



# NATIONAL INDUSTRIAL GAS PLANTS



A Member Of  
M.H. Almana Group Of Companies



**Mr. M.H. Almana**  
Our President



**Mr. Hamad Almana**  
Our Vice President

**NIGP** is the leading Industrial, Medical and high purity Gases and speciality Gas mixtures Manufacturing company in Qatar. Mr. Mohammed Almana, the President of M.H. Almana Group of Companies established National Industrial Gas Plants (NIGP) in 1952. He also started the first Industrial Gas Companies in Qatar and UAE. Currently we have expanded our operations in Saudi Arabia, Egypt and Sudan also. Mr. Hamad Almana, our vice president guided NIGP to manufacture our products to the international standards. Now, we have already completed the international standards of ISO-9001:2008, ISO-14001:2004 and ISO-18001:2007. We are also working on ISO-17025 accreditation.

We are pleased to enlist our important activities as follows: -

**Cryogenic Liquids:** We have facilities for manufacturing Cryogenic Liquids such as Nitrogen, Oxygen, Argon, CO<sub>2</sub> etc. we make our deliveries in vacuum insulated ISO tank containers, semi trailers, skid mounted tanks of various capacities with vaporizers of different flow rates. NIGP also supplies Dewars in different sizes for the liquids.

**Industrial and Medical Gases :** We are manufacturing the Gases of Oxygen, Acetylene, Nitrogen, Hydrogen, Argon, Carbon dioxide, Nitrous Oxide, Medical Oxygen and Breathing Air and the Liquid Gases of Nitrogen, Oxygen and Argon in Qatar.

**High Purity Gases & Calibration Gas Mixtures:** QSG (Quality Specialty Gases) is our facilities for making High Purity Gases and Calibration Gas Mixtures. Our lab is following ISO-6141:2000 for Certificates for the Calibration Gas and Liquid Mixtures, ISO-6142:2001 for the preparation of Calibration Gas mixtures by gravimetric method and ISO-6143:2001 for comparison methods for determining and checking the composition of calibration Gas mixtures for their Certification, Measurement and preparation.

**Dry Ice:** We are producing Dry Ice pellet in 3mm and 16mm sizes and also Blocks in different sizes mainly used for preserving food at sub-zero temperature.

**Refrigerant Gases:** We are also the major whole sale dealer for all Refrigerant Gases, such as R22, R123, R124, R134A, R-141B, R403B, R404A, R407C, R408A, R409, R410A, R600A etc.

**Welding & Cutting Equipment & Consumables:** - Apart from Gases, NIGP is one of the major whole sale traders for Welding items in Qatar. We are the exclusive agent and distributor for many standard international products for welding items from Murex, Esab Automation, CEA, Hyundai, Chosun etc. We always keep a large stock of Regulators, Welding and Cutting machines, Welding Electrodes and Rods, Welding, Cutting & Tig Torches, Welding Helmets, Welding Goggles, Welding Gloves, Welding Jacket, Leg Guard, Hand Sleeves from UK, USA, Germany, Japan, Pakistan, China, Taiwan and India.

**PPE Items:** Also, NIGP is the major whole sale trader for PPE items in Qatar. We are the exclusive agent and distributor for many standard international products from North, Centurion, Faithful, Tuf, Uvex, Wilson, MSA and Udyogi and always keep a large stock of Poly/Cotton, 100% Cotton and Nomex Coveralls, Safety Helmets, Welding Goggles, Safety Spectacles, Safety Harnesses, Safety Shoes, Ear Plugs, Ear Muffs, Face Masks, Working and Chemical Gloves etc. from UK, USA, Germany, Japan, Pakistan, China, Taiwan and India.

**Fire Blanket:** The range of Fothergill Engineered Fabric's (UK) heat resistant materials covers virtually for all thermal insulation and thermal protection applications. They provide cost effective and in many cases safer alternatives to the fabrics in current use. These fabrics contain no asbestos or respirable fibers.

**Garnet :** We are the major supplier of Abrasive Garnet in different sizes 20-40, 30-60 & 60-80 in the standard packing of 25 kgs, 1 & 2 Metric ton Bags. As the agent for IMC (Supreme Garnet) and BMC Garnet, we maintain huge stock to meet the immediate requirements of customers.

**Hydrostatic Pressure Testing of Cylinders:** We have very high quality facilities for Hydrostatic Pressure testing of cylinders. We test cylinders of different sizes for different usage by volumetric expansion method according to BS EN 1968:2002 and BS EN ISO 11623:2002 and our facility is certified by M/s. ABS.

**Fabrication of Gas Equipment:** NIGP is equipped with the workshop for fabricating cylinder racks, manifold quads and trolleys for different types of cylinders. We fabricate and supply 2, 4, 6, 8, 12, 15, 16, 24, 45 and 48 Gas cylinders quads with and without manifolds for all industrial and high purity gases according to the requirement of customers.

**Cylinders:** NIGP is very keen in keeping sufficient stock of cylinders from 1 liter to 68 liters of water capacity in steel and Aluminium materials with the filling pressure up to 300 Bar. NIGP always encouraging customers to use refillable cylinders instead of disposable cylinders which are not good for the environment if improperly disposed off.

At present, we supply our products to companies like QP, Ras Gas, Qatar Gas, QAFCO, QAPCO, QASCO, Q-Chem, QVC, QAFAC, QATALUM, Qatar Shell GTL, Occidental Petroleum, ORYX GTL, Maersk Oil Qatar, KAHRAMAA, QEWC, Hamad Medical Corporation and to major companies and Govt. Departments. We are also exporting to few countries in the Middle East.

Kindly use us for the quality products for the maximum utility of your money and time and contact us for more information.





