

Welding

Section 9
Product Groups 860 - 891

Section 9 Contents



Description	Group	Page
Arc (MMA) Welders	880	1464 - 1469
Arc Welder Accessories & Spares	885	1491
Arc Welding Electrodes	888	1507 - 1509
Curtains	885	1490
Drying Ovens	885	1504
Fluids	885	1495
Fume Extractors	885	1503
Gas & Tig Welding Rods	891	1510 - 1511
Gas Torches & Blow Lamps	860	1458 - 1463
Gas Welding & Cutting Accessories	885	1487 - 1489
Gas Welding & Cutting Systems	885	1482 - 1486
Gloves	885	1500 - 1501
Goggles & Shields	885	1496
Helmets	885	1496 - 1499
MIG Welder Accessories & Spares	885	1492
MIG Wire	887	1505 - 1506
MIG/MAG Welders	880	1470 - 1475
Protective Clothing	885	1502
Plasma Cutters	880	1481
TIG Welders	880	1476 - 1480
TIG Welder Accessories & Spares	885	1493 - 1494

GROUP 860 GAS TORCHES & BLOW LAMPS

Bullfinch Standard Torch Handles Only

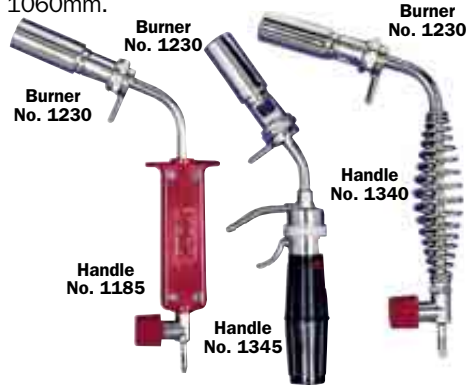
No.1185 With comfortable, flat nylon handle strong enough to withstand rough usage. With standard needle valve.

No.1185/01 As No. 1185 except hose inlet is replaced with 3/8" 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.



Product Number	Integral Hose End	Handle Weight	Order Code BUL-860	List Price/1	Offer Price/1
1185	4.8mm	210g	-1185L	£20.60	£19.57
1245	4.8mm	285g	-1245Z	£32.81	£31.17
1340	4.8mm	260g	-1340W	£20.65	£19.62
1345	4.8mm	800g	-1345X	£44.12	£41.91

Extension Tubes

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



Product Number	Length mm	Weight each	Order Code BUL-860	List Price/1	Offer Price/1
1112	305 (12")	150g	-1112D	£13.79	£13.10
1124	610 (24")	250g	-1124J	£16.79	£15.95
1140	1020(40")	400g	-1140K	£22.38	£21.26

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.



Product Number	Burner Adaptor	Weight each	Order Code BUL-860	List Price/1	Offer Price/1
1122	Twin (2)	170g	-1122G	£33.15	£31.49
1123	Trident (3)	250g	-1123H	£36.85	£35.01

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 should 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.

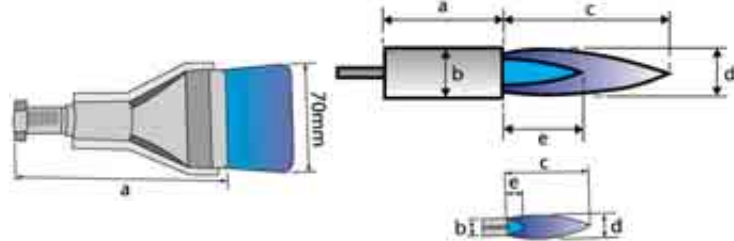
No.1240 More powerful general purpose flame.

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.



Product Number	Dimensions (mm)			Weight		Order Code BUL-860	List Price/1	Offer Price/1	
	Flame*	Burner		each					
1470	110	10	40	69	12	69g	-1470J	£13.05	£12.40
1472							-1472K	£13.05	£12.40
1473	300	25		32	22	92g	-1473L	£12.30	£11.69
1210	140	14	55	83	16	95g	-1210P	£11.25	£10.69
1220	155	21	80	83	19	100g	-1220Q	£11.55	£10.97
1230	185	28	85	88	25	135g	-1230W	£12.02	£11.42
1240	215	38	90	101	32	180g	-1240Y	£14.04	£13.34
1250	270	50	120	109	38	213g	-1250B	£14.29	£13.58
1260	350	62	155	110	48	222g	-1260C	£16.72	£15.88
1270	420	74	175	120	63	380g	-1270E	£18.86	£17.92

Notes: *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.

Standard Torch Kits

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

No.110P (Propane)
Contents: handle No.1185, burner No.1230, Tinyreg No.1041, 2.75M (9ft), HP hose No.1299, two 'O' clips No.1324.

No.140P (Propane)
Contents: handle No.1340, burner No.1230, Tinyreg variable regulator No.1051, 2.75M (9ft), HP hose No.1299, two 'O' clips No.1324.



Product Number	Weight each	Order Code BUL-860	List Price/1	Offer Price/1
110P		-0110P	£54.75	£52.01
140P		-0140E	£58.20	£55.29

High Pressure Gas Hose

Suitable for replacing damaged hose. 4.8mm bore. 1 metre length. Conforms to BS3212: 1991/2/4.8.

Product Number	Weight each	Order Code BUL-860	List Price/1	Offer Price/1
1299		-1299F	£1.71	£1.62



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.

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).



Product Number	Integral Hose	Handle End Weight	Order Code	List Price/1	Offer Price/1
2100	4.8mm		-2100K	£41.09	£39.04

Autotorch Propane Kits

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

No.200P Contents: handle No. 2100, burner No.2105, Tinyreg No.1041, 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.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
200P		-0200F	£89.36	£84.89
230P		-0230G	£93.22	£88.56

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).



Product Number	Integral Hose	Handle End Weight	Order Code	List Price/1	Offer Price/1
4100	4.8mm		-4100B	£44.01	£41.81

Regulators

No.4041 Brazing (not illustrated): Specially designed propane 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: 37m bar.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
4041		-4041A	£26.38	£25.06
330	350g	-0330J	£5.50	£5.22

Screwed Hose Connector

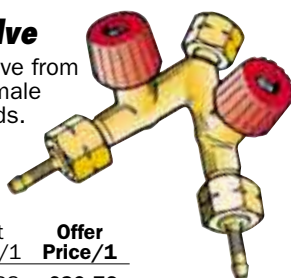
Bullfinch No.1021 screwed hose connector 3/8" BSP-LH female union x 4.8mm hose end.



Product Number	Integral Hose	Handle End Weight	Order Code	List Price/1	Offer Price/1
1021	4.8mm		-1021R	£2.14	£2.03

BSP Two Way Outlet Valve

The No.1263 two way outlet valve from Bullfinch has a 3/8" BSP - LH female union with two 4.8mm hose ends. Needle valves on each outlet. Gives two outlets off a Bijou regulator.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
1263		-1263D	£32.38	£30.76

Autotorch Burners (Burner Only)

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

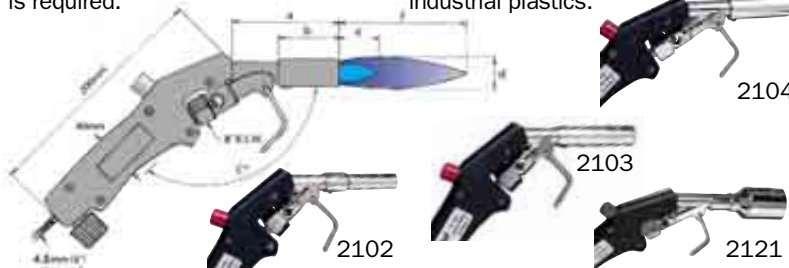
No.2102 Fine flame burner for localised heating.

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.



Product Number	Dimensions (mm)					Weight each	Order Code	List Price/1	Offer Price/1
	Flame*			Burner					
	d	e†	f	a	b	c	BUL-860		
2101	8	15	50	110	70	120	530g	-2101L	£25.44 £24.17
2102	13	40	125	110	70	120	530g	-2102M	£25.44 £24.17
2103	15	40	150	100	70	120	520g	-2103N	£25.44 £24.17
2104	18	45	150	100	50	135	580g	-2104P	£25.44 £24.17
2105	30	45	150	100	50	135	580g	-2105Q	£25.44 £24.17
2106	40	40	250	145	100	135	530g	-2106R	£25.44 £24.17
2121	54	24	290	132	90	135	614g	-2121V	£28.72 £27.28

Notes:

* 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.

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).

Regulator

Any of the Tinyregs or Bijou regulators. The No. 1051 variable Tinyreg for

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

Hose

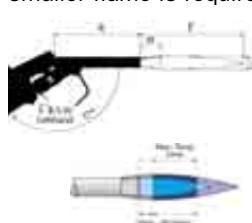
4.8mm high pressure hose to BS 3212/2 (No.1299) only must be used, with suitable hose clips.

Flashback Arrestors

These are NOT required for Bullfinch propane torches.

Autotorch Brazing Burners (Burner Only)

No.4103 giving the smallest, **No.4105** the largest, flames. The burners must be used at 4 bar pressure and should not be turned down. If a smaller flame is required a smaller burner must be used.



Flame Temperature

The hottest flame temperature zone begins approximately 12mm (1/2") 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.



Product Number	Dimensions (mm)					Weight each	Order Code	List Price/1	Offer Price/1
	Flame			Burner					
	d	e	f	a	c		BUL-860		
4103	15	20	110	110	135	534g	-4103C	£26.69	£25.36
4104	20	30	170	130	135	537g	-4104D	£26.69	£25.36
4105	30	40	220	145	135	546g	-4105E	£26.69	£25.36

Gas Supply & Regulator

The torch must be used with propane only at 4 bar pressure. We recommend the brazing regulator No.4041 which is already fitted to the kit.

Cylinders

Any standard propane cylinder.

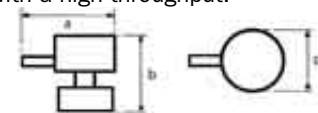
Hose

4 - 8mm high pressure hose to **BS 3212/2** (No. 1299) only must be used, with suitable hose clips.

Flashback Arrestors

These are NOT required for Bullfinch propane torches.

High performance high pressure regulators to **BS 3016**, operating over temperature range 20°C to +50°C. Tinyregs: **No.1051**. Any can supply enough gas for any single Bullfinch product. Tinyregs pre-set: No. 1041, Bijou: **No.1465**, and **No.1466** - High volume compact regulators for propane. Ideal for supplying two or more appliances and those with a high throughput.



Product Number	Output Bar	Hose End	Dimensions(mm)			Weight each	Order Code	List Price/1	Offer Price/1
			a	b	c				
1041	1	4.8	68	93	43	318g	-1041X	£19.90	£18.91
1051	0.35-2	4.8	68	115	43	330g	-1051A	£21.90	£20.80
1465	0.35-2	6.3, 8, 4.8	106	125	57	545g	-1465G	£27.50	£26.12
1466	1	6.3, 8, 4.8	106	105	57	480g	-1466H	£30.50	£28.98

GROUP 860 GAS TORCHES & BLOW LAMPS

BERNZOMATIC Gas Torches

Bernzomatic realise that most pipe fitting jobs are done at awkward angles. Therefore Bernzomatic have designed their entire range of torches with valve or regulator control to ensure they do not flare when tilted or inverted.

In order to ensure quality and safety Bernzomatic fire test every single torch that leaves the factory. They are the only manufacturer in the world that do this.

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.

This kit serves as the top of the range offering for mixed gas fuel and is ideal for most DIY heating applications as well as some utility pipe work: Lighting barbecues, loosening bolts, thawing pipes, bending plastics, removing labels, stripping caulk, sweating pipes, and light

soft-soldering. The internal pressure regulator and angled torch head design also make this product suitable for most soft-soldering connections from 3mm - 25mm. Polycarbonate ABS blend body. Precision brass pencil flame burn tip for targeted use. Precision machined brass valve for control. Patented fuel-vaporisation technology to help prevent flaring. Piezo-start fore-finger trigger for ease of use. Internally pressure regulated for constant and consistent all-weather performance. Plastic injection molded base to rest or stabilize the product. TUV/GS type approval and certification to European standard **EN 512**. Total Heat Output is 0.66 kW/hour *Measurement is done on test fuel of propane at 3 bar. Estimated burn time on full 330g mixed gas is 7 hours.

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 use in any outdoor condition.

The TS1000 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).

Product Number	Heat Output	Cylinder Size	Order Code	Offer Price/1
TS1000-E	0.66KW	330g	-8000A	£30.11



TS1100-E Trigger Start Torch Kit

Anti-flare design enabling safe use in all directions, Piezo ignition for ease of use. Ergonomic handle with forefinger groove for increased control and working accuracy. Increased air/fuel combination ensures increased duration of use and greater flame control.

Ideal for lighting barbecues, loosening bolts, thawing pipes, bending plastics, removing labels, stripping caulk, sweating pipes, and light soft-soldering. Soft-solder capacity with mixed gas is from 3mm - 19mm.

Polycarbonate ABS blend body and handle for comfort and ease of use. Precision brass general purpose (tri-lobular) burn tip for diverse jobs.

Precision machined brass valve for control. Stainless steel burn tube to prevent rust.

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.

*Measurement is done on test fuel of propane at 3 bar. Estimated burn time on full 330g mixed gas is six hours.

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).

Product Number	Heat Output	Cylinder Size	Order Code	Offer Price/1
TS1100-E	0.80KW	330g	-8020C	£22.07



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.

Precision brass pencil flame burn 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-vaporisation technology to help prevent flaring for use at any angle.

Plastic injection molded base to stand, rest, or stabilise the product. TUV/GS type approval and certification to European standard **EN 512**.

Total Heat output is .68 kW/hour.

*Measurement is done on test fuel of propane at 3 bar. Burn time on full 175g propane cartridge is 3.7 hours.

Product Number	Heat Output	Cylinder Size	Order Code	Offer Price/1
UL50-E	0.68KW	175g	-8450R	£15.06



Welding



ST1100-E Refillable Micro Flame Butane Torch

Includes tip for soldering and cutting. Also useful for cooking applications. Torch head has integral lighter. Adjustable small and accurate flame ideal for soldering and hobby work. Electronic repair. Removable solder tip. Torch head and gas supplied separately. Heat output 165 Watts.



Product Number	Description	Order Code	Offer Price/1
ST1100-E	Torch	-7500A	£30.82
-	60g Butane	-2310A	£3.38

Flame Spreader

Flame spreader plus for paint removal.



Description	Order Code	Offer Price/1
Flame Spreader	-3200A	£7.90

Gas Refills

Specifications: **Butane:** Temperature 0-1750°C (40-50 second solder). Suitable for jewellery, cooking and electric soldering.

Butane/Propane Mix: 1750°C-1850°C (25-35 second solder). Suitable for copper pipe soldering, paint stripping, bbq lighters and tile/label removal.



Type	Cylinder Size	Order Code	Offer Price/1
Butane	175g	-2050E	£2.54
	330g	-2100K	£3.82
Propane/Butane	175g	-6120C	£2.67
	330g	-6220L	£3.82

ROTHENBERGER

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 Number	Description	Order Code	Offer Price/1
3.5644X	Super-fire Brazing Torch	-3564G	£68.61

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.



Product Number	Description	Order Code	Offer Price/1
1365	Unilow Furnace	-1365Z	£108.10

BERNZOMATIC 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.



Product Number	Description	Order Code	Offer Price/1
PBLAN	Torch 190g Butane/Propane	-6310B	£15.06
		-6150F	£1.65

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

GROUP 860 GAS TORCHES & BLOWLAMPS



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 an angled burner for easier access to tighter spaces. **MT2055 Multi Purpose Gas Torch** Complete with 2175 cartridge and stabilising base.



Model Number	Type	Gas Type	Cartridge Size	Order Code GGs-875	List Price/1	Offer Price/1
MT2055	Torch	But/Prop	170g	-4425M	£8.50	£7.39

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 ergonomically moulded handle.

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.



Model Number	Type	Gas Type	Cartridge Size	Order Code GGs-875	List Price/1	Offer Price/1
AT2071	BlowLamp	But/Prop	170g	-2420R	£17.01	£14.80
GB2070	Blowlamp	But/Prop	170g	-3610H	£11.06	£9.62
GB2095	Blowlamp	Pierceable	190g	-3630K	£13.61	£11.84

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.



Model Number	Type	Gas Type	Cartridge Size	Order Code GGs-875	List Price/1	Offer Price/1
TP2062	Torch	But/Prop	170g	-7062V	£23.82	£20.72

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.



Model Number	Type	Gas Type	Cartridge Size	Order Code GGs-875	List Price/1	Offer Price/1
AP2010	Torch	But/Prop	350g	-2100M	£22.97	£19.98

Welding

GoGas INTERNATIONAL 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.



Model Number	Type	Gas Type	Cartridge Size	Order Code GGS-875	List Price/1	Offer Price/1
CB2075	Torch	But/Prop	170g	-3050D	£11.06	£9.62
CA2015	Torch	But/Prop	170g	-3010A	£21.27	£18.50

Gas Cartridges

Fitted with standard type threaded self-sealing valves. Conform with **BS EN 417**.



Model Number	Type	Gas Type	Cartridge Size	Order Code GGS-875	List Price/1	Offer Price/1
2150	Cartridge	Butane	50g	-1010A	£2.37	£2.06
2289	Cartridge	Butane	277g	-1100E	£2.62	£2.28
2175	Cartridge	But/Prop	170g	-1020B	£2.37	£2.06
2350	Cartridge	But/Prop	350g	-1150F	£2.85	£2.48
2190	Cartridge	But/Prop	190g	-1040D	£0.94	£0.82

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 Set AB2409
Sold separately



MT2000



Model Number	Type	Gas Type	Cartridge Size	Order Code GGS-875	List Price/1	Offer Price/1
MT2000	Torch	Butane	50g	-4400A	£17.01	£14.80
AB2409	Micro Torch Burner Set			-2018J	£8.50	£7.39

Burner Nozzles

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



AB2401

AB2404

AB2405

Model Number	Description	Order Code GGS-875	List Price/1	Offer Price/1
AB2401	DIY Paint Burner	-2010A	£4.25	£3.70
AB2404	Power Torch Paint Burner	-2013D	£2.54	£2.21
AB2405	Power Torch Fine Flame Burner	-2014E	£3.16	£2.75

Brazing Rods

For joining and repairing most metals. 'Retail' packed in reusable storage wallets.



