

ELMASpot VISION

Fully automatic multifunction spot welding machine

**No more
adjustments,
just weld!**

For the resistance welding of components made of high-strength steels as well as multiple sheet panel connections, coated and laminated steel panels with quality statement regarding the welding process (welding result) - no parameter settings necessary.

This unique control technology with Virtual Machine enables the welding of also of new materials without the requirement of further adjustments.

Technical characteristics

- 5,5 kN electrode force in all C centre-arm distances (80, 350, 500 mm) at 6 bar
- 5 m mains cable 32 Amp. CEE connector
- Main circuit breaker
- Extremely low spot welding gun weight (eg. C gun 10.5 kg)
- Quick coupling connection for plugable cable hose package (4 m)
- Internal water cooling with a large 70 liter tank
- High welding currents even with low fuse protection
- High output currents up to 13 kA
- Digital welding control - Virtual Machine - with quality assurance system and display
- Precise process regulation, energy control, bypass detection
- Reproducible welding quality
- Update-ability via USB-interface
- Printout of the welding parameters via SpotQS-Viewer Software*

Standard software features

- Welding program "VISIONAUTO"
- Welding program "STANDARD"

* optional



ELMASpot VISION
equipped with C- transformer
gun and internal water cooling

Welding processes in the standard equipment

- **VISIONAUTO:**
Automatic detection of material type and total sheet thickness
Adjustments: NONE - Just activate the start-trigger!
- **STANDARD:**
Current / time control
(conventional constant current regulation)
Adjustments: single-parameter
- **Further options among others:**
Spotting* / dent-repair* / pulling of steel plates* /
welding-on of pins and t-pins*



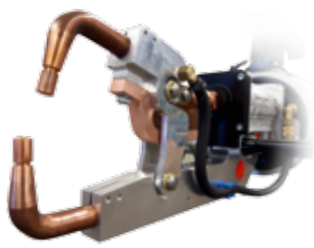


The light weight 10 kHz transformer spot welding guns with integrated cooling system and linear potentiometer system for electrode distance measurement fulfill easily all requirements given during in repair shops. The light cable hose package contains all necessary supply lines for current, water and compressed air.

Technical data Transformer C- and X-gun



Spot welding gun
ELMA VISION C



Spot welding gun
ELMA VISION C with X-gun adapter

- 10 kHz medium frequency transformer, weight 4 kg, output current up to 13 kA
- electrode force up to approx. 5 kN
- minimal spot gun weight with approx. 10,5 kg (depending on electrode arms)

Individual electrode arms available upon customer request.

Welding data documentation SpotQS Viewer



Welding parameters for spot-weld joints are displayed and evaluated according to the spec vehicle.

For example the selected program, the material thickness, electrode force, welding result etc.

After a welding job the parameters as well as the welding result are written onto the USB-device. The welding result is reflected in the image of the quality assurance indicator light.

Technical information ELMAspot VISION

CONNECTION DATA

max. voltage	3 x 400V 50 Hz**
max. power	130 kVA
fuse (delayed-action)	32 A
protection class	IP 21
insulation class	F
compressed air supply	min. 6 bar

POWER UNIT FOR TRANSFORMER SPOT GUN (10 KHZ)

output current	0 - 230 A
output voltage	560 V

COOLING

cooling power (internal)	1000 W
tank capacity	70 l
flow rate	6 l/min

CONFIGURATION

dimensions (H x W x D) approx.	1285 x 600 x 600 mm
weight approx.	120 kg

Transformer C- und X-gun

CONNECTION DATA

primary voltage / frequency	560 V / 10 kHz
primary power (100 % ED)	7 kVA
protection class	IP 21
insulation class	F
cooling type	WF

WELDING CIRCLE

welding current (dep. on electrode arms)	approx. 13 kA
no-load voltage	12,5 V DC

MECHANICAL DATA

electrode force	0 - 5,5 kN
weight (dep. on electrode arms)	approx. 10,5 kg

*optional

**special voltage: 200 - 500 V / 50 - 60 Hz upon request

Technical changes reserved.