# Cylinder Racks, Quads, Valves & Liquid Dewars

## Cylinder Racks



### Dimensions for Racks

Description	Approx Dimensions		
	A	B	C
4 Cylinder Rack	620mm	620mm	2000mm
6 Cylinder Rack	850mm	620mm	2000mm
8 Cylinder Rack	620mm	1130mm	2000mm
12 Cylinder Rack	1150mm	900mm	2000mm
16 Cylinder Rack	1360mm	900mm	2000mm
24 Cylinder Rack	1620mm	1200mm	2000mm
48 Cylinder Rack	1860mm	1600mm	2000mm

### Dimensions for Manifolder Quads

Description	Approx Dimensions			Gas Volume Cylinder: 50 Liters Pressure: 200 Bar
	A	B	C	
4 Cylinder Quads	620mm	620mm	2150mm	40m <sup>3</sup>
6 Cylinder Quads	850mm	620mm	2150mm	60m <sup>3</sup>
8 Cylinder Quads	620mm	1130mm	2150mm	80m <sup>3</sup>
12 Cylinder Quads	1150mm	900mm	2150mm	120m <sup>3</sup>
16 Cylinder Quads	1360mm	900mm	2150mm	160m <sup>3</sup>
24 Cylinder Quads	1600mm	1900mm	1250mm	240m <sup>3</sup>
48 Cylinder Quads	2150mm	1900mm	1800mm	480m <sup>3</sup>

## Valves



Various types of Low pressure, High Pressure, Medical & Gas mixtures valves (BS, CGA & DIN) are available with us for Oxygen, Medical Oxygen, Acetylene, Nitrogen, Hydrogen, Argon, Air, Medical Air, Nitrous Oxide, Medical Nitrous Oxide, Ammonia, CO<sub>2</sub>, Helium Hydrogen, Ethylene, Methane, Helium and for all gas mixtures.

BS: British Standard valves are engineered to conform to shapes and dimensions specified by BS-341.

CGA: American Standard CGA type valves are manufactured in conformity with the specifications of the Compressed Gas.

DIN: German Standard DIN-477

Valve: BS-341 No. 3, 4, 6, 7, 8, 10, 12, 13, 14, 15 etc.

Valve: CGA-330, 350, 510, 580, 630, 660, 890 etc.

Valve: DIN-477 No. 1, 5, 6, 7, 8, 9, 10, 11, 13, 14 etc.

Valve: Medical – Pin Index and Yoke

## Refrigerant Gases



Refrigerant Gases in Disposable cylinders and Big cylinders are available such as R-22, R-134A, R-404A, R-407C, R-408A, R-409A R-123, R-124, R-410A, R-141b, R-600A etc. from Europe, India and China.

## Cylinder Manifolder Quads



## Liquid Gases



Cryogenic Liquids such as Nitrogen, Oxygen, Argon, Carbon Dioxide, Helium and Propylene are delivered in ISO tank containers, Semi Trailers, Skid mounted tanks of various capacities with vaporizers of different flow rates. Dewars are available in different sizes such as 25, 35, 60, 65, 100, 175, 250, 300, 350 and 400 Liters.

### Equipment Available to Store and Deliver Liquid Gases

#### Capacity to Store in our plants:

Liquid Nitrogen	- 1,500,000 Liters
Liquid Oxygen	- 200,000 Liters
Liquid Argon	- 58,000 & 100,000 Liters
Liquid CO <sub>2</sub>	- 50,000 Liters

#### Semi trailers:

For Liquid Nitrogen 17 Nos	- 30,000, 25,000, 20,000 & 10,000 Liters each
For Liquid Oxygen 3 Nos.	- 20,000, 10,000 & 6,000 Liters each
For Liquid CO <sub>2</sub> 2 Nos.	- 20,000 Liters each

#### ISO Tank Containers:

For Liquid Nitrogen 5 Nos	- 20,000, 10,000 & 7,570 Liters each
For Liquid Oxygen 2 Nos.	- 20,000 & 18,000 Liters each

#### Skid Mounted Tanks:

For Liquid Nitrogen 3 Nos.	- 20,000 & 12,000 Liters each
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#### Vaporizers:

Mobile Vaporizer and Tankers available in 2500, 2000, 1000 & 500m<sup>3</sup>/hr flow rate.

#### Tankers and Vaporizers:

18,000 Liters 600 m<sup>3</sup>/hr

Our tanks and Tankers are having unloading connection end with S.S. Flangers 150mm OD, 110mm PCD, 4 Holes in 18mm Ø

# Coveralls

## Coverall – Faithful UK



**Model: 401**  
**Fabric: 65% Polyester 35% Cotton.**  
 Traditional stud front style with comfortable Lycra Elastication. Side pockets with access to trousers. Handy pen pocket on sleeve and rule pocket on leg.  
 Fabric manufactured to : BS-1771  
 Overall manufactured to : BS-5750  
 Sizes to : BS-5426  
 Quality assurance : ISO-9002  
**Colour: Royal Blue, Navy Blue & White**



## Flame Retardant PROBAN Coverall



Coveralls-faithful, UK Model: 205  
 Made from 100% cotton with a PROBAN finish. These include covered breast pocket, concealed studs and side pockets constructed to avoid the ingress of sparks of weld splatter. The Garment conforms to both BS EN470 and BS EN-531. Also, we can supply Flame retardant Jacket and Trousers with above standard.