Model Number	Application	Rod Size	Pack Qty	Order Code GGS-875	List Price/Pk	Offer Price/Pk
AR2422	Copper to Copper	250 x 2.0	4	-2221D	£1.69	£1.47
AR2423	Aluminium Repair	250 x 4.0	2	-2222E	£4.25	£3.70
AR2424	All Purpose	250 x 3.5	2	-2223F	£4.25	£3.70

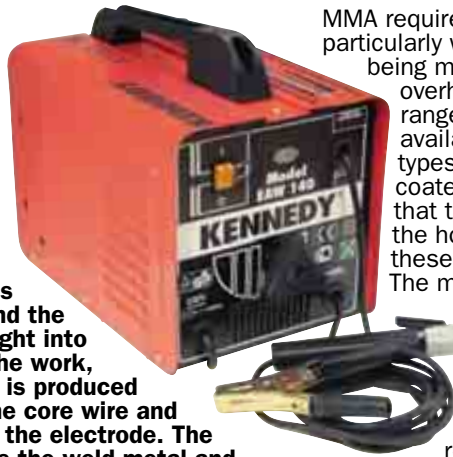
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Welding

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.

FOR WELDERS



GROUP
See 880

FOR ACCESSORIES



GROUP
See 885

FOR ELECTRODES



GROUP
See 888

FOR GAUNTLETS



GROUP
See 961

FOR ANTI-SPATTER



GROUP
See 732



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
300A 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/idle.

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 = $(250/200)^2 \times 35\% = 55\%$

Machine "B" has a known duty capability of 500A at 20%; what duty is possible at 350A?

Answer = $(500/350)^2 \times 20\% = 41\%$

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)

$$= \sqrt{(40\% \text{ of } (400)^2)}$$

$$= \sqrt{(40/100 \times 160,000)}$$

$$= \sqrt{64,000}$$

$$= 252A$$

So 400A at 40% duty as shown above has the same "heating effect" in the machine as 252A output continuously (100% duty).

Things to Remember about Duty Cycle:

- 100% duty means continuous
- Duty cycle is measured over 10-minute periods (EN 60974-1). Ratings based on 5-minute cycles are generally higher!
- Most manual welding achieves low actual duty cycles: e.g. MMA = 10% average max MIG = 40% average max
- Machines, specified as per EN 60974-1, can achieve their ratings at up to 400°C ambient. Normal UK ambients rarely exceed 250°C so there are generally good margins.
- 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.
- 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.

	Arc Equipment	Standard Automation
Machine Safety Directive	No	Yes
Low Voltage Directive	Yes	Yes (if electric)
Electro Magnetic Compatibility Directive	Yes	Yes (if electric)

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

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
T1G 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)

EMCD: EN 50199 Electromagnetic compatibility for arc equipment.

In addition to CE marking you can expect quality manufacturers to indicate on the product (rating plate), or its accompanying literature, which standards are applicable.

A Declaration of Conformity may be included in/with the instruction manual.

EN 50199

N.B. Compliance does not mean high frequency electricity from TIG machines is no longer a hazard, no levels have yet been set in this respect. It is not normally easy to tell whether or not a product complies but products impacted most seriously are inverters. Very significant mains filters are normally required in this type of machine which can be expected to make the machine larger and add cost.

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 limit of validity of an approved welding procedure.

Part 4. Arc Weld Test Procedure for Aluminium and its Alloys. As with Part 3 but for aluminium and its alloys.

Parts 5 - 8. Specifies how welding Procedure Approval can be obtained in ways other than those defined in Parts 3 and 4:

Part 5. By use of approved consumables. **Part 6.** By previous experience.

Part 7. By a standard Welding Procedure. **Part 8.** By Pre-Production Weld tests.

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 (two parts) is used throughout all member nations of the EEC.

Part 1. For steels. **Part 2.** For aluminium and its alloys.

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 even 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.

Areas of 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 trusses, 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.

GROUP 880 ARC (MMA) WELDERS

KENNEDY Lynx™ EAW-140 AC MMA Welder
QUALITY INDUSTRIAL TOOLING



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.

TURBO FAN COOLED

2 YEAR WARRANTY **LOW CURRENT**

For Electrodes



See Group 888

For Gauntlets



See Group 961

Product Number	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Lynx™ EAW140	40A - 140A	14.8kg	-2020K	£101.07	£75.80

Cheetah™ 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.



TURBO FAN COOLED **2 YEAR WARRANTY**

Product Number	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Cheetah™ EAW160	55A - 160A	17.4kg	-2040K	£126.00	£94.50

SIP 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.



NEW



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.

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.



Product Number	Model	Power Range	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
25000	T140P	45 - 140A	16kg	-7000M	£91.25	£78.47
25001	T160P	45 - 160A	18kg	-7001A	£114.45	£98.43
25002	T180P	50 - 180A	20kg	-7002B	£117.45	£101.01



MMA/Arc Professional Welders

200 amp welding power - Capable of utilising up to a 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.



NEW



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.



Product Number	Model	Power Range	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
25003	P210P	45 - 210A	27kg	-7003C	£200.25	£172.22
25004	P210PDV	45 - 210A	28kg	-7004D	£216.75	£186.41

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

GROUP 880 ARC (MMA) WELDERS

Heavy Duty MMA/Arc Welders

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 unflinching 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.



2 - 3 Days

Product Number	Model	Welding Current	Electrode Size	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
25006	1220P	40-190A	1.5-4.0	29kg	-7006F	£227.45	£195.61
25005	P250W	60-250A	2.0-5.0	38kg	-7005E	£299.90	£257.91
25007	1300W	45-300A	1.5-6.0	48kg	-7007G	£341.25	£293.48

OERLIKON AC Transformers

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.

Product Number	Description	Electrode Capacity
W000236626	ROKCY 3.2	2 - 3.2mm
W000236627	ROKCY 4.0	2 - 4.0mm
W000236628	ROKCY 5.0	2 - 5.0mm
W000011138	Weld Kit	-

UP TO 215A CURRENT

Description	Output Current Range	Weight	Order Code OER-880	List Price/1	Offer Price/1
ROKCY 3.2	40 - 160A	15.0kg	-6626D	£135.00	£121.50
ROKCY 4.0	40 - 190A	27.0kg	-6627E	£185.00	£166.50
ROKCY 5.0	40 - 215A	29.5kg	-6628F	£295.00	£265.50
Weld Kit	-	-	-6138B	£47.99	£43.19



NEW

Welding

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

NEW



150A CURRENT

Product Description	Current Range	Weight each	Order Code OER-880	List Price/1	Offer Price/1
Miniarc 4.0i	5A - 150A	3.8kg	-6940L	£340.00	£306.00

MUREX DC Inverter

Tradesarc 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.

180A CURRENT



Product Description	Current Range	Weight each	Order Code MUR-881	List Price/1	Offer Price/1
Tradesarc DC 180-1	4A - 180A	-	-8882C	£813.75	£732.38

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MIG/MAG Welding

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

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.



welding of carbon steel

due to its low cost and hence the process is often called the CO2 process.



FOR WELDERS



GROUP
See 880

FOR ACCESSORIES



GROUP
See 885

FOR MIG WIRE



GROUP
See 888

FOR GAUNTLETS



GROUP
See 961

FOR ANTI-SPATTER



GROUP
See 732

KENNEDY Panther™ EMW-120
QUALITY INDUSTRIAL TOOLING® **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.

Input voltage: 230V, 50/60Hz.

Fuse rating: 10A.

Phase: 1.

Power consumption: 3.6KW max. (1.3KW@60%).

Output current range: 50A - 120A (DC).

Open circuit voltage: 30V.

Dimensions: (L x W x H) 480 x 275 x 380mm.

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

Product Number	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Panther™ EMW120	50A - 120A	24.0kg	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.

Gas Type	Contents	Order Code	List Price/1	Offer Price/1
Argon	390g	KEN-885	£12.00	£9.60
CO ₁₂ /Argon	390g	-2200K	£12.00	£9.60
CO ₁₂	390g	-2220K	£12.00	£9.60

*Connection kit includes regulator, hose and connection fittings.

Description	Order Code	List Price/1	Offer Price/1
Regulator	KEN-884	£13.28	£10.62

PANTHER



READY TO WELD

TWIN ROLLER FEED **TURBO FAN COOLED**

LOW CURRENT **2 YEAR WARRANTY**

COMPATIBLE WITH BINZEL® B25 TORCH SPARES **GAS NO GAS**

Gas Bottles are Supplied Separately

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 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 1.2. 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.

Gas Bottles are Supplied Separately

Product Number	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Leopard™ EMW150	30A - 145A	27.5kg	KEN-880	£318.00	£238.50

LEOPARD



READY TO WELD

TWIN ROLLER FEED **TURBO FAN COOLED**

LOW CURRENT **2 YEAR WARRANTY**

COMPATIBLE WITH BINZEL® B25 TORCH SPARES **GAS NO GAS**

GROUP 880 MIG/MAG WELDERS

KENNEDY Tiger EMW-170 Compact MIG Welder
QUALITY INDUSTRIAL TOOLING

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.

TWIN ROLLER FEED	TURBO FAN COOLED
LOW CURRENT	2 YEAR WARRANTY
COMPATIBLE WITH BINZEL® B15 TORCH SPARES	GAS ONLY

Product Number	Current Range	Weight each	Order Code KEN-880	List Price/1	Offer Price/1
Tiger™ EMW170	30A - 170A	38kg	-1960K	£520.00	£390.00

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.

TWIN ROLLER FEED	TURBO FAN COOLED
LOW CURRENT	2 YEAR WARRANTY
COMPATIBLE WITH BINZEL® B25 TORCH SPARES	GAS ONLY

Product Number	Current Range	Weight each	Order Code KEN-880	List Price/1	Offer Price/1
Lion™ EMW220	30A - 220A	45kg	-1980K	£624.00	£468.00



Welding



SIP Trade MIG/MAG Welders

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



25031/25033

25036 Trade Weldmate T195W - Gas

195 amp power - Will weld up to 8 mm mild steel. Heavy duty transformer - 139 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 storage compartment - Extremely useful when the unit is not in use.



25036

Product Number	Model	Welding Current	Wire Size	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
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	£659.95	£567.56



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 15kg 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.



25037

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 - Welds 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.



25040

Product Number	Model	Welding Current	Wire Size	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
25037	P170P	25-170A	0.6-0.8	35.0kg	-7037J	£540.95	£465.22
25040	P215W	25-215A	0.6-0.8	55.0kg	-7040M	£855.75	£735.95



CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

SIP 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 to suit 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.



25047

NEW

Industrial Weldmate - Gas/Gasless

300A, 350A or 500A - Capable of utilising from 0.6 to 1.2mm/1.6mm welding wire. Copper wound industrial transformer - Superb welding smoothness combined. Digital electronic controls - For improved ease of use, displays both welding, voltage and current. 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. 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.



25045

25045 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.**

25051 IS500W - With Separate Roll Feed Unit
3 Phase features as IC500W but with 327 amp @ 60% duty cycle. 14 power settings - stepping power precisely throughout the welding range from 25 to 500 amps. Use with **Separate Four Roller Feed Unit** and **Umbilical Cord.**



25101

25056

NEW

Product Number	Model	Welding Current	Wire Size	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
25043	IC250EW	25-250A	0.6-1.2	92kg	-7043Q	£1139.75	£980.18
25045	IC300W	25-300A	0.6-1.2	101kg	-7045S	£1365.75	£1174.55
25046	IC350W	25-350A	0.6-1.2	114kg	-7046T	£1594.75	£1371.48
25047	IC500W	25-500A	0.6-1.6	132kg	-7047V	£1708.45	£1469.27
25051	IS500W	25-500A	0.6-1.6	124kg	-7051X	£1482.75	£1275.16



Product Number	Item	Weight each	Order Code SIP-880	List Price/1	Offer Price/1
25056	4-Roll Feed	24.5kg	-7056Z	£798.45	£686.67
25101	Umbilical	9.5kg	-7101A	£209.75	£180.38



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 latching, 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.



280 AMPS

Product Number	Current Range	Weight each	Order Code CEM-880	List Price/1	Offer Price/1
BluMig 283C	35A - 280A		-2300E	£1678.85	£1393.45

Professional 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.



300 AMPS

Product Number	Current Range	Order Code CEM-880	List Price/1	Offer Price/1
BluMig 303S-TF300	35A - 300A	-5380W	£1289.00	£1069.87

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.



240 AMPS

Product Number	Current Range	Weight each	Order Code CEM-880	List Price/1	Offer Price/1
CC241M	40A - 240A		-2280C	£1361.23	£1129.82



UP TO 400 AMPS

Model	Rated Output @ Duty Cycle	Rating Specification	Dimensions (H x W x L)	Weight
326S	250A 195A	320A/30V@50%	830 x 425 x 940mm	111kg
406S	365A 280A	400A/34V@50%	925 x 552 x 812mm	144kg

Product Number	Welding Current	Fuse Rating	Open Circuit Voltage	Order Code MUR-881	List Price/1	Offer Price/1
326S	40 - 330A	3x 16A slow	16 - 40V	-6283R	£2868.00	£2581.20
406S	50 - 400A	3x 32A slow	17 - 45V	-6285T	£3336.00	£3002.40



Citoline 2500M

Step voltage single phase 230V compact MIG machine with an output current of 180A @ 20% duty cycle. Fitted with an enclosed 4-roll wire feeder for trouble free wire delivery. European Standards: EN 60974-01/EN 50199.

- 230V single phase. • 180A @ 20% duty cycle
- 0.8 - 1.0mm wire capacity • Step voltage selector switch
- Fitted 4-roll wire feeder • Digital meters
- Protection Class: IP23 • Insulation Class: H
- Weight: 52kg

Supplied complete with fitted primary cable, earth clamp and cable, gas hose and instruction manual.

Citoline 2000T

Step voltage three phase 400V compact MIG machine with an output current of 200A @ 30% duty cycle. Ideal for workshops with only 3 phase supply.

European Standards: **EN 60974-01/EN 50199.**

- 400V three phase. • 200A @ 30% duty cycle
- 0.6 - 1.2mm wire capacity • Step voltage selector switch
- Fitted 4-roll wire feeder • Digital meters
- Protection Class: IP23
- Insulation Class: H • Weight: 71kg

Supplied complete with fitted primary cable, earth clamp and cable, gas hose and instruction manual.



Product Number	Voltage	Phase	Wire Capacity	Order Code OER-880	List Price/1	Offer Price/1
2500M	230V	Single	0.8 - 1.0mm	-6964S	£1129.00	£1016.10
2000T	400V	Three	0.6 - 1.2mm	-6963R	£895.00	£805.50

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

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.



TIG filler wires should be to:
BSEN440: ferritic steels
BS2901 Part 2: stainless steel
BS2901 Part 3: copper and copper alloys
BS2901 Part 4: aluminium
BS2901 Part 5: nickel and nickel alloys. Most materials can be welded with the TIG process.

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' during 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.

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 blowing 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.

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.



FOR TIG RODS



See **GROUP 891**

FOR ACCESSORIES



See **GROUP 885**

FOR TIG SPARES



See **GROUP 885**

FOR TIG GLOVES



See **GROUP 961**

FOR WELDING HELMETS



See **GROUP 885**

KENNEDY *Jaguar Dual Voltage*
QUALITY INDUSTRIAL TOOLING *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, under-voltage 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 quantity 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.



Description	Current	Voltage	Weight each	Order Code	List Price/1	Offer Price/1
Jaguar MMA	130A	110/240	7.9kg	KEN-880 -3100K	£467.00	£350.25

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 quantity 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.



For Respiratory Protection



See Group 959

Description	Current	Voltage	Weight each	Order Code	List Price/1	Offer Price/1
Bobcat MMA	125A	240	6.6kg	KEN-880 -3000K	£262.00	£196.50

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 quantity 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.



For Flaw Finder Spray



See Group 732

Description	Current	Voltage	Weight each	Order Code	List Price/1	Offer Price/1
Cougar MMA	150A	240	7.9kg	KEN-880 -3040K	£399.00	£299.25

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

GROUP 880 TIG WELDERS



Mini Max

Weighing 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.

FOR DIY USE
 Not warranted for Industrial Use



Description	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Mini-Max			OSA-279	£154.53	£84.99



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



Product Number	Model	Welding Current	Electrode Size	Weight each	Order Code	List Price/1	Offer Price/1
05010	T110	5-95A	1.6-2.5	4.0kg	SIP-880	£177.52	£152.67

MMA Inverter



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 140amps @ 35% duty cycle. Supplied in moulded carry case



Product Number	Model	Welding Current	Electrode Size	Weight each	Order Code	List Price/1	Offer Price/1
05012	T170	5-150A	1.6-4.0	4.6kg	SIP-882F	£298.50	£256.71

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



Product Number	Model	Welding Current	Electrode Size	Weight each	Order Code	List Price/1	Offer Price/1
05014	T200	5-160A	1.6-4.0	4.6kg	SIP-884H	£398.01	£342.29



(Replaces S1401)

Heavy duty single phase inverter MMA/Touch 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. 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.



Description	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Puma S1400	5 to 130A	7.7kg	-7150N	£464.47	£385.51

Smarty TX150DC TIG Portable Professional MMA/Tig Inverter Power Source

(Replaces Compact TX1601)

Heavy duty single phase inverter HF TIG/MMA machine, for general purpose use. Features include robust front and rear profiles in tough ABS plastic to protect from accidental damage. High frequency arc start, slope out, pre/post gas control, 2/4 latching, hot start and anti-stick device. Ideal for maintenance, production and on site fabrication. Welding current range: 5 - 150amps. Weldable electrodes: 1.6 - 4.0mm. 2 year warranty.



