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<td>885</td>
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GROUP 860 GAS TORCHES & BLOW LAMPS

Standard Torch Handles Only

No.1185 With comfortable, flat nylon handle strong enough to withstand rough usage. With standard needle valve. No.1185/01 As No. 1185 except hose inlet is replaced with % BSP-LH male union connection.

No.1245 Designed with robust nylon handle and trigger operated diaphragm valve - pilot flame is quickly obtained by adjusting the cam ring above the trigger; full flame is given by pulling trigger which can be locked in position for continuous burning.

No.1340 Specially designed with an immensely strong steel spring handle to stand up to the tough conditions of contractors’ use. With standard needle valve.

No.1345 Extended Torch Handle Only

Extra long handle with arm rest for extra comfort. Standard needle valve. Takes any of the standard burners and can be used in conjunction with the multiple burner adaptors Nos.1122 and 1123. Overall length 1060mm.

Extension Tubes

For use between handle and burner for extending the reach. Can also be used in conjunction with multiple burner adaptors No.1123.

Multiple Burner Adaptors

Allows two or three burners to be attached to extended torch handle No.1345 or to other torch handles (the latter usually in conjunction with the extension tubes Nos.1112, 1124 and 1140 see above). Length 120mm, burner spacing 125mm.

Gas Supply

For use at high pressure (0.35 - 2 bar). Sizes up to No.1230 burner can be used off either propane and butane; and also off Gaz cylinders (using adaptor No.1070). Nos.1240 to 1270 burners only be used off propane, and for continuous use the minimum size of cylinder is shown in the table.

Flashback Arrestors

These are NOT required for Bullfinch propane torches.

Burners for Standard Torches (Burner Only)

Robust, strong, reliable burners for a wide range of needs. No.1470 Extremely fine flame - for jewellers and dental purposes.

No.1472 Well defined flame.

No.1473 Soft flame for heat shrinking.

No.1210 Small flame for narrow window sashes, central heating installations.

No.1220 Medium flame — for soldering and silver soldering.

No.1230 General purpose flame.

No.1240 More powerful general purpose flame.

No.1248 Standard fishtail burner, excellent flame structure over a wide range of pressure, for paint stripping and applications needing wide Fantail flames.

No.1250 Suitable for metal melting.

No.1260 Powerful flame for general engineering purposes.

No.1270 Extremely powerful, for heavy soldering, forging, roofing, weed burning.

High Pressure Gas Hose

Suitable for replacing damaged hose. 4.8mm bore. 1 metre length. Conforms to BS3212: 1991/2.4.8.

Regulator

Any of the Tinyregs or Bijou regulators. The No.1051 variable Tinyreg for propane is recommended to give best results from these torches.

Hose

4.8mm high pressure hose to BS 3212/2 (No.1299) only must be used, with suitable hose clips.

Contract Prices Available for Volume Purchases
**Bullfinch Autotorch System**

Automatic push-button, piezo-electric ignition plus easy to change burners. To BS EN 731.

**No.2100 Handle Only**
- Strong, glass-filled nylon handle, styled for maximum comfort.
- Incorporates needle valve and piezo-electric ignitor. Takes any of the burners for Autotorch system 2 (but not for Autotorch brazing system).

**Output Pressure**: 37 bar.

**Autotorch Propane Kits**

Torch assembled with hose, regulators and burners for immediate use.

**No.200P Contents**:
- handle No.2100, burner No.2105, Tinyreg No.1041. Any standard propane cylinder.
- 2.75M (9ft) HP hose No.1299, 2 'O' clips No.1324.

**No.230P Contents**:
- handle No.2100, burner No.2105
- Tinyreg variable regulator No.1051
- 2.75M (9ft) HP hose No.1299, 2 'O' clips No.1324.

**Regulators**

**No.4041 Brazing** (not illustrated): Specially designed regulator to BS 3016 giving a 4 bar preset outlet pressure. Robust brass construction.

**No.330 Low Pressure**: Compact low pressure regulator for propane. Conforms to BS 3016. For industrial and domestic use and for use in caravans, boats and camping. Output pressure: 37 bar.

**Autotorch Brazing System**

A portable bronze brazing system using only a single cylinder of propane. Automatic piezo-electric ignition plus interchangeable burners.

**No.4100 Strong Glass-filled Nylon Handle**
- Styled for maximum comfort.
- Incorporates needle valve and piezo-electric ignitor. Takes any of the Autotorch brazing system burners (but not the Autotorch system 2 burners).

**Screwed Hose Connector**

Bullfinch No.1021 screwed hose connector ¾” BSP-LH female union x 4.8mm hose end.

**BSP Two Way Outlet Valve**

The No.1263 two way outlet valve from Bullfinch has a ¾” BSP - LH female union with two 4.8mm hose ends. Needle valves on each outlet. Gives two outlets off a Biouj regulator.

**Autotorch Burners (Buner Only)**

**No.2101**
- Very fine needle flame burner for precision work.

**No.2102**
- Fine flame burner for general use.

**No.2104**
- Medium flame burner for heating, plumbing and engineering where a compact well defined flame is required.

**No.2105**
- General purpose heating and soldering burner with a large well defined flame.

**No.2106**
- More powerful flame for general use.

**No.2121**
- Autotorch soft flame burner. Well spread flame for heat shrinking of plastics for cable jointing and other industrial plastics.

**Gas Supply**

Propane or butane at high pressure (0.35 - 2 bar).

**Cylinders**

Any standard propane or butane cylinder (Gaz cylinders using No.1070 adaptor).

**Flame Types**

- Medium flame burner for industrial plastics.
- Well spread flame for heat shrinking of plastic for cable jointing and other industrial plastics.
- Very fine needle flame for visual inspection and precision work.
- General purpose heating and soldering burner with a large well defined flame.
- More powerful flame for general use.
- Soft flame burner. Well spread flame for heat shrinking of plastics for cable jointing and other industrial plastics.

**Flame Temperature**

The hottest flame temperature zone begins approximately 12mm (½”) from the end of the nozzle and extends for 20 to 50mm, depending upon burner size. Maintain these distances from the work-piece for maximum heating effect.

**Gas Supply & Regulator**

The cylinder must be used with propane only at 4 bar pressure. We recommend the brazing regulator No.1041 which is already fitted to the kit. Cylinders

- Any standard propane cylinder.

**Flashback Arrestors**

These are NOT required for Bullfinch propane torches.

**Notes:**

1. The data are for the torch burning propane at 1 bar. To obtain gas consumption and heat input data at 2 bar, multiply these figures by 1.4.

2. For propane is recommended to give the best results from the torch.

**Hose**

4.8mm high pressure hose to BS 3212/2 (No.1299) only must be used, with rubber hose clips.

**Flashback Arrestors**

These are NOT required for Bullfinch propane torches.

**Contact Prices Available for Volume Purchases**

All Prices Exclude V.A.T. © 2009

Page 1459
**TS1000-E Trigger Start Pencil Flame Power Torch**

Regulated anti-flare design to prevent flaring enabling safe use in all directions. *Gun-Style* Piezo ignition trigger for ease of use. Ergonomic design for increased control and working accuracy. Increased air/fuel combination ensures increased duration of use and greater flame control. This product is designed for and best used with mixed gas (propane/butane mix). Sold as a complete kit, this internally regulated, piezo-electric start torch will satisfy the serious DIY-er or aspiring professional. Patented fuel-vaporisation technology to help prevent flaring. Plastic injection molded base to rest or stabilise the product. TUV/GS type approval and certification to European standard EN 512. Total heat output is 0.79kW/hour.

**Safety & Performance**
The TS1000 torch is complete with patented fuel vaporization technology to prevent flaring. The TS1000 torch is internally regulated to prevent flaring and provide reliable and consistent all-weather performance. Plastic injection molded base to rest or stabilise the product. TUV/GS type approval and certification to European standard EN 512. Total heat output is 0.66 kW/hour.

**Fuel Efficiency**
Better flame definition allows for more targeted heat and better fuel consumption. Using less than .9 gram/minute of fuel, this torch provides more value for money (more joints per pound).

**UL50-E Pencil Flame Brass Torch Kit**

Anti-flare design enabling safe use in all directions. Fracture groove feature ensures torch is “drop-safe” preventing breakage at the neck of the cartridge. Increased air/fuel combination ensures increased duration of use and greater flame control. Ideal for thawing pipes, bending plastics, removing labels, stripping caulk, sweating pipes, and light soft-soldering. Soft-solder capacity with mixed gas is from 3mm - 19mm.

**Safety & Performance**
The TS1100-E torch is complete with patented fuel vaporization technology to prevent flaring. The TS1100-E torch is internally regulated to prevent flaring and provide reliable and consistent use in any outdoor condition. The TS1100-E design and internal regulation allows for a higher flame temperature than any of the competitors (on mixed gas) in the chart above (up to 1844°C in the primary flame). This higher working temperature allows the user to do jobs faster.

**Fuel Efficiency**
Better flame definition allows for more targeted heat and better fuel consumption. Using less than 1 gram/minute of fuel, this torch provides more value for money (more joints per pound).
**ST1100-E Refillable Micro Flame Butane Torch**


**Gas Refills**


**Bullfinch No.3165 Unilow Furnace**

The Bullfinch No.1365 Unilow Furnace is robustly designed with a wide low frame give great stability and safety. It incorporates an advanced design of air intake adjustment to give a wide range of flames from vigorous to soft - and more precise control of the heat. The burner design prevents jets becoming blocked by spillage, stripping, bbq lighters and tile/label removal.

**Bernzomatic PBLAN**

The PBLAN is designed for one time use and is best used for DIY heating applications such as: Thawing pipes, bending plastics, removing labels, stripping caulk, sweating pipes, and light soft-soldering. Soft-solder capacity with pure propane fuel is from 3mm - 15mm. Polycarbonate ABS blend body, handle, and screw on cartridge holder. Precision brass pencil flame tip for targeted use. Precision machined brass valve for control. Fracture groove in air holes to prevent gas leakage if dropped or abused. Patented fuel-vaporization technology to help prevent flaring. TUV/GS type approval and certification to European standard EN 512. Total Heat Output is .74 kW/hour. Measurement is done on test fuel of propane at 3 bar (for pure butane = .25 kW/hour). Burn time on full 190g Propane Cartridge is 3.65 hours and on full 190g Butane Cartridge 10.6 hours.

**Safety & Performance**

The PBLAN torch is complete with patented fuel vaporization technology to prevent flaring. Drop safe fracture groove to prevent gas leakage or explosion at the gas connection (this is particularly important with pierceable cartridges).

**Fuel Efficiency**

Better flame definition allows for more targeted heat and better fuel consumption. This test suggests that the BernzOmatic PBLAN can do 1,267 joints per 190g cartridge while the other five competitors can only complete 760 joints per 190g cartridge. Like most other BernzOmatic torches, the PBLAN provides more solders per pound.

**Rothsberger Super-fire 2 Brazing Torch**

The ROTHENBERGER Super-Fire 2 soldering and brazing torch is the result of many years experience and provides the highest standards in concentrating high temperature for fast and effective soldering and brazing in the plumbing, heating, refrigeration, air conditioning and associated trades:

- Instant automatic ignition
- Guaranteed anti-flare
- Long life piezo ignitor
- Solid die cast torch body
- Fine filtered jet. Professional performance. Works in any position - even upside down.

**Product Description Order Code Offer**

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The new, technically advanced range of GoGas products offer more control and improved performance. GoGas appliances are competitively priced and backed up by a 3 year guarantee. Designed to comply with the British and European standard BS EN521, all GoGas blowlamps and gas torches are safety checked and trial burned. All GoGas gas cartridges comply with the British and European Standard BS EN417.

**Multi Torches & Blowlamps**

A multi purpose gas torch ideal for soldering, hobby or intricate work. Unit is flare safe after 1 minute and is fitted with a moulded neck stand for hands free use. The new, technically advanced range of GoGas products offer more control and improved performance. GoGas appliances are competitively priced and backed up by a 3 year guarantee. Designed to comply with the British and European standard BS EN521, all GoGas blowlamps and gas torches are safety checked and trial burned. All GoGas gas cartridges comply with the British and European Standard BS EN417.

**Group 860 Gas Torches & Blowlamps**

**AT2071 Auto Blowlamp**

General purpose blowlamp for paint stripping and plumbing work. Lightweight and versatile with easy to hold handle for complete control, durable brass control tap and advanced burner system. Warms up quickly and can be used at any angle without flaring. With instant push button ignition. Complete with 2175 cartridge and stabilising base.

**General Purpose Blowlamp**

A general purpose blowlamp that produces a rugged flame ideal for paint stripping or plumbing. Unit is flare safe after 1 minute and is fitted with a moulded neck stand for hands free use.

**GB2070 Blowlamp**

Complete with 2175 cartridge and stabilising base.

**GB2090 Pierceable Cartridge Blowlamp**

A general purpose pierceable cartridge blowlamp. Unit is flare safe after 1 minute and operates directly from a Type 200 pierceable 190g butane/propane mix cartridge.

**Pro Torch Set**

TP2062

A durable high power, high temperature (up to 1500°C) gas torch. Ideal for skilled plumbing, brazing and intricate soldering work. Stable neck stand for hands free use. Instantly flare safe brass burner for use at any angle. Supplied with large power burner attached and a spare fine flame burner for intricate work.

**Auto Ignition Torches**

AP2010 Auto Power Torch

Powerful instantly flare safe gas torch for the professional plumber, with push button auto ignition and advanced gas control system for which gives consistent performance while moulded neck stand allows horizontal burning. Gas cartridges fitted with standard type threaded self-sealing safety valves. Complete with 2350 cartridge and stabilising base.

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**Model Number**
**Type**
**Gas**
**Cartridge**
**Order Code**
**List Price/1**
**Offer Price/1**

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Gas Torches & Blowlamps

**MT2000 Micro Torch**
A multi purpose tool ideal for professional chefs, jewellers, hobbyists and model enthusiasts. With instant push button ignition and easy to clean chrome finish. Ideal for crème brûlée, char grilling, gratinising and caramelising. Easy to hold handle and stabilising base. Complete with 2150 cartridge and stabilising base.

### Burner Nozzles
To supplement the use of GoGas torches and blowlamps, each packed in reusable storage wallets.

### Brazing Rods
For joining and repairing most metals. ‘Retail’ packed in reusable storage wallets.

#### Gas Cartridges
Fitted with standard type threaded self-sealing valves. Conform with BS EN 417.

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#### MT2000 Micro Torch
- **Burner Set AB2409** Sold separately
- **Burner Nozzles**
- **Brazing Rods**

---

**Specialist Blowtorches**

**CB2075 Chef’s Blowtorch**
Easy to clean chrome finish. Ideal for crème brûlée, char grilling, gratinising and caramelising. Easy to hold handle and stabilising base. Complete with 2175 cartridge and stabilising base.

**CA2015 Chef’s Automatic Blowtorch**
As CB2075 but with instant push button ignition. Complete with 2175 cartridge and stabilising base.

**Burner Nozzles**
- **AB2401 DIY Paint Burner**
- **AB2404 Power Torch Paint Burner**
- **AB2405 Power Torch Fine Flame Burner**

**Brazing Rods**
- **AR2422 Copper to Copper**
- **AR2423 Aluminium Repair**
- **AR2424 All Purpose**
Manual Metal Arc Welding

First used at the beginning of the 20th century. A power source which changes mains power to welding power forms a welding circuit, part of this circuit is the electrode. When the power source is switched on and the electrode brought into contact with the work, an electric arc is produced which melts the core wire and flux coating of the electrode. The core wire forms the weld metal and components in the flux form gases in the welding arc, which protect the molten weld metal, from oxygen and nitrogen in the atmosphere. Other flux components scavenge for any other impurities within the molten weld metal producing slag, this further protects the deposited weld while it cools. Both AC and DC can be used, however the trend is to use DC, to give better arc control.

**EFFICIENCY**
MMA requires operator skill, particularly where the weld is being made vertical or overhead. A complete range of electrodes is available, including types that are flux coated in such a way that they will support the hot weld metal in these difficult positions. The major inefficiency of the process is that welding stops approx every 90 seconds, for the electrode to be replaced.

**QUALITY**
Arc welders are extremely robust even in adverse site conditions. Weld quality is easily maintained (assuming the correct electrode is chosen and used by a trained operator). Generally chosen on site for the high quality of the welds, even in adverse conditions and where mobility of the welding process is required. MMA is gradually being replaced even on site by metal cored continuous wire (MIG) welding.

**SAFETY**
**Electrical** Good earthing of the welding power source (if contained in metal case) and the work piece is important.

**Arc Radiation.** This comprises of glare, ultra violet and infrared. Looking at the arc, even briefly, can give a condition called ‘Arc Eye’ due to ultra violet radiation.

**Fume.** Fume extraction should be used particularly in confined spaces.

**Burns.** Either from hot metal and slag or arc radiation e.g. UV gives sunburn.
Duty Cycle

Arc welders are commonly rated on a duty cycle basis. For example a machine might be rated as follows:

- 400A maximum at 35% duty
- 250A at 60% duty
- 230A at 100% duty

In line with European Standard, duty cycle is measured over a repetitive 10-minute period (EN 60974-1).

So, in this example, 400A at 35% duty means the welding output can be maintained at 400A for 3.5 minutes out of each 10-minute period (also see Point 5, right). For the remaining 6.5 minutes the machine must be left to cool/off. Equally 7 welds of 0.5 minutes duration each at 400A, totalling 3.5 minutes over a 10-minute period, is still 35% duty cycle, irrespective of the time between each weld.

Outputs are to be quoted at a number of duty cycles, as the duty cycle increases the permitted output current decreases. 100% duty means continuous.

For most machines, the current output capability at other duty cycles, can be estimated by the following worked examples:

Machine 'A' has a known duty capability of 250A at 35%; what duty is possible at 200A?
Answer = \( \frac{(250)(200)}{2} \times 35\% = 55\% \)

Machine 'B' has a known duty capability of 500A at 20%; what duty is possible at 350A?
Answer = \( \frac{(500)(350)}{2} \times 20\% = 41\% \)

Inverter based designs have other limitations and this type of calculation may not give accurate results. Another, sometimes useful approach, is to work as follows:

Here the current is 400A and the known duty is 40%.

Therefore the 'heating effect' of the current (or R.M.S. value) is:
\[ = \left( \frac{400}{\sqrt{2}} \right) = 282.8 \text{A} \]
\[ = \frac{64,000}{282.8} \approx 226 \text{A} \]

So 400A at 40% duty as shown above has the same "heating effect" in the machine as 226A output continuously (100% duty).

Things to Remember about Duty Cycle:
1. 100% duty means continuous
2. Duty cycle is measured over 10-minute periods (EN 60974-1). Ratings based on 5-minute cycles are generally higher!
3. Most manual welding achieves low actual duty cycles; e.g. MMA = 10% average max
4. Machines, specified as per EN 60974-1, can achieve their ratings at up to 400°C ambient. Normal UK ambient rarely exceed 250°C so there are generally good margins.
5. From cold (20°C) a machine can normally provide full output for a long period of time before its internal temperatures come even close to maximum. It usually takes 2-3 hrs at full output to bring a 500A machine "to temperature". Clearly the smaller the machine the quicker it heats up but, from cold, a machine can normally exceed its quoted duty cycle for some time.
6. There could be problems other than thermal trips if you choose a "light duty" machine to do a "heavy duty" task, even if the current and duty cycle is well within specification.
    Consideration must be given to the mechanical limitations in the system, feed mechanisms, general ruggedness etc. "Light duty" does not apply just to current range and duty cycle capability. "Cost engineered" is just what it means!

Safety Directives

All arc equipment, regardless of origin, now has to satisfy the requirements of the applicable safety directives. Compliance with directives is a legal requirement. For most products compliance is indicated (but not guaranteed) by CE marking.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Low Voltage Directive</td>
<td></td>
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</tr>
<tr>
<td>Electromagnetic Compatibility Directive</td>
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</tbody>
</table>

Designing, manufacturing and testing products to the relevant (European) Standard/Norm is the way compliance is usually achieved - note that this is not entirely true for the MSD. The key standards are as follows:

- LVD: EN60974-1 Safety requirements for industrial power sources etc.
- EN50060 Safety requirements for hobby transformers (<1 60A).
- EN50192 Safety requirements for plasma cutting systems etc.

EN60974-1

WARNING: Yellow thermal overload lamp present on front panel. Relevant safety warnings are present, look at the machine and its instruction manual. Output currents/voltages, agree with the rating rules, refer to rating plate:

MIG Volts = 14 + 0.05 x Amps e.g. a 200A unit gives 24V at 200A
MMA Volts = 20 + 0.04 x Amps e.g. a 300A unit gives 32V at 300A
TIG Volts = 10 + 0.04 x Amps e.g. a 350A unit gives 22V at 300A
(Note most TIG machines are also MMA and rated accordingly)

Welding Procedures & Approvals

Quality control is based on recognised national and international standards. The key standards that are used for welding in the UK are:

- BS EN 288 (eight parts):
  - Part 1. Specification & Approval of Welding Procedures for Metallic Materials. Defines terminology used throughout the standard. Also lays out alternative ways an approved welding procedure can be achieved. See also parts 3 and 4 of the standard.
  - Part 2. Arc Welding Specifications. Gives information that must be provided when drawing up a weld procedure. Also guides how this information should be presented for use by other engineers.
  - Part 3. Arc Weld Test Procedure for Steels. This part defines the conditions for the execution of welding procedure approval tests and the test of validity of an approved welding procedure.
  - Parts 5 - 8. Specifies how welding Procedure Approval can be obtained in ways other than those defined in Parts 3 and 4.

