



WELDING TECHNOLOGIES GROUP

Motor Body Repair

General Overview



Quality without compromise

www.arotechnologies.com

Motor body repair



About

Since the middle of the 20th Century, the name ARO has been synonymous with resistance welding. Today the ARO Welding Technologies Group is a world leader in welding system solutions to the automotive and other industries. Widely acclaimed as the leader in its field, ARO's welding systems and ancillary equipment are chosen by clients who recognise ARO's superior functionality and reliability. Added to which every ARO product is designed to provide the client with the lowest life cycle costs.

With its headquarters based in Chateau du Loir, near Le Mans in France, and through its network of subsidiaries and production sites in Europe, America and Asia, ARO provides world class service to world class clients.

Combine this with the highest levels of client support and after sales service available anywhere and it is clear why ARO is widely recognised as the most respected name in resistance welding technology.



ARO is a division of the multi-disciplined UK based engineering group, Langley Holdings plc (www.langleyholdings.com).

MBR Technology

The ARO mobile welding product range was developed with the automotive MBR (motor body repair) market in mind and is also utilised in automotive prototype build and mainline backup.

Since its conception, over a quarter of million of spot welders have been supplied by ARO to the automotive industry. Today, ARO continues to innovate and provide solutions for higher production by offering multi-functional equipment and lower operating costs to meet the demands of today's automotive repair market.



ARO headquarters, Chateau du Loir, France

ergoweld... Adaptive-Ready

ARO ergoweld

The ARO ergoweld portable welding machine is a leader in the field thanks to its reliability, simplicity of use, power consumption, easy navigation software, simple front panel commands and patented telescopic support beams. A double gun version is also available, offering 13000A at the electrodes at an unequalled duty factor.

The ergoweld is offered in three models from 9000A to 13000A used primarily in automotive repair applications.

Available on all new models is a USB connection (for loading parameters, software updates and data collection) and a power unit featuring the innovative adaptive control concept developed by ARO for automotive production. With its advanced technology, ergoweld is the first "Adaptive Ready" welding machine available on the market today.



ergoweld Model 13K

Adaptive Weld Concept:

Analysis in real time of dynamic resistance during a weld cycle is calculated from the secondary current and voltage of the weld gun. This allows the Adaptive Weld system to automatically adapt the weld parameters to suit the assembly being welded.

- Welding of different sheet combinations without programme change: eliminates programme selection
- Stronger weld assembly, specially with HLE, THLE, Trip panels
- Simplified and reduced programming
- Welding of glued or insulated panels
- Automatic electrode wear compensation
- Management and recording of weld spots

ergoweld: inverter spot welder range

ergoweld 13K: 13000A water cooled welder, in 2 standard versions, 2.5m cable, CEM directive compatible

Guns available as standard:

- Water cooled SXR gun (520daN)
- Air cooled C gun (250daN)
- Air cooled single side gun

Main functions:

- Current and resistance regulation
- Electrode force management
- Ergoweld data record (EDR)
- Easy navigation software
- Favourite programmes
- Spot counter

Standard equipment:

- High power integrated water cooler
- Air puller connection



References to order

ergoweld 13K SXR
SXR gun, single sided gun, 1 support beam **ZUR187204**
Accessory kit HMI04038

ergoweld 13K SXR/C
SXR gun, C gun, single sided gun, **ZUR187205**
2 support beams
Accessory kit HMI04037

Technical characteristics

Mains supply *	400V
Fuses	32A
Maximum regulated weld current	13000A
Welding power	107 KVA

* Also available in 480V



ergoweld 11K: 11500A air cooled welder, in 2 standard versions, 3m cable, CEM directive compatible

Guns available as standard:

- Air cooled SX gun (520daN)
- Air cooled C gun (250daN)
- Air cooled single side gun

Main functions:

- Current and resistance regulation
- Electrode force management
- Ergoweld data record (EDR)
- Easy navigation software
- Favourite programmes
- Spot counter

Standard equipment:

- Air puller connection



References to order

ergoweld 11K SX
SX gun, single sided gun, 1 support beam **ZUR187104**

ergoweld 11K SX/C
SX gun, C gun, single sided gun, **ZUR187105**
2 support beams
Accessory kit HMI04037

Technical characteristics

Mains supply *	400V
Fuses	32A
Maximum regulated weld current	11500A
Welding power	95 KVA

* Also available in 230V and 480V



ergoweld 9K: 9000A air cooled welder, in 2 standard versions, 2m cable, CEM directive compatible

Guns available as standard:

- Air cooled SX gun (520daN)
- Air cooled C gun (250daN)
- Air cooled single side gun

Main functions:

- Current and resistance regulation
- Easy navigation software
- Favourite programmes
- Spot counter

Standard equipment:

- Air puller connection



References to order

ergoweld 9K SX
SX gun, single sided gun, 1 support beam **ZUR187004**

ergoweld 9K SX/C
SX gun, C gun, single sided gun, **ZUR187005**
2 support beams
Accessory kit HMI04039

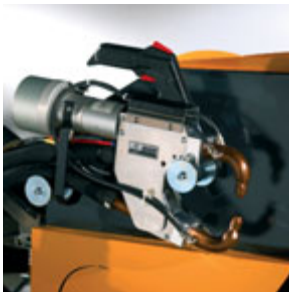
Technical characteristics

Mains supply *	400V
Fuses	25A
Maximum regulated weld current	9000A
Welding power	84 KVA