Description	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Smarty TX150DC			-8260Z	£992.77	£824.00

TIG Torches

For Power Source Model Number	Model Number	Order Code	List Price/1	Offer Price/1
Type 9V Fitted for S1400	DE5013A	-8310A	£65.00	£53.95
Type 17V Fitted for TX150DC	DE5014B	-8320B	£70.00	£58.10

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 position.

- Specification:**
- Input voltage:** 230V single-phase.
- Tolerance in the network variations:** 230V ± 15 %/-15%.
- Digital display:** A/V/Sec/%.
- Duty cycle:** 60% at 40°C.
- Versatility:** TIG DC/pulsed TIG DC/MMA.
- Technical:** mode 2 current levels.
- Professional:** protection class IP23.
- Remote control:** remote adjustment flexibility.



Description	Current Range	Weight each	Order Code	List Price/1	Offer Price/1
Smarty TX 160			-8270H	£2463.00	£2044.29

Welding

MUREX *Tig Welder*

Transtig AC/DC201iS

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,

60% duty cycle: 160A,

100% duty cycle: 135A.

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

MMA rating:

35% duty cycle: 190A,

60% duty cycle: 150A.



200A CURRENT



Description	Order Code	List Price/1	Offer Price/1
Transatig AC/DC201iS	-6270M	£3909.99	£3518.99

GYS **160A MMA Inverter Welder**

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.



160A CURRENT

Description	Order Code	Offer Price/1
GYSMI 165	GYS-880 -1650D	£223.99

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 - 4.0mm.



160A CURRENT

Voltage	Description	Order Code	Offer Price/1
230	Pulse Tig Welder	-1670F	£612.00
230	Shock Resistant Pulse Tig Welder	-1680H	£684.00

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

All Prices Exclude V.A.T. © 2009

GROUP 880 TIG WELDERS

AC/DC Inverter

Citotig 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

200A CURRENT

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.

For Welding Rods
See Page **1510**



Description	Order Code	List Price/1	Offer Price/1
Citotig 200	OER-880	£3075.00	£2767.50

Inverter

Citotig 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

200A CURRENT

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.

For Face Shields
See Page **1496**



Description	Order Code	List Price/1	Offer Price/1
Citotig 200DC	OER-880	£2185.00	£1966.50

Kompressor Inverters

Citocut

Ideal for site cutting applications with the ability to severance cut up to 8mm thickness steel and a precision cut up to 4mm thickness. Cutting parameters are adjusted via an infinitely variable current control.

CITOCUT Kompressor has the ability of cutting steels, stainless steel, aluminium, copper and nickel alloys using its integral air compressor. It also has the capacity of cutting galvanised steel components. The variable output range of 5 - 20 amps greatly improves the cutting quality of thin sheet quickly and cleanly.

Designed and manufactured to a high specification of operation and safety, meeting the requirements of EU regulations. Supplied complete with internally wired Z0.5 plasma cutting torch assembly and a carrying handle for easy workshop and on-site mobility.

European Standards: **EN 60974-01/EN 50199/EN 50192.**

- Input Voltage: 110 & 230V 1 phase
- Frequency: 50Hz
- Built-in Compressor
- Low Current Consumption
- Weight 12kg
- Protection Class: IP23
- Insulation Class: H

UP TO 30A CURRENT



Product Number	Voltage	Cutting Current	Duty Cycle	Cutting Capacity	Weight	Order Code	List Price/1	Offer Price/1
W000264805	110V	5 - 20A	20A@50%	8mm	12kg	-7805X	£995.00	£895.50
W000260941	230V	5 - 20A	30A@50%	8mm	12kg	-6941M	£995.00	£895.50

CEMONT SHARP 6K Plasma Cutter

The Cemont SHARP 6K is a plasma cutting installation based on inverter technology and ensuring an excellent regulation of the cutting 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.

Specification:

Cutting capacity (on carbon steel)

Clean: 4mm

Max: 8mm

Input voltage single-phase: 230V - 50/60Hz

Primary consumption power:

16/3.5kVA

Effective consumption: 11A

Welding current: 10 - 20A

Duty cycle at:

40°C at 50% 20A

Protection class: IP23

Dimensions:

440 x 185 x 310mm

Weight: 12kg

Supplied complete with:

Electric cable with 16A plug. Equipped with earth cable. Complete torch with wear parts. Safety instruction for use and maintenance manual.



Description	Order Code CEM-880	List Price/1	Offer Price/1
Sharp 6K	-7860B	£1508.41	£1251.98

SHARP 10 Plasma Cutter

The SHARP 10 is a plasma cutter using inverter technology that ensures an excellent regulation of the cutting current, which increases the cutting quality. The digital display ensures better adjustment/control and optimal reading of the cutting parameters, whilst in use. Capable of drag cutting which increases the cutting quality and reduces fume emissions. Easy to transport weighing in at only 8kg.

Specification:

Cutting capacity (on carbon steel) Clean: 6mm **Max:** 10mm

Input voltage single-phase: 230V - 50/60Hz

Primary power consumption: 23A/5kVA

Effective consumption: 14A

Compressed air consumption: > 100 l/min - 4 bars

Welding current: 10-30A

Duty cycle at 40°C:

at 35% 30A

at 60% 25A

at 100% 20A

Protection class: IP 23

Dimensions:

415 x 170 x 310mm

Weight: 8kg

Supplied complete with:

Electric cable with 16A plug. Equipped with earth cable. Complete torch with wear parts. Safety instruction for use and maintenance manual.



Description	Order Code CEM-880	List Price/1	Offer Price/1
Sharp 10	-7880D	£1259.47	£1045.36

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 the 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:

435 x 235 x 380mm

Weight: 25kg



Description	Order Code CEM-880	List Price/1	Offer Price/1
Sharp 22	-7890E	£3593.10	£2982.27

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: 35mm

Max: 40mm

Specification:

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:

at 50% 120A

at 75% 85A

at 100% 50A

Protection class: IP23

Dimensions:

500 x 855 x 705mm

Weight: 125kg

Supplied complete with:

Electric cable. Complete torch with. Safety instruction manual.



Description	Order Code CEM-880	List Price/1	Offer Price/1
Sharp 40	-7900F	£3983.57	£3306.36

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

EFFICIENCY

While the Oxy/Acetylene welding process can give quality welds, the skill

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.



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.

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.



FOR TIG RODS



GROUP
See 891

FOR FLUX



GROUP
See 516

FOR WELDING GOGGLES



GROUP
See 960

FOR GAUNTLETS



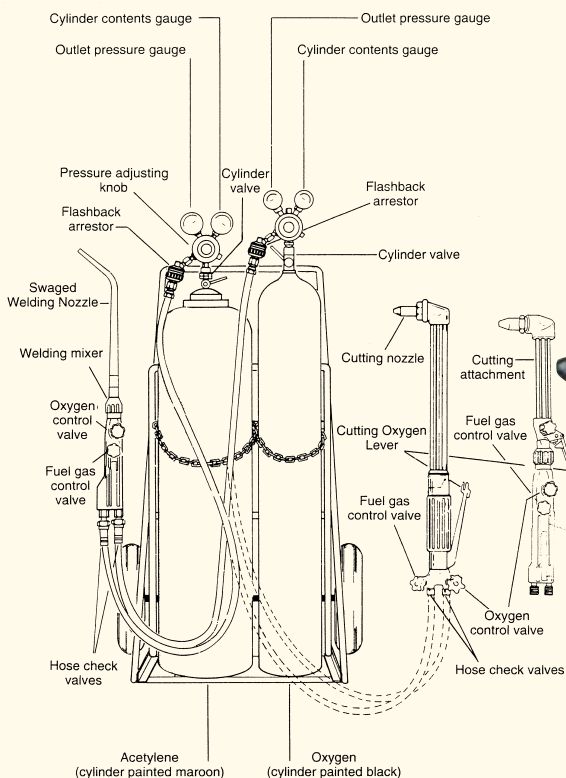
GROUP
See 961

FOR SURFACE PREPARATION



GROUP
See 205

A TYPICAL OXY-FUEL GAS WELDING AND CUTTING SYSTEM



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.

**TROLLEY INCLUDED
SUPERB
VALUE!**



**PLEASE NOTE:
Gas Cylinders
Are Not Included
In This Kit**

Product Number	Weight each	Order Code	List Price/Set	Offer Price/Set
BAN12004		CTL-885 -3840X	£628.96	£503.17

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 Masterpaks 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 1/16 and 1/8 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 1/16 and 1/8 cutting nozzels, combination spanner and spark lighter.

1300006 Kit Contents: Saffire 5 shank, mixer and cutting attachment, oxygene 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.



For replacement nozzles see page 1486.

Model Number	Description	Order Code	Offer Price/Kit
1300004	Oxy-Propane Cutting Kit	-2904D	£129.90
1300005	Oxy-Acetylene Cutting Kit	-2905E	£129.90
1300006	Oxy-Acetylene Welding & Cutting Kit	-2906F	£190.64

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: 1/8" - 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.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
MG-8		-5410A	£57.25	£45.80
MG-11		-5412C	£35.96	£28.77

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

GROUP 885 GAS WELDING & CUTTING SYSTEMS

MUREX DH Acetylene Welding Mixer

For use with lightweight shank, right, and welding nozzles, below.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
1256673		-2353C	£27.47	£21.98

SWP Acetylene Welding Mixer

For use with lightweight shank, right, and welding nozzles, below.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
2006		-8006G	£10.95	£8.76

ASFN Cutting Nozzle

For cutting sheet metal.



Product Number	Type	Plate Thick.	Order Code	List Price/1	Offer Price/1
192880	ASFN	3mm	-1620D	£13.98	£9.79

MUREX AFN Cutting Nozzles

For use with DH lightweight cutting attachments.



Product Number	Nozzle Dia.	Plate Thick.	Order Code	List Price/1	Offer Price/1
144735	1/32"	3-6mm	-5235Q	£15.61	£10.93
144736	3/64"	6-20mm	-5236R	£15.61	£10.93

SWP AFN Cutting Nozzles

For use with lightweight cutting attachments. Plate thickness refers to mild steel.



Product Number	Dia.	Plate Thick.	Order Code	List Price/1	Offer Price/1
2017	1/32"	3-6mm	-1617A	£6.50	£4.55
2018	3/64"	6-20mm	-1618B	£6.50	£4.55
2019	1/16"	20-50mm	-1619C	£6.50	£4.55

DH Lightweight Welding Shank & Attachment

Shank

Dual purpose - can be used with welding mixer and nozzles or with cutting attachment.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
1281934		-2809T	£57.43	£45.94

Lightweight Welding Shank & Attachment

Shank

Dual purpose - can be used with welding mixer and nozzles or with cutting attachment.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
2004		-8004E	£33.95	£27.16

MUREX Swaged Welding Nozzles

For use with DH lightweight shank and welding mixer, above. Plate thickness refers to mild steel.



Product Number	Size	Plate Thick.	Order Code	List Price/1	Offer Price/1
140200	No.1	0.9mm	-4000P	£4.38	£3.07
140201	No.2	1.2mm	-4001Q	£4.38	£3.07
140202	No.3	2.0mm	-4002R	£4.38	£3.07
140203	No.5	2.6mm	-4003S	£4.38	£3.07
140204	No.7	3.2mm	-4004T	£4.38	£3.07
140205	No.10	4.0mm	-4005V	£4.38	£3.07
140206	No.13	5.0mm	-4006W	£4.38	£3.07
140207	No.18	6.5mm	-4007X	£5.59	£3.91
140208	No.25	8.2mm	-4008Y	£5.59	£3.91

Swaged Welding Nozzles

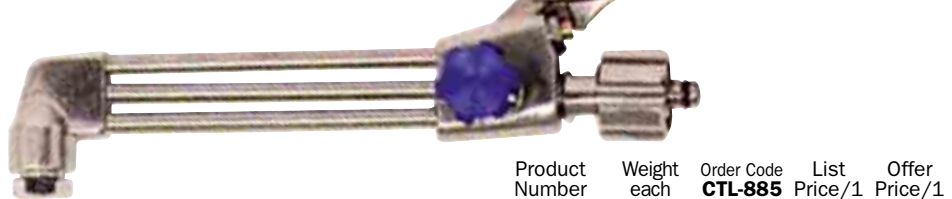
For use with lightweight shank and welding mixer, above. Plate thickness refers to mild steel.



Product Number	Size	Plate Thick.	Order Code	List Price/1	Offer Price/1
1161	No.1	0.9mm	-1161P	£3.15	£2.21
1162	No.2	1.2mm	-1162Q	£3.15	£2.21
1163	No.3	2.0mm	-1163R	£3.15	£2.21
1164	No.5	2.6mm	-1164S	£3.15	£2.21
1165	No.7	3.2mm	-1165T	£3.15	£2.21
1166	No.10	4.0mm	-1166V	£3.15	£2.21
1167	No.13	5.0mm	-1167W	£3.15	£2.21

Cutting Attachment

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



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
2005		-8005F	£49.95	£39.96

Welding, Cutting & Heating Set

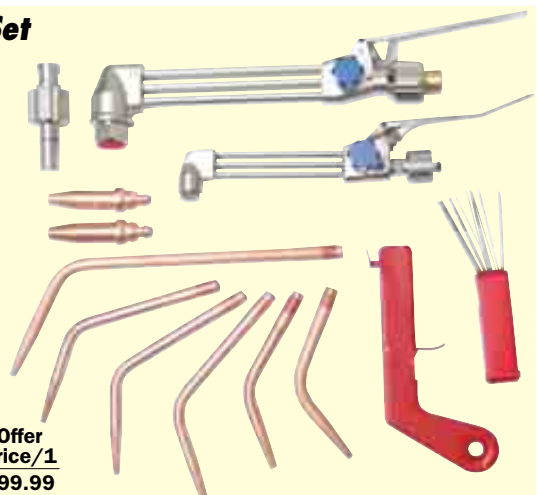
Welding capacity up to 8mm. Cutting capacity up to 75mm.

Set Contents:

- Style 5 shank.
- Style 5 acetylene welding mixer.
- 6 Swaged nozzles (sizes 2, 5, 7, 10, 13 & 25).
- Style 5 cutting attachment.
- 2 ANM cutting nozzles (sizes 3/64" & 1/16").
- Pistol spark lighter (x10 flints)
- Nozzle cleaners

23 PIECES

Type	Weight each	Order Code	List Price/1	Offer Price/1
23 Piece Set		-0022A	£151.50	£99.99



Welding



Acetylene Welding Mixer

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



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
143537		MUR-885 -4292D	£27.47	£21.98

Swaged Welding Nozzles

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



Type	Size	Plate Thick.	Order Code	List Price/1	Offer Price/1
122207	No.1	0.9mm	MUR-883 -2107G	£4.98	£3.49
122208	No.2	1.2mm	-2108H	£4.98	£3.49
122209	No.3	2.0mm	-2109J	£4.98	£3.49
122210	No.5	2.6mm	-2110K	£4.98	£3.49
122211	No.7	3.2mm	-2111L	£4.98	£3.49
122212	No.10	4.0mm	-2112M	£4.98	£3.49
122213	No.13	5.0mm	-2113N	£4.98	£3.49
122214	No.18	6.5mm	-2114P	£7.26	£5.08
122215	No.25	8.2mm	-2115Q	£7.26	£5.08
122216	No.35	10.0mm	-2116R	£7.26	£5.08

Acetylene Welding Mixer

For use with heavy duty shank, right, and welding nozzles, below.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
2012		CTL-885 -8012N	£12.99	£10.39

Swaged Welding Nozzles

For use with heavy duty shank.



Plate thickness refers to mild steel.

Type	Size	Plate Thick.	Order Code	List Price/1	Offer Price/1
1176	No.1	0.2mm	CTL-883 -1176Z	£3.59	£2.51
1177	No.2	1.2mm	-1177M	£3.59	£2.51
1178	No.3	2.0mm	-1178A	£3.59	£2.51
1179	No.5	2.6mm	-1179B	£3.59	£2.51
1180	No.7	3.2mm	-1180C	£3.59	£2.51
1181	No.10	4.0mm	-1181D	£3.59	£2.51
1182	No.13	5.0mm	-1182E	£3.59	£2.51
1183	No.18	6.5mm	-1183F	£3.59	£2.51
1184	No.25	8.2mm	-1184G	£3.59	£2.51



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.



Product Number	Weight (each)	Order Code	List Price/Set	Offer Price/Set
1256500		MUR-885 -2301B	£106.17	£84.94

Heavy Duty Welding Shank

Heavy duty welding between 1 to 25mm and acetylene cutting to 200mm. For a wide range of oxygen fuel gas processes, using appropriate accessories such as welding mixer and nozzles or with cutting attachment.

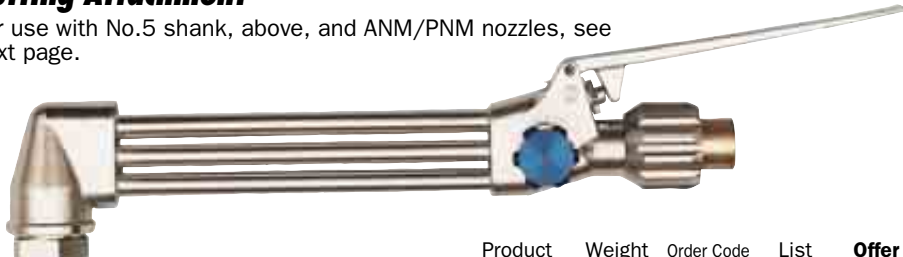
Made to EN ISO 5172.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
1256723		MUR-885 -2393R	£57.43	£45.94

Cutting Attachment

For use with No.5 shank, above, and ANM/PNM nozzles, see next page.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
1256941		MUR-885 -2430P	£68.68	£54.94

Heavy Duty Welding Shank

Heavy duty welding between 1 to 25mm and acetylene cutting to 200mm. For a wide range of oxygen fuel gas processes, using appropriate accessories such as welding mixer and nozzles or with cutting attachment.