- BS EN 287 Approval Testing for Welders for Fusion Welding of Steel: Since the welding procedure has been approved the welder who conducted the test is automatically approved to BS EN 287. However the work to be carried out may require more than one welder. In these cases the additional welders have to weld up the same piece but this time the laboratory tests carried out are not as extensive. BS EN 287 (eight parts) is used throughout all member nations of the EEC.

- BS 4872 The approval Testing of Welders when Welding Procedure is not required: This standard is used in the UK only. As the above title suggests this standard is used to assess the skill of the welder where a weld procedure approval is not required. As with BS EN 287 BS 4872 has two parts:
  - Part 1. Arc or Gas Welding of Steels.
  - Part 2. TIG or MIG Welding of Aluminium.

General Comments

Whatever standards are being used it is of greatest importance to get an up to date copy and involve a competent person i.e. welding engineer to interpret the standard requirements to the clients needs.

Approved Use:
BS EN 288/287 series is usually applied to welds on pressure vessels above 14 bar (200 lbs/ft²) or where the welding forms a key part of a highly loaded structure i.e. bridge, oil rig, pipeline etc. BS 4872 is usually applied to pressure vessels containing pressure less than 14 bar or where the weld structure is not highly loaded ie: roof structures, staircases, heating and ventilation, agricultural, motor vehicle etc.

Other bodies that prescribe standards for welding are:
- ASME The American Society of Mechanical Engineers.
- CAA The Civil Aviation Authority.
- HVCA The Heating and Ventilation Contractors Assoc.
CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

**LynxTM EAW-140 AC MMA Welder**

A portable 230V single phase arc welder suitable for use with rutile electrodes of 1.6 - 3.2mm diameter. Capable of welding mild steel up to 6mm. Featuring a stepless regulator for infinite variable control of the welding current with low current facility for effective welding of thinner materials. Highly efficient transformer maximises potential. Safety features include thermal overload protection and turbo fan cooling - enables the ability to weld at greater power for longer periods. Provides full portability, ease of use and convenience and superb value. Operates from a 230V 13 amp standard domestic socket. Heavy duty casing, 2 year warranty.

Supplied complete with accessories, integrated carrying handle and 2M mains cable. Conforms to TUV-GS, GOST, EMC, LVD and all relevant CE requirements. Insulation class H. Protection degree IP21.

**Contents:**
- Lynx™ AC power supply.
- 1.8M primary cable, 10mm².
- 1.8M earth cable and 150A clamp.
- Hand held face shield with 51mm x 107mm glass.
- Scratch brush and slag remover.
- Instruction manual.

- Input voltage: 230V, 50/60Hz.
- Fuse rating: 13A.
- Phase: 1.
- Power consumption: 2.5KW.
- Output current range: 40A - 140A.
- Open circuit voltage: 50V.
- Dimensions: (L x W x H) 270 x 250 x 310mm.

---

**CheetahTM EAW-160 AC MMA Welder**

A portable 230V single phase arc welder suitable for use with rutile electrodes of 2 - 4mm diameter. Capable of welding mild steel up to 8mm. Featuring a stepless regulator for infinite variable control of the welding current. Highly efficient transformer maximises potential. Safety features include thermal overload protection and turbo fan cooling - enables the ability to weld at greater power for longer periods. Provides full portability, ease of use and convenience and superb value. Operates from a 230V 13 amp standard domestic socket. Heavy duty casing, two large diameter solid wheels. 2 year warranty.

Supplied complete with accessories, two large diameter solid wheels, integrated carrying handle and 2M mains cable. Conforms to TUV-GS, GOST, EMC, LVD and all relevant CE requirements. Insulation class H. Protection degree IP21.

**Contents:**
- Cheetah™ AC power supply.
- 1.8M primary cable, 16mm².
- 1.8M earth cable and 250A clamp.
- Hand held face shield with 51mm x 107mm glass.
- Scratch brush and slag remover.
- Instruction manual.

- Input voltage: 230V, 50/60Hz.
- Fuse rating: 16A.
- Phase: 1.
- Power consumption: 2.5KW.
- Output current range: 55A - 160A.
- Open circuit voltage: 50V.
- Dimensions: (L x W x H) 585 x 325 x 425mm.
### MMA/Arc Trade Welders

The Weldmate Trade range is designed primarily for the serious DIY enthusiast, offering portability, ease of use and convenience at the right price. All three models feature thermal overload for guaranteed maximum protection. Accessories included: Welding mask, chipping hammer/wire brush, electrode holder and earth clamp with cables. Fully portable: Carry from job to job. Turbo fan cooled: For extended performance.

**25000 Trade Weldmate T140P — Arc**

230V 13 amp for use from standard domestic socket, heavy duty case for added durability and reliability. 140 amp welding power which is capable of welding mild steel up to 5mm. Electrode to power gauge indicates the correct electrode size for the job. 1 year warranty.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Model</th>
<th>Power Range</th>
<th>Weight</th>
<th>Order Code</th>
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**25001 Trade Weldmate T160P — Arc**

230V 16 amp. Heavy duty case for added durability and reliability. 160 amp welding power which is capable of welding mild steel up to 6mm. Electrode to power gauge indicates the correct electrode size for the job. 1 year warranty.

**25002 Trade Weldmate T180P — Arc (230V/400V)**

230V and 400V capability which offers maximum flexibility. Electrode to power gauge indicates the correct electrode size for the job. Turbo fan cooled which enables the ability to weld at greater power for longer. 180 amp welding power which is capable of welding mild steel up to 7mm in a single pass. Infinitely variable output giving superb versatility. Heavy duty case. 1 year warranty.

### MMA/Arc Professional Welders

200 amp welding power - Capable of utilising up to 4mm welding electrode. Heavy duty transformer: Delivers reliable and consistent output. Infinitely variable step-less output - Giving superb versatility. Double shunt system - For fast accurate welding power regulation. Electrode to power gauge - Indicates the correct electrode size for the job. Turbo fan cooled - Enables the ability to weld at greater power for longer. Thermal overload - Maximum protection guaranteed. Heavy duty case and chassis - Added durability and reliability. 2 year warranty - For peace of mind. Accessories included - Welding mask, chipping hammer/wire brush, electrode holder and earth clamp with cables.

**25003 Professional Weldmate P210P — Arc (230V/400V)**

230V and 400V capability. Offers maximum flexibility. Fully portable: Carry from job to job.

**25004 Professional Weldmate P210PDV — Arc (110V/230V)**

110V and 230V capability. Use from either 230V mains supply or ‘on site’ with 110V supply. Maximum power and fully portable: Most powerful unit in our 110/230V range that can be carried from job to job.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Model</th>
<th>Power Range</th>
<th>Weight</th>
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<td>£186.41</td>
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</table>
The Industrial Weldmate Arc range offers the professional user unrivalled capabilities. The Weldmate 1220P-Arc has a unique “Double Vortex Transformer” containing special air flow ducts in both the primary and secondary windings which, combined with the effects of turbo fan cooling, force and channel cooling air to the very heart of the machine. This vastly increases efficiency and duty cycle, giving the longest possible periods of elevated performance in a compact and portable heavy duty case and chassis.

The Weldmate 1220P-Arc also features a Vortex primary coil and copper windings to ensure that the two open circuit voltages are delivered reliably and consistently for the longest possible period of time. Weldmate Industrial Arc Welders have justifiably gained an excellent reputation as unfaltering work horses, perfectly capable of working long and hard in professional environments.

**25006 Industrial Weldmate 1220P — Arc**

230V and 400V capability offers maximum flexibility. Heavy duty transformer delivers reliable and consistent output. Infinitely variable step-less output. Turbo Fan Cooled for extended performance. Double shunt system for better flexibility. Electrode to power gauge indicates the correct electrode size for the job. Heavy duty case and chassis for added durability and reliability. 1 year parts, 3 year main transformer warranty. Double vortex primary coil and copper windings ensures extended duty cycle.

**25005 Professional Weldmate P250W — Arc**

250 amp welding power which is capable of utilising up to a 5mm welding electrode. Heavy duty transformer delivers reliable and consistent output. 230V and 400V capability offers maximum flexibility. Infinitely variable step-less output gives superb versatility. Double shunt system for fast accurate welding power regulation. Electrode to power gauge indicates the correct electrode size for the job. Turbo fan cooled enables welding at greater power for longer. Vortex primary coil and copper windings extended duty cycle. Heavy duty case and chassis for added durability and reliability. 1 year parts, 2 year main transformer warranty.

**25007 Industrial Weldmate 1300W — Arc**

300 amp welding power which is capable of utilising up to a 6mm welding electrode. Fully portable - carry from job to job. Unique double vortex transformer which enables the greatest possible output for the longest possible period. Turbo fan cooled to enable welding at greater power for longer. 1 year parts, 3 year main transformer warranty. Wheel mounted providing excellent mobility.
AC Transformer

ROKCY
Handy and fully portable AC Transformer available in three versions and offers very stable ADC welding characteristics ideal for small workshops, maintenance, agricultural and repair applications. Suitable for both 230V and 400V supply, the ROKCY is capable of depositing mild steel, stainless steel and hardfacing electrodes in the range 1.6mm - 5.0mm depending on model.

- Fully portable
- Suitable for 230V and 400V supply
- Deposits mildsteel, stainless steel and hardfacing electrodes
- Optional Rokcy 'Ready to Weld' Kit, suits all light industrial and fabrication applications.
- Kit Contains electrode holder and earth return assemblies.
- Fully portable.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
<th>Electrode Capacity</th>
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<tbody>
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<td>W000236626</td>
<td>ROKCY 3.2</td>
<td>2 - 3.2mm</td>
</tr>
<tr>
<td>W000236627</td>
<td>ROKCY 4.0</td>
<td>2 - 4.0mm</td>
</tr>
<tr>
<td>W000236628</td>
<td>ROKCY 5.0</td>
<td>2 - 5.0mm</td>
</tr>
<tr>
<td>W000011138</td>
<td>Weld Kit</td>
<td>-</td>
</tr>
</tbody>
</table>

DC Inverter

Miniarc 4.0i
230V single phase DC Inverter for welding steels, stainless steels with rutile, basic and special stick electrodes up to 4.0mm diameter. Output current of 150amps @ 25% duty cycle. The Miniarc 4.0i is a highly portable machine weighing 3.8kg providing an amperage range of 2 - 150A capable of using electrodes in the range 1.6mm - 4.0mm. Operating features include: “arc force” function to provide a stable arc condition, integral “ hot start” for easy striking and “antistick” device to eliminate short circuiting of the electrode. IP23 protection suitable for outdoor use. European Standards: EN 60974.1/EN 60974.10

- 230V single phase DC Inverter.
- Fully portable
- 1.6mm - 4.0mm electrode capacity
- “Hot Start” for easy striking
- Welds steels, stainless steels with rutile, basic and special stick electrodes
- Effective Primary Consumption: 16A • Maximum Primary Consumption: 31A
- No. Load Voltage: 85V • Current Range: 5A - 150A
- Duty Cycle @ 40°C: 100% - 100A, 60% - 120A, 25% - 150A
- Protection Class: IP 23
- Insulation Class: H

<table>
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<tr>
<th>Product Description</th>
<th>Current Range</th>
<th>Weight each</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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<tbody>
<tr>
<td>Miniarc 4.0i</td>
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<td>-6940L</td>
<td>£340.00</td>
<td>£306.00</td>
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MUREX

MUREX DC 180-1
The Murex Tradesarc DC is a reliable, simple and easy to use arc welder that can weld most metals, from alloyed and non-alloyed steel, stainless steel and cast iron. Practical design makes the power source easy to carry which enables use at almost any indoor or outdoor work site. Suitable for scratch TIG welding. Uses electrodes up to 4.0mm. Can be fitted with extended mains cables. Input voltage: 230V. Fuse rating: 16A. Output: welding range 4 - 180A. OCV: 60 - 75V. Rating 25% duty cycle: 180A. Rating 35% duty cycle: 160A. Standards: IEC60974-1. EN 50199. Dimensions (H x W x D): 300 x 180 x 380mm.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Current Range</th>
<th>Weight each</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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<tr>
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<td>-9882C</td>
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<td>£732.38</td>
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</tbody>
</table>

ALL PRICES EXCLUDE V.A.T. © 2009
Introduced into the UK from the USA in the mid-1950s and was the first successful attempt to use a continuous electrode (i.e. Wire reel) in a manual process. The gas shield was initially helium in the USA and argon in the UK, however, by the 1960s CO2 had replaced these gases for the welding of carbon steel due to its low cost and hence the process is often called the CO2 process.

Today a variety of gases are used depending on the work material.

**EFFICIENCY**
The greatest advances in welding have been in the MIG process. Control of welding power has improved considerably from the early power sources to the advanced invertors of today. These advances have allowed for the highest weld quality to be obtained from operatives who have undergone training of one or two weeks compared with one to three months for Oxy/Acetylene and MMA processes.

**QUALITY**
With solid state electronics MIG equipment has become extremely reliable. Introduction of self-shielded cored wire has now made it possible to weld in adverse conditions.

**SAFETY**
Electrical. Mig/Mag equipment uses lower open circuit voltages than MMA (particularly MMA AC). Shock from components is less common.

Glare & UV. Higher when using bare wires at equivalent arc energies compared to MMA particularly when welding aluminium and stainless steel. Extra care should be taken regarding selection of coloured lens for welding helmets and exposure of bare skin to the arc.
**PantherTM EMW-120**

**Dual Mig Welder**

50A-120A (DC) Output range. A high power single phase welder that operates from a standard 240V household outlet. Automatic wire speed control with manual override. Professional torch with trigger-controlled power and gas prevents undesired arcing and gas wastage. Low current performance - Able to deliver a 50A minimum output for welding thin material easily. Variable wire spool size capability - Accepts both 0.7kg and 5kg spools for maximum portability and economy. Heavy duty redesigned case for durability combined with low weight and portability. Can be used for flux (no gas) and Mig/Mag (gas) welding. Supplied complete with a smooth action, twin roller feed unit, accessories, integrated carrying handle and 2M mains cable. Suitable for automotive, farm, maintenance and contractor use. Conforms to TUV-GS, GOST, EMC, LVD and all relevant CE requirements. Insulation class H. Protection degree IP21.

**Welding Capacity:** steel wire: 0.6mm - 0.8mm, stainless steel wire: 0.8mm, aluminium wire: 0.8mm, flux cored welding wire: 0.8mm - 0.9mm, maximum reel size: 5kg.

**Contents:**
- Panther™ EMW-120 power supply.
- 1.8M cable, 10mm².
- Earth clamp, 150A.
- 2M Mig torch, 160A.
- Flux cored wire coil 0.9mm x 0.2kg.
- Hand held face shield with 51mm x 107mm glass.
- Scratch brush and slag remover.
- Instruction manual.

**Connection Kit:** Contains 1 x mini gas regulator, 1/16” ID x 600mm tube, 3/16” ID x 200mm tube, 1/16” x 3/16” hose reducer, 2 x 8-12mm hose clips.

---

**Panther™ EMW-120** | **Order Code** | **List Price** | **Offer Price**
---|---|---|---
50A - 120A | KEN-880 | £281.00 | £210.75

---

**Disposable Gas Bottles**
Shielding gas for use with most Mig wires. Bottles shown are also suitable for use with Migmates and similar welders.

*Connection kit includes regulator, hose and connection fittings.

---

**Leopard™ EMW-150 Dual Mig Welder**

30A-145A (DC) Output range. Automatic wire speed control with manual override. Professional torch with trigger-controlled power and gas prevents undesired arcing and gas wastage. Extra Low current performance - Able to deliver a 30A minimum output for welding very thin material easily. Accepts 0.7kg or 5kg spools for maximum portability and economy. Heavy duty case for durability. Can be used for both flux (no gas) and Mig/Mag (gas) welding. Supplied complete with a smooth action, twin roller feed unit, accessories, 2M mains cable. Suitable for automotive, farm, maintenance and contractor use. Conforms to TUV-GS, GOST, EMC, LVD and all relevant CE requirements. Insulation class H. Protection degree IP21.

**Welding Capacity:** steel wire: 0.6mm - 0.8mm, stainless steel wire: 0.8mm, aluminium wire: 0.8mm - 1.0mm, flux cored welding wire: 0.8mm - 0.9mm, maximum reel size: 5kg.

**Contents:**
- Leopard™ EMW-150 power supply.
- 1.8M cable, 10mm².
- Earth clamp, 150A.
- 2M Mig torch, 160A.
- Flux cored wire coil 0.9mm x 0.2kg.
- Hand held face shield with 51mm x 107mm glass.
- Scratch brush and slag remover.
- Instruction manual.

**Input voltage:** 230V, 50/60Hz. Single Phase

**Power consumption:** 3.7KW max. (1.4KW @60%).

**Fuse rating:** 16A.

**Output current range:** 30A - 145A (DC).

**Open circuit voltage:** 31V.

**Dimensions:** (L x W x H) 680 x 285x 410mm.

---

**Price/1**

30A | 145A | 27.5kg | -1940K | £318.00 | £238.50

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**Gas Bottles are Supplied Separately**

---

**Ready to Weld**
GROUP 880 MIG/MAG WELDERS

Tiger EMW-170 Compact MIG Welder

Heavy-duty transformer and turbo fan cooling allows welding at higher power for longer periods. Automatic wire speed control with manual override for continuous and spot welding. Professional torch with trigger-controlled power and gas prevents undesired arcing and gas wastage. Extra low current performance - able to deliver a 30A minimum output for welding very thin material easily. Accepts 0.7kg, 5kg and 15kg spools for maximum portability and economy. Heavy duty case for durability. MIG/MAG (gas) welding only. Six position, stepped voltage regulator allows process selection to be pre-set. Supplied complete with a smooth action, twin roller feed unit, two large diameter solid wheels and 2M mains cable. Suitable for automotive, farm, maintenance and contractor use. Conforms to TUV-GS, GOST, EMC, LVD and all relevant CE requirements. Insulation class H. Protection degree IP21.

Welding capacity: steel wire: 0.6mm - 0.8mm, stainless steel wire: 0.8mm, aluminium wire: 0.8mm - 1.0mm.
Maximum reel size: 15kg.
Input voltage: 230V, 50/60Hz.
Fuse rating: 16A.
Phase: 1.
Power consumption: 5.2kW (2.3 kW @ 60%).
Output current range: 30A - 170A (DC).
Open circuit voltage: 31V.
Product Dimensions: (L x W x H) 80 x 45 x 57cm.

Box Dimensions: (L x W x H) 84 x 35 x 52cm.

Contents:
- Tiger EMW-170 power supply.
- 1.5M cable, 16mm².
- Earth clamp, 150A.
- 2.4M MIG torch, 160A.
- Mig wire reel 0.8mm x 0.2kg.
- Instruction manual.

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<th>Product Number</th>
<th>Current Range</th>
<th>Weight each</th>
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Lion EMW-220 Compact MIG Welder

Heavy-duty transformer and turbo fan cooling allows welding at higher power for longer periods. Automatic wire speed control with manual override. Professional torch with trigger-controlled power and gas prevents undesired arcing and gas wastage. The torch cable can be detached from the machine. 35A minimum output. Accepts 0.7kg, 5kg and 15kg spools for maximum portability and economy. Heavy duty case for durability. MIG/MAG (gas) welding only. Six position, stepped voltage regulator allows process selection to be pre-set. Supplied complete with a smooth action, twin roller feed unit, two large diameter solid wheels and 2M mains cable. Suitable for automotive, farm, maintenance and contractor use. Conforms to TUV-GS, GOST, EMC, LVD and all relevant CE requirements. Insulation class H. Protection degree IP22.

Welding capacity: steel wire: 0.6mm - 1mm, stainless steel wire: 0.8mm, aluminium wire: 0.8mm - 1.0mm.
Maximum reel size: 15kg.
Input voltage: 230V, 50/60Hz.
Fuse rating: 16A.
Phase: 1.
Power consumption: 3.7KW max. (1.4KW @60%).
Output current range: 30A - 220A (DC).
Open circuit voltage: 17.8 - 34V.
Product Dimensions: (L x W x H) 78 x 45 x 71cm.
Box Dimensions: (L x W x H) 84 x 35 x 57cm.

Contents:
- Lion EMW-220 power supply.
- 1.5M cable, 16mm².
- Earth clamp, 150A.
- 2.5M MIG torch, 160A.
- Mig wire reel 0.8mm x 0.2kg.
- Instruction manual.

