

PREMIUMSPOT VISION

Resistance spot welding system

WORLD CLASS RESISTANCE SPOT WELDING SYSTEM WITH COMPLETE SOFTWARE PACKAGE FOR WORRY-FREE AUTOMOTIVE REPAIRS!

Fully automatic welding of components made of high- or ultra-high-strength, as well as coated and laminated steel panels, in particular.

Welding of thin aluminium sheets of 4 mm.

All necessary welding processes in a single device:

- Spot welding in automatic mode without prior adjustments
- Conventional spot welding in standard mode according to current / time
- Spot welding with quality assurance, energy control: welding programs for high- and ultra-high-strength panels, coated panels, panels containing traces of paint, including independent parallel resistance detection system and stabilising control, as well as vehicle-specific programs with vehicle-manufacturer-approved parameters
- Spotting, dent removal, panel shrinking, welding T-pins in place (with optional spotter)



PREMIUMspot VISION with transformer C-gun (standard version)

PREMIUMSPOT VISION FEATURES

- Welding process control
- High welding currents even with low fuse protection
- High output currents >13 kA
- Point-by-point quality statement
- Energy control
- Parallel resistance detection
- Reproducible welding quality
- Welding parameters can be updated at any time via USB stick
- Printout of welding parameters using the SpotQS Viewer (optional)
- Complete software package
- Corresponds with the exposure limit values set out in the EU's Directive 2004/40/EC
- C- and X-guns can be changed quickly and easily

PREMIUMSPOT VISION

Technical information

Connection data

Mains voltage	3 x 400 V / 50 Hz
Maximum power	130 kVA
Fuse (slow-bow)	16 A 32 A is recommended
Protection class	IP 21
Insulation class	F
Compressed air supply	6 bar
Required residual current isolation - provided on site: maximum power	RCD Typ B+ 130 kVA

Power unit for transformer gun (10 kHz)

Output current	0 - 230 A
Output voltage	560 V

Cooling

Cooling capacity	1000 W
Tank capacity	20 l
Flow	6 l/min

Configuration

Dimensions (H x B x T)	1220 x 680 x 800 mm
Weight	95 kg

Connection data

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

Welding circuit

Welding current	13 kA (depends on fitting)
Open circuit voltage	12,5 V DC

Mechanical data

Contact pressure	0-5,5 kN
Weight (without arms)	
C-gun	10,5 kg
X-gun	6 l/min

Configuration

Dimensions (H x B x T)	1220 x 680 x 800 mm
Weight	95 kg

Special voltage 200-500 V/50-60 Hz on demand.
 Subject to technical modifications.

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 programs that ELMA-Tech has developed for the most varied of welding processes.

SPOTQS VIEWER-WELDING DATA DOCUMENTATION (OPTIONAL)

The welding parameters for vehicle-specific spot-welded joints are recorded and analysed using the SpotQS Viewer software.

The parameters and the welding result can be written to the USB stick after completion of a welding job. The recording of the welding result corresponds to the progress of the QA traffic lights on the control panel.

Bodywork repairs have never been so easy - quality welding with no adjustments

Automatic control of energy input

Automatic detection of sheet thickness

Automatic detection of material

Automatic secondary circuit detection

Automatic energy tracking

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 Balancer kit (boom + Balancer)
- 10 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