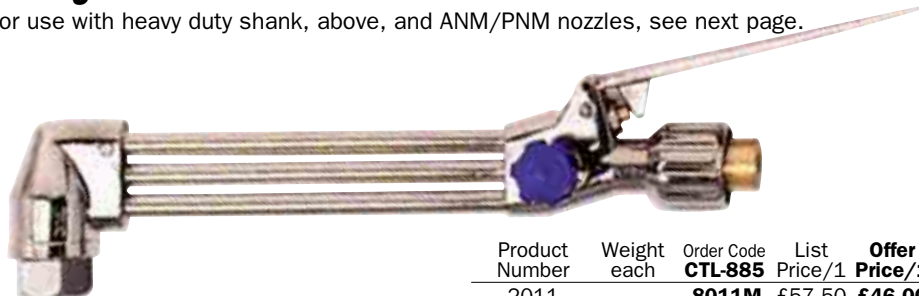
Made to EN ISO 5172.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
2010		CTL-885 -8010L	£51.90	£41.52

Cutting Attachment

For use with heavy duty shank, above, and ANM/PNM nozzles, see next page.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
2011		CTL-885 -8011M	£57.50	£46.00

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 3/64", 1/16"),
- AHT 25 heating neck and tip.
- 'O' rings.
- Spark lighter with 9 flints.
- Nozzle cleaners.
- Carrying case.



Product Number	Weight each	Order Code	List Price/Set	Offer Price/Set
1256727		MUR-885 -2400A	£330.99	£264.79

GROUP 885 GAS WELDING & CUTTING SYSTEMS

KENNEDY Cutting Blowpipe
QUALITY INDUSTRIAL TOOLING 18-90

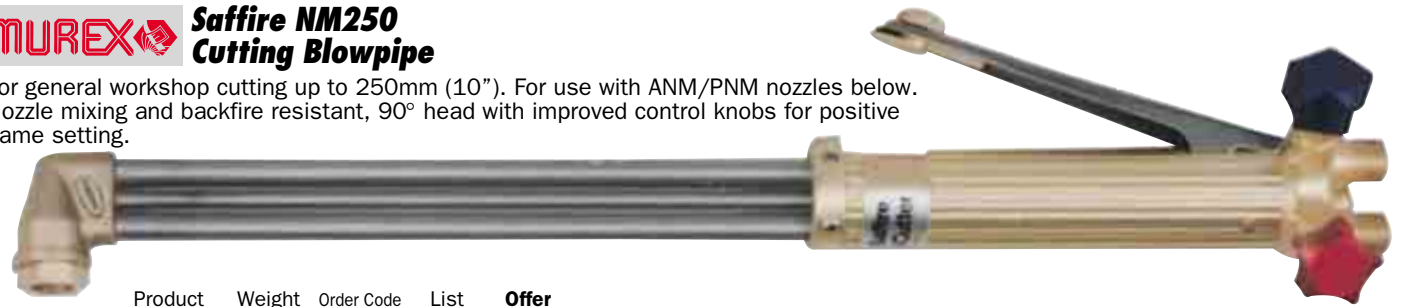
Nozzle mixing and backfire resistant. For general workshop cutting up to 250mm (10"). Use ANM/PNM nozzles below. 90° head.



Length	Order Code	List Price/1	Offer Price/1
18"	KEN-885	£54.90	£43.92

MUREX Saffire NM250 Cutting Blowpipe

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



Product Number	Weight (each)	Order Code	List Price/1	Offer Price/1
144001		MUR-884	£70.63	£60.74

Large Circle Cutting Attachment

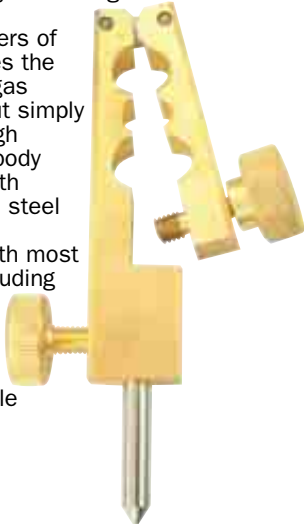
Fits onto the nozzle end of the blowpipe, between the head and the cutting nozzle. Offers optimum two-handed control, fitted with a sliding centre device and a roller ball support spigot, ideal for accurately cutting larger diameters. Swing arm is graduated for direct reading of circle diameter (2 x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



Product Number	Diameter Range	Order Code	List Price/1	Offer Price/1
2031	6" - 30" 150 - 760mm	CTL-885	£54.50	£43.60

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.



Product Number	Diameter Range	Order Code	List Price/1	Offer Price/1
2030	See above	CTL-885	£8.08	£6.46

ASNM Cutting Nozzle

For cutting sheet metal.



Product Number	Type	Order Code	List Price/1	Offer Price/1
126533	ASNM	MUR-883	£14.98	£10.49

KENNEDY ANM Cutting Nozzles

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



Nozzle Diameter	Plate Thickness	Order Code	List Price/1	Offer Price/1
1/32"	6mm	KEN-883	£6.24	£4.37
3/64"	12mm	-2010K	£6.24	£4.37
1/16"	75mm	-2020K	£6.24	£4.37
5/64"	100mm	-2030K	£6.24	£4.37
3/32"	150mm	-2040K	£6.24	£4.37
1/8"	300mm	-2050K	£6.24	£4.37

PNM Cutting Nozzles

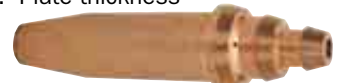
75mm long propane nozzle mix can be used with the majority of popular cutting torches.



Nozzle Diameter	Plate Thickness	Order Code	List Price/1	Offer Price/1
1/32"	6mm	KEN-883	£6.24	£4.37
3/64"	12mm	-2110K	£6.24	£4.37
1/16"	75mm	-2120K	£6.24	£4.37
5/64"	100mm	-2130K	£6.24	£4.37
3/32"	150mm	-2140K	£6.24	£4.37
1/8"	300mm	-2150K	£6.24	£4.37

MUREX 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.



Product Number	Nozzle Dia.	Plate Thick.	Order Code	List Price/1	Offer Price/1
143016	1/32"	6mm	MUR-883	£6.24	£4.37
143017	3/64"	12mm	-4516A	£6.24	£4.37
143018	1/16"	75mm	-4517B	£6.24	£4.37
143019	5/64"	100mm	-4518C	£6.24	£4.37
143020	3/32"	150mm	-4519D	£6.24	£4.37
143022	1/8"	300mm	-4520E	£6.24	£4.37

PNM Cutting Nozzles

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



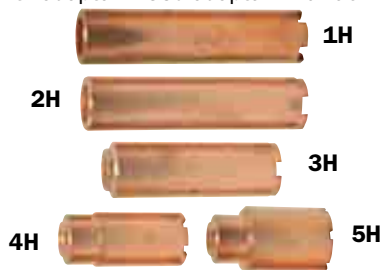
Product Number	Nozzle Dia.	Plate Thick.	Order Code	List Price/1	Offer Price/1
143780	1/32"	6mm	MUR-883	£6.24	£4.37
143781	3/64"	12mm	-4880G	£6.24	£4.37
143782	1/16"	75mm	-4881H	£6.24	£4.37
143783	5/64"	100mm	-4882J	£6.24	£4.37
143784	3/32"	150mm	-4883K	£6.24	£4.37
143786	1/8"	300mm	-4884L	£6.24	£4.37



Process & Heating Nozzles

Propane Heating Nozzles - P-H

Fully compatible with most heavy duty welding shanks and blowpipes. For use with blowpipes* 1143, 1144; Saffire NM250; Citogas NMC200. Up to 766,000 Btu/h can be achieved from 5H when used on blowpipe with adaptor. *Use adaptor 120458.



Size	Btu/h (1000's)	Order Code MUR-883	List Price/1	Offer Price/1
1H	72 - 163	-5857D	£11.23	£7.86
2H	102 - 188	-5858E	£11.23	£7.86
3H	183 - 361	-5859F	£18.72	£13.10
4H	236 - 406	-5860G	£21.22	£14.85
5H	281 - 618	-5861H	£27.47	£19.23

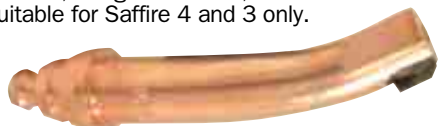
Adaptors & Necks for Propane Nozzles



Description	Order Code CTL-885	List Price/1	Offer Price/1
Propane Mixer For Heavy Duty Shanks	-7153N	£16.95	£13.56
700mm Neck	-7152M	£27.15	£21.72

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.



Size (mm)	Groove Depth	Groove Width	Order Code CTL-883	List Price/1	Offer Price/1
19	6-11	8-11	-1212E	£11.34	£7.94

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.



Style	Pack Quantity	Order Code KEN-885	List Price/1	Offer Price/1
Triple	1	-7110K	£3.10	£2.48
Flints	1 Head	-7120K	£1.10	£0.88

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.



Product Number	Size	Btu/h (1000's)	Order Code CTL-883	List Price/1	Offer Price/1
1292	AHT 25	52	-1292V	£5.74	£4.02
1293	AHT 50	91	-1293W	£5.74	£4.02
1294	AHT 100	139	-1294X	£5.74	£4.02

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.



Description	Order Code PRM-875	List Price/1	Offer Price/1
Regulator	-8716A	£18.50	£15.72
Standard Burner	-8719D	£10.46	£8.89
Full Flame Burner	-8725K	£11.86	£10.08

MUREX Adaptors

For Propane Nozzles



Description	Order Code MUR-884	List Price/1	Offer Price/1
Heating Adaptor	-1250J	£23.74	£20.42



Description	Order Code MUR-885	List Price/1	Offer Price/1
Propane Mixer for Heavy Duty Shanks	-4308A	£27.47	£21.98

Acetylene Gouging Nozzles - A-GNM

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



Size (mm)	Groove Depth	Groove Width	Order Code MUR-885	List Price/1	Offer Price/1
13	3-9	6-8	-2709E	£12.47	£9.98
19	6-11	8-11	-2710F	£12.47	£9.98

Adaptors and Necks for Acetylene Nozzles



Description	Order Code MUR-885	List Price/1	Offer Price/1
200mm Neck	-4314K	£19.99	£15.99
H/Duty Mixer	-4290B	£27.47	£21.98

Acetylene Heating Nozzles - A-HT

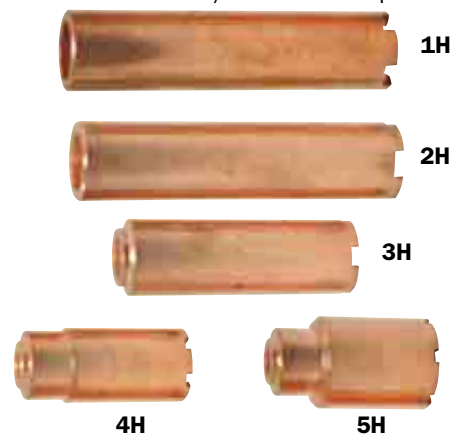
Fully compatible with most heavy duty welding shanks. Including 1144, Saffire 5, 4, 3, Citogas HDT200. Sizes 50 and 100 require A-HT mixer 143525.



Product Number	Size	Btu/h (1000's)	Order Code MUR-884	List Price/1	Offer Price/1
126134	A-HT 25	52	-2634A	£7.48	£6.43
126135	A-HT 50	91	-2635B	£7.48	£6.43
126136	A-HT 100	139	-2636C	£7.48	£6.43

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.



Product Number	Size	Btu/h (1000's)	Order Code CTL-883	List Price/1	Offer Price/1
1217	1H	72-163	-1217H	£11.23	£7.86
1219	3H	183-361	-1219K	£17.99	£12.59
1221	5H	281-618	-1221M	£27.46	£19.22

Neck for Acetylene Nozzles



Description	Order Code CTL-885	List Price/1	Offer Price/1
200mm Neck	-7150K	£6.78	£5.42
300mm Neck	-7151L	£26.65	£21.32
H/Duty Mixer	-8012N	£12.99	£10.39

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.



Product Number	For Chalk Size	Order Code CTL-885	List Price/1	Offer Price/1
1359	5 x 12mm	-7359D	£1.65	£1.32

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.



Description	Order Code MUR-885	List Price/1	Offer Price/1
Gas Economiser	-2835F	£119.90	£95.92

GROUP 885 GAS WELDING & CUTTING ACCESSORIES

KENNEDY Nozzle Cleaner Set
QUALITY INDUSTRIAL TOOLING

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



Product Number	Sizes (mm)	Weight each	Order Code	List Price/1	Offer Price/1
1216	0.5-2.7	-	-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 Price/1	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 Price/1	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 Number	Weight each	Order Code	List Price/1	Offer Price/1
1363	-	-7363G	£1.95	£1.56

Cylinder Trolleys

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



Model Number	For Use With	Cylinder Capacity	Order Code	List Price/1	Offer Price/1
1270	Propane	1	-7270B	£59.95	£47.96
1271	Oxy/Acetylene	1	-7271C	£59.95	£47.96
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 Number	Sizes (mm)	Weight (each)	Order Code	List Price/1	Offer Price/1
153391	0.5-2.7	-	-4391A	£3.76	£3.01

Spark Lighters

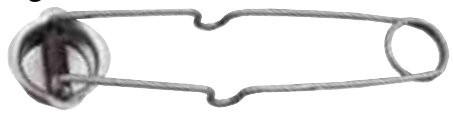
For easy and rapid single handed ignition of welding and cutting torches.



Pistol Type
Metal bodied. Uses standard cigarette lighter flints.

Product Number	Weight (each)	Order Code	List Price/1	Offer Price/1
SL2	-	-5007L	£4.71	£3.77

Cup Type Spark Lighter



Product Number	Weight (each)	Order Code	List Price/1	Offer Price/1
SL3	-	-3220P	£2.87	£2.30

Valve Key

Fits gas bottle valves. Drop forged.



Product Number	Weight each	Order Code	List Price/1	Offer Price/1
1364	-	-7364H	£1.49	£1.19

MUREX Individual Hoses

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



Blue Hoses for Oxygen

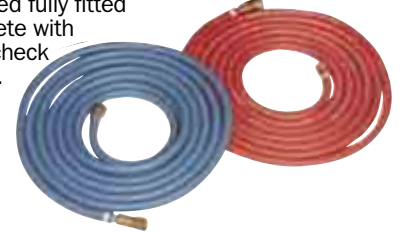
Bore	Hose Length	Fitting	Order Code	List Price/1	Offer Price/1
6.3mm	5m	3/8" - 1/4"	-2651F	£13.72	£10.98
6.3mm	10m	3/8" - 3/8"	-2655G	£18.72	£14.98
10.0mm	10m	3/8" - 3/8"	-2659J	£23.73	£18.98
10.0mm	20m	3/8" - 3/8"	-2660K	£34.96	£27.97

Red Hoses for Acetylene

Bore	Hose Length	Fitting	Order Code	List Price/1	Offer Price/1
6.3mm	5m	3/8" - 1/4"	-2601A	£13.72	£10.98
6.3mm	10m	3/8" - 3/8"	-2605B	£18.72	£14.98
10.0mm	10m	3/8" - 3/8"	-2609D	£23.73	£18.98
10.0mm	20m	3/8" - 3/8"	-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.



Hose Dia	Length	Fitting	Order Code	List Price/1	Offer Price/1
6mm	5m	3/8" - 1/4"	-7338G	£22.95	£18.36
6mm	10m	3/8" - 1/4"	-7339H	£30.70	£24.56
8mm	5m	3/8" - 3/8"	-7379E	£24.90	£19.92
8mm	10m	3/8" - 3/8"	-7380N	£47.14	£37.71
8mm	20m	3/8" - 3/8"	-7381F	£72.83	£58.26
10mm	5m	3/8" - 3/8"	-7340J	£23.95	£19.16
10mm	10m	3/8" - 3/8"	-7341K	£37.95	£30.36
10mm	20m	3/8" - 3/8"	-7342L	£63.75	£51.00

Oxygen and Propane Hose Sets

Matched pairs of hose - one each for oxygen (blue) and propane (orange). Kink and crush resistant. 8mm for general use. Supplied fully fitted complete with hose check valves. Prices per set



Hose Dia	Length	Fitting	Order Code	List Price/1	Offer Price/1
8mm	10m	3/8" - 3/8"	-2296B	£43.70	£34.96
8mm	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.



Product Number	Size	Order Code	Offer Price/1
SG3450	6mm	-5550A	£245.00
SG3650	8mm	-5850M	£245.00

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, standard 3/8" BSP outlet and 5/8" BSP inlet connections.



Gas Type	Order Code PRO-884	List Price/1	Offer Price/1
4.0 Bar Oxygen	-0003A	£34.61	£27.69
10.0 Bar Oxygen	-0004A	£34.61	£27.69

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 bar with a full 230 bar capacity.

Features:

Flow rates up to 80m³/h (2824 ft³/h) 230 bar capability.

Features 2 gauges displaying cylinder contents and pressure. Bottom entry design suited for top outlet cylinder valves.

Fitted with 1/4" parallel threaded gauges. Fitted with standard 3/8" BSP outlet. Fitted with 5/8" BSP inlet connections.



Gas Type	Order Code PRO-884	List Price/1	Offer Price/1
Argon Regulator	-0005A	£34.61	£27.69
Acet. Regulator	-0006A	£34.61	£27.69

MUREX 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.



Saffire Indicator Type Regulators - Not Illustrated

Series 1+ Single Stage

Gaugeless - with indicator to signal empty cylinder.

Model Number	Gas Type	Rating	Weight each	Order Code MUR-884	List Price/1	Offer Price/1
1282683	Oxygen	0-10 bar		-2602W	£49.95	£42.96
1282686	Acetylene	A-1.5		-1572H	£49.95	£42.96
1282687	Propane	P-4		-1683J	£48.70	£41.88

Series 1+ Single Stage

Model Number	Gas Type	Rating	Weight each	Order Code MUR-884	List Price/1	Offer Price/1
1282681	Oxygen	0-4 bar		-2600T	£62.44	£53.70
1282682	Oxygen	0-10 bar		-2601V	£62.44	£53.70
1282685	Acetylene	A-1.5		-1414G	£62.44	£53.70
1282684	Argon	0-60CFH		-2603X	£62.44	£53.70

Series 2+ Multi-Stage Regulators

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

Model Number	Gas Type	Rating	Weight each	Order Code MUR-884	List Price/1	Offer Price/1
1281209	Oxygen	0-4 bar		-2561M	£112.41	£96.67
1281210	Oxygen	0-10 bar		-2562N	£112.41	£96.67
1281211	Acetylene	A-1.5		-3911K	£112.41	£96.67

MUREX Saffire XL5 Flashback Arrestors

Give a high flow rate and are equipped with a large cylindrical flame arresting element, an automatic reset non-return valve and a heat sensitive automatic cut-off.