<table>
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<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
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<tbody>
<tr>
<td>EMW220</td>
<td>30A - 220A</td>
<td>45kg</td>
<td>KEN-880</td>
<td>£624.00</td>
<td>£468.00</td>
</tr>
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</table>
25031/25033 Trade Weldmate T130P/T150P - Gas/Gasless
Two models: 130A or 150A power - Will weld up to 6mm mild steel. Gas mode allows welding of aluminium, stainless and thinner mild steel more cleanly. Gasless operation utilises flux cored wire making this unit incredibly easy to use and portable. Extra low current setting of 25A for welding very thin materials. Versatile - Welds from 0.7mm to 5mm or 6mm mild steel, aluminium and stainless steel with the appropriate gas and/or wire. Accepts 0.7kg and 5kg spools for maximum portability and economy. Automatic wire speed control with manual override 6 power settings - For added versatility. Professional torch - Trigger controlled power and gas prevents undesired arcing and gas wastage. Accessories included - Welding mask, wire, Chipping hammer/wire brush and earth clamp with cable. Ready to use - Weld gasless mode straight from the box. T130P is 230v 13A - Use from standard household supply. T150P is 230v 20A.

25036 Trade Weldmate T195W - Gas
195 amp power - Will weld up to 8 mm mild steel. Heavy duty transformer - 199 amps @ 20% duty cycle from a 230v, 25 amp supply. Versatile - Welds from auto body thin 0.7mm to a thick 8mm (mild steel) easily and cleanly. Accepts 5kg and 15kg spools. Mig operation - Welds mild steel, aluminium and stainless steel with the appropriate gas and wire. Extra low current setting of 25A for welding very thin materials. Automatic wire speed control with manual override - You select the power setting and the wire speed sets automatically. 6 power settings - For added versatility. Top loading - Wire loads horizontally for smoother action on soft wires such as aluminium. 3 Metre professional torch - Trigger controlled power and gas prevents undesired arcing and gas wastage. Large bottle facility - For maximum economy. Package includes - Regulator, chipping hammer/wire brush, earth cable with clamp, welding mask and professional Binzel compatible torch. Fully mobile - Wheel mounted for convenience. Cable收纳 compartment - Extremely useful when the unit is not in use.

Product Number Model Welding Wire Size Weight Order Code List Offer
25031 T130P 25-130A 0.6-0.8 21.5kg -7031C £299.25 £257.36
25033 T150P 25-150A 0.6-0.8 22.0kg -7033E £326.45 £280.75
25036 T195W 25-195A 0.6-0.8 47.0kg -7036H £540.95 £475.06

Heavy Duty Professional MIG/MAG Welders
25037 Professional Weldmate P170P - Gas/Gasless
170 amp power - Will weld up to 7 mm mild steel. Heavy duty transformer - 121 amps @ 20% duty cycle from a 230v, 25 amp supply. Versatile - Welds from auto body thin 0.7mm to a thick 7mm (mild steel) easily and cleanly. Accepts 5kg and 25kg spools. Mig operation - Welds mild steel, aluminium and stainless steel with the appropriate gas and wire. Extra low current performance - Delivers a unique 25A min power for welding very thin materials. Automatic wire speed control with manual override - You select the power setting and the wire speed sets automatically. 6 power settings - For added versatility. Top loading - Wire loads horizontally for smoother action on soft wires such as aluminium. Reliable wire feed mechanism. 3 Metre professional torch - Trigger controlled power and gas prevents undesired arcing and gas wastage. Large bottle facility - For maximum economy. Package includes - Regulator, chipping hammer/wire brush, earth cable with clamp, welding mask and professional Binzel compatible torch.

25040 Professional Weldmate P215W - Gas/Gasless
215 amp power - Capable of utilising 0.6 to 0.8mm wire. Heavy duty transformer - 152 amps @ 40% duty cycle from a 230v, 42 amp supply. 6 power settings - Stepping power from an ultra low 25 amps to the units maximum of 215 amps. Mig operation - Wound mild steel, aluminium and stainless steel with the appropriate gas and wire. Extra low current performance - Automatic wire speed with manual override. Top loading - Wire loads horizontally for smoother action on soft wires such as aluminium. 3 Metre professional euro connection torch - For minimum torch replacement down time. Accepts 5kg and 15kg spools. Large bottle facility - For maximum economy. Package includes - Gauged Regulator, Chipping hammer/wire brush, earth cable with clamp, welding mask, professional euro-connecting Binzel compatible torch, spare contact tips and gas hose with clips. Fully mobile - Wheel mounted for convenience. SIP ‘Special Care’ warranty - 1 year parts, 2 year main transformer warranty.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Model</th>
<th>Welding Wire</th>
<th>Size</th>
<th>Weight</th>
<th>Order Code</th>
<th>List</th>
<th>Offer</th>
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</thead>
<tbody>
<tr>
<td>25037 P170P</td>
<td>25-170A</td>
<td>0.6-0.8</td>
<td>35.0kg</td>
<td>-7037J</td>
<td>£540.95 £465.22</td>
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<tr>
<td>25040 P215W</td>
<td>25-215A</td>
<td>0.6-0.8</td>
<td>55.0kg</td>
<td>-7040M</td>
<td>£855.79 £735.95</td>
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</table>

All Prices Exclude V.A.T. © 2009
**GROUP 880 MIG/MAG WELDERS**

**Heavy Duty MIG/MAG Welders**

A range of SIP manufactured Weldmate Industrial MIG welders developed specifically for the industrial user. Models include a multitude of variations almost every conceivable environment. Advanced controls provide spot, stitch, seam welding, adjustable burn back delay and multiple power options. Reliability, performance and value are excellent, using premium components throughout. The Weldmate Industrial range is covered by the SIP ‘Special Care’ warranty - 1 year parts and 3 year main transformer warranty repair.

**25043 Industrial Weldmate IC250W 1PH - Gas/Gasless**

250 amp power - Capable of utilising 0.6 to 1.2mm welding wire. Digital electronic controls - For improved ease of use, displays both welding, voltage and current. Accessory options. Industrial duty copper wound transformer - Superb welding smoothness combined with 174 amp @ 60% duty cycle. Dual purpose facility - Capable of welding in both MIG and Gasless modes. Gas mode - Allows welding of aluminium, stainless and thinner mild steel more cleanly. Gasless operation - Utilises Flux cored wire for specific applications, or weld where a shielding gas would be blown away. Extra low current performance - Delivers a unique 25A min power for welding very thin materials. Turbo fan cooled - For increased duty cycle. 14 power settings - For added versatility. Spot weld stitch and seam timer Burn back delay - Always provides the correct length of wire to start welding. Single phase supply - For maximum convenience. Permanent magnet motor wire feed mechanism - Giving superior smoothness, reliability and precision. Heavy duty case and chassis with built-in lifting eyes - Added durability, reliability and practicality. Package includes Welding mask, earth cable with clamp. Large bottle facility - For maximum economy. Thermal overload - Maximum safety guaranteed. SIP ‘Special Care’ Warranty - For maximum convenience.

**25044 IC300W: 196 amp @ 60% duty cycle. 14 power settings - Stepping power precisely throughout the welding range from 25 to 300 amps.**

With **Two Roller Feed.**

**25046 IC350W: 245 amp @ 60% duty cycle. 21 power settings - Stepping power precisely throughout the welding range from 25 to 350 amps.**

With **Four Roller Feed.**

**25047 IC500W: 327 amp @ 60% duty cycle. 21 power settings - Stepping power precisely throughout the welding range from 25 to 500 amps.**

With **Four Roller Feed and Umbilical Cord.**

**Product/Model Welding Wire Weight Order Code List Offer Number each SIP-880 Price/1 Price/1**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Current</th>
<th>Wire Size</th>
<th>Weight</th>
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<th>List Price</th>
<th>Offer Price</th>
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<tbody>
<tr>
<td>25043 IC250W</td>
<td>25-250A</td>
<td>0.6-1.2mm</td>
<td>92kg</td>
<td>-7043Q</td>
<td>£1139.75</td>
<td>£980.18</td>
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<tr>
<td>25045 IC300W</td>
<td>25-300A</td>
<td>0.6-1.2mm</td>
<td>101kg</td>
<td>-7045S</td>
<td>£1365.75</td>
<td>£1174.55</td>
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<tr>
<td>25046 IC350W</td>
<td>25-350A</td>
<td>0.6-1.2mm</td>
<td>114kg</td>
<td>-7046T</td>
<td>£1594.75</td>
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<td>25047 IC500W</td>
<td>25-500A</td>
<td>0.6-1.6mm</td>
<td>132kg</td>
<td>-7047V</td>
<td>£1708.45</td>
<td>£1469.27</td>
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<tr>
<td>25051 IS500W</td>
<td>25-500A</td>
<td>0.6-1.6mm</td>
<td>124kg</td>
<td>-7051X</td>
<td>£1482.75</td>
<td>£1275.16</td>
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**2 - 3 Days**

**Product/Item Weight Order Code List Offer Number each SIP-880 Price/1 Price/1**

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<thead>
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<th>Product Number</th>
<th>Weight</th>
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<tbody>
<tr>
<td>25056 4-Roll Feed Unit</td>
<td>24.5kg</td>
<td>-7056X</td>
<td>£798.45</td>
<td>£686.67</td>
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<td>25101 Umbilical</td>
<td>9.5kg</td>
<td>-7101A</td>
<td>£209.75</td>
<td>£180.38</td>
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</table>
### Professional Compact Mig Welder

**BluMig 283C (Replaces Compact CC283M)**
- Heavy duty three phase compact MIG/MAG machine, with four roll industrial feed system with auto adjusting wire speed.
- Features include electronic auto adjust for ease of set up, 2/4 torch large, robust casing, burn back and slope up control, IP22 class protection. 415 volt three phase input, 16 amps.
- Welding current range: 35 - 280 amps.
- 10 welding steps.
- Wire sizes: 0.6 - 1.2mm.
- 3 year warranty.
- Dimensions: 500 x 870 x 950mm.

**BluMig 303S-TF300 (Replaces CBM300)**
- Separate wire feed with heavy duty four roll feed system and four metres of inter-connection cable, with auto adjusting wire speed, slope up and burnback control, 10A fuse rating.
- Power input: 8.2kW
- Duty Cycle: 240A @ 40% Welding current range: 40 - 240 amps.
- Weight: 52.0kg.
- Dimensions: 500 x 870 x 950mm.

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- Heavy duty three phase compact MIG/MAG machine, with four roll industrial feed system with auto adjusting wire speed.
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- Duty Cycle: 240A @ 40% Welding current range: 40 - 240 amps.
- Weight: 52.0kg.
- Dimensions: 500 x 870 x 950mm.

### Product Welding Fuse Open Circuit Order Code List

<table>
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<th>Offer Number</th>
<th>Current Range</th>
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<tr>
<td>MUR-881</td>
<td>40 - 330A</td>
<td>3x 16A slow 16 - 40V</td>
<td>£2868.00</td>
<td>£2581.20</td>
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<tr>
<td>-6283R</td>
<td>50 - 400A</td>
<td>3x 32A slow 17 - 45V</td>
<td>£3336.00</td>
<td>£3002.40</td>
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</table>

### Professional Compact Mig Welder

**CC241M**
- Professional compact Mig welder with heavy duty four roll feed system with auto adjusting wire speed, slope up and burnback control, welding timer, fan cooling and thermal protection. IP22 Class protection. 240V single phase input.
- 20A fuse rating.
- Power input: 8.2kW
- Duty Cycle: 240A @ 35% Welding current range: 40 - 240 amps.
- Weight: 52.0kg.
- Dimensions: 500 x 870 x 950mm.

### Product Voltage Phase Wire Order Code List

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<th>Offer Number</th>
<th>Voltage</th>
<th>Phase</th>
<th>Capacity</th>
<th>Order Code</th>
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<th>Price/1</th>
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<tr>
<td>OER-880</td>
<td>230V</td>
<td>Single</td>
<td>0.8 - 1.0mm</td>
<td>-6964E</td>
<td>£1129.00</td>
<td>£1016.10</td>
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<td>-6963R</td>
<td>400V</td>
<td>Three</td>
<td>0.6 - 1.2mm</td>
<td>-6963R</td>
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### Product Current Weight Order Code List

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<th>Offer Number</th>
<th>Range each</th>
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<th>Price/1</th>
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<tr>
<td>CEM-880</td>
<td>BluMig 283C 35A - 280A</td>
<td>-2300E</td>
<td>£1678.85</td>
<td>£1393.45</td>
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<tr>
<td>-6283R</td>
<td>BluMig 303S-TF300 35A - 300A</td>
<td>-5380W</td>
<td>£1289.00</td>
<td>£1069.87</td>
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<tr>
<td>CEM-880</td>
<td>CC241M 40A - 240A</td>
<td>-2280C</td>
<td>£1361.23</td>
<td>£1129.82</td>
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</tbody>
</table>

### Professional Compact Mig Welder

**BluMig 303S-TF300 (Replaces CBM300)**
- Separate wire feed with heavy duty four roll feed system and four metres of inter-connection cable, with auto adjusting wire speed, slope up and burnback control, welding timer, fan cooling and thermal protection. IP22 class protection.
- Dimensions: 500 x 1180 x 950mm.
- Welding current: 35 - 300A. with 10 welding steps.
- Wire size: mild steel: 0.6 - 1.2mm, stainless: 0.8 - 1.0mm, aluminium: 0.8 - 1.2mm. Input: 415V 3 phase.
- 3 year warranty.

### Professional Compact Mig Welder

**BluMig 283C (Replaces Compact CC283M)**
- Heavy duty three phase compact MIG/MAG machine, with four roll industrial feed system with auto adjusting wire speed.
- Features include electronic auto adjust for ease of set up, 2/4 torch large, robust casing, burn back and slope up control, IP22 class protection. 415 volt three phase input, 16 amps.
- Welding current range: 35 - 280 amps.
- 10 welding steps.
- Wire sizes: 0.6 - 1.2mm.
- 3 year warranty.
- Dimensions: 500 x 870 x 950mm.

### Professional Compact Mig Welder

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- Separate wire feed with heavy duty four roll feed system and four metres of inter-connection cable, with auto adjusting wire speed, slope up and burnback control, welding timer, fan cooling and thermal protection. IP22 class protection.
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- Welding current: 35 - 300A. with 10 welding steps.
- Wire size: mild steel: 0.6 - 1.2mm, stainless: 0.8 - 1.0mm, aluminium: 0.8 - 1.2mm. Input: 415V 3 phase.
- 3 year warranty.
TIG & Plasma Welding

**TIG Welding**

Dates back to the mid-1930s and gives the highest precision of all common weld processes. The process consists of a tungsten electrode connected to the negative pole of a DC supply (when welding aluminium, AC is used.) Argon is the most common gas used to shield the electrode and the weld pool although hydrogen and helium are also used. A filler wire can be introduced to fill up a butt or fillet weld, joints produced by filler wire additions are termed heterogeneous welds, while joints without the addition of filler wire are termed autogeneous.

**Plasma Welding**

The plasma-arc process had its origin almost 50 years ago, during the height of World War II. In an effort to improve the joining of aircraft materials, a method of welding was developed that used a protective barrier of inert gas around an electric arc to protect the weld from oxidation. Over the course of the next couple of decades, it was discovered that by restricting the opening through which the inert gas passed, the heat produced by the process was greatly increased. At the same time, the smaller opening caused the flow of gas to speed up dramatically, ultimately blasting out a channel in the work. The plasma-arc cutting process started seeing commercial use in the first few years of the sixties. It was an extremely expensive process to undertake, and most cutting was performed by large burning services that used their systems continuously to help amortize the equipment.

**HOW IT WORKS**

Plasma cutters work by sending an electric arc through a gas that is passing through a constricted opening. The gas can be shop air, nitrogen, argon, oxygen, etc. This elevates the temperature of the gas to the point that it enters a 4th state of matter. We all are familiar with the first three: i.e., solid, liquid, and gas. Scientists call this additional state plasma. As the metal being cut is part of the circuit, the electrical conductivity of the plasma causes the arc to transfer to the work. The restricted opening (nozzle) the gas passes through causes it to squeeze by at a high speed, like air passing through a venturi in a carburetor. This high speed gas cuts through the molten metal. The gas is also directed around the perimeter of the cutting area to shield the cut.

**EFFICIENCY**

Square Wave AC Welding Output Has the advantages of controlling tungsten electrode erosion, allowing smaller electrodes to be used at higher currents, reduces weld pool size and increasing weld pool control. Wave Balance Control allows the percentage of time that the work remains negative to be reduced, this improves the cleaning of the weld; Increasing the balance to a longer time for the electrode to remain negative improves penetration.

**QUALITY**

Maximum quality is achieved with strict cleanliness. No flux is used in TIG and there is no need for slag removal. ‘Upward’ electron streams remove surface oxide of alum in the time the work piece is the negative side of the AC welding arc. For the highest quality the clean weld area should not be touched by bare hands as deposits from handling can cause porosity.

**SAFETY**

To prevent tungsten contamination, high frequency is used to initiate the arc. This is particularly dangerous if the operator has a heart pacemaker. Large amounts of ultra violet light are generated which can result in arc eye if the arc is looked at without appropriate eye protection. Ozone gas is produced in the arc vicinity and this may require fume extraction particularly in confined spaces.

**WHICH TO CHOOSE**

Generally speaking, the higher the amperage output of the plasma cutter, the greater the duty cycle is at lesser amperages. In other words, if you plan to use the machine around the clock, you should consider a larger unit than you would need to cut the material you will be working. If you will be using your machine frequently, but not continuously, consider a unit that is capable of cutting the thickest material you are likely to work. Most manufacturers provide duty cycle information in their literature. Many people make the mistake of thinking that the greater the capacity of the machine, the better it is. In general, fabricators consider oxy-fuel to be superior to plasma for cutting steel when thicknesses exceed about 1/2 inch. This is because of the slight bevel (4 to 6 degrees) in the cut face that plasma produces. It is not noticeable in thinner materials, but becomes more so as thicknesses increase. Also, at thicknesses above 1/2 inch, plasma has no cutting speed advantage over oxy-fuel. There is little point in buying a plasma cutter that will cut 1 1/2" plate, if you are going to use acetylene for such work anyway. If you are planning to cut non-ferrous metals such as stainless or aluminum, which cannot be cut by oxy-fuel, consider a 50 to 80 amp. 220 volt plasma cutter.
Jaguar Dual Voltage Inverter MMA Welder

Inverter-based welding power sources, recommended as entry-level packages for either stick or TIG welding. They feature arc force, hot start and anti-stick features as well as thermostatic, over-voltage, undervoltage and over-current protections. These lightweight, portable units offer excellent performance from a standard 16A supply. The welders are supplied in a durable carry-case complete with cables, earth clamp, electrode clamp and a wire brush.

Ideal for use with rutile, basic, stainless steel or cast iron. MMA electrode welding using 1.6-3.2mm rods including TIG-DC scratch. Hot start for easy starting. Arc force for quality welds. Anti-stick reducing electrode sticking. Fan cooled. Auto-sensing dual voltage 115/230V. 16 amp fuse.

Dimensions: (H x W x D) 380 x 425 x 180mm.
Weight: 7.9kg.

<table>
<thead>
<tr>
<th>Description</th>
<th>Current</th>
<th>Voltage</th>
<th>Weight</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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<tbody>
<tr>
<td>Jaguar MMA</td>
<td>130A</td>
<td>110/240</td>
<td>7.9kg</td>
<td>-3100K</td>
<td>£467.00</td>
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</table>

Bobcat Inverter MMA Welder

Ideal for use with rutile, basic, stainless steel or cast iron. MMA electrode welding using 1.6-3.2mm rods including TIG-DC scratch. Hot start for easy starting. Arc force for quality welds. Anti-stick reducing electrode sticking. Fan cooled. 230V single phase mains supply. 16 amp fuse.

Dimensions: (H x W x D) 310 x 120 x 225mm.
Weight: 6.6kg.

<table>
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<th>Description</th>
<th>Current</th>
<th>Voltage</th>
<th>Weight</th>
<th>Order Code</th>
<th>List Price/1</th>
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<tbody>
<tr>
<td>Bobcat MMA</td>
<td>125A</td>
<td>240</td>
<td>6.6kg</td>
<td>-3000K</td>
<td>£262.00</td>
<td>£196.50</td>
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Cougar Inverter MMA Welder

Ideal for use with rutile, basic, stainless steel or cast iron. MMA electrode welding using 1.6-4.2mm rods including TIG-DC scratch. Hot start for easy starting. Arc force for quality welds. Anti-stick reducing electrode sticking. Fan cooled. 230V single phase mains supply. 16 amp fuse.

Dimensions: (H x W x D) 346 x 150 x 235mm.
Weight: 7.9kg.