## Nomex Fire Retardant Coverall



Nomex Fire Retardant Coverall  
 Fabric : Nomex III  
**with & without Reflective Tape**  
 Weight : 150 g/sqm  
**Colour: Blue, Khaki & Yellow**  
 2 way zipper, inside and outside masking placket with 3 press studs  
 2 pouches, reach-through with snap fastener  
 1 left hand breast pocket with flap and press stud with pen holder  
 1 right-hand breast pocket with press stud  
 1 right hand back pocket with flap and press stud  
 right hand back pocket with press stud  
 1 Yardstick pocket  
 All press studs are masked to prevent contact with the skin  
 All main seams are doubled seamed

## Comfort Coverall – India



Fabric : 100% Cotton  
 Light weight, zip front, left breast pocket two back pockets, two side pockets and waist belt fastened.  
**Colour: Pale Blue and Yellow**

## Lab Coat – Faithful, UK



Model : 222  
 Fabric : 100% Cotton  
 This has a stud front, traditional three pockets, center vent, and is knee length (100cm). Performance standard based on BS-1771 is closely monitored by Faithful's ISO-9002 registration. This ensures that 300-gsm cotton is dyed and finished to give the wear life associated with this traditional fabric.  
**Colour: White**

## Chemical Suit with Hood



Model: F-1000  
 Made from double-coated PVC on Nylon. Finished weight 379 gms. All seams stitched and high frequency Welded with plastic zip and double Press-stud flap. Hood with drawstring.  
 Standard to EN-465 Type-4  
**Colour: Green**

## Coverall – Faithful UK



Model : 202  
 Fabric : 100% Cotton  
 Traditional stud front style with comfortable Lycra elstication. Side pockets with access to trousers. Handy pen pocket on sleeve and rule pocket on leg.  
 Fabric manufactured to : BS-1771  
 Sizes to : BS-5750  
 Quality assurance : ISO-9002  
**Colour: White, Yellow, Navy Blue & Light Blue**



## Workmaster Coverall – China



Fabric : 65% Polyester 35% Cotton  
 Fabric : 100% Cotton  
 Light weight, zip front, left breast pocket two back pockets, two side pockets and waist belt fastened  
**Colour: Navy Blue, Pale Blue, White, Light Green, Khaki, Red & Yellow**



## Stallion Coverall – China



Fabric : 65% Polyester 35% Cotton  
 Fabric : 100% Cotton  
 Light weight, zip front, left breast pocket two back pockets, two side pockets and waist belt fastened.  
**Colour: Navy Blue, Pale Blue, White, Light Green, Khaki, Red & Yellow**

**STALLION**

## Disposable Coverall – Tyvek, USA



Colour: White  
 Tyvek combines light weight, durable wear ability and high barrier characteristics with low lining and anti-static properties. Tyvek offers outstanding performance for many industrial and agricultural application. Sewn, seams, zipper front. Tyvek coated with polyethylene to provide excellent protection from many dry particles, liquid splash and spray.



Overshoes



Over boots



Hood

## Lab Coat – Faithful, UK



Model : 441  
 Fabric : 65% Polyester 35% Cotton  
 This has a stud front, traditional three pockets, center vent and is knee length (100cm). Performance standard based on BS-1771 is closely monitored by Faithful's ISO-9002 registration. This ensures that 300-gm cotton is dyed and finished to give the wear life associated with this traditional fabric.  
**Colour: White and Navy Blue**

## Winter Jacket



Model: A4001 – Clipper Coat  
 PVC outlet with thick warm lining concealed hood and zip and press stud fastening.  
**Colour: Green and Navy Blue**

Also, we can supply the half lined jacket, trousers, high visibility jacket and waistcoat, PVC apron, PVC hand sleeves etc with CE EN standards



Lined & Flight Jacket



Trousers



High Visibility Jacket



H. Visibility Waist Coat



PVC Apron



PVC Hand Sleeves

## Cotton Gloves



### 8,10 & 12 OZ PVC Dotted Cotton Gloves

Size: 10 ½ length

Knot wrist, polka dot with palm, thumb and first finger made from tacky plastic dots for improved grip. Abrasion resistant material, clute patter.

## Leather work Gloves



### Pasted Cuff, Thickness: 1mm (Leather)

General purpose leather work gloves back of hand and cuff of good quality cotton fabric. Cotton lining on, palm of hand, fingers and thumb of chrome leather. Chrome leather band stitched across the back of hand. Elastic tightening band.

## Welders Welding Gloves



Good quality leather with minimum 1mm thickness inside lining.

Colour: Red or Green

Size: 16" and 14"

## Disposable Gloves



Latex disposable gloves offering excellent dexterity, sensitivity and comfort. Low powdered to absorb perspiration. Ideal for use in electronics, pharmaceuticals and laboratory applications. Packed in hand dispenser box of 100.

## Nitrile Rubber Gloves



Powder free synthetic rubber gloves which offer better puncture and abrasion resistance than natural rubber or vinyl. No latex protein which eliminates protecting skin sanitation. Excellent grip in both wet and dry conditions. Rolled beaded cuffs. USDA accepted. Suitable for food handling. Packed in handy dispenser boxes of 100 Pairs.

## Gauntlet Chemical and Acid Gloves - North



Model No: 604, Colour: Red – 40 cm  
Manufactured to BS 1651

High quality gauntlet offering superior resistance to chemicals, oil, greases. Smooth finish for sensitive and flexible handling. Provides dexterity and comfort chemical to EN-347-3 Mechanical Hazards EN-388 Resistance to Penetration EN-347-2.

**NORTH**

## Electrical Gloves



Lineman Electricians Gloves

These gloves offer the highest level of electrical protection available and are designed to offer maximum comfort.

Working Voltage 500V to 1000V. AC tested to 2500 V

Length: 260mm

Conforms to BS EN-60903 Class 00.

## Chrome Gloves



Men's standard cotton chrome gloves. Chrome leather palms with cotton back and knitted wrists.

## Black Heavy weight Gloves



Natural rubber, protects against acids, alkalis, aldehydes, ketones and salts. Length: 440mm Mechanical Hazards EN-388 Chemical and Micro-organisms EN-374-3 Resistance to penetration EN-374-2. CE Standard

## KEVLAR Gloves



Fabric repels most liquids and commonly used oils. High levels of cut and abrasion resistance.

