



CAR-O-LINER®

CTR® 9
BODY SHOP EFFICIENCY
TAKEN SERIOUSLY

CTR[®] 9

BODY SHOP EFFICIENCY TAKEN SERIOUSLY

The **CTR 9** fully automatic welder comes with a new, revolutionized light-weight transformer gun. With its 355° swivel handle and ergo-grip, it enables perfect working positions for anyone, for any job. The gun is supported by a telescopic arm in a durable and lightweight extruded

aluminum that can be easily adjusted both vertically and horizontally. A compact power unit with a low center of gravity gives mobility and stability, a 16,000-amp transformer and **CANBUS** communication ensure a perfect weld every time.

TECHNOLOGY FOR GREATER WORKING RANGE

TELESCOPIC SUPPORT ARM

The support arm is designed to ensure maximum freedom of movement (from 1.9 to 2.4m). It's made of robust yet lightweight extruded aluminum, and is easy to adjust both vertically and horizontally for an optimum working position.

OPTIONAL SHELF AND CLIP KIT

The shelf kit featuring rubber tray mats keeps accessories near to hand. The Clip kit increases safety by keeping the hose securely in place.

ERGO-GRIP

The fully-closed handle fastened at both ends enhances maneuverability and allows you to hold the gun in a relaxed way in every working position. Day in, day out.

LIGHTWEIGHT TRANSFORMER GUN

The transformer gun made of reinforced fiberglass is designed for fast-paced activity, while at the same time reducing the strain on your body. It's robust, yet among the lightest on the market, allowing you to work efficiently without getting tired. Again and again.

BETTER ACCESSABILITY

With the 6m (236.22in) cable you can reach more parts/ areas of the vehicle without moving the machine.

POWER UNIT WITH EASY-TO-USE CONTROL UNIT

The robust and compact power unit with its solid, high strength steel bottom plate features a low center of gravity for superior stability and increased mobility. The control unit is easy and intuitive to use, ensuring fast paced accuracy with every welding spot.

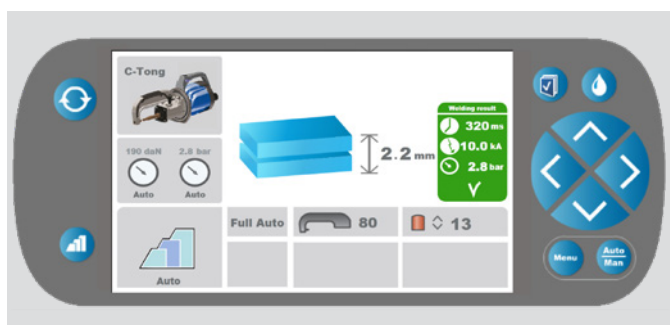


EASY TO USE

READY TO PERFORM

IT INSTANTLY MEASURES THE METAL PANELS AND CALCULATES THE EXACT AMOUNT OF TIME, CURRENT AND CLAMPING FORCE NEEDED FOR A 100% QUALITY-WELD EVERY TIME.

CHOOSE BETWEEN 4 WELDING MODES



FULLY AUTOMATIC	AUTO 1	AUTO 2	MANUAL
Default mode. All values are automatically set.	Semi automatic mode. Most of the values are automatically set.	Semi automatic mode. Some values are automatically set.	Welding time, current and electrode mode are settings that should be set manually.
	Except: Total material thickness	Except: Number of metal sheets Type of material Total material thickness	

WELDING DATA DOCUMENTATION



The **CTR 9** records weld data and generates reports during the repair process. Print the report to testify to the quality of the welding and increase the trust in your body shop.

- PC and machine software for documentation and registration of welding data
- Records welding current, time, date, program and result
- Creates work orders
- Saves welding data with print out possibilities via USB

REACHING THE OUT-OF-REACH

Reachable arm area	40°
Maximum arm reach	1,5M (59.1 in)
Minimum arm reach	1,2M (47.2 in)
Highest height	2,4M (94.5 in)
Lowest height	1,9M (74.8 in)



FEATURES AND BENEFITS

- **DOUBLE ROTATING C-TONG HANDLE** for higher productivity while reducing strains and injuries.
- **ERGO-GRIP HANDLE** allows technicians to comfortably hold gun in any position
- **LIGHTWEIGHT TRANSFORMER GUN** allows for quick work with a minimum of body strain
- **TELESCOPIC SUPPORT ARM**, adjustable both vertically and horizontally for maximum freedom of movement for an optimum working position
- **AUTOMATICALLY* ESTABLISHES REQUIRED SETTINGS** to ensure the proper weld nugget.
- **WELDING CURRENT UP TO 16,000 AMPS** for powerful output
- **INNOVATIVE, COMPACT DESIGN** with low center of gravity for increased safety and agility
- **EXCLUSIVE LED CONTROL PANEL** is easy to follow
- **WELDLOGGER** (optional) software for documentation and registration of weld data

* Fully automatic system: Patent pending.