* Also available in 230V and 480V



Welding Guns



SXR gun: water cooled, 520daN at 7 bars



SX gun: air cooled, 520daN at 7 bars



Single sided gun for spot welding from one side and dent pulling



C gun: air cooled, 250daN at 7 bars



Accessory kit includes

- Consumable box
- Zinc spray
- D12 tip dresser
- Electrode removing tool
- Dent puller

ergoweld Accessories

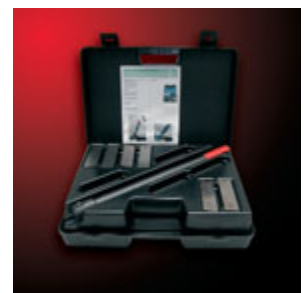


Arms and electrodes for ergoweld guns:

- D25 water cooled arms and caps for SXR gun – up to 400mm
- D25 uncooled arms and caps for SX gun – up to 400mm
- Uncooled arms, 20mm diameter and electrodes for X gun - up to 450mm
- C gun arms and electrodes – up to 600mm
- Adaption sleeve for D20mm arms



Spot drill and drill bits



Nugget puller kit case

AROMIG: the range of MIG welders

AROMIG Inverter 270

New synergic high performing MIG, 270A 400V, ideal for welding all the new material and for MIG brazing.

Available in 2 versions single and double wire feeder.

Automatic, without adjustment, you have only to select the thickness.

DUO PLUS function, SD card driver, delivered with Twist torches, wire coils and gas gauges.



Reference to order

Single wire feeder
Double wire feeder

ZU810020
ZU810019

Technical characteristics

Current range	10 – 270A
Voltage	52V
Duty factor at 60%	245A

AROMIG Bi Cupro

Double feeder MIG welder 400V 200A special body shops for steel, stainless steel and aluminium welding as well as brazing.

Delivered with 2 torches lg. 3m, wire coils and gas gauge.



Reference to order

Complete welder

ZU810013

Technical characteristics

Current range	20 – 200A
Voltage	14 - 30V
Voltage steps	20
Duty factor at 35%	150A

AROMIG IV-4

MIG welder 400V 180A special body shops for steel welding.

Delivered with torch lg. 3m, wire coil and gas gauge.



Reference to order

Complete welder

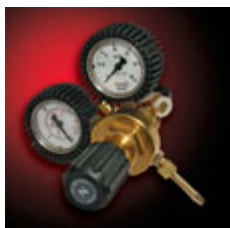
ZU810001

Technical characteristics

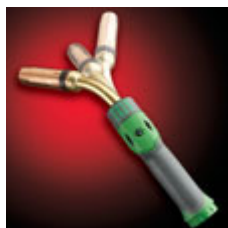
Current range	20 – 180A
Voltage	14 - 30V
Voltage steps	7
Duty factor at 35%	110A



Consumable



Gas Gauges



Twist Torches



Welding Helmets



Welding Wire Coils

Microspot: dent puller

Microspot M4 - for steel

Dent puller unit for steel panels, compatible with Air Puller and accessories from the ARO range.

Delivered with a 2m gun, earth pad and accessories.

Optional trolley available.



Microspot M6 – special aluminium

Capacitor discharge dent puller unit for aluminium panels.

Delivered with a 2m gun with integrated earth pad.

Optional accessories kit available.

Equipped with diam 5mm electrode.



MICROSPOT M6 and accessory kit

Reference to order

Complete M4 unit	ZU220050
Trolley for M4	101 011 251

Technical characteristics

Weight	24Kg
Mains supply	230V
Secondary current	2800A

Microspot M3 still available while stocks last.

Reference to order

Complete unit	ZU220031
Accessory kit	HMI01003_1
Starter Kit Alu Shock	101 006 211

Technical characteristics

Mains supply	230V
Welding capacity	66000µf
Dimension of aluminium studs	up to 6mm
Dimension of steel studs	up to 8mm
Weight	18Kg

Accessories



Accessories for steel or aluminium dent pulling:

- Pulling lever with hooks
- Slide hammer
- Electrodes for pull tabs, wavy wire, nails
- Pull tabs, nails, studs, nuts, washers, carbon rods, wavy wire
- Pull system, star system
- Diamond file
- Universal fast ground
- Magnetic holder

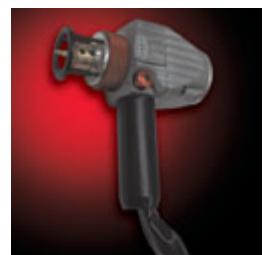
Ask for detailed leaflets.

Air Puller

Pneumatic dent pulling gun for steel panels.

Adjustment of dent depth (max 12mm).

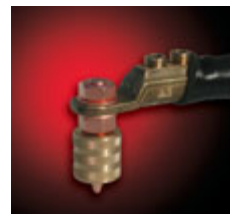
Delivered in its carry case with 5 spare electrodes, crushing electrode and diamond file.



Air Puller



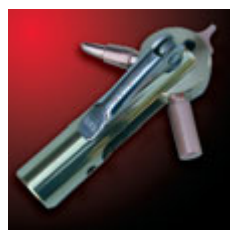
Magnetic Holder



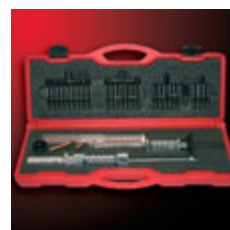
Universal Fast Ground



Starter Kit Alu Shock



Star System



Dent Pulling Case



Pull System



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WELDING TECHNOLOGIES

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