• CE Standard

• Mechanical Hazards EN-388

## Leather Work Gloves



### Rubberized Cuff, Thickness: 1mm (Leather)

General purpose leather work gloves back of hand and cuff of good quality cotton fabric. Cotton lining on, palm of hand, fingers and thumb of chrome leather. Chrome leather band stitched across the back of hand. Elastic tightening band.

## Tig Welding Gloves



Colour: Grey

Tig welding leather hand gloves with good quality soft leather.

Size: 12" and 14" length

## Vinyl Disposable Gloves



This ambidextrous, strong, vinyl disposable glove is ideal for the food industry. Low powdered to absorb perspiration. Packed in handy dispenser box of 100 pairs.

## Black Heavy Duty Rubber Gloves



Heavy duty natural rubber gloves. This gloves will stand up to repeated knocks. Rubbing and scuffing. Cotton flock lined.

• Mechanical Hazards EN-388

• Chemical and Micro-organisms EN-374-3

• Resistance to penetration EN-374-2

• CE Standard

## Silver Radiant Heat Gloves



Colour: Silver

Split cowhide leather with fire retardant treatment. Back coated with aluminized Kevlar for protection against radiant heat intermittent handling hot parts up to 300 °C and comfortable work at 250 °C. Ideal for foundries and steel works.

Mechanical Hazards EN-388

Heat and Fire EN-407, CE Standard

## Flame Retardant NOMEX-III Gloves



Designed Industrial version of a racing drivers glove. Light and comfortable to wear. Offers outstanding insulation, provides a safe grip and unlike asbestos gloves, can be washed repeatedly. Knitted Nomex fabric.

Length: 300mm with 100mm cuffs.

## Lined Drivers Gloves



Premium quality split hid leather. Thin late-lining ensures warmth with breath ability. Fully lined.

## Nitric-Tec Gloves



Unlined Nitrile synthetic rubber glove. Good abrasion and puncture resistance and chemical protect Mechanical Hazards EN-388

Chemical and Micro-organisms EN-374-3

Resistance to Penetration EN-374-2

CE Standard

Also, we may able to supply different types of gloves as per the customer requirements.



# Safety Helmets

## Safety Helmet – Centurion, UK



**Model: SPARTAN-800**  
 Colour: White, Yellow and Green  
 Materials: Acrylonitrile-Butadiene-Styrene (ABS)  
 Cradle: Low density polyethylene (LDPE)  
 Standards: EN-397  
 Material high-density polyethylene. Fixed with lightweight plastic cradle and adjustable headband. This helmet offers high degree of impact protection combines with lasting comfort during PROLONGED WEAR. These helmets are designed to withstand the effects of atmospheric or chemical solution and are ultra violet stabilized.

## Safety Helmet



**Model: Concept**  
 Colour: Yellow, White

- Light but strong: Concept has broken the barrier of 300g, while maintaining the strength of the lateral deformation (LD) option the EN-397.
- Cool and comfortable to wear: A unique ventilation system option is provided at no extra cost to give concept a good circulation of air, thereby making it even more comfortable to wear for long periods.
- High Absorbent Sweatband: The new 'Hydro-Flock' materials has the capability to absorb a good amount of water, while remaining dry in hot weather conditions.
- Large Budging Areas
- European 30mm slots provided

## Face Shield without Helmet – Centurion, UK



**Model: S89 – Broguard**  
**Model: S910 – Polycarbonate clear screen**  
 The face shield are lightweight without compromising essential protection. They are comfortable, easy to use, give all-round vision and compatible. The face screen and guard against specified hazards throughout industry and conform to BS and EN legislation.  
 Material: Polycarbonate  
 Standard: EN-166 (IMC BS 2092)  
 Size: 225 mm

## Welding Shield with Safety Helmet



**Helmet Model: 1100**  
**Welding Shield Model: S903N**  
 The new lightweight welding shield is a helmet mounted versions. Combines a high impact heat resistant weld shield with an extra large flip front lens holder giving greater all-round vision.  
 Material: Polyamide PA6 Nylon  
 Standard: EN-175  
 Sizes: Short Shell  
 Windows: 110 x 90mm large flip front

## Safety Helmet – MSA, USA



**MSA V-Gard Protective Caps and Hats**  
 helmets consist of a polyethylene shell and suspension system. The rigid shell is lightweight and balanced for all-day wearing comfort. The shell is one piece injection molded of high density polyethylene and has high dielectric strength.  
 Standard to ANSI Z89, 1 197, Class E and G.  
 Colour: White, Green, Orange and Red.

## Safety Helmet – Centurion, UK



**Model: 1100**  
 Colour: White, Yellow, Grey and Blue  
 Weight – 365 grams, Electric – 440V rested.  
 Standard EN-397 and BS-5240.  
 Material high-density polyethylene. Fixed with lightweight plastic cradle and adjustable headband. This helmet offers comfort during prolonged wear. These helmets are designed to withstand the effects of atmospheric or chemical solution and are ultra violet stabilized. This helmet takes full range of connect accessories such as Chin strap, ear defender, clear and tinted face screen and welding shield with flip up facilities.

## Face shield with Helmet – Centurion, UK



Suitable to fix with Centurion Safety Helmet  
 Helmet Model : 1100  
 Face Screen Carrier: Model S54  
 Face Screen: Polycarbonate Clear Screen  
 Screen Model: S580-6, S591 and S593-9”  
 The face shield are lightweight without compromising essential protection. They are comfortable, easy to use, give all-round vision and compatible. The face screen and guard against specified hazards throughout industry and conform to BS and EN legislation.  
 Material: Polycarbonate  
 Standard: EN-166 (IMC BS 2092)  
 Size: 225 mm

## Centurion Baseball Bump Cap



**Model: S28 – Coolcap**  
 For adequate protection this bump cap must fit or be adjusted to the size of the users head. Adjust the bump cap by means of the strap found at the rear of the bump cap for a secure and comfortable fit.  
 This bump cap has been manufactured to the requirements of EN-812:1997  
 -300 degree C Low temperature and + 500 degree C performance.