<table>
<thead>
<tr>
<th>Description</th>
<th>Current</th>
<th>Voltage</th>
<th>Weight</th>
<th>Order Code</th>
<th>List Price/1</th>
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<tbody>
<tr>
<td>Cougar MMA</td>
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<td>240</td>
<td>7.9kg</td>
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<td>£399.00</td>
<td>£299.25</td>
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</tbody>
</table>
CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

GROUP 880 TIG WELDERS

Inverter MMA Welder

Mini Max
Weighting in at less than 5kg, this has to be one of the lightest welders on the market. Its light weight does not mean it is less capable, it is in fact extremely portable and more versatile. It can be used with all types of electrodes, rutile, basic, stainless etc. The machine also benefits from the following technical features: Hot Start, Arc Force. Anti Sticking. Thermal Cut-out.

Specifications:
- Duty cycle @ 100%: 50A
- Duty cycle @ 60%: 65A
- Duty cycle @ 40%: 70A
- Voltage: Open Circuit (no welding being carried out) 70V
- Voltage supply: 230V
- Dimensions: (W x D x H) 100 x 215 x 150mm.

Trade T110
Incredible ARC welding power from a remarkably lightweight power source. Generator friendly. All leads for ARC welding included. Welding mask & chipping hammer/wire brush supplied. Output 80amps @ 35% duty cycle. Supplied in moulded carry case.

Trade T170
Incredible ARC welding power from a remarkably lightweight power source. Generator friendly. All leads for ARC welding included. Welding mask & chipping hammer/wire brush supplied. Output 150amps @ 60% duty cycle. Supplied in moulded carry case.

MMA/TIG Inverter
Trade T200
Incredible ARC and TIG welding power from a lightweight power source. Inverter technology. TIG function selected by a front panel switch. Generator friendly. All leads for ARC welding included. Welding mask and chipping hammer/wire brush supplied. Output 150amps @ 60% duty cycle. Supplied in moulded carry case.

Puma S1400 Portable Professional MMA/Tig Inverter Power Source

(Replaces S1401)
Heavy duty single phase inverter MMA/Tig TIG machine, for general purpose use. Features include robust front and rear profiles in tough ABS plastic to protect from accidental damage, hot start and anti-stick device. This machine is ideal for maintenance and on site fabrication. Welding current range: 5 - 130amps.

Specifications:
- Duty cycle @ 50%: 125amps
- Weldable electrodes: 1.6 - 3.25mm. 240V single phase. 2 year warranty.

Dimensions: (L x W x H) 145 x 235 x 340mm. Weight: 7.7kg.

For DIY Use
Not warranted for Industrial Use

<table>
<thead>
<tr>
<th>Description</th>
<th>Current Range</th>
<th>Weight</th>
<th>Order Code</th>
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<tr>
<td>MiniMax</td>
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<td>SIP-279</td>
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Trade T110

-3880D £177.52 £152.67

Trade T170

-3882F £298.50 £256.71

SMARTY TX 160 TIG Portable Source Inverter

The Cemont SMARTY TX 160 is a portable power sources for TIG DC professional welders. This equipment provides a huge versatility of applications specially due to their “pulsed” function for thin thicknesses welding and also to their “2 current levels” for welding in different applications. The Cemont SMARTY TX 160 features include: robust front and rear profiles in tough ABS plastic to protect from accidental damage, hot start and anti-stick device. Ideal for maintenance, production and on site fabrication. Welding current range: 5 - 150amps.

Specifications:
- Input voltage: 230V ± 15%/–15%.
- Tolerance in the network variations: ±3880 ± 15%/–15%.
- Duty cycle: 60% at 40°C.
- Digital display: A/V/Sec.%.
- Versatility: TIG DC/pulsed TIG DC/MMA.
- Remote control: remote adjustment flexibility.

For DIY Use
Not warranted for Industrial Use

<table>
<thead>
<tr>
<th>Description</th>
<th>Current Range</th>
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Trade T150DC

-8260Z £992.77 £824.00

TIG Torches

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**Tig Welder**

Transtig AC/DC201S

Single Phase Industrial AC/DC TIG Welder. Packed with all features necessary for quality AC or DC TIG and MMA welding. High efficiency and power factor combine with low idle losses to minimise power consumption. Full remote control facilities for foot control etc.

Package consists of Transtig power source, TIG torch, work return lead, regulator and flow meter.

**Mains supply:** 220 - 240V, **Phase/Hz:** 1 - 50/60Hz.

**Fusing (slow):** 16A, **kVA:** 5.6 (4.5kW), **PF:** 0.9.

**Current output range:** 4 - 200A.

**TIG rating:**
- **40% duty cycle:** 200A,
- **35% duty cycle:** 190A,
- **60% duty cycle:** 160A,
- **100% duty cycle:** 135A.

**Dimensions (H x W x D):** 510 x 240 x 500mm.

---

**Inverter Welder**

GYSMI 165

The GYSMI 165 is a revolutionary product with unmatched welding characteristics not only for basic electrodes but also for the rutiles, stainless steel and cast iron electrodes. Inverter technology welding unit with microprocessor control. Tactile keyboard and digital display.

MMA: the product arc dynamic is revolutionary and unique on the market. Basic electrodes no longer cause trouble. This product does not only integrate Arc Force and Anti Sticking functionality but it is also the only single phase welding unit on the market to offer an adjustable Hot Start for all types of electrodes.

**TIG — LIFT ARC:** With its microcontroller, the starting in TIG mode is very easy. The product is protected to function on generators and against supply voltage variations (+/- 15%).

Endowed with an index of protection IP23, the product is particularly suited for outdoor works. Given its very high duty cycle on high intensity, it is recommended to plug it on a 16A plug with delayed fuse, or to adapt it to a more powerful plug. The product is complete with accessories: earth cables and electrode holder.

**MMA electrodes:** 1.6 - 4.0mm.

**Single phase 230V (DC).**

**Fuse rating:** 16A.

**Output Current range:** 10A - 160A.

---

**Tig Pulse Welder/Shock Resistant Tig Pulse Welder**

Gysmi Tig 167 HF DC is the ideal unit for maintenance, pipes, boilermakers works to weld steel, stainless steel and copper.

**Input voltage:** 230V (DC) 50/60Hz.

**Fuse rating:** 16A.

**Output current range:** 10 - 160A.

**MMA electrodes:** 1.6 - 160A.

---

<table>
<thead>
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<th>Description</th>
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Cитотиг 200
Operates from a 230V single phase supply capable of welding steels, stainless steel and aluminium. Offers 200A at 30% duty cycle and can also be used with manual metal arc welding electrodes up to 4.0mm diameter.
European Standards: EN 60974-01/EN 50199.

- 230V single phase
- 200A at 30% duty cycle
- 1.6 - 4.0mm electrode capacity
- Pulsed welding option
- Arc welding facility
- Hot and soft start
- Digital readout
- Weight 30kg
- Protection Class: IP23
- Insulation Class: H

Units supplied complete with primary cable, earth cable and clamp, gas hose and M12 fitting, digital meter and 5 pin trigger plug for torch connection.

Cитотиг 200DC
Operates from 230V single phase supply offering an output of 215A @30% duty cycle suitable for both TIG and manual metal arc welding up to 4mm diameter. For welding steel, stainless steel and nickel based alloys.
Provides the operator with a range of easy to use operating controls including spot and pulsed welding, HF or “contact” arc strike, pre and post gas. Readily portable weighing just 20kg.
European Standards: EN 60974-01/EN 50199.

- 230V single phase
- 200A at 30% duty cycle
- 1.6 - 4.0mm electrode capacity
- Pulsed welding option
- Arc welding facility
- Hot and soft start
- Digital readout
- Weight 20kg
- Protection Class: IP23
- Insulation Class: H

Unit is supplied complete with primary cable, earth cable and clamp hose and M12 fitting, digital meter and 5 pin trigger plug for torch connection.
SHARP 6K Plasma Cutter

The Cemont SHARP 6K is a plasma cutting installation based on inverter technology and ensuring an excellent regulation of the welding current, which increases the cutting quality. The SHARP 6K includes an integrated compressor so that there is no need to have a compressed air source available separately. It is easy to cut without an earth clamp up to 2mm thickness, especially useful when cutting painted sheets. The digital display allows for a finer adjustment and an optimal reading of the cutting parameters whilst in use.

Input voltage: 230V single-phase — on domestic socket-outlet 16A.

Supplied complete with:
- Electric cable with 16A plug.
- Complete torch with wear parts.
- Safety instruction for use and maintenance manual.

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SHARP 22 Plasma Cutter

The Cemont SHARP 22 is a powerful plasma cutting installation based on inverter technology to ensure excellent regulation of the cutting current, this increases the cutting quality and makes it easy to handle. This high performance plasma cutter is suitable for cutting out metal grids with automatic restarting, drag cutting that increases the cutting quality and reduces fume emissions and gouging to make drains.

Cutting capacity (on steel)
- Clean: 20mm
- Max: 24mm

Input voltage three-phase: 400V - 50/60Hz

Primary power consumption: 20.1A (400V)/13kVA

Effective consumption: 14.5A

Welding current: 10-65A

Duty cycle:
- 65A at 40% at 40°C
- 50A at 100% at 40°C
- 65A at 100% at 25°C

Protection class: IP23

Dimensions: 440 x 185 x 310mm

Weight: 12kg

Supplied complete with:

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SHARP 10 Plasma Cutter

The SHARP 10 is a plasma cutter using inverter technology that satisfies both workshop and on site applications. The fine adjustment of cutting parameters across the full range make this a very versatile machine that can cut and pierce all conducting metals. Easy to operate as only 1 switch controls the adjustment of the 4 power levels. Powerful high duty cycle 120A at 50% at 40°C.

Cutting capacity (on carbon steel)
- Piercing: 8mm
- Clean: 35mm
- Max: 40mm

Input voltage three-phase 50/60Hz: 220V 230V 380V 400V

Primary power consumption: 74A 71A 42A 40A

Effective consumption: 52A 50A 30A 28A

Power: 16kVA

Pressured air consumption: 220 l/min - 5.5 bars

Welding current:
- 30-120A

Duty cycle at 40°C:
- 50% 120A
- 75% 85A
- 100% 50A

Protection class: IP23

Dimensions: 415 x 170 x 310mm

Weight: 8kg

Supplied complete with:

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<td>Sharp 10</td>
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SHARP 40M Plasma Cutter

The Cemont SHARP 40M plasma cutter is a power source aimed to satisfy both workshop and on site applications. The fine adjustment of cutting parameters across the full range make this a very versatile machine that can cut and pierce all conducting metals. Easy to operate as only 1 switch controls the adjustment of the 4 power levels. Powerful high duty cycle 120A at 50% at 40°C.

Cutting capacity (on carbon steel)
- Piercing: 8mm
- Clean: 20mm
- Max: 35mm

Input voltage three-phase 50/60Hz: 220V 230V 380V 400V

Primary power consumption: 74A 71A 42A 40A

Effective consumption: 52A 50A 30A 28A

Power: 16kVA

Pressured air consumption: 220 l/min - 5.5 bars

Welding current:
- 30-120A

Duty cycle at 40°C:
- 50% 120A
- 75% 85A
- 100% 50A

Protection class: IP23

Dimensions: 415 x 170 x 310mm

Weight: 8kg

Supplied complete with:

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PLASMA CUTTERS

GROUP 880

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

All Prices Exclude V.A.T. © 2009
Gas Welding & Cutting Systems

This process dates back to the end of the 19th century and apart from the blacksmith’s forge is the oldest of the hand welding processes. Oxygen is mixed with acetylene and ignited, the heat given out by the resultant flame is enough to melt steel. Much of the equipment can be used for other hot work processes such as brazing, cutting, gouging, heating, flame cleaning etc.

The types of flame, which can be achieved with the process, are:
- Neutral: Used for majority of welding processes.
- Carburising: Used for hard facing.
- Oxidising: Used for welding of brasses.
- When welding materials other than steel, an appropriate flux must be used.

Efficiency

While the Oxy/Acetylene welding process can give quality welds, the skill required by the operator is the highest of the four fusion processes. The process being self contained allows it to be used where electricity supplies are unavailable e.g. construction sites, however, the welding speed is low and the distortion of the sheet of plate material high.

Quality

The equipment is very robust and can be used in adverse site conditions, with a minimum of maintenance. It is uncommon for welds of the highest mechanical strength to be considered using this process.

Safety

Oxy/Acetylene welding systems are very safe, however, potential hazards do exist as follows:
- Oxygen Leaks. Particularly in confined spaces cause flash fires.
- Acetylene Leaks. Can cause explosions.
- Back Feeding. That is the oxygen finding its way into the acetylene hose or vice versa causing explosions.
- Flashbacks. Where the flame goes beyond the welding blow pipe and into the welding hoses.
- Burns. Burns from the flame or from hot metal.

A TYPICAL OXY-FUEL GAS WELDING AND CUTTING SYSTEM

- Cylinder contents guage
- Outlet pressure guage
- Pressure adjusting knob
- Flashback arrestor
- Swaged Welding Nozzle
- Welding Nozzle
- Oxygen control valve
- Fuel gas control valve
- Hose check valves
- Acetylene (cylinder painted maroon)
- Oxygen (cylinder painted black)
- Cutting nozzle
- Cutting Oxygen Lever
- Fuel gas control valve
- Water feed
- Water feed valve
- Water feed control valve
- Oxygen control valve
- Hose check valves
- Cutting attachment
- Cutting nozzle
- Outlet pressure guage
- Cylinder contents guage

See 891 FOR TIG RODS
See 516 FOR FLUX
See 960 FOR WELDING GOGGLES
See 961 FOR GAUNTLETS
See 205 FOR SURFACE PREPARATION
Supapack Complete Workshop on Wheels

Light in weight and safe and easy to use. Easily transported in a car boot or a van for use in any location. Suitable for light industrial engineering, plumbing, and DIY use. Offers full weld capability up to 5mm, steel cutting up to 20mm.

Set contents comprise of:
- Compact trolley with fully retractable handle for storage and large diameter wheels.
- 3m oxygen and acetylene hose set with hose check valves.
- Light duty welding shank.
- Light duty welding mixer.
- Light duty cutting attachment.
- 300 bar single stage oxygen and acetylene regulators.
- Oxygen and acetylene flashback arrestors.
- AFN 3/64” cutting nozzle.
- Multi-flame heating nozzle.
- ASFN sheet metal cutting nozzle.
- Lightweight welding nozzles - sizes 2, 5 and 10.
- Goggles.
- Spark lighter and nozzle cleaners.
- Spanner and cylinder key.
- Operating instructions.

PLEASE NOTE: Gas Cylinders Are Not Included In This Kit

Masterpak Oxy-Acetylene Welding & Cutting Kits

Murex Masterpak cutting and welding kits - one for oxy-propane cutting, one for oxy-acetylene cutting and one combined oxy-acetylene welding/cutting pack. The kits are ideal for construction workers and civil engineers looking for a complete outfit for all maintenance, repair and demolition work. For complete oxy-acetylene welding and cutting capability. If welding capability is not required, users may specify either the oxy-propane cutting kit or the oxy-acetylene version. Again, both these Masterpak kits include the renowned Saffire NM 250 Cutter, regulators and flashback arrestors with their inherent levels of safety and performance.

1300004 Kit Contents: NM cutting torch, oxygen and propane plugged regulators, XL5 flashback arrestors, premium hose 10 metres x 10mm factory fitted with HCV, PNM 1/8 and 5/32 cutting nozzles, combination spanner and spark lighter.

1300005 Kit Contents: NM cutting torch, oxygen and acetylene plugged regulators, XL5 flashback arrestors, premium hose 10 metres x 10mm factory fitted with HCV, ANM 1/8 and 5/32 cutting nozzles, combination spanner and spark lighter.

1300006 Kit Contents: Saffire 5 shank, mixer and cutting attachment, oxygen and acetylene 2 gauge Saffire series 1ec regulators, XL5 flashback arrestors, premium 10 metres x 6.3mm factory fitted with HCV, swaged nozzles 2.5, 10 ANM 1/16 cutting nozzle, combination spanner and spark lighter.

MasterGage™ Weld Gauges

MasterGage™ permits quick and accurate measuring of the most popular weld fillet sizes in inch and metric. Excellent for checking alignment and inspection of various angles of welds. High quality stainless steel (SUS 304) blades to resist rust and for longer life. Blades are deburred for fine and smooth edges. All sizes and numerals are laser etched into the surface for clarity and easier reading. Comes in a handy vinyl pocket case with snap lock.

MG-8 Cam Type Gauge

Depth of undercut, excess weld metal (capping size), fillet leg length, fillet weld throat size, angle of preparation (0° to 60°), misalignment high-low.

MG-11 Weld Fillet Gauge

Permits quick and accurate measuring of the most popular weld fillet sizes in inch: 1/16 - 1" and metric: 3.2 - 25.4mm. All sizes and numerals are laser etched into the surface for clarity and easier reading. MasterGage™ welding gauges are intended for general dimensional inspection of welded fabrications where close tolerances are not expected.
GROUP 885 GAS WELDING & CUTTING SYSTEMS

**DH Acetylene Welding Mixer**
For use with lightweight shank, right, and welding nozzles, below.

**Swiped Welding Nozzles**
For use with lightweight shank, right, and welding nozzles, below.

**ASFN Cutting Nozzle**
For cutting sheet metal.

**AFN Cutting Nozzles**
For use with DH lightweight cutting attachments.

**Swaged Welding Nozzles**
For use with lightweight shank and welding mixer, above. Plate thickness refers to mild steel.

**Cutting Attachment**
For use with lightweight shank, above, and AFN nozzles (left).

**Welding, Cutting & Heating Set**
Welding capacity up to 8mm. Cutting capacity up to 75mm.

**Type**
- Style S shank.
- Style S acetylene welding mixer.
- 6 Swaged nozzles (sizes 2, 5, 7, 10, 13 & 25).
- Style S cutting attachment.
- 2 ANM cutting nozzles (sizes ½" & ⅝")
- Pistol spark lighter (x10 flints)
- Nozzle cleaners

---

**Contract Prices Available for Volume Purchases**

---

**DH Lightweight Welding Shank & Attachment**
Shank - dual purpose - can be used with welding mixer and nozzles or with cutting attachment.

**Swaged Welding Nozzles**
For use with lightweight shank and welding mixer, above. Plate thickness refers to mild steel.

**Cutting Attachment**
For use with lightweight shank, above, and AFN nozzles (left).

**Welding, Cutting & Heating Set**
Welding capacity up to 8mm. Cutting capacity up to 75mm.

**Type**
- Style S shank.
- Style S acetylene welding mixer.
- 6 Swaged nozzles (sizes 2, 5, 7, 10, 13 & 25).
- Style S cutting attachment.
- 2 ANM cutting nozzles (sizes ½" & ⅝")
- Pistol spark lighter (x10 flints)
- Nozzle cleaners

---

**Contract Prices Available for Volume Purchases**

---

**Contract Prices Available for Volume Purchases**
**Acetylene Welding Mixer**

For use with No.5 shank, right, and welding nozzles, below.

<table>
<thead>
<tr>
<th>Product Number</th>
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**Swaged Welding Nozzles**

For use with Saffire 5, 4 and 3. Plate thickness refers to mild steel.

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**Saffire Model ‘O’ Microset**

For fine welding applications, including jewellery, electronics, dental and lead welding. Injector blowpipe suitable for use with acetylene or hydrogen fuel gas. Supplied with welding tips 1, 2, 3, 4 and 5, spanner, operating instructions and carrying case. Welding capacity 1.5mm.

<table>
<thead>
<tr>
<th>Product Number</th>
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**Saffire No.5 Welding, Cutting & Heating Set**

Welding capacity up to 8mm. Cutting capacity up to 75mm. Contents:
- Saffire 5 shank.
- Acetylene welding mixer.
- 6 swaged welding nozzles (sizes 2, 5, 7, 10, 13 and 25).
- Cutting attachment, 2 ANM cutting nozzles (sizes "3/4", "3/8"), AHT 25 heating neck and tip. ‘O’ rings.
- Spark lighter with 9 flints.
- Nozzle cleaners.
- Carrying case.

<table>
<thead>
<tr>
<th>Product Number</th>
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</table>
CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

Compatible with most blowpipes including attachments.

Also compatible with cutting attachments.

Saffire NM250
Cutting Blowpipe

For general workshop cutting up to 250mm (10"). Use ANM/PNM nozzles below. Nozzle mixing and backfire resistant, 90° head with improved control knobs for positive flame setting.

Large Circle Cutting Attachment

Fits onto the nozzle end of the blowpipe, between the head and the cutting nozzle. Offers optimum two-handed control, fitted with a sliding centre device and a roller ball support spigot, ideal for accurately cutting larger diameters. Swing arm is graduated for direct reading of circle diameter (2 x radius). High quality brass head and screws with chrome plated steel swing arm and centre slide.

Small Circle Cutting Attachment

Acts as a centering and stabilising device, clamps directly over the gas tubes of the blowpipe. Allows diameters of up to two times the length of the gas tubes to be cut simply and easily. High quality brass body and screws with chrome plated steel centre pin. Compatible with most blowpipes including 1144, 1143, NMC200, NM250, NM400 etc. Also compatible with cutting attachments.

ANM Cutting Nozzles

Acetylene nozzle mix can be used with the majority of popular cutting torches. Plate thickness refers to mild steel.

