
Personal Profiles	Yes	No	Yes	Allows technicians to quickly find previously stored information.