## Ear Defenders Helmet Mounted



**Model: S41C**  
**Helmet Model: 1100—or Spartan**  
 Hearing is at risk from many sources of noise is the workplace, therefore the availability of suitable hearing protection is of vital importance. Clip-on ear defenders provide 3600 of movement. Pressure-adjustable ear cups make them highly comfortable and adaptable to the needs of every individual. A lock-out facility makes communication and parking easier.  
 Standard: EN 352 Pt3

## Safety Helmet – Udyogi, India



**Model: 5000L**  
 Material: Polyethylene  
 Standard: EN397  
 Weight: 400gms  
 Cradle Low density polyethylene  
 Size: 51-62cm  
 Sweat band: Brushed cloth on foam  
 Colour: Grey, Yellow, White, Blue, Orange, Red and Green.



## Centurion Helmet with Accessories



Face Screen



Face Screen  
225 mm



Face Screen  
150 mm



Screen Carrier



Brow Guard



Chin Strap

# Eye, Ear and Face Protectors

## Wilson Safety Spectacles-USA Spectrum Glasses



Attractive contemporary styling in black & Clear frame colour Scratch resistant hard coat lens to extend the life One size fits all, adjustable temple length Single piece panoramic lens with molded in side shields. Clear lenses absorb >99% of harmful ultraviolet (UV) rays. Meets ANSI Z87.1-1989. Clear, Black & Grey Glasses

## Safety Spectacles — Taiwan



**Model: SS-2533**  
- Attractive single piece lens style - Clear Glass  
- Adjustable temple. - Dark Glass  
- CE Standard

## Safety Spectacles — India



**Model: UD-46**  
Manufactured to CE-EN-166  
Polycarbonate lens. Nylon moulded frame. Easily adjustable side arms for personalized fit. Anti scratch lens. Lens thickness 2.5mm. Clear & Grey Glass

## Safety Spectacles - Taiwan



**Safety Spectacles - Grey**  
**Model : SS-9003**  
Genius frame design one side fit all frame. Impact and scratch resistant lens with flexibility and expandability design that would one size fit all face shape. With color nose pad and color temple pad to increase fashionable look.  
\* Material : PC Lens, Nylon frame  
\* Comfortable nose bridge and rubber leg  
\* Wide range lens protect from brow guard to side shield  
\* With hard coating, anti-scratch and impact  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Adjustable temple leg in length  
\* Meet to ANSI Z87.1, CE EN166

## Safety Spectacles - Taiwan



**Safety Spectacles - Clear**  
**Model : SS-2589**  
Deluxe design Safety spectacles with side shield. Impact and scratch resistant lens with special curved design and side shield for a classy look.  
\* One piece Lens.  
\* Material: PC Lens, Nylon frame  
\* Curved side shield provide wide range protection  
\* With hard coating  
\* Anti scratch and impact  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Meet to ANSI Z87.1, CE EN166

## Safety Spectacles - Taiwan



**Safety Spectacles - Grey**  
**Model : SS-5981M**  
Safety spectacles with new techn TPR / Nylon temple leg. Impact and scratch resistant lens PC lens with Nylon frame and soft nose pad. New technology of dual material making TPR / Nylon adjustable temple leg for comfort.  
\* One piece Lens.  
\* Material: PC Lens, Nylon frame  
\* With hard coating, anti-scratch and impact  
\* Fixed temple leg  
\* Anti scratch and impact  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Meet to ANSI Z87.1, CE EN166

## Safety Spectacles - Taiwan



**Safety Spectacles - Grey**  
**Model : SS-2563M**  
Genius frame design one side fit all frame. Impact and scratch resistant lens with flexibility and expandability design that would one size fit all face shape. With color nose pad and color temple pad to increase fashionable look.  
\* Material : PC Lens, Nylon frame  
\* Comfortable nose bridge and rubber leg  
\* Wide range lens protect from brow guard to side shield  
\* With hard coating, anti-scratch and impact  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Adjustable temple leg in length  
\* Meet to ANSI Z87.1, CE EN166

## Safety Spectacles - Taiwan



**Safety Spectacles - Dark**  
**Model : SS-5624GT**  
Genius frame design one side fit all frame. Impact and scratch resistant lens with flexibility and expandability design that would one size fit all face shape. With color nose pad and color temple pad to increase fashionable look.  
\* Material : PC Lens, Nylon frame  
\* Comfortable nose bridge and rubber leg  
\* Well fit face style safety spectacle,  
\* One piece Lens  
\* Rubber nose pad allows user more comfortable while wearing  
\* With hard coating, anti-scratch and impact  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Gradient tint lens color allow user to use SS-5624GT in indoor And outdoor working places  
\* Meet to ANSI Z87.1, CE EN166

## Half Mask Respirators — North, USA



**Model: 7700 with two cartridge**  
Silicone facepiece features a contoured sealing flange, extended side flanges and low breathing resistance for superior fit and comfort. Cradle suspension doesn't slip like conventional straps. This respirator is approved by NIOSH to protect against hazardous vapours, gases and particular matter, depending upon the type of air-purifying element used.

## Full Face Mask — 3M, USA



**Model: 3M-6900 with two cartridges**  
The 3M 6900 series respirators is not a typical low limited spare parts, cleaning and care of the face piece is fast and simple. The full face is lightweight, well balanced and provides a wide field of vision.