PNM Cutting Nozzles

75mm long acetylene nozzle mix can be used with the majority of popular cutting torches including Saffire 5, 4 & 3, NM250, 400 & 500. Plate thickness refers to mild steel.

ASNM Cutting Nozzle

For cutting sheet metal.

GROUP
885 GAS WELDING & CUTTING SYSTEMS

KENNEDY
QUALITY INDUSTRIAL TOOLING

Cutting Blowpipe
18-90

Nozzle mixing and backfire resistant. For general workshop cutting up to 250mm (10"). Use ANM/PNM nozzles below. 90° head with improved control knobs for positive flame setting.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Diameter Range</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>144001</td>
<td>18&quot; - 30&quot;</td>
<td>-5500K</td>
<td>£54.90</td>
<td>£43.92</td>
</tr>
</tbody>
</table>

MUREX

Saffire NM250
Cutting Blowpipe

For general workshop cutting up to 250mm (10"). Use ANM/PNM nozzles below. Nozzle mixing and backfire resistant, 90° head with improved control knobs for positive flame setting.

Large Circle Cutting Attachment

Fits onto the nozzle end of the blowpipe, between the head and the cutting nozzle. Offers optimum two-handed control, fitted with a sliding centre device and a roller ball support spigot, ideal for accurately cutting larger diameters. Swing arm is graduated for direct reading of circle diameter (2 x radius). High quality brass head and screws with chrome plated steel swing arm and centre slide. Compatible with most blowpipes including 1144, 1143, NMC200, NM250, NM400 etc. Also compatible with cutting attachments.

Small Circle Cutting Attachment

Acts as a centering and stabilising device, clamps directly over the gas tubes of the blowpipe. Allows diameters of up to two times the length of the gas tubes to be cut simply and easily. High quality brass body and screws with chrome plated steel centre pin. Compatible with most blowpipes including 1144, 1143, NMC200, NM250, NM400 etc. Also compatible with cutting attachments.

ANM Cutting Nozzles

75mm long acetylene nozzle mix can be used with the majority of popular cutting torches including Saffire 5, 4 & 3, NM250, 400 & 500. Plate thickness refers to mild steel.

PNM Cutting Nozzles

75mm long acetylene nozzle mix can be used with the majority of popular cutting torches including Saffire 5, 4 & 3, NM250, 400 & 500.

ANM Cutting Nozzles

75mm long acetylene nozzle mix can be used with the majority of popular cutting torches including Saffire 5, 4 & 3, NM250, 400 & 500. Plate thickness refers to mild steel.

PNM Cutting Nozzles

75mm long acetylene nozzle mix can be used with the majority of popular cutting torches including Saffire 5, 4 & 3, NM250, 400 & 500.

<table>
<thead>
<tr>
<th>Product Number</th>
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<tbody>
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<td>144001</td>
<td>18&quot; - 30&quot;</td>
<td>-5500K</td>
<td>£54.90</td>
<td>£43.92</td>
</tr>
</tbody>
</table>

All Prices Exclude V.A.T. © 2009
**GAS WELDING & CUTTING ACCESSORIES**

**Process & Heating Nozzles**

Propane Heating Nozzles - P-H

Fully compatible with most heavy duty welding shanks and blowpipes. Use with blowpipes *1143, 1144; Saffire NM250; Citogas NM200. Up to 766,000 Btu/h can be achieved from 5H when used on blowpipe with adaptor. *Use adaptor 120498.

**Primus 2000 Cylinder Regulator**

Primus 2000 regulator with knurled valve control. Standard burner for general purpose applications. Full flame burner for large soldering, brazing and heating jobs.

**Adaptors**

For Propane Nozzles

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating Adaptor</td>
<td>-1250J</td>
<td>£23.74</td>
<td>£20.42</td>
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</table>

**Mixer**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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</thead>
<tbody>
<tr>
<td>Propane Mixer for Heavy Duty Shanks</td>
<td>-4308A</td>
<td>£27.47</td>
<td>£21.98</td>
</tr>
</tbody>
</table>

**Acetylene Gouging Nozzles - A-GNM**

Fully compatible with most heavy duty welding shanks and blowpipes. Including 1144, 1143, 2010, Saffire 5, 4, 3, NM250, NM400, Citogas HDT200, NMC200. Size 13 suitable for Saffire 4 and 3 only.

**Triple Flint Type Spark Lighter**

For easy and rapid single handed ignition of welding and cutting torches. When one flint wears, turn the triangular head to use the next flint.

**Acetylene Heating Nozzles - A-HT**

Fully compatible with most heavy duty welding shanks. Including 1144, Saffire 5, 4, 3, Citogas HDT200. Sizes 50 and 100 require A-HT mixer 2012.

**French Chalk Holder**

Slimline design sits comfortably in the hand or pocket. Prevents flat chalk sticks for breaking when marking out weld areas or cuts.

**Saffire MK4 Gas Economiser**

1282575

The Murex MK4 Gas Economiser is a device that economises the use of gas used in welding operations up to a nozzle size of 25. During non-welding periods the blowpipe can be hung safely on the hooked lever, which operates the gas shut-off valves in the economiser.

**KENNEDY**

Propane Nozzles - P-H

Fully compatible with most heavy duty welding shanks and blowpipes - For use with HD shanks and Saffire 5, 4, 3; Citogas HDT200 and use mixer 143758. Up to 766,000 Btu/h can be achieved from 5H when used on 1144/1143 with adaptor.
CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

GROUP 885 GAS WELDING & CUTTING ACCESSORIES

Kennedy

Quality Industrial Tools

Welding

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

KENNEDY

Quality Industrial Tools

885 GAS WELDING & CUTTING ACCESSORIES

Nozzle Cleaner Set

Prolongs the life of gas welding and cutting nozzles. High-strength, needle type files housed in an anodised aluminium flip-up pocket case.

Product

Sizes

Weight

Order Code

List

Offer

Price/1

1266

10.5mm

-2500K

£3.76

£2.63

Pistol Type Spark Lighter

For easy and rapid single handed ignition of welding and cutting torches. Metal bodied. Uses standard cigarette lighter flints.

Style

Pack

Quantity

Order Code

List

Offer

Price/1

Pistol

1

-7050K

£4.71

£3.77

Flints

10

-7060K

£0.90

£0.72

Cup Type Spark Lighter

For easy and rapid single handed ignition of welding and cutting torches.

Style

Pack

Quantity

Order Code

List

Offer

Price/1

Cup

1

-7010K

£2.87

£2.30

Flints

10

-7020K

£1.99

£1.59

Combination Bottle Spanner

Fits regulators, hoses, flashback arrestors and bottle valves. Drop forged.

Product

Sizes

Weight

Order Code

List

Offer

Price/1

1363

-7603G

£1.95

£1.56

Cylinder Trolleys

Robust, heavy gauge steel, welded construction, with two large diameter wheels and solid tyres. Available as a single cylinder or twin cylinder types for use with oxygen and/or acetylene cylinders. 16in pneumatic tyre. Three wheel.

Model No. 1267

Model No. 1271

Model Number

For Use With

Cylinder Capacity

Order Code

List

Offer Price/1

1270

Propane

1

-7270B

£59.95

£47.96

1271

Oxy/Acetylene

1

-7271C

£69.95

£57.96

1267

Oxy/Acetylene

2

-7267Z

£59.95

£47.96

1273

Oxy/Acetylene

2

-7273E

£167.90

£134.32

1274

Oxy/Acetylene

2

-7274F

£175.00

£140.00

1268

Oxy/propane

2

-7268M

£59.95

£47.96

Murex

Nozzle Cleaner Set

Prolongs the life of gas welding and cutting nozzles. High strength, needle type files housed in an anodised aluminium flip-up pocket case.

Product

Sizes

Weight

Order Code

List

Offer

Price/1

153391

10.5mm

-4391A

£3.76

£3.01

Murex

Individual Hoses

Fitted hoses. Kink and crush resistant. 6.3mm for general use, 10mm for heavy duty use.

Blue Hoses for Oxygen

Bore

Hose Length

Fitting

Order Code

List

Offer

Price/1

6.3mm

5m

-2651F

£13.72

£10.98

6.3mm

10m

-2655G

£18.72

£14.98

10.0mm

5m

-2659J

£22.75

£18.98

10.0mm

10m

-2660K

£34.96

£27.97

Red Hoses for Acetylene

Bore

Hose Length

Fitting

Order Code

List

Offer

Price/1

6.3mm

5m

-2605A

£13.72

£10.98

6.3mm

10m

-2609D

£18.72

£14.98

10.0mm

5m

-2610E

£23.73

£19.98

10.0mm

10m

-2610E

£34.96

£27.97

Oxygen and Acetylene Hose Sets

Oxygen (blue) and acetylene (red). Kink/crush resistant. 6mm and 8mm (general use). 10mm (heavy duty/flame cutting). Supplied fully fitted complete with hose check valves.

Oxygen and Acetylene Hose Sets

Hose Length

Fitting

Order Code

List

Offer

Price/1

8mm

10mm 10m

3/8" - 3/8"

-7341K

£37.95

£30.36

10mm

6.3mm 10m

3/8" - 3/8"

-7338G

£43.70

£34.96

10mm

6.3mm 20m

3/8" - 3/8"

-7339H

£47.14

£37.71

10mm

8mm 10m

3/8" - 3/8"

-7380N

£51.00

£43.70

10mm

8mm 20m

3/8" - 3/8"

-7381F

£52.83

£45.16

10mm

10.0mm 10m

3/8" - 3/8"

-7340J

£56.26

£48.50

10mm

10.0mm 20m

3/8" - 3/8"

-7341K

£59.95

£52.83

10mm

10.0mm 30m

3/8" - 3/8"

-7342L

£63.75

£56.26

Oxygen and Acetylene Hose Sets

Bore

Hose Length

Fitting

Order Code

List

Offer

Price/1

6.3mm

10.0mm 10m

3/8" - 3/8"

-2296B

£43.70

£34.96

10.0mm

10.0mm 20m

3/8" - 3/8"

-2297C

£63.25

£50.60

Oxy-Acetylene Hose Reel

Self-retracting oxyacetylene hose reel designed for air hose up to 15 metres. Weighs Only 9kg making it lightweight and portable. Constructed of corrosion-proof polypropylene.

Model

Size

Order Code

List

Offer

Price/1

SG3450

6mm

-5500A

£24.05

£20.00

SG3450

8mm

-5950M

£24.05

£20.00
Oxygen Regulators
 Designed with 2 gauges to indicate cylinder contents and outlet pressure.

4.0 Bar Oxygen Regulator
 Full 230 bar capacity.

10.0 Bar Oxygen Regulator
 Full 230 bar capacity.

Bottom entry design, which is suited for top outlet cylinder valves.

Fitted with 1/4" parallel threaded gauges.

Fitted with 5/8" BSP inlet connections.

Gas Type | Order Code | List Price/1 | Offer Price/1
---|---|---|---
4.0 Bar Oxygen | -0003A | £34.61 | £27.69
10.0 Bar Oxygen | -0004A | £34.61 | £27.69

Saffire Regulators
 With twin bulk head gauges clearly displaying cylinder pressure and flow rate. Comply with EN ISO 2503.

0.4 bar Oxygen (Blue) type is suitable for medium cutting and welding applications.

0.10 bar Oxygen (Blue) type is suitable for most applications including heavy cutting and heating.

A-1.5 Acetylene (Red) type is suitable for all cutting, heating and welding applications.

Arc-35L Argon type is suitable for inert gases eg for use with Mig or Tig welders.

Argon & Acetylene Regulators
 Designed with 2 gauges to indicate cylinder contents and outlet pressure.

Argon regulator outlet gauge is calibrated for flow 0 - 30lpm.

Acetylene regulator has a calibrated flow rate of 0 - 1.5 lpm with a full 230 bar capacity.

Features:
 Flow rates up to 80m³/h (2824 ft³/h)

230 bar capacity.

0 - 1.5 bar with a full calibrated flow rate of up to 30 lpm.

Argon & Acetylene Regulator Outlet Gauge is calibrated for Argon & Acetylene.

Designed with 2 gauges to indicate cylinder contents and pressure.

Features:
 Twin bulk head gauges clearly displaying cylinder pressure and flow rate.

Twin-chambered to deliver constant pressure - even when cylinder is near empty.

Cylinders

Cylinder Adaptors for Side Entry Cylinders
 Threaded female one end to connect to a regulator and male on the other end to fit into the gas cylinder. Suitable for side entry cylinders such as ‘Air Products’ etc.

Flashback Arrestors
 Conform to EN730. Sintered metal flame arresting element, non-return valve upstream of the flame arresting element, thermal and pressure sensitive cut-off.

Reset button with ‘pop-up’ action indicating when a flashback has occurred.

Saffire Indicator Type Regulators - Not Illustrated
 Gaugeless - with indicator to signal empty cylinder.

Conform to EN730. Sintered metal flame arresting element, non-return valve upstream of the flame arresting element, thermal and pressure sensitive cut-off.

Reset button with ‘pop-up’ action indicating when a flashback has occurred.

Saffire 36ec Flashback Arrestors
 Conform to EN730. Sintered metal flame arresting element, non-return valve upstream of the flame arresting element, thermal and pressure sensitive cut-off.

Reset button with ‘pop-up’ action indicating when a flashback has occurred.
### PVC Standard Curtains

Standard sized curtains provided with 50mm welded seam all around and with snap-fasteners on both sides for joining to obtain total desired width. Supplied with reinforced holes in the upper edge and steel suspension rings. All standard curtains are made of pliable, self-extinguishing PVC material with flash point 320 - 390°C. Total width of curtains is 10% longer than total required screening length to compensate for folding. Available in dark green, red/orange and bronze transparent colours. Complying with EN1598 for welding (fulfilling requirements on transmittance, reflectance, UV-stability and resistance to ignition).

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Curtain Colour</th>
<th>Size W x H (mm)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>60313124</td>
<td>Dark Green</td>
<td>1300 x 1800</td>
<td>-7510A</td>
<td>£35.00</td>
<td>£35.00</td>
</tr>
<tr>
<td>60313125</td>
<td>Dark Green</td>
<td>1300 x 2400</td>
<td>-7520B</td>
<td>£46.00</td>
<td>£46.00</td>
</tr>
<tr>
<td>60313126</td>
<td>Dark Green</td>
<td>1300 x 2800</td>
<td>-7530C</td>
<td>£56.00</td>
<td>£56.00</td>
</tr>
</tbody>
</table>

### PVC Curtain Screen - Transparent

The protection curtain screens are easily removable for welding, grinding, turning, milling etc, and are ideal for the screening of temporary or permanent work places. The frame is manufactured from galvanised tube and the curtain of self-extinguishing PVC material in same colours as the standard curtains. Complying with EN1598 for welding. Delivered complete with frame and curtain. Dimension with frame (W x H): 1700 x 2000mm (just curtain H: 1700mm).

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Curtain Colour</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>60931050</td>
<td>Dark Green</td>
<td>-8120M</td>
<td>£116.00</td>
<td>£116.00</td>
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<tr>
<td>60931056</td>
<td>Red/Orange</td>
<td>-8140P</td>
<td>£107.00</td>
<td>£107.00</td>
</tr>
</tbody>
</table>

### Welders Blankets

For protection of the workpiece near to the weld area and other nearby components from weld spatter and grinding sparks. Available in two types: glass fibre for protection up to 600°C and silicate fibre for protection up to 1200°C.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Fibre Type</th>
<th>Size L x W (Metres)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1813</td>
<td>Glass</td>
<td>2.0 x 1.0</td>
<td>-7813L</td>
<td>£45.60</td>
<td>£36.48</td>
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<tr>
<td>1814</td>
<td>Glass</td>
<td>2.0 x 2.0</td>
<td>-7814M</td>
<td>£91.20</td>
<td>£72.96</td>
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<tr>
<td>1815</td>
<td>Glass</td>
<td>3.0 x 2.0</td>
<td>-7815N</td>
<td>£136.80</td>
<td>£109.44</td>
</tr>
</tbody>
</table>

### Welders Curtains

Flame retardant dipped green canvas and PVC curtains. *Conform to EN1598. (PVC curtains only). Size 6’0” x 6’0”. Frame supplied separately.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Curtain Colour</th>
<th>Size W x H</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1462</td>
<td>*Orange PVC</td>
<td>6’ x 6’</td>
<td>-7462D</td>
<td>£56.95</td>
<td>£45.56</td>
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<tr>
<td>1468</td>
<td>Green Canvas</td>
<td>6’ x 6’</td>
<td>-7468A</td>
<td>£37.95</td>
<td>£30.36</td>
</tr>
<tr>
<td>1469</td>
<td>Canvas</td>
<td>8’ x 6’</td>
<td>-7469B</td>
<td>£70.00</td>
<td>£56.00</td>
</tr>
</tbody>
</table>

### PVC Standard Curtains

Standard sized curtains provided with 50mm welded seam all around and with snap-fasteners on both sides for joining to obtain total desired width. Supplied with reinforced holes in the upper edge and steel suspension rings. All standard curtains are made of pliable, self-extinguishing PVC material with flash point 320 - 390°C. Total width of curtains is 10% longer than total required screening length to compensate for folding. Available in dark green, red/orange and bronze transparent colours. Complying with EN1598 for welding (fulfilling requirements on transmittance, reflectance, UV-stability and resistance to ignition).

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Curtain Colour</th>
<th>Size W x H (mm)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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<tbody>
<tr>
<td>60313124</td>
<td>Dark Green</td>
<td>1300 x 1800</td>
<td>-7510A</td>
<td>£35.00</td>
<td>£35.00</td>
</tr>
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</table>

### PVC Standard Curtains

Standard sized curtains provided with 50mm welded seam all around and with snap-fasteners on both sides for joining to obtain total desired width. Supplied with reinforced holes in the upper edge and steel suspension rings. All standard curtains are made of pliable, self-extinguishing PVC material with flash point 320 - 390°C. Total width of curtains is 10% longer than total required screening length to compensate for folding. Available in dark green, red/orange and bronze transparent colours. Complying with EN1598 for welding (fulfilling requirements on transmittance, reflectance, UV-stability and resistance to ignition).
Earting Clamps
To complete an arc welding circuit, a return current lead must be used to securely connect the workpiece and the power source.

<table>
<thead>
<tr>
<th>Rating (Amps)</th>
<th>Clamp Style</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>Screw-on</td>
<td>-7062J</td>
<td>£14.00</td>
<td>£11.20</td>
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<tr>
<td>200</td>
<td>Crocodile</td>
<td>-7063K</td>
<td>£1.25</td>
<td>£1.00</td>
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<tr>
<td>400</td>
<td>Crocodile</td>
<td>-7084L</td>
<td>£2.60</td>
<td>£2.08</td>
</tr>
</tbody>
</table>

Myking Rubber Grip Electrode Holders
One of the best quality electrode holders available. Comprises of only 3 parts and incorporates design advantages such as correct weight and balance, excellent hand-grip, and double screwed cable connector. Excellent insulation, requires a minimum of maintenance and has two electrode positions 45° and 90°.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Rating (Amps)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1027</td>
<td>200</td>
<td>-7027Y</td>
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<td>£16.46</td>
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<td>1028</td>
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<tr>
<td>1029</td>
<td>600</td>
<td>-7029M</td>
<td>£31.52</td>
<td>£25.22</td>
</tr>
</tbody>
</table>

Copper Welding Cable
Black PVC, single insulated, single core, high flexibility, welding cable.

<table>
<thead>
<tr>
<th>Core Size</th>
<th>Weight per m</th>
<th>Order Code</th>
<th>List Price/100m</th>
<th>Offer Price/100m</th>
</tr>
</thead>
<tbody>
<tr>
<td>16mm²</td>
<td>-7006G</td>
<td>£253.00</td>
<td>£202.40</td>
<td></td>
</tr>
<tr>
<td>25mm²</td>
<td>-7007H</td>
<td>£409.00</td>
<td>£320.00</td>
<td></td>
</tr>
<tr>
<td>35mm²</td>
<td>-7008J</td>
<td>£558.00</td>
<td>£446.40</td>
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</tr>
<tr>
<td>50mm²</td>
<td>-7009K</td>
<td>£713.00</td>
<td>£618.40</td>
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</tr>
<tr>
<td>70mm²</td>
<td>-7010L</td>
<td>£798.00</td>
<td>£682.00</td>
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</tr>
<tr>
<td>95mm²</td>
<td>-7011M</td>
<td>£911.00</td>
<td>£750.00</td>
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</tr>
</tbody>
</table>

Suggested Current Ratings
The following amperage ratings are for guidance only and based on a maximum cable temperature of 85°C. For 60°C reduce the ratings by 25%.