Should be used in conjunction with hose check valves.



Gas Type	Order Code MUR-884	List Price/1	Offer Price/1
Propane/Acetylene (red)	-2908L	£21.18	£18.21
Oxygen (blue)	-2909M	£21.18	£18.21

Saffire 36ec Flashback Arrestors

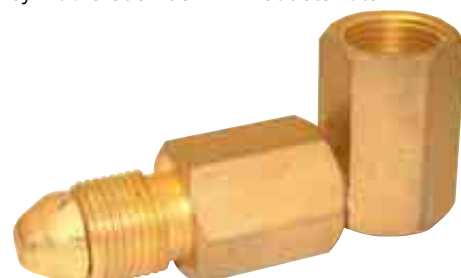
Conform to EN730. Sintered metal flame arresting element, non-return valve upstream of the flame arresting element, thermal and pressure sensitive cut-off. Reset button with 'pop-up' action indicating when a flashback has occurred.



Gas Type	Order Code MUR-884	List Price/1	Offer Price/1
Propane/Acetylene (red)	-2905G	£87.42	£75.18
Oxygen (blue)	-2906H	£87.42	£75.18

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.



Product Number	Type	Order Code CTL-885	List Price/1	Offer Price/1
1265	90° Right Hand	-7265G	£19.68	£15.74
1266	90° Left Hand	-7266H	£19.68	£15.74

GROUP 885 WELDING CURTAINS

Nederman 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 are 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).



NEW



Product Number	Curtain Colour	Size W x H (mm)	Order Code NED-885	List Price/1	Offer Price/1
60313124	Dark Green	1300 x 1800	-7510A	£35.00	£35.00
60313125	Dark Green	1300 x 2400	-7520B	£46.00	£46.00
60313126	Dark Green	1300 x 2800	-7530C	£56.00	£56.00
60313424	Dark Green	1300 x 1800	-7740H	£35.00	£35.00
60313425	Dark Green	1300 x 2400	-7750J	£46.00	£46.00
60313426	Dark Green	1300 x 2800	-7760K	£56.00	£56.00
60313225	Bronze	1300 x 2400	-7620E	£46.00	£46.00
60313224	Bronze	1300 x 1800	-7610D	£35.00	£35.00
60313226	Bronze	1400 x 2800	-7630F	£64.00	£64.00
60313326	Red/Orange	1400 x 2800	-7680T	£56.00	£56.00
60313324	Red/Orange	1300 x 1800	-7660R	£35.00	£35.00
60313325	Red/Orange	1400 x 2400	-7670S	£46.00	£46.00

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).



NEW

Product Number	Curtain Colour	Order Code NED-885	List Price/1	Offer Price/1
60931050	Dark Green	-8120M	£116.00	£116.00
60931056	Red/Orange	-8140P	£107.00	£107.00

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.



Product Number	Fibre Type	L x W (Metres)	Order Code CTL-885	List Price/1	Offer Price/1
1813	Glass	2.0 x 1.0	-7813L	£45.60	£36.48
1814	Glass	2.0 x 2.0	-7814M	£91.20	£72.96
1815	Glass	3.0 x 2.0	-7815N	£136.80	£109.44
1816	Silicate	2.0 x 0.9	-7816P	£108.00	£86.40
1817	Silicate	2.0 x 1.8	-7817Q	£216.00	£172.80
1818	Silicate	3.0 x 1.8	-7818R	£324.00	£259.20

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.

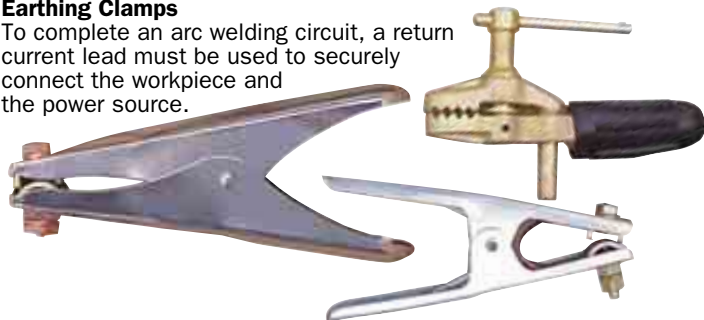


Product Number	Curtain Type	Size (W x H)	Order Code CTL-885	List Price/1	Offer Price/1
1462	*Orange PVC	6' x 6'	-7462D	£56.95	£45.56
1468	Green Canvas	6' x 6'	-7468A	£37.95	£30.36
1469	Canvas	8' x 6'	-7469B	£70.00	£56.00
1470	*Green PVC	6' x 6'	-7470C	£44.00	£35.20
1472	Frame	6' x 6'	-7472E	£44.00	£35.20
1474	Single Curtain Ring	-	-7474G	£0.30	£0.24

Welding

Earthing Clamps

To complete an arc welding circuit, a return current lead must be used to securely connect the workpiece and the power source.



Rating (Amps)	Clamp Style	Order Code CTL-885	List Price/1	Offer Price/1
600	Screw-on	-7082J	£14.00	£11.20
200	Crocodile	-7083K	£1.25	£1.00
400	Crocodile	-7084L	£2.60	£2.08

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°.



Product Number	Rating (Amps)	Order Code CTL-885	List Price/1	Offer Price/1
1027	200	-7027Y	£20.58	£16.46
1028	450	-7028Z	£27.44	£21.95
1029	600	-7029M	£31.52	£25.22

Copper Welding Cable

Black PVC, single insulated, single core, high flexibility, welding cable.



Supplied to any length in multiples of 1 metre.

Core Size	Weight per m	Order Code CTL-885	List Price/100m	Offer Price/100m
16mm ²	-	-7006G	£253.00	£202.40
25mm ²	-	-7007H	£400.00	£320.00
35mm ²	-	-7008J	£558.00	£446.40
50mm ²	-	-7009K	£773.00	£618.40
70mm ²	-	-7010L	£1090.00	£872.00
95mm ²	-	-7011M	£1950.00	£1560.00

Suggested Current Ratings

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

Core Size	Duty Cycle:		
	100%	60%	30%
	Maximum Rating		
16mm ²	135A	175A	245A
25mm ²	180A	230A	330A
35mm ²	225A	290A	410A
50mm ²	285A	370A	520A
70mm ²	355A	460A	650A
95mm ²	430A	560A	790A

Crocodile Type Electrode Holders

Designed to reduce fatigue to a minimum and increase safety. The holder is fully insulated.



Product Number	Rating (Amp)	Order Code CTL-885	List Price/1	Offer Price/1
1023	200	-7023T	£3.20	£2.56
1024	400	-7024V	£4.43	£3.54

KENNEDY Twist Grip Short Stub Electrode Holders

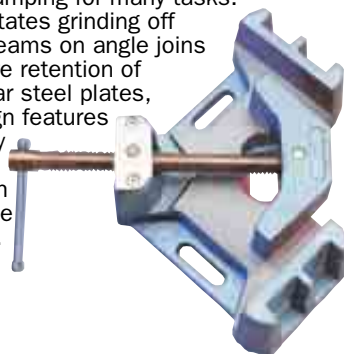
Reduce fatigue and increase safety. All of the electrode is available for use and the angle allows the hand to remain away from the weld pool. The handle applies torque to the electrode clamp in the head.



Rating (Amps)	Handle Colour	Order Code KEN-885	List Price/1	Offer Price/1
400	Yellow	-6010K	£5.22	£4.18
400	Red	-6110K	£5.22	£4.18
600	Red	-6130K	£8.84	£7.07

SIP Welder's Angle Clamps

Specialist welder's angle jig and fixture clamp. Made from cast iron with copper plated pivoting jaw and spindle for spatter protection. T-handle enables high pressure secure clamping for many tasks. Also facilitates grinding off welding seams on angle joints and secure retention of rectangular steel plates, etc. Design features allow easy fixing to workbench or machine tool table.



Product Number	Size (mm)	Order Code SIP-880	List Price/1	Offer Price/1
07648	150 (6")	-6300K	£56.95	£48.98
07649	230 (9")	-6310L	£85.75	£73.75

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.



Product Number	For Cable Size (mm ²)	Order Code CTL-885	List Price/1	Offer Price/1
1056	10 - 25	-7056P	£1.50	£1.20
1057	35 - 50	-7057Q	£1.90	£1.52
1058	50 - 70	-7058R	£2.40	£1.92
Plug Connection				
1060	10 - 25	-7060T	£1.50	£1.20
1061	35 - 50	-7061V	£1.90	£1.52
1062	50 - 70	-7062W	£2.40	£1.92
Socket Connection				

Cold Front

Amazing chemical heat sink that stops heat cold! Odourless and non-toxic - causes no fumes. Won't harm skin or stain surface where applied, will not melt or run when heated. Residue washes off in plain water. Protects glass, rubber, paint, vinyl tops and trim. Prevents buckling when welding, brazing or soldering sheet metal. Save time - prevent the heat in the work from bleeding away. Make repairs without disassembly normally required.

Stops Heat - Cold!



Type	Size	Order Code CTL-885	List Price/1	Offer Price/1
Tub	14oz	-3940R	£32.50	£26.00

Re-Usable Cable Lugs

For use with arc cable.



Product Number	Size (mm)	Order Code CTL-885	List Price/1	Offer Price/1
1036	25	-7036C	£0.94	£0.75
1037	35	-7037D	£1.16	£0.93
1038	50	-7038E	£1.50	£1.20

GROUP 885 MIG WELDER ACCESSORIES & SPARES

KENNEDY Euro Connection Torches
QUALITY INDUSTRIAL TOOLING

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



Product Number	Max. Rating	Wire Sizes (mm)	Standard Tip Size	Cable Length	Order Code KEN-885	Offer Price/1
MTE154	150A	0.6 - 1.0	0.8mm	4m	-3080K	£63.92
MTE254	230A	0.8 - 1.2	1.0mm	4m	-3100K	£71.92
MTE364	340A	0.8 - 1.2	1.2mm	4m	-3120K	£79.92



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



Product Number	Max. Rating	Wire Sizes (mm)	Standard Tip Size	Cable Length	Order Code BZL-885	Offer Price/1
MB15AKE	180A	0.6 - 1.0	0.8mm	3m	-0249J	£77.74
				4m	-0250K	£86.79
MB25AKE	230A	0.8 - 1.2	1.0mm	4m	-0295E	£108.49
				3m	-0294D	£99.44
MB36KDE	290A	0.8 - 1.2	1.2mm	4m	-0341N	£153.68
				3m	-0340M	£144.65
MB501DE	500A	1.0 - 1.6	1.2mm	4m	-0642C	£288.58

KENNEDY Mig Torch Liners
QUALITY INDUSTRIAL TOOLING

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



Length Metre	Product Number	For Wire Size (mm)	Order Code KEN-883	List Price/1	Offer Price/1
3	124.0011	0.6 - 0.9	-7010K	£6.14	£4.30
3	124.0026	1.0 - 1.2	-7040K	£6.14	£4.30
4	124.0012	0.6 - 0.9	-7020K	£7.16	£5.01
4	124.0031	1.0 - 1.2	-7050K	£7.16	£5.01

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.
For Binzel style torches.



Tef* = Teflon® type for use with aluminium wire.

Length Metre	Product Number	For Wire Size (mm)	Order Code BZL-883	List Price/1	Offer Price/1
3	124.0011	0.6 - 0.9	-1241A	£6.14	£4.48
4	124.0012	0.6 - 0.9	-1242B	£7.16	£5.23
3	124.0026	1.0 - 1.2	-1246F	£6.14	£4.48
4	124.0031	1.0 - 1.2	-1248K	£7.16	£5.23
5	124.0035	1.0 - 1.2	-1249L	£8.24	£6.02
5	126.0021	1.0 - 1.2Tef*	-1261A	£16.07	£11.73
3.5	126.0039	1.6Tef*	-1267C	£16.07	£11.73
4	126.0026	1.0 - 1.2Tef*	-1262B	£20.66	£15.08
8	122.0040	2.0	-1223E	£12.23	£8.93
8.5	126.0047	1.6	-1270F	£38.99	£28.46
12	126.0047	1.6	-1270M	£58.56	£42.75

Welding

KENNEDY Mig Torch Accessories
QUALITY INDUSTRIAL TOOLING

Also compatible with Parweld and Binzel torches.

Contact Tips & Tip Adaptors



For Torch Number	Product Number	For Wire Size (mm)	Order Code KEN-883	Offer Price/1
MTE 154	140.0008	0.6	-7120K	£0.32
	140.0059	0.8	-7240K	£0.32
	140.0253	1.0	-7360K	£0.32
MTE 154/254/364	140.0051	0.8	-7200K	£0.49
	140.0054	0.8 H.Duty	-7220K	£0.85
	140.0242	1.0	-7300K	£0.49
	140.0245	1.0 H.Duty	-7320K	£0.85
	140.0379	1.2	-7400K	£0.49
MTE 254	142.0001	Tip Adaptor	-7500K	£1.40

Nozzles

Conical



Tapered



For Torch Number	Product Number	Style	Order Code KEN-883	Offer Price/1
MTE15-4	145.0075	Conical	-7600K	£2.09
MTE254	145.0076	Conical	-7610K	£2.56
	145.0124	Tapered	-7640K	£2.90
STD364	145.0078	Conical	-7620K	£3.80

BINZEL Mig Torch Accessories

Also compatible with Parweld torches.

Contact Tips



For Torch Number	Product Number	For Wire Size (mm)	Order Code BZL-883	Offer Price/1
MB15	140.0008	0.6	-1408D	£0.34
	140.0059	0.8	-1419L	£0.34
	140.0253	1.0	-1453S	£0.34
MB25/26	140.0051	0.8	-1416H	£0.51
	140.0054	0.8 H.Duty	-1417J	£0.89
	140.0242	1.0	-1442B	£0.51
MB36	140.0245	1.0 H.Duty	-1444D	£0.89
	140.0379	1.2	-1479M	£0.51
	140.0382	1.2 H/D	-1481P	£0.89
MB40	140.0313	1.0	-1473H	£0.77
	140.0316	1.0 H/D	-1473M	£1.35
	140.0442	1.2	-1484P	£0.77
MB501	140.0445	1.2 H.Duty	-1486S	£1.35
	140.0536	1.4 H.Duty	-1492D	£1.35
	140.0590	1.6 H.Duty	-1499X	£1.35

Nozzles

Conical



Tapered



For Torch Number	Product Number	Style	Order Code BZL-883	Offer Price/1
MB14/15	145.0075	Conical	-1575T	£2.18
MB25	145.0076	Conical	-1576V	£2.66
	145.0124	Tapered	-1595A	£2.66
MB36	145.0078	Conical	-1577M	£3.96
MB24	145.0080	Conical	-1578N	£3.71

parweld Mig Torch Accessories

Bernard Style EZ MIG Spares
Head Assembly 4335 to suit EZ200/300. 4435 & 4635 to suit EZ350/400/500.



Tip Type	Product Number	Order Code PWD-883	List Price/1	Offer Price/1
Short	4335	-1605G	£6.40	£4.16
	4435	-1635T	£6.40	£4.16
Long	4635	-1675W	£6.81	£4.43

Heavy Duty Nozzles
24AH50, 24AH62 and 24AH75 to suit No.4 torch.
24A50, 24A62 and 24A75 to suit No.3 and No.4 torches.



Product Number	To Suit Torch	Order Code PWD-883	List Price/1	Offer Price/1
24A-50	No.3	-0824A	£2.62	£1.70
24A-62	No.4	-0824C	£2.62	£1.70
24A-75	No.4	-0824E	£2.62	£1.70
24AH-50	No.4	-0824K	£5.07	£3.30
24AH-62	No.4	-0824M	£5.07	£3.30
24AH-75	No.4	-0824P	£5.07	£3.30

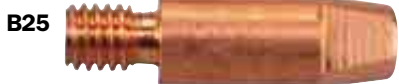
Contact Tips - ECU

14-range to suit No.2, No.3 and No.4 torches.
15H35, 15H40, 15H45, 15H116 and 15H332
15-range to suit No.5 torch.
14H-range to suit No.2, No.3 and No.4 torches.



Product Number	Size (mm)	Order Code PWD-883	List Price/1	Offer Price/1
14-23	0.6	-0814C	£0.56	£0.36
14-30	0.8	-0814E	£0.56	£0.36
14-116	1.6	-0814A	£0.56	£0.36

Contact Tips & Tip Adaptors



For Torch Number	Product Number	For Wire Size (mm)	Order Code PWD-883	Offer Price/1
B1E	B1527-09	0.9	-2077A	£0.30
BS25/	B2504-06	0.6	-2201E	£0.36
EC025	EB2504-10	1.0	-2203G	£0.36
& MB36	EB2504-12	1.2	-2204H	£0.36

parweld Mig Torch Accessories

Nozzles
Tapered



For Torch Number	Product Number	Style	Order Code PWD-883	Offer Price/1
EC015	B1531	Tapered	-2081R	£2.20
EC025	B2509	Tapered	-2213S	£1.98

Tweco Style Mig Spares Gas Diffusers

54A For use with adjustable nozzles to suit No.3 and No.4 torches.
55SW To suit No.5 torch.