## Spare Cartridges - USA



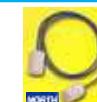
**For above Half and Full face mask**  
The Filter Cartridges are designed to be used across the range of Class 1 respirators. Plastic bodies cartridges with a unique internal thread connection.

## Disposable Ear Plug without cord - USA



**Model: DECIDAMP-2**  
To determine if a hearing protector is 'adequate' for compliance with OSHA Hearing Conservation requirements. Subtract the NRR from the C-weighted environmental noise level. If the difference is 85 dB or less, the hearing protector meets the OSHA adequacy requirement NRR 29dB \* ANSI \* CE standard.  
From: North

## Disposable Ear Plug with cord - USA



**Model : DECIDAMP-2**  
To determine if a hearing protector is 'adequate' for compliance with OSHA Hearing Conservation requirements, subtract the NRR from the C-weighted environmental noise level. If the difference is 85 dB or less, the hearing protector meets the OSHA adequacy requirement.  
\* ANSI \* CE Standard . From: North

## Disposable Dust mask - Taiwan



**Model : FM-302**  
Comfortable protection against nuisance and non-toxic dusts and powders for all renovation work and for house and garden work. Extremely lightweight. Does not impair breathing, voice and vision No interference with Gasses \* 20 pcs per box

## Dust Masks — Taiwan



**Model : DM-002**  
Comfortable protection against nuisance and non-toxic dusts and powders for all renovation work and for house and garden work. Extremely lightweight. Does not impair breathing, voice and vision No interference with Gasses \* 50 pcs per box

## Ear Defenders — Centurion, UK



**Helmet mounted**  
**Model: S41C**  
Standard: EN 352 Pt3  
Clip-on ear defenders provide 360° of movement. Pressure-adjustable ear cups make them highly comfortable and adaptable to the needs of every individual. A lock-out facility makes communication and parking easier.

## Safety Spectacles - Taiwan



**Safety Spectacles - Clear**  
**Model : SS-2743**  
Genius frame design one side fit all frame. Impact and scratch resistant lens with flexibility and expandability design that would one size fit all face shape. With color nose pad and color temple pad to increase fashionable look.  
\* Material : PC Lens, Nylon frame  
\* Flap and sporty style safety spectacles  
\* Lens is changeable  
\* With hard coating, anti-scratch and impact  
\* Comfortable nose bridge and rubber leg  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Meet to ANSI Z87.1, CE EN166

## Safety Spectacles - Taiwan



**Safety Spectacles - Dark & Clear Lens**  
**Model : SS-6000M**  
Genius frame design one side fit all frame. Impact and scratch resistant lens with flexibility and expandability design that would one size fit all face shape. With color nose pad and color temple pad to increase fashionable look.  
\* Material : PC Lens, Nylon frame  
\* Motorcycle sporty style spectacle.  
\* A foam wrap inside to provide comfortable wearing  
\* With hard coating, anti-scratch and impact  
\* Comfortable nose bridge and rubber leg  
\* Anti-scratch and UV370 coating to prevent from 97% ultraviolet  
\* Meet to ANSI Z87.1, CE EN166

## Safety Goggles — Taiwan



**Model: SG-234-51**  
For chemical dust and impact  
Standard to ANSI Z87.1, BS-2092  
From Taiwan

## Safety Goggles — Taiwan



**Model: SG-202 / SG-204**  
For chemical dust and impact  
Standard to ANSI Z87.1, BS-2092  
From Taiwan



# Safety Shoes

## Safety Shoes - Florsheim



**Model : FS-200, With Lace, Colour : Black**  
**Model : FS-205, Without Lace, Colour : Black**  
**Model : FS-201, With Lace, Colour : Brown**  
**Model : FS-206, Without Lace, Colour : Brown**  
 Men's ESD Mocs, cambrelle lined full Cushioned insoles, with chemicals and oil Resistant urethane outsoles.  
 ESD – Footwear that allows static electricity to be dissipated from the wearers body into the walking surface to prevent static electricity build up. The shoes are used in areas where the generation of static electricity could harm electrical equipment, circuit board assembly, the manufacture of computer chips or paint application process.  
 STEEL - Steel toe – Non corrosive toe caps used in footwear to provide protection for the toe area. Steel Toes meet or exceed the ASTM F2413-05 Standard for protective footwear.  
 ASTM-F2413-05 – ASTM F2413-05 is the new official standard for safety footwear in the United States. It replaces the old ANSI Z41 PT99 protective footwear standard.  
 Type : Comfortech Pucker Moc Casual Oxford  
 Lining : Cambrelle  
 Insole : Removable EVA Cushion insert with sponge rubber Heel wedge  
 Outsole : Florsheim Slip resistant PU  
 Special Feature : No Exposed Metal On upper  
 Manufacturer : M/s. Florsheim – USA  
 Manufactured in : China



## Low Ankle Safety Shoe



**ART : LA-1387**  
**Colour : Black, with Lace**  
 The Footwear protects the wearer's toes against risk or injury from falling objects and crushing when in industrial and commercial environments where potential hazards occur. It is important that you choose the correct safety footwear for your specific industrial working environment.  
 • Impact Resistant  
 • Heat Resistant  
 • Shock Absorption  
 • Oil Resistant  
 • Anti Slip Stability  
 • Ventilation / Extra Comfort

## High Ankle Safety Shoe



**High Ankle Safety Shoe**  
**ART : LA-1337**  
**Colour : Black, with Lace**  
 The Footwear protects the wearer's toes against risk or injury from falling objects and crushing when in industrial and commercial environments where potential hazards occur. It is important that you choose the correct safety footwear for your specific industrial working environment.  
 • Impact Resistant  
 • Heat Resistant  
 • Shock Absorption  
 • Oil Resistant  
 • Anti Slip Stability  
 • Ventilation / Extra Comfort