<table>
<thead>
<tr>
<th>Duty Cycle: %</th>
<th>100%</th>
<th>60%</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Size: m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16mm²</td>
<td>135A</td>
<td>175A</td>
<td>245A</td>
</tr>
<tr>
<td>25mm²</td>
<td>180A</td>
<td>230A</td>
<td>330A</td>
</tr>
<tr>
<td>35mm²</td>
<td>225A</td>
<td>290A</td>
<td>410A</td>
</tr>
<tr>
<td>50mm²</td>
<td>285A</td>
<td>370A</td>
<td>520A</td>
</tr>
<tr>
<td>70mm²</td>
<td>355A</td>
<td>460A</td>
<td>650A</td>
</tr>
<tr>
<td>95mm²</td>
<td>430A</td>
<td>560A</td>
<td>790A</td>
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</table>

Crocked Type Electrode Holders
Designed to reduce fatigue to a minimum and increase safety. The holder is fully insulated.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Rating (Amp)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1023</td>
<td>200</td>
<td>-7023T</td>
<td>£2.20</td>
<td>£1.95</td>
</tr>
<tr>
<td>1024</td>
<td>400</td>
<td>-7024V</td>
<td>£4.43</td>
<td>£3.54</td>
</tr>
</tbody>
</table>

Dinse Type Cable Plugs & Sockets
With positive locking connection, to prevent accidental disconnection and good external insulation to prevent water penetrating the joint. Dinse compatible panel sockets and machine/surface mounted plugs and sockets also available.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>For Cable</th>
<th>Size (mm²)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1056</td>
<td>10 - 25</td>
<td>-7056P</td>
<td>£1.50</td>
<td>£1.20</td>
<td></td>
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<tr>
<td>1057</td>
<td>35 - 50</td>
<td>-7057Q</td>
<td>£1.90</td>
<td>£1.52</td>
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<tr>
<td>1058</td>
<td>50 - 70</td>
<td>-7058R</td>
<td>£2.40</td>
<td>£1.92</td>
<td></td>
</tr>
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</table>

Re-Usable Cable Lugs
For use with arc cable.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size (mm)</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1036</td>
<td>25</td>
<td>-7036C</td>
<td>£0.94</td>
<td>£0.75</td>
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<tr>
<td>1037</td>
<td>35</td>
<td>-7037D</td>
<td>£1.16</td>
<td>£0.93</td>
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<tr>
<td>1038</td>
<td>50</td>
<td>-7038E</td>
<td>£1.50</td>
<td>£1.20</td>
</tr>
</tbody>
</table>
**885 MIG WELDER ACCESSORIES & SPARES**

---

### Euro Connection Torches

Fitted with EURO connectors, with insulated gas nozzles for use with mixed gases and a 4m supple, lightweight cable to improve productivity.

### BINZEL® Euro Connection Torches

With high performance ‘Ergo’ style handles. Air cooled. All supplied complete with liner and standard size tip. Additional styles and full range of spares are available on request. Air cooled.

### ‘Ergo’ Torch

#### KENNEDY MIG Torch Liners

PVC coated for use with steel wire. Colour coded to indicate wire size:
- 0.6 - 0.9mm = Blue,
- 1.0 - 1.2mm = Red.

#### BINZEL® MIG Torch Liners

PVC coated for use with aluminium wire. Colour coded to indicate wire size:
- 0.6 - 0.9mm = Blue,
- 1.0 - 1.2mm = Red.

---

**CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES**
Mig Torch Accessories

Also compatible with Parweld and Binzel torches.

Contact Tips & Tip Adaptors

**MB15**

**MB25**

---

Nozzles

**Conical**

For Torch Number Product Size Order Code Price/5

---

**Tapered**

For Torch Number Product Size Order Code Price/5

---

**Contact Tips**

**MB15**

**MB25**

---

**Mig Torch Accessories**

Also compatible with Parweld torches.

---

**TIG WELDER ACCESSORIES & SPARES**

**For Torch Product Order Code**

- **MB14/15** & **MB25**
- **MB36** & **MB24**

---

**Nozzles**

- **Conical**
- **Tapered**

---

**Insulators**

- **Mig Torch Accessories**

---

**Contact Tips & Tip Adaptors**

- **MB15**
- **MB25**

---

**Contact Tips - ECU**

- **14-range** to suit No.2, No.3 and No.4 torches.
- **15H35**, **15H40**, **15H45**, and **15H116** and **15H332**

---

**Heavy Duty Nozzles**

- **24AH50**, **24AH62** and **24AH75** to suit No.4 torch.
- **24A50**, **24A62** and **24A75** to suit No.3 and No.4 torches.

---

**For Torch Product Style Order Code**

- **MB15**
- **MB25**

---

**Nozzles**

- **Conical**
- **Tapered**

---

**Nozzles & Contact Tips**

- **MB15**
- **MB25**

---

**Tapered**

For Torch Number Product Number Size (mm) Order Code Price/5

---

**Conical**

For Torch Number Product Number Size (mm) Order Code Price/5

---

**Spare Parts**

- **MB15**
- **MB25**

---

**Contact Tips**

- **MB15**
- **MB25**

---

**TIG WELDER ACCESSORIES & SPARES**

**For Torch Product Order Code**

- **MB14/15**, **MB25**, **MB36**

---

**Insulators**

- **Mig Torch Accessories**

---

**Contact Tips & Tip Adaptors**

- **MB15**
- **MB25**

---

**Gas Diffusers**

- **Mig Torch Accessories**

---

**Nozzles**

- **MB14/15** & **MB25**
- **MB36** & **MB24**

---

**CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES**

All Prices Exclude V.A.T. © 2009
**Tig Torches**

Whether water or air cooled, all Kennedy Tig torches are lightweight and durable. They come supplied with a 12.5ft (3.8m) cable, and silicon rubber rigid or flexible head mouldings for greater heat resistance.

### Tig Torches

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Type &amp; Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTS017</td>
<td>Standard Rigid Head Tig Torch 150DC/125AC - Water Cooled</td>
<td>-3200K</td>
<td>£38.90</td>
<td>£31.12</td>
</tr>
<tr>
<td>TTS018</td>
<td>Standard Rigid Head Tig Torch 350DC/250AC - Water Cooled</td>
<td>-3220K</td>
<td>£39.50</td>
<td>£31.60</td>
</tr>
<tr>
<td>TTS026</td>
<td>Standard Rigid Head Tig Torch 200DC/160AC - Air Cooled</td>
<td>-3240K</td>
<td>£37.50</td>
<td>£30.00</td>
</tr>
<tr>
<td>TTF026</td>
<td>Flexible Head Tig Torch 200DC/160AC - Air Cooled</td>
<td>-3340K</td>
<td>£33.90</td>
<td>£27.12</td>
</tr>
</tbody>
</table>

### Torch Bodies

Made from tough ABS plastic with a silicone rubber head for greater heat resistance and durability.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Type</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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</thead>
<tbody>
<tr>
<td>WP17</td>
<td>Standard</td>
<td>-6500K</td>
<td>£8.40</td>
<td>£6.72</td>
</tr>
<tr>
<td>WP18</td>
<td>Standard</td>
<td>-6520K</td>
<td>£9.76</td>
<td>£7.81</td>
</tr>
<tr>
<td>WP26</td>
<td>Standard</td>
<td>-6540K</td>
<td>£9.10</td>
<td>£7.28</td>
</tr>
<tr>
<td>WP17FX</td>
<td>Flexi</td>
<td>-6510K</td>
<td>£8.40</td>
<td>£6.72</td>
</tr>
<tr>
<td>WP26FX</td>
<td>Flexi</td>
<td>-6550K</td>
<td>£9.10</td>
<td>£7.28</td>
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</table>

### Back Caps

**BIN57Y** To suit WP17/18/26 torches.

### Cup Gaskets

<table>
<thead>
<tr>
<th>Product Number</th>
<th>To Suit</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>18CG</td>
<td>WP17/18/26</td>
<td>-7400K</td>
<td>£1.60</td>
<td>£1.28</td>
</tr>
</tbody>
</table>

### Collets

**1ON** To suit WP17/18/26 torches.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Bore Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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</thead>
<tbody>
<tr>
<td>1ON71</td>
<td>0.5mm (0.020&quot;)</td>
<td>-7200K</td>
<td>£0.89</td>
<td>£0.71</td>
</tr>
<tr>
<td>1ON22</td>
<td>1.0mm (0.040&quot;)</td>
<td>-7210K</td>
<td>£0.89</td>
<td>£0.71</td>
</tr>
<tr>
<td>1ON23</td>
<td>1.6mm (0.065&quot;)</td>
<td>-7220K</td>
<td>£0.89</td>
<td>£0.71</td>
</tr>
<tr>
<td>1ON24</td>
<td>2.4mm (0.095&quot;)</td>
<td>-7230K</td>
<td>£0.89</td>
<td>£0.71</td>
</tr>
<tr>
<td>1ON25</td>
<td>3.2mm (0.125&quot;)</td>
<td>-7240K</td>
<td>£0.89</td>
<td>£0.71</td>
</tr>
</tbody>
</table>

### Collet Bodies

**1ON** To suit WP17/18/26 torches.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Bore Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ON30</td>
<td>1.0mm (0.040&quot;)</td>
<td>-7260K</td>
<td>£2.29</td>
<td>£1.83</td>
</tr>
<tr>
<td>1ON31</td>
<td>1.6mm (0.065&quot;)</td>
<td>-7270K</td>
<td>£2.29</td>
<td>£1.83</td>
</tr>
<tr>
<td>1ON22</td>
<td>2.4mm (0.095&quot;)</td>
<td>-7300K</td>
<td>£2.29</td>
<td>£1.83</td>
</tr>
<tr>
<td>1ON28</td>
<td>3.2mm (0.125&quot;)</td>
<td>-7350K</td>
<td>£2.29</td>
<td>£1.83</td>
</tr>
</tbody>
</table>

### Ceramic Cups - Standard Length

**10N** To suit WP17/18/26 torches.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Bore Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>10N50</td>
<td>1/4&quot; (No. 4)</td>
<td>-7360K</td>
<td>£1.02</td>
<td>£0.82</td>
</tr>
<tr>
<td>10N49</td>
<td>5/32&quot; (No. 5)</td>
<td>-7350K</td>
<td>£1.02</td>
<td>£0.82</td>
</tr>
<tr>
<td>10N48</td>
<td>3/32&quot; (No. 6)</td>
<td>-7340K</td>
<td>£1.02</td>
<td>£0.82</td>
</tr>
<tr>
<td>10N47</td>
<td>1/8&quot; (No. 7)</td>
<td>-7330K</td>
<td>£1.02</td>
<td>£0.82</td>
</tr>
<tr>
<td>10N46</td>
<td>1/16&quot; (No. 8)</td>
<td>-7320K</td>
<td>£1.02</td>
<td>£0.82</td>
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<tr>
<td>10N45</td>
<td>5/64&quot; (No. 10)</td>
<td>-7310K</td>
<td>£1.07</td>
<td>£0.86</td>
</tr>
<tr>
<td>10N44</td>
<td>3/64&quot; (No. 12)</td>
<td>-7300K</td>
<td>£1.07</td>
<td>£0.86</td>
</tr>
</tbody>
</table>

### Gas Lens Body

**45V** To suit WP17/18/26 torches.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Bore Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>45V24</td>
<td>1.0mm (0.040&quot;)</td>
<td>-7500K</td>
<td>£5.32</td>
<td>£4.26</td>
</tr>
<tr>
<td>45V25</td>
<td>1.6mm (0.065&quot;)</td>
<td>-7510K</td>
<td>£5.32</td>
<td>£4.26</td>
</tr>
<tr>
<td>45V26</td>
<td>2.4mm (0.095&quot;)</td>
<td>-7520K</td>
<td>£5.32</td>
<td>£4.26</td>
</tr>
<tr>
<td>45V27</td>
<td>3.2mm (0.125&quot;)</td>
<td>-7530K</td>
<td>£5.32</td>
<td>£4.26</td>
</tr>
</tbody>
</table>

### Gas Lens Ceramics

**54N** To suit WP17/18/26 torches.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Bore Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>54N18</td>
<td>1/4&quot; (No. 4)</td>
<td>-7640K</td>
<td>£1.61</td>
<td>£1.29</td>
</tr>
<tr>
<td>54N17</td>
<td>5/32&quot; (No. 5)</td>
<td>-7630K</td>
<td>£1.25</td>
<td>£1.00</td>
</tr>
<tr>
<td>54N16</td>
<td>3/32&quot; (No. 6)</td>
<td>-7620K</td>
<td>£1.25</td>
<td>£1.00</td>
</tr>
<tr>
<td>54N15</td>
<td>1/8&quot; (No. 7)</td>
<td>-7610K</td>
<td>£1.25</td>
<td>£1.00</td>
</tr>
<tr>
<td>54N14</td>
<td>5/64&quot; (No. 8)</td>
<td>-7600K</td>
<td>£1.25</td>
<td>£1.00</td>
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<td>54N19</td>
<td>3/64&quot; (No. 10)</td>
<td>-7650K</td>
<td>£1.61</td>
<td>£1.29</td>
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</table>

### Gas Lens Heatshield

**54N01**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Type</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>54N01</td>
<td>Gas Lens Heatshield</td>
<td>-7560K</td>
<td>£4.80</td>
<td>£3.84</td>
</tr>
</tbody>
</table>
**Flaw Inspection System**

Fast reliable method for visually inspecting and spot-checking surfaces of welds, exotic alloys or standard metals, highly stressed structural members, critical castings, shafts, gears, spindles, and any other hard part where identification of surface flaws is essential. Detects flaws such as cracks, pin holes, welding laps and porosity either during manufacture or on-site. A three part system:

- **SFD-501C** is a cleaner.
- **SFD-502C** is a dye penetrant.
- **SFD-503C** is a developing fluid that reacts with the dye in **SFD-502C** to show small cracks in the weld. Each part supplied in an ozone friendly 500ml aerosol.

**Antox**

**Stainless Steel Pickling Paste**

For the treatment of corrosion on stainless steel and nickel alloys prior to welding. Brush not supplied.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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<tbody>
<tr>
<td>71E</td>
<td>2kg</td>
<td>-6030A</td>
<td>£39.00</td>
<td>£31.20</td>
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</table>

**Water Based Anti-Spatter (not illustrated)**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
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<tbody>
<tr>
<td>1365</td>
<td>5ltr</td>
<td>-7365J</td>
<td>£17.50</td>
<td>£14.00</td>
</tr>
</tbody>
</table>

**Tip-Guard Paste**

Reduces the effects of weld spatter. Protects and prolongs the life of MIG nozzles, contact tips, jigs and fixtures. Will not clog threads, or cause porosity regardless of amount used. Non-toxic, non-flammable, odourless and contains no harmful hydro-carbons.

**Welders Anti-Spatter Spray**

Solen maintenance welding fluids

**‘The Works’ Pre-Weld Spray**

Suitable for all types of welding, simply by spraying a light film of ‘The Works’ on material prior to tacking or welding gives clean welding conditions, prevents spatter adhesion, porosity and greatly reduces dressing time. It contains a corrosion inhibitor, creates better welds and reduces heat discolouration. There are no harmful propellants involved. 100% product expelled using this unique spraying system that works at 360° with no wastage.

**Maintenance Welders Anti-Spatter Fluid**

Reduces the risk of joint puddling and greatly reduces preparation time prior to final painting. Does not affect any subsequent galvanising or painting operations. Evaporates under normal weld temperatures. Dichloromethane and silicone-free. Non-flammable, non-toxic, non-corrosive and biodegradable.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>5ltr</td>
<td></td>
<td>-9300K</td>
<td>£6.13</td>
<td>£4.90</td>
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<tr>
<td>20ltr</td>
<td></td>
<td>-9310K</td>
<td>£21.70</td>
<td>£17.36</td>
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</table>

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Aerosol</th>
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<th>Offer Price/1</th>
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<tbody>
<tr>
<td>AS-90</td>
<td>400ml</td>
<td>-100K</td>
<td>£7.33</td>
<td>£5.86</td>
</tr>
</tbody>
</table>

**Maintenance Welders Anti-Spatter Fluid**

Reduces the risk of joint puddling and greatly reduces preparation time prior to final painting. Does not affect any subsequent galvanising or painting operations. Evaporates under normal weld temperatures. Dichloromethane and silicone-free. Non-flammable, non-toxic, non-corrosive and biodegradable.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>5ltr</td>
<td></td>
<td>-9300K</td>
<td>£6.13</td>
<td>£4.90</td>
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<tr>
<td>20ltr</td>
<td></td>
<td>-9310K</td>
<td>£21.70</td>
<td>£17.36</td>
</tr>
</tbody>
</table>
**GROUP 885 WELDING GOGGLES & SHIELDS**

**uvex Futura Infradur Safety Spectacles**

Ergonomical lightweight design, excellent field of vision and outstanding close fit. Duoflex temples provide optimum wearer comfort and are adjustable in four positions. Inclination of temples with integrated lateral protection is realised by a micro-ratchet mechanism. Polycarbonate green lenses welding shades 1.7 or 5 are replaceable. InfradurPlus welding lenses protects against ultra violet and infra red radiation. Made to BS 1542 & EN166/EN169. All with shade five lenses for protection against infra-red radiation.

**Welders Helmets**

To protect the user from UV rays and weld spatter. UK size lens aperture (4⅜" x 3⅛"). Lenses supplied separately.

**Flip-Up Lens Type**

Face lifts up over brow strap. Accepts a plain lens in the inner aperture and a shaded lens which can flip up, to allow full sight of the work-piece in between welds, without lifting the shield.

**Fixed Lens Type**

Face lifts up over brow strap.

**Gas Welders Goggles**

All with shade five lenses for protection against infra-red radiation, gas flame and spatter. Made to BS 1542 & EN166/EN169.

**2” Round Lens Type - Fixed**

**2” Round Lens Type - Flip-up**

With plain secondary lenses.

**One-Piece Lens Type**

With indirect ventilation.

**Lenses to Suit Gas Welding Goggles**

To protect the user from UV rays and weld spatter.

---

**Table:**

<table>
<thead>
<tr>
<th>Lens Type</th>
<th>Weight each</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
<tbody>
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<td>Round - Fixed</td>
<td>-7427D</td>
<td>£6.10</td>
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<td></td>
</tr>
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<td>Round - Flip-up</td>
<td>-7428E</td>
<td>£4.95</td>
<td>£3.96</td>
<td></td>
</tr>
<tr>
<td>One - Piece</td>
<td>-7429F</td>
<td>£2.56</td>
<td>£2.05</td>
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**Table:**

<table>
<thead>
<tr>
<th>Lens Size</th>
<th>Type</th>
<th>Colour/ Shade</th>
<th>Order Code</th>
<th>List Price/1</th>
<th>Offer Price/1</th>
</tr>
</thead>
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<tr>
<td>4⅞&quot; x 3⅛&quot;**</td>
<td>Glass Front</td>
<td>Clear</td>
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---

**Hand Held Shields**

Both models have UK size lens aperture (4⅜" x 3⅛"). Lenses supplied separately.

**SF12 Fibre Glass Hand Shield**

Flat fronted long shell type.

**SF2 Fibre Glass Hand Shield**

Flat fronted long shell type.

---

**Lenses to Suit Helmets & Shields**

To protect the user from UV rays and weld spatter.

*Standard UK size.

---

**For Welding Gloves**

See Group 961
### 3M Utility Helmet

Shade 11 utility helmet. Shade 3 in light state. Only suitable for MIG (Metal Inert Gas) and MMA welding (Manual Metal Arc). Viewing area 44 x 92mm. Lithium 3 volt batteries (2000 hours).

<table>
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<tr>
<th>Outer Protection Plate Standard</th>
<th>426000</th>
<th>Outer Protection Plate Scratch Resistant</th>
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### Speedglas 9002V Utility Helmet

Membrane covered easy to use controls. Clear indication of settings variable shade control (shade 9 - 13). Four different levels of sensitivity. Adjustable delay function 60 - 500 m/s. Battery and solar power extend battery life up to 3000 hours. Suitable for MIG, MMA and TIG.

<table>
<thead>
<tr>
<th>Shade 9 - 13</th>
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### Speedglas 9002X Utility Helmet

Membrane covered easy to use controls. Clear indication of settings variable shade control (shade 9 - 13). Four different levels of sensitivity. Adjustable delay function 60 - 500 m/s. Battery and solar power extend battery life up to 3000 hours. Suitable for MIG, MMA and TIG.

<table>
<thead>
<tr>
<th>Shade 9 - 13</th>
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<td>9-13</td>
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### Spare Protection Plates for Lenses

For use with the Adflo fresh air unit.

### Speedglas Air Filters

For use with the Adflo fresh air unit.

### Speedglas 9002X Utility Helmet

Membrane covered easy to use controls. Clear indication of settings variable shade control (shade 9 - 13). Four different levels of sensitivity. Adjustable delay function 60 - 500 m/s. Battery and solar power extend battery life up to 3000 hours. Suitable for MIG, MMA and TIG.

<table>
<thead>
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### Spare Protection Plates for Lenses

For use with the Adflo fresh air unit.

### Speedglas Air Filters

For use with the Adflo fresh air unit.