C-TONG

UNIQUE DOUBLE ROTATING HANDLE FUNCTION*

THE 355° SWIVEL HANDLE WITH QUICK RELEASE SWIVELS ON TWO AXES. FREEDOM TO PERFORM — PRESS THE QUICK-RELEASE BUTTON AND TURN THE HANDLE TO AN OPTIMUM WORKING POSITION FOR SUPERIOR HANDLING.



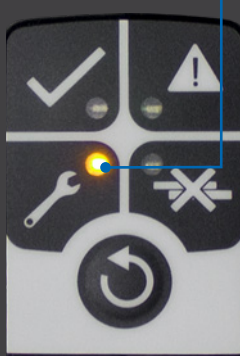
EXCLUSIVE LED STATUS DISPLAY

STATUS

Green LED — indicates that the welding machine is ready. It will flash during the weld process and return to steady when the spot weld was well executed.

SERVICE

Yellow LED — indicates that electrode cap service is required.



WELD QUALITY/OUT OF LIMIT

Red LED — indicates a faulty spot weld. Welding could not be performed because of measured parameters outside limits.

The **CTR9 C-Tong** also has a built-in pneumatic feature that presses the welding tips together automatically when triggered. The electrode force is an important ingredient in a good resistance weld. The pressure setting is visible in the control panel display and can be set automatically or manually.

*Double rotating handle:
Patent pending.

PERFORM SAFELY

CTR® 9 IS CERTIFIED BY THE EOS METHOD
(ERGONOMIC OBSERVATION SYSTEM)



THE INTEGRATED QUALITY ASSURANCE MANAGEMENT SYSTEM MONITORS THE JOINING PROCESS FROM START TO FINISH. THE AUTO CHECK SHOWS YOU ANY DIVERSION ON THE WELDING PROCESS TO ENSURE BOTH SAFETY AND QUALITY.

UNCOMPROMISED ACCURACY

Advanced processors, integrated sensors and digital **CANBUS** communication ensure fast and correct data transmission for absolute accuracy.

FUTURE-PROOF CONNECTIVITY

Wi-fi and Bluetooth™ enable future monitoring, instant documentation and traceability of the entire welding process.

The new **Car-O-Liner CTR 9** resistance spot welder provides quality spot welds in all the new high-strength steels using cutting edge inverter technology. It features a wide range of accessories, the state of the art **C-Tong** handle, and a sophisticated software with four welding modes that go from manual to fully automatic. Keep the fully automatic mode on to ensure perfect welding results.

PERFORM PER OEM REQUIREMENTS

Ready to perform in your body shop per OEM requirements, the **CTR 9** replicates the welding procedure as performed by the car manufacturers.

OVERHEAT PROTECTION

The protection system monitors the welder when the **C-Tong** is used. The thermal and break sensors protect the welder in the event of overheating.

INCREASED ACCESSIBILITY TO ACHIEVE THE BEST PERFORMANCE






PRODUCT INFORMATION

AND TECHNICAL DATA











STANDARD COMPONENTS

	ITEM	PN
	C-YOKE 40mm THROAT DEPTH, WATER COOLED	49317
	C-YOKE 80mm THROAT DEPTH, WATER COOLED	49318
	C-YOKE 350mm THROAT DEPTH, WATER COOLED	49319
	C-YOKE 500mm THROAT DEPTH, WATER COOLED	49320
	SUPPORT ARM WITH INTEGRATED BALANCER BLOCK Telescopic horizontally and vertically, Adjustable arm height, from the floor, 1.9 - 2.4m, Adjustable arm length, from 1.2 - 1.55m	36590
	ELECTRODE KIT	48576
	HI-TECH FLUID 3l concentrate	33944

OPTIONAL ACCESSORIES

	ITEM	PN
	SHELF & HOOK KIT Shelves: 2 rotatable and 1 fixed, with rubber mats. Clips: 2 for verticle and 2 for horizontal attachment.	50300
	DUST COVER Polyester/PU Coating	50343
	AW-TONG Fully automatic water-cooled A-tong	52031