## Low Ankle Safety Shoe - ENCORE



**Model : A-101**  
**Brand : ENCORE**  
**Colour : Black**  
 Low Ankle Safety Shoes with epoxy coated Steel Toe Cap 200J and steel mid sole Confirming to ISO EN 20345, Leather Upper, Camberelle lining, High density PU Sole resistant to OIL/ACID/ALKALI, Slip Resistant sole design. Abrasive resistant sole, PU tongue, hexagonal eyelets for quick release & Stylish Design  
 • Oil resistant  
 • 200 Joules Steel Toe Cap  
 • Non slip sole  
 • Steel mid-sole  
 • Original Leather  
 • Comfort Padding  
 • Water Repellent  
 • Heat resistant sole

## Low Ankle Safety Shoe - STEPS



**Model : S-101**  
**Brand : STEPS**  
**Colour : Black**  
 Low Ankle Safety Shoes with epoxy coated Steel Toe Cap 200J and steel mid sole Confirming to ISO EN 20345, Leather Upper, Camberelle lining, High density PU Sole resistant to OIL/ACID/ALKALI, Slip Resistant sole design. Abrasive resistant sole, PU tongue, hexagonal eyelets for quick release & Stylish Design  
 • Oil resistant  
 • 200 Joules Steel Toe Cap  
 • Non slip sole  
 • Steel mid-sole  
 • Original Leather  
 • Comfort Padding  
 • Water Repellent  
 • Heat resistant sole

## Safety Ankle Boot — Heckel, France



**Model: Stopac, Colour: Brown or Black**  
 • Sole: Nitrile Rubber  
 • Upper: Grained Leather  
 • Excellent abrasion resistance  
 • Heat resistance up to 250°C for brief contact  
 • Cold resistance down to 40°C  
 • Hydrocarbons, Acids and Alkalis resistance  
 • Very good resistance to hydrolysis and bacteria  
 • Excellent traction properties for reduced risks of slipping  
 • 200 Joules Steel toecap  
 • Standard to EN-345

## Safety Shoe Light Duty, Dual Density — Tuf, UK



**Model: P5600 Brogue Shoe, Colour : Black**  
**Model: P5618 Leather Brogue, Colour : Brown**  
**Model: P5617 Leather Casual Shoe, Colour : Black**  
 Anatomic cushion dual density Polyurethane sole, Lightweight construction allowing increased flexibility and reduced muscle fatigue.  
 • Safety basic 200 joules toe protection EN-345 and oil resistant out-sole  
 • Full Leather upper  
 • Sole Resistance heat up to 200°C, oil, acid and solvents.  
 • Anti Static  
 • Heel Energy Absorption  
 • Manufactured to EN-345  
 Tuf- UK

## Safety Ankle Boot — Tuf, India



**Model: TUF-2992-Chukka Boot,**  
**Colour : Black**  
 Upper : Full leather  
 Sole: Nitrile Rubber  
 Sole resistant heat up to 300°C, oil, acid and solvents.  
 • Safety basic 200 joules toe protection EN-345  
 • Oil resistant out-sole  
 • Sole Resistance heat up to 300°C, oil, acid and solvents.  
 • Shoes manufactured to: EN-345

## Safety Ankle Boot — Double Duty - UK



**Model: SH-1210, Colour: Black**  
 • High Performance  
 • Double Duty  
 • Genuine Leather Upper  
 • Sole: Non-slip, Heat and Oil resistant  
 • Conforming to Standard BS-1 870, CEN-345-1  
 • Epoxy Coated Steel Toe cap  
 • Impact Performance: BS-1870 200 joule  
 Double-Duty — UK

## Safety Ankle Boot — Workmaster, China



**Model: A-701**  
**Brand: Contech, Colour: Black**  
 • Dual Density Polyurethane Sole  
 • Oil/Acid Resistant  
 • Steel Toe Cap 200 Jules  
 • Antistatic • Heat Resistant  
 • Full Leahr upper  
 • Standard: Conform to EN-345/6

## Safety Ankle Boot — Workmaster



**Model : B-701**  
**Brand : Arena, Colour : Black**  
 • Dual Density Polyurethane Sole  
 • Oil/Acid Resistant  
 • Steel Toe Cap 200 Jules  
 • Antistatic \* Heat Resistant  
 • Standard: Conform to EN-345

## High Ankle Safety Shoe - ENCORE



**Model : A-108**  
**Brand : ENCORE**  
**Colour : Black**  
 High Ankle Safety Shoes with epoxy coated Steel Toe Cap 200J and steel mid sole Confirming to ISO EN 20345, Leather Upper, Camberelle lining, High density PU Sole resistant to OIL/ACID/ALKALI, Slip Resistant sole design. Abrasive resistant sole, PU tongue, hexagonal eyelets for quick release & Stylish Design  
 • Oil resistant  
 • 200 Joules Steel Toe Cap  
 • Non slip sole  
 • Steel mid-sole  
 • Original Leather  
 • Comfort Padding  
 • Water Repellent  
 • Heat resistant sole

## High Ankle Safety Shoe - STEPS



**Model : S-108**  
**Brand : STEPS**  
**Colour : Black**  
 High Ankle Safety Shoes with epoxy coated Steel Toe Cap 200J and steel mid sole Confirming to ISO EN 20345, Leather Upper, Camberelle lining, High density PU Sole resistant to OIL/ACID/ALKALI, Slip Resistant sole design. Abrasive resistant sole, PU tongue, hexagonal eyelets for quick release & Stylish Design  
 • Oil resistant  
 • 200 Joules Steel Toe Cap  
 • Non slip sole  
 • Steel mid-sole  
 • Original Leather  
 • Comfort Padding  
 • Water Repellent  
 • Heat resistant sole