### Solar Powered Auto Variable 9 - 13

Auto variable shade 9 - 13. Time to dark: 0.5ms. The shells are certified to EN 175; 1997 for eye and face protection. They can withstand a temperature of 650°C from the end of the electrode for five seconds, without burning. The electronic lenses are certified to DIN EN 169 and DIN 179. Switching time from light to dark: 0.5 milli-seconds. Solar powered, no battery required. Suitable for Arc, Mig/Mag, Tig and Plasma welding. With 2 year warranty.

<table>
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### Spare Cover lenses

To protect liquid crystal cartridge unit. Supplied in packs of 10.

### Jet Black Auto X

The Jet Black™ welding helmet is designed using the latest technology to automatically protect the user’s eyes from arc light damage and leave both hands free to increase accuracy, efficiency and therefore productivity. Fitted with automatic filters that are transparent before welding, it enables the operator to observe the workpiece clearly. When striking the arc, the filter darkens automatically with immediate effect. When the arc goes out, the filter will become transparent again. The switching time from light to dark is approximately 0.0001 seconds, and the switching time from dark to light maybe set at between 0.1 - 0.5 second.

### Jet Black Auto X

- **Dual power**: Battery and solar.
- **Light to dark**: 0.0001 seconds.
- **Light to dark:** 0.1 - 0.5 seconds.
- **Control switching from shade to shade**: 8-12.
- **Auto on/off power source** provided by two lithium batteries giving approx. 800 hours of working. High Impact resistance. Clear view filter. Permanent UV/IR protection up to 1000 hours. Complete with additional sweat band.
- **Light weight - less than 0.5kg**.

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
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<th>List Price/1</th>
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**CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES**

All Prices Exclude V.A.T. © 2009
GROUP
885 WELDING HELMETS

Welders Helmets

All models have UK size lens aperture (4¼" x 3¼"). Lenses supplied separately.

SF11 Fibre Glass

Traditional short shell type.

SF16 Fibre Glass

Long shell type for extra neck and chest protection, suitable for overhead welding. (Not illustrated).

SF8 Thermo-Plastic

Lightweight.

Model Number | Weight each | Order Code | List Price/1 | Offer Price/1
--- | --- | --- | --- | ---
SF11 | 600g | MUR-885-0604E | £18.03 | £14.42
SF16 | 625g | MUR-885-0601B | £19.73 | £15.78
SF8 | 420g | MUR-885-0620M | £17.97 | £14.38

Welding Helmets

ESAB Eye-Tech® - The Original Automatic Welding Helmets

Arc welding generates visible light as well as harmful radiation in the infra red and ultra violet, which can damage eyes and skin. To be protected from harmful radiation, the welder will need full protection in the form of a helmet or hand screen, with eye protection provided by shaded filter lenses. Eye-Tech helmets are based on an accomplished ergonomic design and using the skills of modern, advanced electronics. They are comfortable and safe, which increases the possibilities of achieving higher productivity and quality. No on or off switches, powered by solar cells. Adjustable for head size with five settings.

Viewing area: 98mm x 40mm.

Switching time from light to dark: <0.0005 sec. (0.5ms).

Switching time from dark to light: approx. 0.4 sec.

Operating temperature: -5°C to +55°C.

Standards:

DIN/CE/ANSI/CSA

The darkness of the 9/13 eyeshade is continuously adjustable, 10/11 and 10/12 both have two darkness settings.

Type: S903N

(Helmet not included).

SF11

SF8

Martindale Welding Shields

Lightweight with integrated flip-up window with robust spring mechanism. Comply to EN175.

Type: S904N

Eye-Tech 5-13

The new Eye-Tech 5-13 has all the advantages and reliability of the traditional Eye-Tech with the following improvements and is suitable for arc, MIG, TIG (shade 9 to 13) and oxy-acetylene welding applications (shade 5 to 9). Clear View facility for cutting and grinding without the removal of the helmet - by a press of the main button the lens will remain clear for 10 minutes, a red warning light will flash inside the helmet to warn the wearer that they are in grinding mode. The lens has a sliding sensor bar instead of a removable one. Heat reflective metallic silver finish.

The darkness of the 5-13 eyeshade is continuously adjustable over two ranges; 5 - 9 and 9 - 13.

Type: S904N

Eye-Tech Spare Cover Lenses

Inner magnifying lenses, fresh air unit, head band kits, sweat bands, ear defenders and spare parts are also available on request.
Ideal protection against UV & IR radiations, flying particles, metal fumes and dusts emitted during welding and associated processes. A blower powered by a rechargeable battery draws ambient air through a fine particulate filter and ventilates the helmet with clean air. Fitted with both a visible and audible alarm which tells the operator if the filter is blocked or the battery is low. The face seal used is made from a knitted, soft, flame retardant material. A comfortable flame retardant waist belts through a leather lumbar support which fits the system to the user’s body. The smart electronics provide a constant airflow rate of 150 l/min, regardless of battery charge and filter loading and keeps a permanent overpressure in the helmet to avoid the penetration of pollutant. Maximum safety with dual alarm indicators — audible and visible — which indicate a clogged or missing filter or low battery charge. Short air duct attached to helmet decreases the risk of snagging upon surrounding structures in 3D constructions. The supply hose is equipped with a flame resistant protective sleeve.

Special air distribution: Thanks to the special interior mask of the Optrel helmet, the welders can choose between two different air distributions in the helmet. On the one hand, the welder can close the adjustment nozzle and therefore 100% of the air is directed to the mouth area. For a cooling effect, the welder can open the adjustment nozzle which causes the air flow to be directed to the forehead as well as in the mouth area.

Specifications (Helmet)

Shade level setting: 2 shade level ranges:
Eye protection: Maximum UV & IR protection at any shade setting.
Switching time:
Light to dark: 0.2ms at room temperature.
Dark to light: 0.1 ms at 55°C.
Switching delay dark to light:
Slow: 0.3 - 0.6s.
Fast: 0.1 - 0.35s.
Power supply: Solar cells, no on/off switch necessary.
Operating temperature: -10°C to 70°C.
Total weight: 570g.
Cartridge size: 90 x 110 x 7 mm.
Warranty: 2 years.

Specifications (blower)

Protection level classification: TH2.
Nominal Protection Factor (NPF): 50.
Blower unit flow rate: min. 150 l/min controlled.
Material: Polyamid (PA-GF).
Fan: High quality ball bearing fan motor.
Weight: 1350g (blower incl. filter and standard battery).
Noise: Max. 70 dB(A).
Alarms: Optical and audible alarms for low battery charge, low air flow, missing filter.
Filter: 1 x typ P3 (TH2P).
Hose length:
Standard battery: 1100mm.

Attention: The OS 100 respiratory system must NOT be used in environments where there is an immediate danger to health or life (IDLH), or in atmospheres containing less than 17% oxygen. It is NOT evaluated as an ignition source in flammable or explosive atmospheres. The OS 100 must NOT be worn as protection against gases or vapours.

Specifications:

Model: Satellite Electric Helmet supplied with OS100 Respirator.

Welding Helmet

Galaxy 1004.050
High-quality auto darkening cartridge and a highly resisting helmet shell. The shell is designed to protect the welder securely from spatters and particles. The cartridge with the shade level range 9 - 13 allows work in a broad range of applications and amperages. For use in all electrical welding processes except laser welding. Restriction: TIG - welding with a broad range of applications and amperages. For use in all electrical welding processes except laser welding.

Specifications:

Model: Galaxy 1004.050
Protection: UV/IR - Rays.
Switching time:
Dark to light: 0.3s @ room temp.
Light to dark: 0.4 ms @ room temp.
Viewing area: 38 x 98mm.
Operating temp.: -10°C to +70°C.
Total weight: 480g.

Welding Helmet

Mira Galaxy Black 1004.050
European directives: 89/686/EEC.
Specifications:

Model: Mira Galaxy Black 1004.050
Shade level: 3 - 11.
Protection: UV/IR - Rays.
Switching time:
Dark to light: 0.3s @ room temp.
Light to dark: 0.4 ms @ room temp.
Viewing area: 38 x 98mm.
Scattered light: 2.
Homogeneity: 1.
Operating temp.: -10°C to +70°C.
Total weight: 460g.

Price/1

£14.30

£2.19

£4.14

£613.60

£99.23

£114.84
EN12477 - Welding Gloves

Safety standard EN12477 defines relevant requirements and test methods for protective gloves for use in manual metal welding and allied processes. Under this standard, all gloves to be used for welding must be independently tested and certified by an official notified body, and must meet certain performance levels.

EN12477 Minimum Performance Levels for Welding Gloves

TEST: TYPE A TYPE B

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<th>MECHANICAL</th>
<th>TYPE A</th>
<th>TYPE B</th>
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<td>Level 1</td>
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<td>Blade Cut Resistance</td>
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EN407 THERMAL

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<tr>
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<tr>
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EN1149-2 ELECTRICAL SAFETY

| Test for Welders | 10 ohms | 10 ohms |

Rhino Reinforced Welder’s Gauntlet

De-Luxe

Constructed from top quality ‘A’ grade cow split leather (average thickness 1.3mm). This glove is of the very highest standard in protection and comfort, being fully sewn with Kevlar® and having the additional benefits of a 4mm foam lining together with a spark resistant fleece lining, resulting in extra comfort and added protection.

CE approved to EN12477 (new standard supersedes EN407, EN388, EN420 & EN1149-2).

Size 11.

Tig Gauntlet

Ultima Superior

Constructed from soft high quality nappa leather for the palm, and stiffer red cow split leather for the 15cm cuff, this Tig welding glove benefits from having fewer stitched seams than most, which results in extra durability, more comfort, and a higher level of dexterity.

CE approved to EN12477 (new standard supersedes EN407, EN388, EN420 & EN1149-2).

Size 10

Reinforced Welder’s Gauntlet

Ultima Superior

Constructed from top quality ‘A’ grade cow split leather (average thickness 1.3mm), this glove is of the very highest quality, with all seams being fully sewn with Kevlar® and fully welted for added durability, and benefiting from the extra protection offered by a palm and thumb reinforcement.

CE approved to EN12477. (New standard supersedes EN407, EN388, EN420 & EN1149-2).

Size 11
### Welding Gloves

#### Reversible Welders Gauntlet
Reversible (Ambidextrous) lined, green welders gauntlet, type A.
CE approved to EN12477. EN388. EN407.

Size: 10.5

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#### Welder’s Heavy Duty ‘Hurricane’ (Blue)
Manufactured from selected cow-shoulder split leather. With cotton jersey hand lining and woven cotton drill cuff lining. Reinforced construction designed to resist abrasion and tearing.
CE approved to: EN407. EN388. EN420.

Size: 10.

<table>
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<th>Size</th>
<th>Weight per Pr</th>
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#### Welder’s Standard ‘Hurricane’ (Red)
Manufactured from selected cow-shoulder split leather. With cotton jersey hand lining and woven cotton drill cuff lining. CE approved to EN407.

Size: 10.

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<th>Size</th>
<th>Weight per Pr</th>
<th>Order Code</th>
<th>List Price/Pr</th>
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#### Welder’s Heavy Duty ‘Hurricane’ (Blue)
Manufactured from selected cow-shoulder split leather. With cotton jersey hand lining and woven cotton drill cuff lining. Reinforced construction designed to resist abrasion and tearing.
CE approved to: EN407. EN388. EN420.

Size: 10.

<table>
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<th>Size</th>
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<td>HUR-961</td>
<td>£4.39</td>
<td>£3.69</td>
<td>£3.51</td>
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#### Chrome Leather Tig Welder’s Gloves
Nappa palm leather hand with a 15cm chrome leather cuff. Offers user comfort combined with high sensitivity and superb economy.
CE approved to: EN407, EN388, EN420.

Size: 10.

<table>
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<th>Size</th>
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<th>Order Code</th>
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#### Heat Resistant MIG Fit

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**All Gloves Priced Per Pair**

**Combine Price Available for Volume Purchases**
GROUP
885 PROTECTIVE CLOTHING

Welders Caps
Comfortable, durable and washable welders caps. Double stitched construction with absorbent cotton sweat band. Can be worn with the peak to the rear when a screen is used. New improved version with taped, reinforced internal seams for extra durability and improved comfort.

Chrome Leather Welder’s Clothing
A range of economically priced rugged workwear manufactured from high quality selected chrome leather. Spatter resistant and tear resistant. The full range offers head to toe protection against weld spatter and grinding sparks. Suitable for use in workshops, foundries and on site.

Aprons
Generous fit for full torso and upper leg protection against weld spatter and grinding sparks, whilst offering freedom of movement for the wearer. All seams have heavy duty stitching for durability and extended wear. Available in a choice of tie or buckle fastening.

CE approved to EN470-1 CAT II.

Jackets
Stud fastening jacket for full neck to waist protection against weld spatter and grinding sparks. With external side pocket, neck is lined with soft split leather for extra comfort. All seams have heavy duty stitching for durability and extended wear.

CE approved to EN470-1 CAT II.

Sleeves
Can be used independently or in conjunction with an apron or other garment to offer optimum protection of the lower arm and elbow. With elasticated openings. All seams have heavy duty stitching for durability and extended wear. One size. CE approved to EN470-1 CAT II.

Gaiters
For wearing over workshoes to protect against weld spatter and grinding sparks. With Velcro fastening on back of calf and buckle adjustment around shoe. Double stitched and riveted seams for extra heavy duty use. Size: W x L 35cm. CE approved to EN470-1 CAT II.

Welders ‘Kromer’ Caps
Genuine American all cotton. Comfortable, durable and washable welders caps. Double stitched construction with absorbent cotton sweat band. Can be worn with the peak to the rear when a screen is used.

Welder’s Hoods
Proban™ 100% Cotton Flame Retardant Welder’s Hoods
Flame retardant 100% cotton fabric for wearing beneath helmets to give maximum protection against flame, weld spatter and grinding sparks and improved operator comfort. With velcro fastening below chin.

All Prices Exclude V.A.T. © 2009
Portable Fume Extractors

Lightweight and portable. For extraction of weld fume and dust before they reach the workers breathing space. Suitable for maintenance, and other temporary work. By fitting the suction hose on to the outlet the unit can be converted to a blower. Each unit is supplied with 5m x 102mm diameter suction hose, 5m x 160mm exhaust hose, reducer and hose clips. Power lead is supplied separately (BS4343).

Additional hoses, double adaptors and reducers are also available on request.

Dimensions (D x W x H): 430 x 484 x 550mm.

Five year warranty.

Extraction Filter System

FilterCart™ Original

The unique FilterCart™ design has improved on these new models. Superior stability and handling due to large wheels and slim design. The different models are designed to meet individual needs, such as technical use, better economy or fulfilling health legislations. FilterCart™ Original has the best performance when it comes to welding applications. The integrated spot light optimises the user-friendly design. If a larger working range is needed, the FilterCart™ Original can be delivered with 3m long arm.

- Airflow in the arm: up to 1050 m³/h.
- Arm diameter: 160mm.
- Noise level: 73dB(A).
- Filter efficiency: ≤ 99%.
- Filter area: 35m².

Fume Eliminators

The Portable Filter Solution for Welding Fumes

Captures the hazardous fumes before they reach the welders breathing zone. Pre-separator, particle filter and fan, all packed into one handy case of only 16kg. Large capacity filter which captures 99.7% of the welding fume particles. The FE 841 features automatic start/stop action and ‘full filter’ indicator.

FE 840/841 is the ideal solution for welding fume extraction where traditional evacuation is not possible. The units are very easy to bring along for service jobs in the field, as well as for welding inside containers or metal tubes where the constraint on the welder normally is high.

FE 840 has a manual on/off switch, the FE 841 has an automatic on/off function sensing when the welding begins. After the welding is completed, the unit keeps running for 5 - 25 seconds. This time delay can be adjusted to suit the actual situation.

The FE 841 is also equipped with a ‘full filter’ indicator.

- Voltage 230V 50/60Hz.
- Power 1000W.
- Airflow (with 2.5m hose) 150m³/h.
- Maximum vacuum: 22kPa.
- Filtration efficiency: 99.7%.
- Sound level: 73 dB(A).
- Dimensions (L x W x H): 830 x 230 x 410mm.

Price List

**Fume Extractors**

<table>
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<th>Model</th>
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**Fume Eliminators**

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**Accessories**

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**Product Description**

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**Product Type**

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**Hardware**

Accessories

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**Hardware**

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<td>-1860A</td>
<td>£154.00</td>
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**CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES**
GROUP
SWI
885 DRYING OVENS

The efficiency of welding electrodes can be seriously impaired if the electrode coating is exposed to a damp environment. Dampness can cause water to be generated in the arc shield, which could adversely effect the running quality of the electrode by promoting excessive spatter and ultimately the quality of the weld by creating porosity and piping. SWP offer you a range of drying ovens to suit many locations and needs.

High Temperature Baking Oven

1126
The high temperature baking oven is robustly made. Solid state controls give accurate temperature control over a range of 0 - 500°C. Visual indication of temperature is given by means of a digital display on the temperature controller. Temperature settings are digitally set. Chart recorder optional.
Voltage: 110V
Load: 3000W
Dimensions (W x D x H):
Internal: 470 x 470 x 470mm
External: 600 x 685 x 760mm
Oven capacity: 93kg
Oven weight: 10kg

Portable Drying Oven

1122 Dual Voltage
The portable drying oven is designed to operate in rugged site conditions, thermostatically controlled over a temperature range of 100 - 300°C.
Voltage: 110/240V (Dual)
Load: 3000W
Dimensions (W x D x H):
Internal: 470 x 470 x 470mm
External: 600 x 685 x 760mm
Oven capacity: 93kg
Oven weight: 77kg

Stationary Drying Oven

1124
The stationary drying oven is robustly made, thermostatically controlled over a temperature range of 100 - 300°C.
Voltage: 110V
Load: 1500W
Dimensions (W x D x H):
Internal: 465 x 480 x 465mm
External: 530 x 620 x 620mm
Oven capacity: 93kg
Oven weight: 42kg

Dual Voltage Drying Oven

1120
High temperature, dual voltage drying oven that is thermostatically controlled over a temperature range of 0 - 350°C.
Voltage: 110/240V (Dual)
Load: 3000W
Dimensions (W x D x H):
Internal: 470 x 470 x 470mm
External: 600 x 685 x 760mm
Oven capacity: 93kg
Oven weight: 77kg

Heated Electrode Quiver

1141
The heated electrode quiver is designed for use on installations with a 110 volt or 240 volt supply. The quiver will maintain an even temperature of 100°C approx. dependent on the amount of electrodes stored.
Voltage: 110/240V
Load: 150W
Overall dimensions:
120 x 500 x 110mm
(W x D x H)
Oven capacity: 9kg
Oven weight: 3kg
FOR MILD STEEL & C-Mn STEEL

**1.0mm supplied in a 15kg drum.**

*Supplied in a 15kg drum.

BS 2901/1 : 1983 A18 & BS EN 440 G3 Si1. For welding mild steel and C-Mn steels.

*For welding mild steel and C-Mn steels. Copper coated, double deoxidised with manganese and silicon with good mechanical properties. For use with CO2 and Ar-CO2. Made to BS 2901/2: 1990. 316S93 - 0.8mm-2008G £18.50 £19.15

0.7kg Mini Reels

Wire Reels

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0.5kg Reels

Use with CO2 or Ar-CO2 shielding gas. *Precision layer wound for positive snag free feeding.

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<th>Wire Diameter</th>
<th>Order Code</th>
<th>List Price/1</th>
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<tr>
<td>A18100-0.7</td>
<td>1.0mm</td>
<td>-1900K</td>
<td>£14.33</td>
<td>£17.32</td>
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</tbody>
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15kg Reels

Use with CO2 or Ar-CO2 shielding gas.

<table>
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<tr>
<th>Product Number</th>
<th>Wire Diameter</th>
<th>Order Code</th>
<th>List Price/1</th>
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<td>A18120-15.0</td>
<td>1.2mm</td>
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<td>£25.90</td>
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**Flux Cored Gasless Wire**

General purpose Mig wire with ‘self-shielding’ flux core, allowing it to be used without the need for a separate Shielding Gas. Designed and packaged specifically for use on Kennedy ‘Dual’ Mig welders, Mini Migs, Migmate etc. For welding mild steel and C-Mn steels such as boilers, tanks, pipework, machinery, vehicle chassis fabrication and shipbuilding. 0.7kg and 5.0kg reels are random wound. Both sizes are designed and packaged for use on Kennedy ‘Dual’ Mig welders, Mini Migs, Migmate etc. Use with CO2 or Ar-CO2 shielding gas.

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**FOR STAINLESS**

**Carbofil 316LSi**

Gas shielded, deposits C — 1.3% Mn low C - 19% Cr-12% Ni — 2.5% Mo-0.8% Si weld metal for 316 and 316L stainless. High Si level provides improved weld bead shape and appearance with excellent toe blending, particularly in fillet welding. Provides good resistance to pitting and crevice corrosion by non-oxidising acids. Use where temperatures do not exceed 400°C. With Ar-O2, Ar-He-CO2 - and Ar-CO2 shielding gases. Made to BS 2901/2: 1990. 316LSi. ASWE SFA-5.9, ER316LSSi. AWG A5.9-93.