Product Number	Size (mm)	Order Code PWD-883	List Price/1	Offer Price/1
54A	-	-1054M	£2.96	£1.92
55SW	-	-1055N	£3.71	£2.41

MUREX Mig Torch Accessories

Insulators



For Torch Type	Type	Order Code MUR-883	List Price/1	Offer Price/1
MX15	1408622	-4066D	£9.17	£6.42
MX25	1408620	-4066B	£16.37	£11.46
MX36-40	1408621	-4066C	£20.16	£14.11
MX50-60	1408623	-4066E	£20.65	£14.46

Gas Diffuser



For Torch Type	Product Number	Order Code MUR-883	List Price/5	Offer Price/5
MX25	1408655	-4066R	£21.35	£14.95
MX50	1408658	-4066Z	£26.33	£18.43

Nozzles



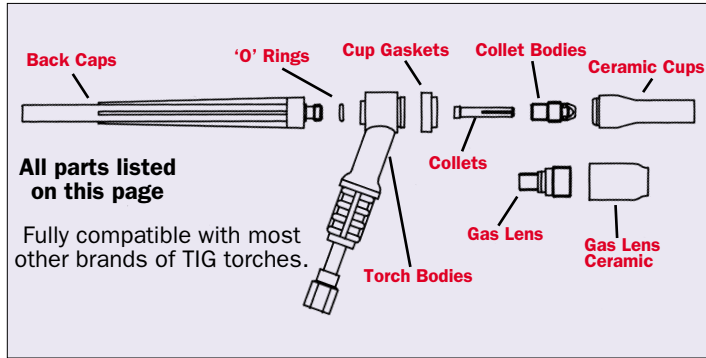
For Torch Type	Product Number	Type	Order Code MUR-883	Offer Price/1
MX15-20	1408599	Tapered	-4064Z	£4.35
	1408600	Tapered Short	-4065B	£3.23
	1408602	Tapered	-4065H	£4.63
MX25-35	1411350	Tapered Short	-4135K	£5.18
	1408604	Parallel	-4065P	£5.24
	1408605	Tapered	-4065S	£7.39
MX36-40-45	1406336	Recess HD	-4036M	£8.71

GROUP 885 TIG WELDER ACCESSORIES & SPARES

KENNEDY TIG Torches and Bodies
QUALITY INDUSTRIAL TOOLING

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.



All parts listed on this page

Fully compatible with most other brands of TIG torches.



Tig Torches
Come complete with a 12.5ft 3.8m cable

Product Number	Type & Size	Order Code KEN-885	List Price/1	Offer Price/1
TTS017	Standard Rigid Head Tig Torch 150DC/120AC - Water Cooled	-3200K	£38.90	£31.12
TTS018	Standard Rigid Head Tig Torch 350DC/250AC - Water Cooled	-3220K	£39.50	£31.60
TTS026	Standard Rigid Head Tig Torch 200DC/160AC - Air Cooled	-3240K	£37.50	£30.00
TTF026	Flexible Head Tig Torch 200DC/160AC - Air Cooled	-3340K	£33.90	£27.12

Torch Bodies

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

Product Number	Type & Size	Order Code KEN-885	List Price/1	Offer Price/1
WP17	WP17 Standard torch body	-6500K	£8.40	£6.72
WP18	WP18 Standard torch body	-6520K	£9.76	£7.81
WP26	WP26 Standard torch body	-6540K	£9.10	£7.28
WP17FX	WP17 Flexi torch body	-6510K	£8.40	£6.72
WP26FX	WP26 Flexi torch body	-6550K	£9.10	£7.28

Back Caps

BIN57Y_ _ To suit WP17/18/26 torches.



Product Number	To Suit	Order Code KEN-885	List Price/1	Offer Price/1
57Y04	Short	-7710K	£2.65	£2.12
57Y02	Long	-7700K	£2.78	£2.22

Cup Gaskets

Product Number	To Suit	Order Code KEN-885	List Price/1	Offer Price/1
18CG	WP17/18/26	-7400K	£1.60	£1.28

Collets

10N_ _ To suit WP17/18/26 torches.



Product Number	Bore Size	Order Code KEN-885	List Price/1	Offer Price/1
10N21	0.5mm (0.020")	-7200K	£0.89	£0.71
10N22	1.0mm (0.040")	-7210K	£0.89	£0.71
10N23	1.6mm (1/16")	-7220K	£0.89	£0.71
10N24	2.4mm (3/32")	-7230K	£0.89	£0.71
10N25	3.2mm (1/8")	-7240K	£0.89	£0.71

Collet Bodies

10N_ _ To suit WP17/18/26 torches.



Product Number	Bore Size	Order Code KEN-885	List Price/1	Offer Price/1
10N30	1.0mm (0.040")	-7260K	£2.29	£1.83
10N31	1.6mm (1/16")	-7270K	£2.29	£1.83
10N32	2.4mm (3/32")	-7280K	£2.29	£1.83
10N28	3.2mm (1/8")	-7250K	£2.29	£1.83

Ceramic Cups - Standard Length

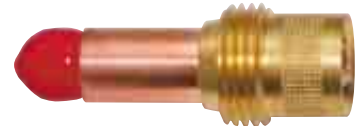
10N_ _ To suit WP17/18/26 torches.



Product Number	Bore Size	Order Code KEN-885	List Price/1	Offer Price/1
10N50	1/4" (No. 4)	-7360K	£1.02	£0.82
10N49	5/16" (No. 5)	-7350K	£1.02	£0.82
10N48	3/8" (No. 6)	-7340K	£1.02	£0.82
10N47	7/16" (No. 7)	-7330K	£1.02	£0.82
10N46	1/2" (No. 8)	-7320K	£1.02	£0.82
10N45	5/8" (No. 10)	-7310K	£1.07	£0.86
10N44	3/4" (No. 12)	-7300K	£1.07	£0.86

Gas Lens Body

45V24/25/26/27 To suit WP17/18/26 torches.



Product Number	Bore Size	Order Code KEN-885	List Price/1	Offer Price/1
45V24	1.0mm (0.040")	-7500K	£5.32	£4.26
45V25	1.6mm (1/16")	-7510K	£5.32	£4.26
45V26	2.4mm (3/32")	-7520K	£5.32	£4.26
45V27	3.2mm (1/8")	-7530K	£5.32	£4.26

Gas Lens Ceramics

54N_ _ To suit WP17/18/26 torches.



Product Number	Bore Size	Order Code KEN-885	List Price/1	Offer Price/1
54N18	1/4" (No. 4)	-7640K	£1.61	£1.29
54N17	5/16" (No. 5)	-7630K	£1.25	£1.00
54N16	3/8" (No. 6)	-7620K	£1.25	£1.00
54N15	7/16" (No. 7)	-7610K	£1.25	£1.00
54N14	1/2" (No. 8)	-7600K	£1.25	£1.00
54N19	5/8" (No. 10)	-7650K	£1.61	£1.29

Gas Lens Heatshield

54N01



Product Number	Type	Order Code KEN-885	List Price/1	Offer Price/1
54N01	Gas Lens Heatshield	-7560K	£4.80	£3.84

Welding

SOLENT MAINTENANCE 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.



BIG VALUE 500ml Cans!

Flaw Detector Cleaner Spray

SF1-500B

Quick drying, powerful solvent for cleaning surfaces prior to testing. Removes contaminants including oils, greases and grime.

Product Number	Size	Order Code	List Price/1	Offer Price/1
SF1-500B	500ml	SOL-732	£13.40	£10.72

Flaw Detector Dye Penetrant

SF2-500B

Highly sensitive red dye, for use when detecting flaws on metal components under normal lighting conditions.

Product Number	Size	Order Code	List Price/1	Offer Price/1
SF2-500B	500ml	SOL-732	£17.09	£13.67

Flaw Detector Developer

SF3-500B

White film to highlight any faults which have been detected when using Flaw Detector Penetrant. The product should be removed using Flaw Detector Cleaner Spray once cracks have been found and marked.

Product Number	Size	Order Code	List Price/1	Offer Price/1
SF3-500B	500ml	SOL-732	£14.99	£11.99

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.



Size	Order Code	List Price/1	Offer Price/1
5ltr	SOL-732	£6.13	£4.90
20ltr	-9310K	£21.70	£17.36

Antox

Stainless Steel Pickling Paste

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



Product Number	Size	Order Code	List Price/1	Offer Price/1
71E	2kg	CTL-885	£39.00	£31.20

Water Based Anti-Spatter (not illustrated)

Product Number	Size	Order Code	List Price/1	Offer Price/1
1365	5ltr	CTL-885	£17.50	£14.00

MUREX 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.



Pack Size	Order Code	List Price/1	Offer Price/1
500g	MUR-885	£6.74	£5.39

Welders Anti-Spatter Spray

SW1-400C

Solvent based coating that is applied to metal before welding. During welding small blobs of molten metal fall either side of the weld. These blobs are called spatter, this coating is applied before welding and prevents the spatter from sticking to the metal. CO₂ gas propelled aerosol. Totally non-flammable. Silicone free and easily removed with solvents prior to galvanising or painting.



Product Number	Size	Order Code	List Price/1	Offer Price/1
SW1-400C	400gm	SOL-732	£5.28	£4.22

'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 propellants involved, 100% product expelled using this unique spraying system that works at 360° with no wastage.



Aerosol Size	Order Code	List Price/1	Offer Price/1
600ml	CTL-885	£6.58	£5.26

sif Tip-Dip 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, contains no harmful hydro-carbons, silicone free.



Pack Size	Order Code	List Price/1	Offer Price/1
500g	SIF-885	£8.65	£6.92

KENNEDY QUALITY INDUSTRIAL TOOLING

Anti-Spatter Spray

AS-90

Prevents build up of weld spatter on work, nozzles, jigs and fixtures. Fast acting. Silicone and CFC-free.



Product Number	Aerosol Size	Order Code	List Price/1	Offer Price/1
AS-90	400ml	KEN-732	£7.33	£5.86

GROUP 885 WELDING GOGGLES & SHIELDS

uvex Futura Infrarad 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. InfraradPlus welding lenses protects against ultra violet and infra red radiation. Adjustable side arm inclination for improved comfort. Duo-flex soft pads on the ear pieces for improved fit and comfort.



Lens Colour	Frame Shade	Order Code	List Price/1	Offer Price/1
Green	1.7	Black -2800N	£8.95	£8.50
Green	5	Black -2810P	£8.95	£8.50

Welders Helmets

To protect the user from UV rays and weld spatter. UK size lens aperture (4 1/4" x 3 1/4"). 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.



Visor Type	Weight each	Order Code CTL-885	List Price/1	Offer Price/1
Flip-up Lens		-2240W	£12.25	£9.80
Replacement Screen		-7375L	£9.63	£7.70

MUREX Hand Held Shields

Both models have UK size lens aperture (4 1/4" x 3 1/4"). Lenses supplied separately.



Model Number	Weight each	Order Code MUR-885	List Price/1	Offer Price/1
SF12	600g	-0605F	£16.46	£13.17
SF2	600g	-0606G	£15.14	£12.11

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.



Lens Type	Weight each	Order Code CTL-885	List Price/1	Offer Price/1
Round - Fixed		-7427D	£6.10	£4.88
Round - Flip-up		-7428E	£4.95	£3.96
One - Piece		-7429F	£2.56	£2.05

Lenses to Suit Gas Welding Goggles

To protect the user from UV rays and weld spatter.



Lens Size	Type	Colour/ Shade	Order Code CTL-885	List Price/1	Offer Price/1
2" dia.	Green Shaded	Sh. 5	-7388V	£0.46	£0.37
		Sh. 4	-7387T	£0.46	£0.37
2" dia.	Anti Spatter Front	Glass Front	-7383P	£0.14	£0.11
		Clear	-7385R	£0.42	£0.34

Lenses to Suit Helmets & Shields

To protect the user from UV rays and weld spatter.

*Standard UK size.



Lens Size	Type	Colour/ Shade	Order Code CTL-885	List Price/1	Offer Price/1
4 1/4" x 3 1/4"*	Glass Front Anti Spatter Front Polycarb' Back	Clear	-7411M	£0.14	£0.11
		Clear	-7418V	£0.63	£0.50
		Clear	-7419W	£0.53	£0.42
4 1/4" x 3 1/4"*	Green Shaded	Sh. 8	-7412N	£0.81	£0.65
		Sh. 9	-7413P	£0.81	£0.65
		Sh. 10	-7414Q	£0.81	£0.65
		Sh. 11	-7415R	£0.81	£0.65
4 1/4" x 2"	Green Shaded	Sh. 12	-7416S	£0.81	£0.65
		Sh. 13	-7417T	£0.81	£0.65
		Sh. 9	-7399B	£0.49	£0.39
		Sh. 10	-7400C	£0.49	£0.39
4 1/4" x 2"	Green Shaded	Sh. 11	-7401D	£0.49	£0.39
		Sh. 12	-7402E	£0.49	£0.39
		Sh. 13	-7403F	£0.49	£0.39
4 1/4" x 2"	Glass Front Anti Spatter Front Polycarb' Back	Clear	-7409L	£0.11	£0.09
		Clear	-7408K	£0.46	£0.37
		Clear	-7407J	£0.39	£0.31
4 1/2" x 5 1/4"	Anti Spatter Front	Clear	-7481P	£1.79	£1.43
		Sh. 9	-7420X	£0.88	£0.70
110 x 60mm	Green Shaded	Sh. 10	-7421Y	£0.88	£0.70
		Sh. 11	-7422Z	£0.88	£0.70
110 x 60mm	Polycarb' Back	Clear	-7426C	£0.70	£0.56
		Sh. 8	-7442G	£1.19	£0.95
110 x 90mm	Green Shaded	Sh. 9	-7443H	£1.19	£0.95
		Sh. 10	-7444J	£1.19	£0.95
		Sh. 11	-7445K	£1.19	£0.95
110 x 90mm	Anti Spatter Front	Clear	-7448N	£1.19	£0.95

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).



Outer Protection Plate Standard **426000**
Outer Protection Plate Scratch Resistant **427000**
Inner Protection Plate **428000**

Model Number	Shade	Order Code MMM-885	List Price/1	Offer Price/1
Utility	11	-7000A	£120.00	£96.00

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.



Shade 5 side windows with optional blackout cover.

Outer Protection Plate Standard **426000**
Outer Protection Plate Scratch Resistant **427000**
Inner Protection Plate **428000**

Model Number	Shade	Order Code MMM-885	List Price/1	Offer Price/1
9002V	9 - 13	-0900V	£230.00	£184.00

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.



45% larger viewing area than 9002V (55 x 107mm).

Outer Protection Plate Standard **426000**
Outer Protection Plate Scratch Resistant **427000**
Inner Protection Plate **428010**

Model Number	Shade	Order Code MMM-885	List Price/1	Offer Price/1
9002X	9 - 13	-0910X	£260.00	£208.00

Spare Protection Plates for Lenses

Product Number	Description	Pack Quantity	Order Code CTL-885	List Price/Pk	Offer Price/Pk
426000	Outer Standard	10	-2410M	£23.25	£18.60
428000	Inner	5	-2412P	£11.62	£9.30

Product Number	Description	Pack Quantity	Order Code CTL-960	Offer Price/1
427000	Outer Scratch Resistant	10	-4270T	£32.92
428010	Inner	5	-4290M	£13.42

Speedglas Air Filters

For use with the Adflo fresh air unit.

Product Number	Description	Pack Quantity	Order Code CTL-960	Offer Price/Pk
836010	Prefilter	5	-6270L	£9.10
837010	Particle filter	1	-6280M	£26.26

KENNEDY Automatic Welding Helmets

Automatically protects the operator from eye injuries caused by arc, leaving both hands free. Equipped with 2 sets of photosensors to sense arc light. Solar power relieves the need for batteries. Offers permanent UV/IR protection up to **DIN 15** whilst in use. Welding shade can be easily selected by way of a side mounted adjustment dial. Automatically detects weld arc and switches from shade 4 to pre-selected shade (9, 10, 11, 12 or 13). Time to dark: 0.5ms. The shells are certified to **BS 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.**



Light to Dark 0.5 milliseconds

Type	Weight each	Order Code KEN-885	List Price/1	Offer Price/1
Auto variable 9 - 13	480g	-5020K	£99.99	£79.99

Spare Cover lenses

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

Type	Size	Order Code CTL-885	List Price/Pk	Offer Price/Pk
Inner	107 x 45mm	-7983K	£18.24	£14.59
Outer	110 x 90mm	-7983E	£18.24	£14.59

Spare Helmet Harness

Type	Weight each	Order Code PRO-885	Offer Price/1
Adjustable		-0004A	£3.49

Jet Black Auto X

The Kennedy 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 may be set at between 0.1 - 0.5 second.

IDual power: Battery and solar.
Light to dark: 0.0001 seconds
Dark to light: 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 **DIN 16**.

Complete with additional sweat band. Light weight - less than 0.5kg.



Light to dark 0.1 milliseconds

Type	Weight each	Order Code KEN-885	List Price/1	Offer Price/1
Auto variable 8 - 12	480g	-5060K	£119.00	£95.20

GROUP 885 WELDING HELMETS

MUREX 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.



SF8



SF11

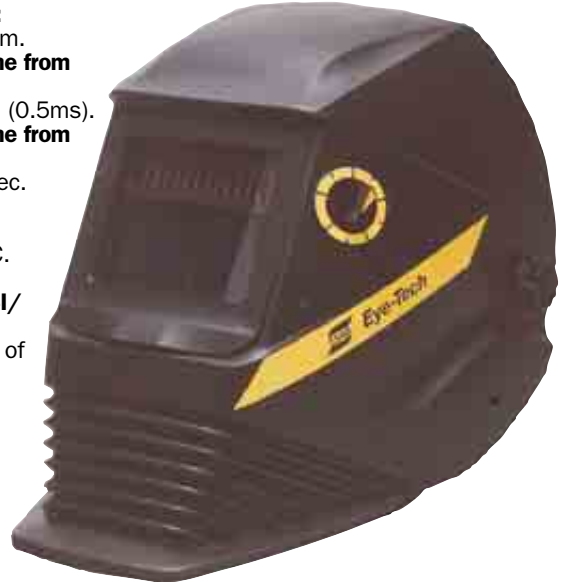
Model Number	Weight each	Order Code MUR-885	List Price/1	Offer Price/1
SF11	600g	-0604E	£18.03	£14.42
SF16	625g	-0601B	£19.73	£15.78
SF8	420g	-0620M	£17.97	£14.38

MUREX 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.