OPTIONAL ACCESSORIES

	ITEM	PN
	MULTIFUNCTION GUN SET Includes: Multifunction spot welding gun, Workpiece cable with connector, 2,500mm grounding cable, Pulling hammer and Accessories box. Trigger connector is for CTR9.	49905
	MULTI-FUNCTION GUN Includes: spot gun with workpiece cable with CTR9 connector, ground cable 2500 mm. Trigger connector is for CTR9.	49907
	WELDLOGGER PC SOFTWARE PC & machine software for documentation and registration of welding data. Records welding current, time, date, program and result. Creates work orders. Print out via USB.	36590
	C-ARM RUBBER INSULATOR KIT 40: 2 x 8mm clips, left and 2 x 8mm clips, right	50923
	C-ARM RUBBER INSULATOR KIT 80: 1 x outer cover, 4 x 8mm clips, left and 4 x 8mm clips, right	50924
	C-ARM RUBBER INSULATOR KIT 350/500/600: 1 x inner cover 8mm/350, 1 x outer cover 8mm/350, 4 x 8mm clips, left and 4 x 8mm clips, right	50924
	C-ARM RUBBER INSULATOR KIT 350/500/600: 1 x inner cover 8mm/500, 1 x outer cover 10mm/500, 2 x 8mm clips, left and 2 x 8mm clips, right	50926
	COMPLETE RUBBER INSULATOR KIT: 1 x each kit: 40, 80, 350 and 500	50928
	8mm CLIPS , 20 pair (left & right)	50929
	10mm CLIPS , 20 pair (left & right)	50930

TECHNICAL DATA

SPECIFICATION	208V (PART NO. 48570)	400V (PART NO. 48574)	460V (PART NO. 48572)
MAX. VOLTAGE	3 x 208V -5% +10%, 50 Hz-60 Hz	3 x 400V -5% +10%, 50 Hz-60 Hz	3 x 460V -5% +10%, 50 Hz-60Hz
POWER SUPPLY FUSE	60A slow blow or circuit breaker Type K	32A slow blow or circuit breaker Type D	30A slow blow or circuit breaker Type K
PROTECTION TYPE	IP21	IP21	IP21
INSULATION CLASS	F	F	F
COOLING TYPE	Liquid cooled	Liquid cooled	Liquid cooled
COMPRESSED AIR SUPPLY, P1MIN-P1MAX	5.0-10 bar (72-145 psi)	5.0-10 bar (72-145 psi)	5.0-10 bar (72-145 psi)
DUTY FACTOR, X	10%	10%	10%
MAX. SHORT CIRCUIT INPUT CURRENT, ILCC	317A	136 A	109 A
PERMANENT POWER (100 % DUTY FACTOR), SP	116 kVA	130 kVA	128 kVA
PERMANENT INPUT CURRENT, ILP	324 A	190 A	161 A
ELECTRODE FORCE, FMIN-FMAX	350-640 daN (787-1439 lbf)	350-640 daN (787-1439 lbf)	350-640 daN (787-1439 lbf)
DIMENSIONS (HXWXD) APPROX. (WITHOUT SUPPORT ARM)	1130 x 650 x 930 mm (44.5 x 25.5 x 36.5 in)	1130 x 650 x 930 mm (44.5 x 25.5 x 36.5 in)	1130 x 650 x 930 mm (44.5 x 25.5 x 36.5 in)
WEIGHT APPROX. (ARM + WATER + 80MM YOKE)	135 kg (298 lbs)	135 kg (298 lbs)	135 kg (298 lbs)
WELDING OUTPUT			
MAX. SHORT CIRCUIT OUTPUT CURRENT, I2CC	16.0 kA	16.0 kA	16.0 kA
PERMANENT OUTPUT CURRENT (100 % DUTY FACTOR), I2P	14.1 kA	15.8 kA	15.8 kA
NO-LOAD VOLTAGE, U2D	12.0 V	13.0 V	14.5 V
LIQUID COOLING			
COOLING POWER	1000W	1000W	1000W
TANK CAPACITY	20 l (5.3 gal)	20 l (5.3 gal)	20 l (5.3 gal)
RATED COOLING LIQUID FLOW, Q	3 l/min (0.79 gal/min)	3 l/min (0.79 gal/min)	3 l/min (0.79 gal/min)

CAR-O-LINER®



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