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<tr>
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<td>1.0mm</td>
<td>-1900K</td>
<td>£14.33</td>
<td>£17.32</td>
</tr>
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</table>

**Carbofil 308LSi**

Gas shielded, deposits C — 19% Cr — 9% Ni weld metal for welding 304 and 304L stainless steel. Provides good general corrosion properties to inter-granular attack from a range of liquid chemical media at service temperatures up to 3005°C. Use with Ar-O2, Ar-He-CO2 and Ar-He-CO2- O2 shielding gases. Precision layer wound for positive uninterrupted feeding.

<table>
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<th>Order Code</th>
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<td>£25.90</td>
<td>£30.30</td>
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<td>1.2mm</td>
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**FOR MIG WIRE GROUP 887**

WELDING WIRE

**L1 Mig Wire Reels**

Gas shielded, deposits C — 1.3% Mn weld metal for mild and medium tensile steels. Copper coated, double deoxidised with manganese and silicon with good mechanical properties. For use with CO2 and AR-CO2. Made to BS 2901/1 : 1983 A18 & BS EN 440 G3 Si1. For welding mild steel and C-Mn steels. *Supplied in a 15kg drum. *1.0mm supplied in a 18kg drum.

**Stainless Steel Mig Wire**

**Carbofil 316LSi**

Gas shielded, deposits C — 1.3% Mn low C - 19% Cr-12% Ni — 2.5% Mo-0.8% Si weld metal for 316 and 316L stainless. High Si level provides improved weld bead shape and appearance with excellent toe blending, particularly in fillet welding. Provides good resistance to pitting and crevice corrosion by non-oxidising acids. Use where temperatures do not exceed 400°C. With Ar-O2, Ar-He-CO2 - and Ar-He-CO2- O2 shielding gases. Precision layer wound for positive uninterrupted feeding.

Made to BS 2901/2: 1990. 316S93 - 0.8mm-2008G £18.50 £19.15

0.7kg Mini Reels

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<tr>
<th>Product Number</th>
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0.5kg Reels

Use with CO2 or Ar-CO2 shielding gas. *Precision layer wound for positive snag free feeding.

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15kg Reels

Use with CO2 or Ar-CO2 shielding gas.

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Contract Prices Available for Volume Purchases

All Prices Exclude V.A.T. © 2009
**Welding**

**Aluminium Mig Wire Reels**

*Designed and packaged for “spool-on” Guns. Also compatible for use on Kennedy ‘Dual’ Mig welders, Mini Migs, Migmates etc. for aluminium alloys. For use with Ar or Ar-He shielding gas. Random wound.*

**Carbofil 1 Mig Wire Reels**

*Gas shielded, deposits C — 1.3% Mn weld metal for mild and medium tensile steels. Copper coated, double deoxidised with manganese and silicon with good mechanical properties. For use with CO₂ and AR-CO₂. Made to BS 2901/1 : 1983 A18 & BS EN 440 G3 Si1. For welding mild steel and C-Mn steels.*

**SIF MIG**

*Made to BS 2901/1 : 1983 4043A & AWS A5.10-92 ER 4043. For wrought and cast alloys with up to 7% silicon content.*

**Al-Mg 5%**

*Made to BS 2901/1 : 1983 5356 & AWS A5.10-92 ER 5356. For plate, pipe tube, forgings and cast alloys with up to 5% magnesium content and for welding dissimilar aluminium grades.*

---

**PRODUCT WIRE ORDER CODE LIST**

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**Aluminium Mig Wire Reels**

*For use with Ar or Ar-He shielding gas. Precision layer wound.*

**SIF MIG**

*Made to BS 2901/1 : 1983 5356 & AWS A5.10-92 ER 5356. For wrought and cast alloys with up to 5% magnesium content and for welding dissimilar aluminium grades.*

**Al-Mg 5%**

*Made to BS 2901/1 : 1983 5356 & AWS A5.10-92 ER 5356. For plate, pipe tube, forgings and cast alloys with up to 5% magnesium content and for welding dissimilar aluminium grades.*

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**Aluminium Mig Wire Reels**

*For use with Ar or Ar-He shielding gas. Precision layer wound.*

**SIF MIG**

*Made to BS 2901/1 : 1983 4043A & AWS A5.10-92 ER 4043. For wrought and cast alloys with up to 7% silicon content.*

**Al-Mg 5%**

*Made to BS 2901/1 : 1983 5356 & AWS A5.10-92 ER 5356. For plate, pipe tube, forgings and cast alloys with up to 5% magnesium content and for welding dissimilar aluminium grades.*

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**Aluminium Mig Wire Reels**

*For use with Ar or Ar-He shielding gas. Precision layer wound.*

**SIF MIG**

*Made to BS 2901/1 : 1983 4043A & AWS A5.10-92 ER 4043. For wrought and cast alloys with up to 7% silicon content.*

**Al-Mg 5%**

*Made to BS 2901/1 : 1983 5356 & AWS A5.10-92 ER 5356. For plate, pipe tube, forgings and cast alloys with up to 5% magnesium content and for welding dissimilar aluminium grades.*

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</table>
**Electrodes for Mild Steels 6013**

Arc welding rods for mild steel and medium tensile steels.

Medium rutile coated, all positional rods.

Applications: for steel plate and strip including structural steels and pipe work, especially under site conditions.

Superb finish with self-releasing slag.

N.B. Suitable for AC (50V minimum open circuit) and DC +/-.

**Murex 6013**

High quality rutile coated, all positional rods.

Applications: for steel plate and strip including structural steels and pipe work, especially under site conditions. N.B. Suitable for AC welding.

**Recommended Amperages**

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>No of Rods (per Pk)</th>
<th>Weight (per Pk)</th>
<th>Price/Pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inox 6013</td>
<td>2.0*</td>
<td>310</td>
<td>5.30kg</td>
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<td>3.2</td>
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<td>£63.40</td>
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<td>5.0</td>
<td>80</td>
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<td></td>
<td>6.0</td>
<td>60</td>
<td>7.70kg</td>
<td>£47.57</td>
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</table>

**Murex Tungsten Electrodes**

2% Thoriated, Colour Coded Red

Designed for DC (Neg) or straight polarity use. Maintain a sharp tip configuration during welding. Suitable for use with steels, nickel alloys and most alloys other than aluminium and magnesium. Not for AC welding.

2% Ceriated, Colour Coded Grey

Designed for welding with DC or AC. Gives easy starting characteristics, good arc stability, high current capacity and lack radio-activity.

0.8% Zirconiated, Colour Coded White

For AC welding of aluminium and magnesium alloys. Combine the ability to maintain stable arc and balled end along with high current capacity and good arc starting characteristics.

**Tungsten Electrodes**

2% Thoriated, Colour Coded Red

Designed for DC (Neg) or straight polarity use. Maintain a sharp tip configuration during welding. Suitable for use with steels, nickel alloys and most alloys other than aluminium and magnesium. Not for AC welding.

2% Ceriated, Colour Coded Grey

Designed for welding with DC or AC. Gives easy starting characteristics, good arc stability, high current capacity and lack radio-activity.

0.8% Zirconiated, Colour Coded White

For AC welding of aluminium and magnesium alloys. Combine the ability to maintain stable arc and balled end along with high current capacity and good arc starting characteristics.

**Electrodes for Mild Steel**

Inox DW (‘29.5’R) All positional rods. Rutile coated. Ideal for maintenance and repair of difficult-to-weld steels such as air hardening carbon steel.

Applications: for maintaining agricultural equipment, wearplates and the repair of components of unknown and dissimilar steels. N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

**Recommended Amperages**

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>No of Rods (per Pk)</th>
<th>Weight (per Pk)</th>
<th>Price/Pk</th>
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<tbody>
<tr>
<td>Inox DW</td>
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<td>3.7kg</td>
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<tr>
<td></td>
<td>3.2</td>
<td>38</td>
<td>4.3kg</td>
<td>£20.02</td>
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### Electrodes for Mild Steels

**Fincord 6013**
- Heavy rutile coated electrode suitable for downhand butt and fillet welding.
- Superb finish with self-releasing slag.
- Applications: for steel plate and strip including structural steels.
- N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

### Recommended Amperages

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<thead>
<tr>
<th>Size (mm)</th>
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<th>2.5</th>
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<td>100A</td>
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<td>Price/Pk</td>
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</table>

**Fincord M 6013**
- Medium rutile coated, all positional rods. Minimum spatter.
- Applications: for steel plate and strip including structural steels.
- N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

### Recommended Amperages

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<th>Size (mm)</th>
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<th>4.0</th>
<th>5.0</th>
<th>6.0*</th>
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<td>80A</td>
<td>120A</td>
<td>160A</td>
<td>220A</td>
</tr>
<tr>
<td>Max.</td>
<td>60A</td>
<td>90A</td>
<td>130A</td>
<td>180A</td>
<td>240A</td>
<td>290A</td>
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<td>Price/Pk</td>
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**Overcord Z E6013**
- Medium rutile coated, all positional rods.
- Applications: for steel plate and strip including structural steels and pipe work, especially for positional welding and under site conditions.
- N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

### Recommended Amperages

<table>
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<tr>
<th>Size (mm)</th>
<th>2.0</th>
<th>2.5</th>
<th>3.2</th>
<th>4.0</th>
<th>5.0*</th>
<th>6.0*</th>
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</thead>
<tbody>
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<td>Max.</td>
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</table>

**Zodian Universal 6013**
- Medium rutile coated, all positional rods.
- Applications: for steel plate and strip including structural steels and pipe work, especially under site conditions.
- N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

### Recommended Amperages

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<thead>
<tr>
<th>Size (mm)</th>
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<th>3.2</th>
<th>4.0</th>
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**Murex**

**Murex 6013**
- Heavy rutile coated electrode suitable for downhand butt and fillet welding.
- Superb finish with self-releasing slag.
- Applications: for steel plate and strip including structural steels.
- N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

### Recommended Amperages

<table>
<thead>
<tr>
<th>Size (mm)</th>
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**Zodian Universal 6013**
- Medium rutile coated, all positional rods.
- Applications: for steel plate and strip including structural steels and pipe work, especially under site conditions.
- N.B. Suitable for AC (50V minimum open circuit) and DC+/-.

### Recommended Amperages

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<th>Size (mm)</th>
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**KENNEDY Electrodes** for Mild Steels

E7018 ('Low Hydrogen')

Basic coated, all positional rods. Applications: for steel plate structural steels, pipe work and forgings. Ideal for repairs of casting and machinery, compensate for dilution effect of poor steels. Often used where rutile deposits may be at risk from cracking.

N.B. Suitable for AC (70V minimum open circuit) and DC+. Optimum rooting operability is obtained using DC.

---

**Electrodes for Mild Steels**

**Supercito 7018S** ('Low Hydrogen')

Basic coated, all positional rods. Applications: for steel plate structural steels, pipe work and forgings. Ideal for repairs of casting and machinery, compensate for dilution effect of poor steels. Often used where rutile deposits may be at risk from cracking.

N.B. Suitable for AC (70V minimum open circuit) and DC+. Optimum rooting operability is obtained using DC.

---

**Recommended Amperages**

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>2.5</th>
<th>3.2</th>
<th>4.0</th>
<th>5.0*</th>
<th>6.0*</th>
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<td>130A</td>
<td>180A</td>
<td>240A</td>
<td>330A</td>
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**Electrodes for Stainless Steels**

**Supranox 316L**

Extra low carbon, acid-rutile coated electrodes for 316 and 316L austenitic stainless steels. Applications: for stainless plate structural steels, pipe work and vessels. Ideal for food industry, chemical, pharmaceutical and processing plant fabrications.

N.B. Suitable for AC (70V minimum open circuit) and DC+.

---

**Recommended Amperages**

<table>
<thead>
<tr>
<th>Size (mm)</th>
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<th>2.0</th>
<th>2.5</th>
<th>3.2</th>
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**Stainless Steels Electrodes**

**Nicrex E312**

Nicrex E312 electrodes from Murex are highly alloyed stainless steel electrodes of unusual versatility. They deposit a ferritic/austenitic duplex weld metal with about 40% ferrite content. Typical applications include the welding of dissimilar steel combinations such as mild or low alloy steel to stainless steel, and the welding of spring steels, nickel steels and other hardenable steels.

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**Recommended Amperages**

<table>
<thead>
<tr>
<th>Size (mm)</th>
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<th>3.2</th>
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**Contract Prices Available for Volume Purchases**

All Prices Exclude V.A.T. © 2009
Sifbronze No.1 - BS1845 C2 1453 C2
General purpose brazing or bronze welding rod. Suitable for brazing and bronze-welding of sheet, tube and extruded sections in all types of fabrication work, involving steel, cast iron, copper and its alloys.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sifbronze</td>
<td>1.6</td>
<td>1.0kg</td>
<td>-6116R</td>
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</tr>
<tr>
<td>No.1</td>
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<td>-6124S</td>
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<tr>
<td></td>
<td>3.2</td>
<td>1.0kg</td>
<td>-6132T</td>
<td>£25.15</td>
<td>£20.12</td>
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Sifredicote No.1 - BS1845 & BS1453 C2
General purpose brazing or bronze welding rod. Suitable for brazing copper and steel. Melts at 875°C.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<tbody>
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<td>Sifredicote</td>
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<td>£36.80</td>
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Sifsteel No.11
Copper Coated Mild Steel - BS1453 A1
General purpose steel rod for high grade oxy-acetylene welding steel and wrought iron. Widely used for automobile, heating and ventilation industries. No Flux required. Melts at 1490°C.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<td>1.0kg</td>
<td>-8182T</td>
<td>£5.90</td>
<td>£4.72</td>
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</table>

Sifsteel A15 - BS2901 AWS ER:705-2
Copper coated triple deoxidised mild steel rod for Tig welding pipework etc. Particularly suited to Tig welding (with argon shielding gas) root runs in pipes. Can be used without flux for oxy-acetylene welding. Typical all-weld metal ultimate tensile strength 630N/mm².

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<tr>
<td>Sifsteel A15</td>
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<td>2.5kg</td>
<td>-8424D</td>
<td>£22.15</td>
<td>£17.72</td>
</tr>
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</table>

Aluminium Tig/Gas Welding Rods
Sifalumin No.15 - 5% Silicon
AWS A/SFA 5-10-88: ER 4043.
Suitable for welding a wide range of cast and wrought aluminium alloys (not magnesium alloys). Particularly suited to TIG welding (with argon shielding gas). Use with aluminium flux for oxy-acetylene welding.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<tbody>
<tr>
<td>Sifalumin</td>
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<td>1.0kg</td>
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<td>1.0kg</td>
<td>-5616J</td>
<td>£26.30</td>
<td>£21.04</td>
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Sifalumin No.27 - 5% Magnesium
BS 2901 : Part 4 : 1990 5356. (Tig rods).
AWS A/SFA 5-10-92: ER 5356.
Suitable for welding a wide range of cast and wrought aluminium alloys containing up to 5% magnesium. Particularly suited to TIG welding (with argon shielding gas).

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
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<th>Offer Price/Pk</th>
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<td>2.5kg</td>
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<td>£24.20</td>
<td>£19.36</td>
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Stainless Steel Welding Rods
Sifsteel Stainless 308L
Low carbon austenitic filler rod for welding steels of similar composition (18% Cr, 8%Ni). Use with argon shielding gas or argon/5% hydrogen.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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</thead>
<tbody>
<tr>
<td>Sifsteel</td>
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<td>1.0kg</td>
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<td>£19.60</td>
<td>£16.46</td>
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<tr>
<td>308L</td>
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<td>-4924N</td>
<td>£19.05</td>
<td>£16.00</td>
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Sifsteel Stainless 316L
Low carbon austenitic filler rod for welding steels of similar composition (19% Cr, 12% Ni, 3% Mo). Use with argon shielding gas or argon/5% hydrogen.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight Per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sifsteel</td>
<td>1.6</td>
<td>1.0kg</td>
<td>-5212C</td>
<td>£22.77</td>
<td>£19.77</td>
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<tr>
<td>316L</td>
<td>2.4</td>
<td>1.0kg</td>
<td>-5216D</td>
<td>£20.90</td>
<td>£17.56</td>
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<td></td>
<td>3.2</td>
<td>1.0kg</td>
<td>-5224E</td>
<td>£20.55</td>
<td>£17.26</td>
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</table>

Type       | Size (mm) | Weight Per Pk | Order Code | List Price/Pk | Offer Price/Pk |
<table>
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<th></th>
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<tbody>
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<td>Sifsteel</td>
<td>1.6</td>
<td>1.0kg</td>
<td>-5316H</td>
<td>£25.80</td>
<td>£22.48</td>
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<tr>
<td>316L</td>
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<td>-5312D</td>
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<td>1.0kg</td>
<td>-5324K</td>
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<td>£28.48</td>
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Price/Pk  £24.05  £19.24  £17.72

### Aluminium Tig/Gas Welding Rods
All rods 1 metre long. (All weights approximate).

**Saffire Aluminium - 5% Silicon - NE21**
AWS A/SFA 5-10-88: ER 4043.
Suitable for welding a wide range of cast and wrought aluminium alloys (not magnesium alloys). Particularly suited to Tig welding (with argon shielding gas). Use with aluminium flux for oxy-acetylene welding.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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</thead>
<tbody>
<tr>
<td>Saffire</td>
<td>1.6</td>
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<td>Aluminium</td>
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**Saffire Aluminium - 5% Magnesium - NE6**
BS 2901 : Part 4 : 1990 5356. (Tig rods).
AWS A/SFA 5-10-92: ER 5356.
Suitable for welding a wide range of cast and wrought aluminium alloys containing up to 5% magnesium. Particularly suited to Tig welding (with argon shielding gas). Use with aluminium flux for oxy-acetylene welding.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saffire</td>
<td>1.6</td>
<td>2.5kg</td>
<td>-9531L</td>
<td>£46.45</td>
<td>£37.16</td>
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<tr>
<td>Bronze</td>
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<td></td>
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<td>2.5kg</td>
<td>-9533N</td>
<td>£40.37</td>
<td>£32.30</td>
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</table>

### Stainless Steel Welding Rods
All rods 1 metre long. (All weights approximate).

**Saffire 18/8/3 Mo - 316L**
AWS A/SFA 5-9-93. ER316L.
Suitable for welding steels of similar composition (19% Cr, 12% Ni, 3% Mo). Use with argon shielding gas or argon/5% hydrogen.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<tr>
<td>Saffire</td>
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<td>5.0kg</td>
<td>-2918P</td>
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<td>£69.75</td>
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**Saffire 18/8/3 Mo - 316L**
AWS A/SFA 5-9-93. ER316L.
Suitable for welding steels of similar composition (19% Cr, 12% Ni, 3% Mo). Use with argon shielding gas or argon/5% hydrogen.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<tbody>
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<tr>
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<td>5.0kg</td>
<td>-3002B</td>
<td>£40.47</td>
<td>£32.38</td>
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</tbody>
</table>

### Steel Tig/Gas Welding Rods
All rods 1 metre long. (All weights approximate).

**Saffire Silicon Bronze - BS1453 C2** General purpose brazing or bronze welding. Deoxidised 60/40 copper/zinc alloy suitable for brazing and bronze-welding of sheet, tube and extruded sections in all types of fabrication work, involving steel, cast iron, copper and its alloys. Can also be used for Tig (AC) welding.

Melts at 875°C.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon</td>
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<td>£37.16</td>
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<td>2.5kg</td>
<td>-9532M</td>
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<td>£34.19</td>
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<td>2.5kg</td>
<td>-9533N</td>
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<td>£32.30</td>
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</table>

**Saffire Fluxobronze K - BS1453 C2** Low flux residue, self fluxing. General purpose brazing or bronze welding. Filler is impregnated with flux via the knurls of the core rod. For welding brass and brazing copper and steel. Melts at 875°C.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
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<td>2.5kg</td>
<td>-9410K</td>
<td>£45.01</td>
<td>£36.01</td>
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</tbody>
</table>

**Saffire Copper Coated Mild Steel**
General purpose steel rod for high grade oxy-acetylene welding of mild steel and wrought iron. Widely used for automobile, heating and ventilation. No flux required. Melts at 1490°C.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
</tr>
</thead>
<tbody>
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<td>£25.40</td>
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<tr>
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<td>5.0kg</td>
<td>-9504D</td>
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<td>£21.93</td>
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<td>£26.02</td>
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**Saffire Super Steel - EN1668 W2TI AWS ER70S-2**
Copper coated triple deoxidised mild steel rod for Tig welding, pipework etc. Particularly suited to Tig welding (with argon shielding gas) root runs in pipes. Can be used without flux for oxy-acetylene welding. Typical all-weld metal ultimate tensile strength 630N/mm².

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (mm)</th>
<th>Weight per Pk</th>
<th>Order Code</th>
<th>List Price/Pk</th>
<th>Offer Price/Pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saffire</td>
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<td>5.0kg</td>
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<td>£37.23</td>
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<tr>
<td>Super</td>
<td>2.4</td>
<td>5.0kg</td>
<td>-3002B</td>
<td>£40.47</td>
<td>£32.38</td>
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