Product Number	Model Number	Welding Shade Range	Weight each	Order Code MUR-885	List Price/1	Offer Price/1
700000888	Eye-Tech 10/11	10 & 11	500g	-0488P	£209.87	£167.90
700000884	Eye-Tech 10/12	10 to 12	500g	-0489Q	£219.51	£175.61
700000880	Eye-Tech 9/13	9 to 13	500g	-0485L	£277.41	£221.93

Martindale Welding Shields

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



Type: S903N
(Helmet not included).

Type: S904N

Product Number	Type of Mount	Weight each	Order Code MRT-957	List Price/1	Offer Price/1
S903N	Helmet		-7900W	£27.81	£23.36

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.



Product Number	Model Number	Welding Shade Range	Weight each	Order Code MUR-885	List Price/1	Offer Price/1
700000890	Eye-Tech 5-13	5-9 & 9-13	500g	-0487N	£358.11	£286.49

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.

Product Number	Description	Size (mm) L x W	Weight each	Order Code MUR-885	List Price/1	Offer Price/1
700000010	Outer Cover	115 x 94		-0491D	£2.58	£2.06
700000011	Inner Cover	98 x 45		-0490C	£1.42	£1.14

SPERIAN **Satellite Electric Helmet**
supplied with OS100 Respirator

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 belt threads 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: 4/5-9 and 4/9-13. **Eye protection:** Maximum UV-&IR-protection at any shade setting
Shade level setting 2 shade level ranges: 5 to 9 and 9 to 13. **Control unit:** Outside of the helmet. **Sensitivity adjustment:** Yes
Adjustment of the detection angle: 60° or 120°. **Grinding mode:** Yes (shade level 4)
Switching time light to dark: 0.2ms at room temperature 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
UK: Assigned Protection Factor (NPF): 20
Blower unit flow rate: min. 150l/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: 1100mm, **weight:** 180g
Dimensions: L x W x H: 249 x 213 x 87mm.
Standards: EN 12941:1998 TH2
Notified body: CE 1024
Warranty: 1 year from date of sale for manufacturing and material defects, no warranty for battery

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.

Model	Shade	Order Code OPT-885	List Price/1	Offer Price/1
Satellite Helmet with OS100 Respirator	4 - 13	-4140M	£613.60	£490.88



Lenses To Suit

Type	Pack Quantity	Order Code OPT-885	List Price/Pk	Offer Price/Pk
Front	2	-5020K	£5.94	£4.75
Rear	5	-5520B	£14.30	£11.44

Welding Helmet

Galaxy 1004.040

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 min. 30A. Autodarkening welding helmet with shade level DIN 4/9 - 13. Switching time from light to dark 0.5 ms at room temperature. Shade level control/adjustment outside the helmet. Powered by solar cells

Specifications:

Material: helmet shell: PA 6
Shade level: 4/9 - 13
Protection: UV/IR - Rays/Visible light
Adjustment of detection angle: Yes
Switching time
Dark to light: 0.3s @ room temp.
Light to dark: 0.4ms @ room temp.
Viewing area: 38 x 98mm
Sensor: 2. **Optical class:** 1
Scattered light: 2. **Homogeneity:** 2
Operating temp.: -10°C to +70°C
Total weight: 480g



Model	Shade	Order Code OPT-885	List Price/1	Offer Price/1
Galaxy 1004.040	4/9 - 13	-1040D	£143.55	£114.84

Lenses To Suit

Type	Pack Quantity	Order Code OPT-885	List Price/pk	Offer Price/pk
Front	2	-5020K	£5.94	£4.75
Rear	5	-5520B	£14.30	£11.44

Welding Helmet

Mira Galaxy Black 1004.050

Standards: EN379,
European directives: 89/686/EEC,
Quality assurance: ISO 9001/2000

Specifications:

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
Sensor: 2. **Optical class:** 1
Scattered light: 2.
Homogeneity: 1
Operating temp.: -10°C to +70°C
Total weight: 460g



Model	Shade	Order Code OPT-885	List Price/1	Offer Price/1
Mira Galaxy 1004.050	3 - 11	-1050E	£124.04	£99.23

Lenses To Suit

Type	Pack Quantity	Order Code OPT-885	List Price/pk	Offer Price/pk
Front	5	-5050N	£11.40	£9.12
Rear	5	-5300X	£4.55	£3.64

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

All Prices Exclude V.A.T. © 2009

GROUP 885 WELDING GLOVES

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 Mig (Minimum Standard)	TYPE B Tig/Argon
EN388	MECHANICAL	
Abrasion Resistance	Level 2	Level 1
Blade Cut Resistance	Level 1	Level 1
Tear Resistance	Level 2	Level 1
Puncture Resistance	Level 2	Level 1
EN407	THERMAL	
Burning Behaviour Resistance	Level 3	Level 2
Contact Heat Resistance	Level 1	Level 1
Convective Heat Resistance	Level 2	Level 2
Radiant Heat Resistance	Level x	Level x
Small Molten Metal		
Splash Resistance	Level 3	Level 2
Large Molten Metal Splash		
Resistance	Level x	Level x
EN1149-2	ELECTRICAL SAFETY	
Dry Conditions		
Test for Welders	10 ⁶ ohms	10 ⁵ ohms
EN420	GENERAL	

Gloves are tested for chemical content of leather, sizing and dexterity.

All welding gloves, which have passed the above tests are awarded an EC Test Certificate, and all packaging and labelling of gloves will show appropriate markings (Pictograms). In addition, all packaging will contain a 'User Information Sheet' which will indicate performance levels achieved.

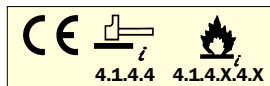
GLOVES WHICH DO NOT COMPLY SHOULD NOT BE USED FOR WELDING PURPOSES



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.



All Gloves Priced Per Pair

Product Number	Size	Weight per pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
HSR-500	11	505g	JAY-961 -5022J	£6.65	£5.65	£5.37

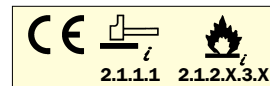
Tig Gauntlet

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



All Gloves Priced Per Pair

Product Number	Size	Weight per pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
ST-100	10	135g	JAY-961 -5071F	£4.94	£4.20	£3.99

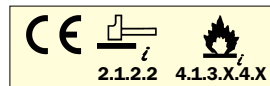
Tig Gauntlet

Ultima Gold

Constructed from quality soft nappa leather for the palm and high quality gold split cow leather for the 10cm cuff. This Tig welding glove offers the very best in terms of close fit and dexterity, which is so important when Tig welding, and as a result of its unusual argon thumb design, this glove also benefits from a particularly high level of comfort.

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

Size 10



All Gloves Priced Per Pair

Product Number	Size	Weight per pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
ABA-200	10	140g	JAY-961 -5066B	£4.94	£4.20	£3.99

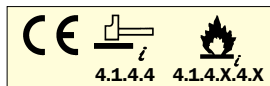
Reinforced Welder's Gauntlet

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



All Gloves Priced Per Pair

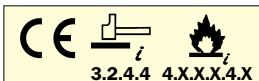
Product Number	Size	Weight per pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
HSR-200	11	445g	JAY-961 -5070E	£4.94	£4.20	£3.99

Reversible Welders Gauntlet

Reversible (Ambidextrous) lined, green welders gauntlet, type A.

CE approved to **EN12477. EN388. EN407.**

Size: 10.5



All Gloves Priced Per Pair

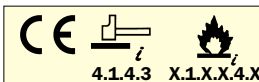
Size	Weight per Pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
10.5		CTL-961	£3.32	£2.99	£2.82

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.



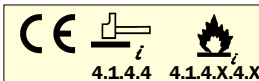
All Gloves Priced Per Pair

Size	Weight per Pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
10		HUR-961	£4.39	£3.69	£3.51

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.



All Gloves Priced Per Pair

Size	Weight per Pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
10		HUR-961	£3.27	£2.75	£2.62

TUFFSAFE®

Heavy Duty Welder's Gauntlet



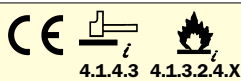
Full five finger welders gauntlet manufactured from select split leather with a full cotton lining with a one piece back. Reinforced palm and thumb for increased wear with no exposed seams to burn.

Kevlar® sewn throughout. Tested to **EN388: 2003 & EN407: 2004.**

Size: 10.



NEW



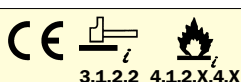
All Gloves Priced Per Pair

Size	Weight per Pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
10		TFF-961	£4.99	£4.24	£3.89

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.**

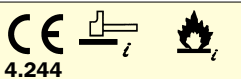


All Gloves Priced Per Pair

Size	Weight per Pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
10	155g	CTL-885	£4.99	£3.99	£3.79

Perfect Fit Heat Resistant MIG Fit

Heat resistant split leather palm. Cotton fleece lining. Back and cuff aluminised Kevlar® fabric. Suitable for applications involving strong radiant heat ie. welding, MIG, ARC etc. Conforms to **CE EN420.**



All Gloves Priced Per Pair

Size	Weight per Pr	Order Code	List Price/Pr	Offer Price/Pr	Offer Price/3+
11		PFT-961	£28.84	£24.23	£22.49
10		PFT-961	£28.84	£24.23	£22.49

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

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.



Size	Weight each	Order Code WDA-957	List Price/1	Offer Price/1
7 1/8"	35g	-5500K	£8.30	£4.98
7 1/4"	35g	-5510K	£8.30	£4.98
7 3/8"	35g	-5520K	£8.30	£4.98
7 1/2"	35g	-5530K	£8.30	£4.98
7 5/8"	40g	-5540K	£8.30	£4.98
7 3/4"	40g	-5550K	£8.30	£4.98

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.



Size	Weight each	Order Code CTL-885	List Price/1	Offer Price/1
7 1/8"	35g	-4711B	£8.82	£7.06
7 1/4"	35g	-4712C	£8.82	£7.06
7 3/8"	35g	-4713D	£8.82	£7.06
7 1/2"	35g	-4714E	£8.82	£7.06
7 5/8"	40g	-4715F	£8.82	£7.06
7 3/4"	40g	-4716G	£8.82	£7.06

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.



Product Number	Type	Size (Length)	Order Code CTL-885	Offer Price/1
1919	With Cape	50cm	-7919D	£8.76
1921	Without Cape	45cm	-7921F	£5.68

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.



Type	W x L (cm)	Order Code CTL-885	List Price/1	Offer Price/1
Tie	60 x 90	-7820D	£10.95	£8.76
Tie	60 x 105	-7821E	£11.95	£9.56
Buckle	60 x 90	-7823G	£11.50	£9.20

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.



Product Number	Size	Order Code CTL-885	List Price/1	Offer Price/1
1833	Large	-7833K	£33.95	£27.16
1834	X-Large	-7834L	£34.95	£27.96

Skull Caps

Can be used independently or in conjunction with other garments to offer optimum protection of the forehead, top and back of the head. With elasticated brow. All seams have heavy duty stitching for durability and extended wear. One size: Medium

CE approved to EN470-1 CAT II.



Product Number	Size	Order Code CTL-885	Offer Price/1	Offer Price/1
1880	Medium	-7880N	£3.62	£2.90



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.



Product Number	Size	Order Code CTL-885	Offer Price/1	Offer Price/1
1871	45cm	-7871M	£7.95	£6.36

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.



Product Number	Size (W x L)	Order Code CTL-885	Offer Price/1	Offer Price/1
1892	35cm	-7892P	£13.95	£11.16

Nederman® 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.



Model Number	Air Flow m ³ /hr	Supply Volts	Order Code NED-885	List Price/1	Offer Price/1
PE5	1600	110V	-6150E	£1236.00	£1236.00
PE8	2400	240V	-6180L	£1599.00	£1599.00

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.



Product Number	Type	Voltage	Order Code NED-885	List Price/1	Offer Price/1
70840100		120V	-1800N	£894.00	£894.00
70840442	840	240V	-1820R	£894.00	£894.00
70841100		120V	-1830T	£1150.00	£1150.00
70841010	841	240V	-1840W	£1150.00	£1150.00

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.



Product Number	Description	Order Code NED-885	List Price/1	Offer Price/1
12622345	110V	-1480P	£2422.00	£2422.00
12623345	240V	-1490Q	£2422.00	£2422.00
Accessory				
12374023	Replacement Filter	-1230M	£459.00	£459.00



Accessories

Model Number	Description	Order Code NED-885	List Price/1	Offer Price/1
70851000	80mm Nozzle	-1910A	£125.00	£125.00
70853000	300mm Nozzle	-1930C	£133.00	£133.00
70854000	200mm Nozzle	-1940D	£125.00	£125.00
70324000	Replacement Filter	-1660A	£154.00	£154.00

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

Welding

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:** 77kg



Product Number	Voltage	Order Code	List Price/1	Offer Price/1
1126	110V	-1126H	£2324.00	£1743.00

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



Product Number	Voltage	Order Code	List Price/1	Offer Price/1
1124	110V	-1124F	£720.00	£612.00

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: 300W
Dimensions (W x D x H):
Internal: 115 x 480 x 115mm
External: 175 x 610 x 210mm
Oven capacity: 13.6kg
Oven weight: 10kg



Product Number	Voltage	Order Code	List Price/1	Offer Price/1
1122	110/240V (Dual)	-1122D	£336.00	£285.60

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



Product Number	Voltage	Order Code	List Price/1	Offer Price/1
1120	110/240V (Dual)	-1120B	£720.00	£612.00

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



Product No	Voltage	Order Code	List Price/1	Offer Price/1
1141	100/240V(Dual)	-1140M	£57.60	£43.20
1141	110V	-1141N	£57.60	£43.20
1141	240V	-1142P	£57.60	£43.20

FOR MILD STEEL & C-Mn STEEL

MUREX LW1 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.



Product Number	Wire Diameter	Order Code MUR-887	List Price/1	Offer Price/1
2302082470	*0.8mm	-2302C	£55.37	£39.87
2302106710	**1.0mm	-2313D	£60.49	£43.55
2302126710	**1.2mm	-2314E	£58.44	£42.08

FOR STAINLESS

OERLIKON 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. Use 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

AWS A5. 9-93

ER316LSi. ASWE

SFA-5.9 ER316LSi.

For stainless steel structures such as plate, pipework, tanks and forgings in the chemical, petro-chemical, pharmaceutical, and food processing industries.

Now Supplied on a Metal 15kg Drum



Wire Dia.	Order Code OER-887	List Price/1	Offer Price/1
0.8mm	-2008D	£229.20	£165.02
1.0mm	-2008G	£224.10	£161.35

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 300S°C . Use 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, 308S93 AWS A5.9-93, ASME SFA-5.9, ER308LSi**. For stainless steel structures such as plate, pipework, tanks and forgings in the chemical, petro-chemical, pharmaceutical, and food processing industries. 15kg reels.

Wire Diameter	Order Code OER-887	List Price/1	Offer Price/1
0.8mm	-2005M	£290.50	£209.16
1.0mm	-2005P	£292.46	£210.57

FOR MILD STEEL & C-Mn STEEL

KENNEDY A18 Mig Wire Reels

PLW 15kg Reels



Deposits C — 1.3% Mn weld metal for mild and medium tensile steels. Copper coat finish and double deoxidised. For use with CO₂ or Ar-CO₂ shielding gas. Made to **BS 2901/1 : 1983 A18 & BS EN 440 G3 Si1**. 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, Migmates etc. Use with CO₂ or Ar-CO₂ shielding gas.



0.7kg Mini Reels

Product Number	Wire Dia.	Order Code KEN-887	Offer Price/1	Offer Price/1
A18-060-0.7	0.6mm	-1860K	£4.92	£3.44
A18-080-0.7	0.8mm	-1880K	£4.33	£3.03
A18-100-0.7	1.0mm	-1900K	£4.38	£3.07

5.0kg Reels

Product Number	Wire Dia.	Order Code KEN-887	Offer Price/1	Offer Price/1
A18-060-5.0	0.6mm	-1960K	£24.98	£17.49
A18-080-5.0	0.8mm	-1980K	£20.61	£14.43
A18-100-5.0	1.0mm	-2000K	£21.30	£14.91

15kg Reels

Use with CO₂ or Ar-CO₂ shielding gas.

*Precision layer wound for positive snag free feeding.

Product Number	Wire Dia.	Order Code KEN-887	Offer Price/1	Offer Price/1
*A18-080-15.0	0.8mm	-2080K	£31.19	£21.83
*A18-100-15.0	1.0mm	-2100K	£25.90	£18.13
*A18-120-15.0	1.2mm	-2120K	£25.90	£18.13

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, Migmates etc. For welding mild steel and C-Mn steels such as boilers, tanks, pipework, machinery, vehicle chassis fabrication 0.8mm diameter mini reels. Random wound and not layer wound.



Product Number	Reel Size	Order Code KEN-887	Offer Price/1	Offer Price/1
FCG-080-0.45	0.45kg	-1620K	£18.62	£13.03
FCG-080-0.9	0.90kg	-1640K	£32.44	£22.71

FOR ALUMINIUM

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.



Al-Si 5%
Made to **BS 2901/1 : 1983 4043A & AWS A5.10-92 ER 4043**. For wrought and cast alloys with up to 7% silicon content.

4043
BS 2901

0.5kg Mini Reels

Product Number	Wire Dia.	Order Code	List Price/1	Offer Price/1
Al-Si-080-0.5	0.8mm	CTL-887	£12.64	£8.85
		-1531B		



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.

5356
BS 2901

0.5kg Mini Reels

Product Number	Wire Diameter	Order Code	List Price/1	Offer Price/1
Al-Mg-080-0.5	0.8mm	CTL-887	£13.99	£9.79
Al-Mg-100-0.5	1.0mm	-1525A	£11.99	£8.39
		-1526B		

FOR ALUMINIUM

sif 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.



Wire Diameter	Reel Size	Order Code	List Price/1	Offer Price/1
1.0mm	6.5kg	SIF-887	£71.40	£71.40
1.2mm	6.0kg	-6060E	£67.25	£67.25
		-6062G		

SIF MIG

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.

Wire Diameter	Reel Size	Order Code	List Price/1	Offer Price/1
1.0mm	6.0kg	SIF-887	£72.70	£72.70
1.2mm	6.0kg	-6260E	£68.25	£68.25
		-6262G		

OERLIKON 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.



