

PREMIUMSPOT VISION

Resistance spot welding machine



PREMIUMspot VISION with Transformer C-Gun
(Extended version with actuator)

MULTIFUNCTION SPOT WELDING MACHINE IN THE PREMIUM CLASS WITH COMPLETE SOFTWARE PACKAGE FOR WORRY-FREE AUTOMOTIVE REPAIR!

Fully automatic welding particularly of components made of high or ultra high strength steel, also coated steel sheets or sheet combinations with adhesive.

Aluminum welding for thin aluminum sheets up to 4 mm.

All required welding tasks performed by a single device:

- Spot welding in automatic mode without prior adjustments
- Conventional spot welding in standard mode with setting of current and time
- Spot-welding with quality assurance and energy control: Welding programs for coated panels and panels still containing traces of paint or adhesive residues, including independent parallel resistance detection system and stabilizing control as well as vehicle-specific programs with approved parameters of vehicle manufacturers
- Spotting, dent repair, pulling of steel plates, welding-on of pins and T-pins (with optional spotter)

CHARACTERISTICS PREMIUMSPOT VISION

- Welding process-control
- High welding currents even with low fuse protection
- High output currents >13 kA
- High quality performance „spot by spot“
- Energy control
- Parallel resistance (shunt) detection
- Reproducible welding quality
- Welding parameters can be updated via USB-Stick at any time
- Welding data documentation with the use of Spot QS Viewer (optional)
- Complete software package
- Equates to the exposure limit values of the EU-Directive 2004/40/EG
- Easy and quick exchanging of C- and X-gun adapter

WELDING CONTROL

Assurance of production quality by vehicle-specific default parameters programmed into the control.

Programs can be updated via USB-Stick at any time.

Secure long-term investment, thanks to flexible control-system technology and updating of the "ELMAControl" developed by ELMA-Tech for most different welding processes.

SPOTQS VIEWER WELDING DATA DOCUMENTATION (OPTIONAL)

With the SpotQS Viewer software welding parameters for spot-weld joints are displayed and evaluated.

After a welding job the parameters as well as the welding result can be written onto the USB-device. The record of the welding result corresponds to the image of the quality management indicator lights in the control panel.

Body repair has never been so easy - Quality welding without adjustments

Automatic control of the energy input

Automatic detection of total sheet thickness

Automatic detection of material type

Automatic shunt detection

Automatic energy tracking

Connection data

Voltage:	3 x 400 V 50 Hz 3 x 208 V 60 Hz 3 x 220 V / 230 V 50/60 Hz 3 x 460 V / 480 V 60 Hz
Max. power:	130 kVA
Fuse (delayed action):	16 A (> 380 V) Recommended 32 A (< 380 V)
Protection type:	IP 21
Insulation class:	F
Compressed air supply:	6 bar
Required ground-fault circuit interrupter provided on-site:	RCD Typ B+
maximum power:	130 kVA

Power unit for transformer gun (10 kHz)

Output current:	0 - 230 A
Output voltage:	560 V

Cooling

Cooling power:	1000 W
Tank capacity:	20 l
Flow rate:	6 l/min

Construction

Dimensions (H x W x D):	1220 x 680 x 800 mm
Weight approx.:	95 kg

Connection data Transformer C- Gun

Primary voltage / Frequency:	560 V / 10 kHz
Primary power (100% ED):	7 kVA
Protection type:	IP 21
Insulation class:	F
Cooling type:	WF

Welding circuit

Welding current:	13 kA (dep. on fitting.)
Open-circuit voltage:	12,5 V DC

Mechanical data

Electrode force:	0-5,5 kN
Weight (without force)	
C-Gun:	10,5 kg

Support for C-Gun

Dimensions (H x W x D)	
Standard version	1980 x 1150 mm
Extended version with actuator	1500 x 1900 mm (min) 2050 x 1900 mm (max)

Special voltage 200-500 V / 50-60 Hz on demand.
Technical modifications reserved.

PREMIUMSPOT VISION ACCESSORIES

Technical information

ACCESSORIES (OPTIONAL)

- 1 Multi-purpose gun with slide hammer puller for dent repairs, panel shrinking, spotting and tacking
- 2 Dent removal accessory case
- 3 Special electrode cap cutting machine for quick and easy trimming of the electrode caps
- 4 Electrode cap cutter
- 5 Electrode cap accessory case
- 6 Cover
- 7 X-gun adapter with beak electrodes
- 8 X-gun adapter with angular electrodes
- 9 Extended Balancer Kit (boom + Balancer)
- 10 Balancer-Kit Classic (Gun Support + balancer)
- 11 Active coolers (for special use)

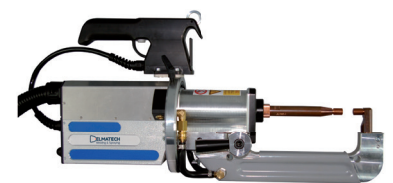


STANDARD EQUIPMENT

- C-gun with 6 m hose set
- Fittings: 40 / 80 / 350 / 500 mm outreach
- 10 m power cable with 32 amp.-plug, electrode case
- Software: VISION-AUTO, VISION SPECIAL, VISION-ALU, ELMA-QS, STANDARD, SINGLE, OPEL, OPEL-VP



40 mm



80 mm



350 mm



500 mm