Wire Diameter	Order Code	List Price/1	Offer Price/1
0.8mm	OER-887	£47.07	£33.89
1.0mm	-2002B	£42.85	£30.85
	-2003C		

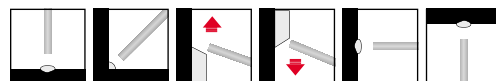
Welding

KENNEDY Electrodes for Mild Steels 6013
QUALITY INDUSTRIAL TOOLING

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 +/-.



HIGHEST QUALITY FOR INDUSTRIAL USE
All to AWS/BS.EN Specification
SUPERB VALUE



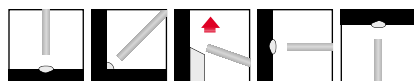
Recommended Amperages

Size (mm)	2.5	3.2	4.0
Min.	50A	80A	120A
Max.	90A	125A	180A

Size (mm)	No of Rods (per pack)	Weight (per pack)	Order Code KEN-891	List Price/Pk	Offer Price/Pk
2.50 x 300	260	5.0kg	-3010K	£17.72	£13.11
3.25 x 350	150	5.0kg	-3020K	£17.72	£13.11
4.00 x 350	100	5.0kg	-3030K	£17.72	£13.11

MUREX Vorex 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 (50V minimum open circuit) and DC +/-.



Recommended Amperages

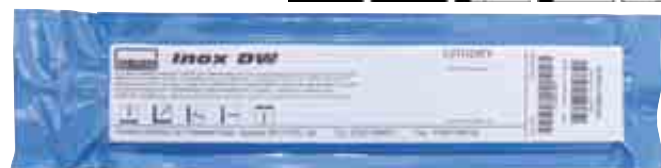
Size (mm)	2.0*	2.5	3.2	4.0	5.0	6.0*
Min.	55A	75A	95A	135A	155A	185A
Max.	75A	100A	125A	180A	230A	300A

* Sizes available on request

Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code MUR-891	List Price/Pk	Offer Price/Pk
Vorex 6013	2.5	310	5.30kg	-5125B	£62.03	£52.73
	3.2	200	7.40kg	-5132C	£66.70	£56.70
	4.0	135	7.50kg	-5140D	£62.82	£53.40
	5.0	80	7.30kg	-5150E	£53.07	£45.11
	6.0	60	7.70kg	-5160F	£55.96	£47.57

OERLIKON Electrodes for Mild Steel

Inox DW ('29.9.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 (70V minimum open circuit) and DC+.



Recommended Amperages

* Sizes available on request

Size (mm)	2.5	3.2	4.0*	5.0*	6.0*
Min.	40A	70A	110A	140A	180A
Max.	80A	120A	160A	200A	240A

Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code OER-892	List Price/Pk	Offer Price/Pk
Inox DW	2.5	65	3.70kg	-5151A	£248.35	£208.61
	3.2	38	4.30kg	-5152B	£240.89	£202.35

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.



Product Number	Electrode Type	Diameter	Weight Per 10	Order Code CTL-889	List Price/Ea	Offer Price/Ea
1104		1.0mm	90g	-1104E	£0.70	£0.56
1106	Thoriated	1.6mm	90g	-1106G	£0.89	£0.71
1107	DC	2.4mm	160g	-1107H	£1.80	£1.44
1108		3.2mm	260g	-1108J	£2.90	£2.32
1097		1.6mm	90g	-1097Y	£1.15	£0.92
1098	Ceriated AC-DC	2.4mm	160g	-1098Z	£1.65	£1.32
1099		3.2mm	260g	-1099M	£2.59	£2.07
1111	Zirconiated AC	1.6mm	90g	-1111M	£1.39	£1.11
1112		2.4mm	160g	-1112N	£2.39	£1.91
1113		3.2mm	260g	-1113P	£3.65	£2.92

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.

Product Number	Electrode Type	Diameter	Weight Per 10	Order Code MUR-889	List Price/10	Offer Price/10
1415131	Thoriated	1.6mm	90g	-1414D	£16.42	£16.42
1415055	Ceriated	1.6mm	160g	-1412D	£16.42	£16.42
1415056		2.4mm	260g	-1412F	£24.99	£24.99
1415141		1.6mm	90g	-1424D	£25.86	£25.86
1415142	Zirconiated	2.4mm	160g	-1425E	£49.16	£49.16
1415143		3.2mm	160g	-1426F	£76.47	£76.47

GROUP 891 ARC WELDING ELECTRODES

OERLIKON Electrodes for Mild Steels

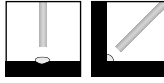
Arc welding rods for mild steel and medium tensile steels.

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

Size (mm)	1.6	2.0	2.5	3.2	4.0
Min.	25A	45A	60A	90A	140A
Max.	50A	70A	100A	140A	200A

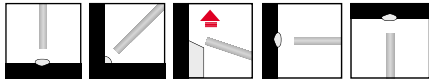
Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code OER-891	List Price/Pk	Offer Price/Pk
Fincord 6013	1.6	220	1.30kg	-3051A	£37.33	£28.37
	2.0	320	3.60kg	-3052B	£77.12	£58.61
	2.5	185	3.90kg	-3053C	£54.14	£41.15
	3.2	110	4.00kg	-3054D	£48.41	£36.79
	4.0	75	5.30kg	-3055E	£52.37	£39.80

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

Size (mm)	2.0	2.5	3.2	4.0	5.0*	6.0*
Min.	40A	55A	80A	120A	160A	220A
Max.	60A	90A	130A	180A	240A	290A

*Sizes available on request

Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code OER-891	List Price/Pk	Offer Price/Pk
Fincord M 6013	2.0	340	3.70kg	-3151G	£65.94	£50.11
	2.5	240	4.10kg	-3152H	£49.67	£37.75
	3.2	140	4.30kg	-3153J	£46.94	£35.67
	4.0	85	5.10kg	-3154K	£51.20	£38.91
	5.0	50	5.13kg	-3155L	£41.98	£31.90

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

Size (mm)	2.0	2.5	3.2	4.0	5.0*	6.0*
Min.	40A	50A	90A	140A	180A	240A
Max.	50A	90A	140A	180A	240A	290A

*Sizes available on request

Type	Size (mm)	No. of Rods (per Pk)	Weight (per Pk)	Order Code OER-891	List Price/Pk	Offer Price/Pk
Overcord Z E6013	2.5	220	4.50kg	-5601A	£53.73	£40.83
	3.2	155	4.50kg	-5602B	£48.34	£36.74
	4.0	100	4.70kg	-5603C	£45.49	£34.57

MUREX Electrodes for Mild Steels

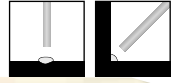
Arc welding rods for mild steel and medium tensile steels.

Mirrospeed

Rutile coated, for light to medium welds in mild steel.

Applications: for steel plate and strip including structural steels, gives a good cosmetic finish to mild steel welds.

N.B. Suitable for AC (45V minimum open circuit) and DC+/-.



Recommended Amperages

Size (mm)	2.5	3.2	4.0	5.0
Min.	65A	80A	120A	150A
Max.	90A	130A	180A	220A

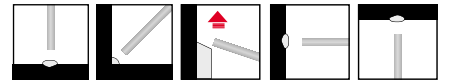
Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code MUR-891	List Price/Pk	Offer Price/Pk
Mirro-speed	2.5	270	5.30kg	-4925Q	£54.96	£46.72
	3.2	165	6.60kg	-4932R	£62.82	£53.40

Satinex

Medium rutile coated, all positional rods. For light to medium fabrication work.

Applications: for steel plate and strip including structural steels.

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



Recommended Amperages

Size (mm)	2.5	3.2	4.0
Min.	70A	90A	120A
Max.	100A	140A	180A

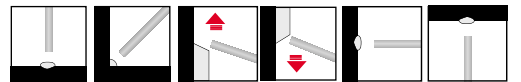
Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code MUR-891	List Price/Pk	Offer Price/Pk
Satinex	2.5	134	2.40kg	-4825L	£22.47	£19.10
	3.2	83	2.50kg	-4832M	£19.90	£16.91
	4.0	135	5.50kg	-4840N	£41.21	£35.03

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

Size (mm)	2.5	3.2	4.0	5.0*	6.0*
Min.	70A	90A	130A	180A	220A
Max.	95A	120A	190A	230A	300A

*Sizes available on request

Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code MUR-891	List Price/Pk	Offer Price/Pk
Zodian Universal 6013	2.5	134	2.40kg	-5725G	£24.99	£21.24
	3.2	83	2.40kg	-5732H	£22.15	£18.83
	4.0	135	5.80kg	-5740J	£47.23	£40.15

Welding

KENNEDY Electrodes for Mild Steels
QUALITY INDUSTRIAL TOOLING

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-.



Recommended Amperages

Size (mm)	2.6	3.2	4.0
Min.	70A	95A	130A
Max.	100A	125A	170A

Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code	List Price/Pk	Offer Price/Pk
2.60 x 300	260	5.0kg	-5110K	£19.54	£14.46
3.20 x 350	150	5.0kg	-5120K	£19.54	£14.46
4.00 x 450	100	5.0kg	-5130K	£22.99	£17.01

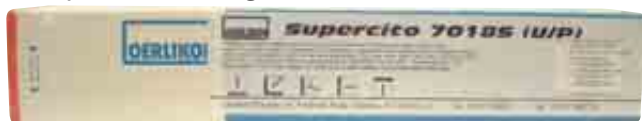
OERLIKON Electrodes for Mild Steels

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, compensates 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		*Sizes available on request			
Size (mm)	2.5	3.2	4.0	5.0*	6.0*
Min.	70A	95A	130A	180A	210A
Max.	100A	130A	180A	240A	330A

Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code	List Price/Pk	Offer Price/Pk
Supercito 7018S	2.5	170	3.90kg	-6051A	£44.36	£33.71
	4.0	80	5.40kg	-6053C	£51.45	£39.10

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		*Sizes available on request		
Size (mm)	1.6*	2.5	3.2	4.0*
Min.	20A	45A	70A	100A
Max.	40A	80A	120A	150A

Type	Size (mm)	No. of Rods (per Pk)	Weight (per Pk)	Order Code	List Price/Pk	Offer Price/Pk
Supranox 316L	2.5	180	3.25kg	-6633C	£114.26	£95.98
	3.2	115	4.10kg	-6635E	£136.19	£114.40

MUREX Electrodes for Stainless Steels

For welding 316L austenitic steels.

Nicrex E316L

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 (50V minimum open circuit) and DC+.



Recommended Amperages		*Sizes available on request				
Size (mm)	1.6	2.0	2.5	3.2	4.0*	5.0*
Min.	35A	45A	60A	80A	120A	150A
Max.	50A	65A	90A	125A	170A	240A

Type	Size (mm)	No of Rods (per Pk)	Weight (per Pk)	Order Code	List Price/Pk	Offer Price/Pk
Nicrex	1.6	150	1.70kg	-6550A	£70.02	£59.52
	2.0	139	1.60kg	-6552C	£58.52	£49.74
	2.5	89	1.70kg	-6554E	£53.08	£45.12
	3.2	54	2.00kg	-6556G	£57.80	£49.13
	4.0	78	4.30kg	-6580H	£118.46	£100.69

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.



Recommended Amperages		*Sizes available on request			
Size (mm)	2.0	3.2	4.0	5.0*	
Min.	60A	80A	110A	140A	
Max.	90A	120A	170A	230A	

Type	Size (mm)	No. of Rods (per Pk)	Weight (per Pk)	Order Code	List Price/Pk	Offer Price/Pk
Nicrex E312	2.5	83	1.5kg	-6634E	£65.63	£55.79
	3.2	50	1.8kg	-6636G	£71.92	£61.13

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES

All Prices Exclude V.A.T. © 2009



Brazing Rods
All weights approximate.



See Pages 1483 to 1489 for Oxy-Acetylene Equipment

Sifbronze No.1 - BS1845 C26 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.

Type	Size (mm)	Weight per Pk	Order Code SIF-891	List Price/Pk	Offer Price/Pk
Sifbronze No.1	1.6	1.0kg	-6116R	£30.40	£24.32
	2.4	1.0kg	-6124S	£27.35	£21.88
	3.2	1.0kg	-6132T	£25.15	£20.12
	1.6	2.5kg	-6216H	£58.20	£46.56
	2.4	2.5kg	-6224J	£52.55	£42.04
	3.2	2.5kg	-6232K	£48.30	£38.64

Sifredicote No.1 - BS1845 & BS1453 C2

General purpose brazing or bronze welding with extended full flux coating. For brazing copper and steel. Melts at 875°C.

Type	Size (mm)	Weight per Pk	Order Code SIF-891	List Price/Pk	Offer Price/Pk
Redicote No.1	1.6	1.0kg	-7316D	£53.25	£42.60
	2.4	1.0kg	-7324E	£36.80	£29.44

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.

Type	Size (mm)	Weight per Pk	Order Code SIF-891	List Price/Pk	Offer Price/Pk
Sifsteel No.11	1.6	1.0kg	-8166R	£6.75	£5.40
	2.4	1.0kg	-8174S	£6.25	£5.00
	3.2	1.0kg	-8182T	£5.90	£4.72
	1.6	2.5kg	-8216B	£14.70	£11.76
	2.4	2.5kg	-8224D	£13.80	£11.04
	3.2	2.5kg	-8232E	£12.80	£10.24
	1.6	5.0kg	-8246S	£23.65	£18.92

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.

Type	Size (mm)	Weight per Pk	Order Code SIF-891	List Price/Pk	Offer Price/Pk
Sifsteel A15	1.6	2.5kg	-8416C	£24.05	£19.24
	2.4	2.5kg	-8424D	£22.15	£17.72

Aluminium Tig/Gas Welding Rods

Sifalumin No.15 - 5% Silicon

BS 2901 : Part 4 : 1990 4043A. (Tig rods).

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.

Type	Size (mm)	Weight per Pk	Order Code SIF-891	List Price/Pk	Offer Price/Pk
Sifalumin No.15	1.6	1.0kg	-5516F	£16.20	£12.96
	2.4	1.0kg	-5524G	£15.20	£12.16
	1.6	2.5kg	-5616J	£26.30	£21.04
	2.4	2.5kg	-5624K	£23.85	£19.08
	3.2	2.5kg	-5632L	£23.45	£18.76

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).

Type	Size (mm)	Weight per Pk	Order Code SIF-891	List Price/Pk	Offer Price/Pk
Sifalumin No.27	1.6	2.5kg	-5816S	£27.20	£21.76
	2.4	2.5kg	-5824T	£24.20	£19.36

Stainless Steel Welding Rods

Sifsteel Stainless 308L

BS 2901 : Part 2 : 1990 18/8-308L = 308S92 AWS A/SFA 5-9-93.

Low carbon austenitic filler rod for welding steels of similar composition (18% Cr, 8%Ni). Use with argon shielding gas or argon/5% hydrogen.

Type	Size (mm)	Weight per Pk	Order Code SIF-892	List Price/Pk	Offer Price/Pk
Sifsteel 308L	1.6	1.0kg	-4916M	£19.60	£16.46
	2.4	1.0kg	-4924N	£19.05	£16.00
	1.6	2.5kg	-5016A	£31.75	£26.67
	2.4	2.5kg	-5024B	£30.90	£25.96

Sifsteel Stainless 316L

BS 2901 : Part 2 : 1990 18/8/3 Mo - 316L = AWS A/SFA 5-9-93.

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.

Type	Size (mm)	Weight per Pk	Order Code SIF-892	List Price/Pk	Offer Price/Pk
Sifsteel 316L	1.2	1.0kg	-5212C	£27.70	£23.27
	1.6	1.0kg	-5216D	£20.90	£17.56
	2.4	1.0kg	-5224E	£20.55	£17.26
316L	1.0	2.5kg	-5310F	£52.80	£44.35
	1.2	2.5kg	-5312G	£46.35	£38.93
	1.6	2.5kg	-5316H	£33.90	£28.48
	2.4	2.5kg	-5324J	£33.30	£27.97
	3.2	2.5kg	-5332K	£32.05	£26.92



Aluminium Tig/Gas Welding Rods

All rods 1 metre long. (All weights approximate).

Saffire Aluminium - 5% Silicon - NE21

BS 2901 : Part 4 : 1990 4043A. (Tig rods).

BS 1453 : 1972 (1987) 4043A. (Gas rods).

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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Saffire Aluminium	1.6	2.5kg	-2901A	£40.13	£32.10
	2.4	2.5kg	-2902B	£37.96	£30.37
	3.2	2.5kg	-2903C	£37.78	£30.22

Saffire Aluminium - 5% Magnesium - NE6

BS 2901 : Part 4 : 1990 5356. (Tig rods).

BS 1453 : 1972 (1987) 5356. (Gas 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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Saffire Aluminium	1.6	2.5kg	-2910A	£43.22	£34.58
	2.4	2.5kg	-2911B	£41.04	£32.83
	3.2	2.5kg	-2912C	£41.45	£33.16

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.

EN12072. W19123L.

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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Saffire	1.0	5.0kg	-2916M	£112.97	£90.38
	1.6	5.0kg	-2917N	£94.22	£75.38
	2.4	5.0kg	-2918P	£87.19	£69.75

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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Silicon Bronze	1.6	2.5kg	-9531L	£46.45	£37.16
	2.4	2.5kg	-9532M	£42.74	£34.19
	3.2	2.5kg	-9533N	£40.37	£32.30

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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Fluxo-Bronze K	2.4	2.5kg	-9324A	£56.13	£44.90
	3.2	2.5kg	-9322B	£49.57	£39.66
Fluxo-Bronze Super	2.4	2.4kg	-9400A	£51.49	£41.19
	3.2	2.5kg	-9410K	£45.01	£36.01

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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Copper Coated	1.6	5.0kg	-9501A	£31.75	£25.40
	2.4	5.0kg	-9504D	£27.41	£21.93
Mild Steel	3.2	5.0kg	-9507G	£26.02	£20.82

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.

Type	Size (mm)	Weight per Pk	Order Code MUR-890	List Price/Pk	Offer Price/Pk
Saffire Super	1.6	5.0kg	-3001A	£46.54	£37.23
	2.4	5.0kg	-3002B	£40.47	£32.38

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