# Safety Boots

## Non Safety Gum Boot — Short - Italy



- Model: Art.50 — S5**  
**Colour: Black**  
 • Full knee Wellington Boots with Hygiene  
 • Wash Wipe lining  
 • Steel mid-sole  
 • Steel toe cap  
 • Resistance from Oil & Chemicals  
 • Anti-slip (good protective grip)  
 • Standard to CE EN-345 — S5



## Safety Gum Boot — Tall- Italy



- Model: Art.50 - S5**  
**Colour: Black**  
 • Full knee Wellington Boots Hygiene Wash Wipe lining  
 • Steel mid-sole  
 • Steel toe cap  
 • Resistance from, Oil and Chemicals  
 • Anti-slip (good protective grip)  
 • Standard to CE EN-345 — S5



## Safety Pro Boot — Tuf, UK



- Colour: Black**  
 • Goretex waterproof membrane  
 • Padded collar and tongue  
 • Cold insulation to — 250°C  
 • Water resistant, breathable leather,  
 • Heel Reinforcement with shield  
 • Hard Wearing Elastomer out-sole. Lightweight,  
 • Low density cushioning mid-sole



## Safety Rigger Boot — Tuf, India



- Model: TUF-3900 Rigger Boot**  
**Colour: Brown**  
 • 200 Joule steel toe cap  
 • Upper: Full leathers  
 • Sole: Nitrile Rubber  
 • Safety basic 200 joules toe protection EN-345 and oil resistant out-sole  
 • Sole Resistance heat up to 300°C, oil, acid and solvents.  
 • Shoes manufactured to: EN-345



## Plain Gum Boot — Tall, Italy



- Colour: Black**  
 • Full knee Wellington Boots with Hygiene Wash Wipe lining  
 • Steel mid-sole  
 • Steel toe cap  
 • Resistance from Oil & Chemicals  
 • Anti-slip (good protective grip)  
 • Standard to CE EN-345 — S5



## Safety Gum Boot — Short — Italy



- Colour: White**  
 • Full knee Wellington Boots with Hygiene Wash Wipe lining  
 • Steel mid-sole  
 • Steel toe cap  
 • Resistance from Oil and Chemicals  
 • Anti-slip (good protective grip)  
 • Standard to CE EN-345 — S5



## Safety PVC Nitrile Wellingtons Boot — Tuf, UK



- Model: P1001**  
**Colour: Black**  
 • Sole resistance heat up to 90°C, oil, acid & solvents  
 • Safety basic 200 Joules toe protection  
 • EN-345 and oil resistant out-sole  
 • Anti-static  
 • Water Resistant upper  
 • Heel Energy absorption



## Safety Rigger Boots - Italy

### Waxy Leather Rigger Safety Boot with Midsole

**Model : P-9131**

**Colour : Brown**

- The Rigger Boot is Ni-trax sole is resistant to oil, acid, olvents and are 3000C heat resistant  
 • Water resistant Waxy Leather upper  
 • Safety Basic 200 Joules Steel toe protection  
 • Anti-Static \* Heel Energy Absorption \* Padded Collar  
 • Full length Foot bed \* Nitrile / Polyurethane Sole \*  
 • Heat Resistant sole to 3000C \* Pierce Resistant Steel Mid-sole  
 • \* Conforms for EN345 200 Joule S3 P HRO  
 • \* CE Standard \* Width : Wide Fit  
 • \* Size : 6- 12 Full sizes only



# Safety Harness and Lanyard

## Safety Harness — UK



- Model : AB17510 -Lightweight,**  
 full body harness, single rear fall arrest attachment point, sub-pelvic support strap. 3 points of adjustment on legs and chest.  
 Webbing : polyester width 45 mm  
 - stitching: high-strength polyester thread  
 Fittings :high-strength zinc-plated steel  
 - zinc-plated D ring attachments  
 - quick adjustment buckles  
 Breaking strength : >1500 daN,Net weight : 855g  
 Standard : EN361:2002,  
 Standards : EN361:2002 and EN355:2002

## Safety Harness with Nylon Rope Lanyard — India



- Model: UB-103**  
 A full body harness ideal to be used with vertical anchorage system or confined by space entry/retrieval. Fully adjustable shoulder,chest and thigh straps Rope.  
 Lanyard: Made of 18mm Dia Nylon rope. One side loop directly attached to the harness. Other side Karabiner.  
 • Weight: 1350 gms  
 • Standard: European EN-361 & EN-354  
 • Single Back D ring, Chest attachment D rings

## Double Lanyard — India



- With shock absorber and scaffolding Hook  
**Model: 63, S.No.124**  
 • 18mm Dia Nylon rope 2 meter length one side  
 • 308— other side SH60 Hooks.



## Safety Lanyard — UK

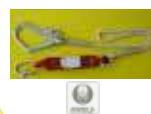


### Shock Absorbing Lanyard — Protecta - UK

**Model : AE5100**

- Energy absorbing lanyard with snap hook and karabiner  
 Total length 2m including the supplied 17mm opening screw gate karabiner and 17mm opening snap hook, constructed from 45mm polyester webbing and using tear webbing energy absorbing technology.  
 Shock absorbing element  
 - engaging peak force 2 kN  
 - impact force reduction < 6 kN  
 - Breaking strength : >2200 daN  
 - Net weight : 725g  
 - Standards : EN355:2002 and EN362:2004/B

## Safety Lanyard — India



### Model: Shock Absorbing Lanyard with Hook

- Lightweight Design Easy to Adjust  
 • Allows constant taught lanyard  
 • Manufactured to CE EN-345, EN355 Standard

## Lanyard with Hook – India



- Lightweight Design  
 • Easy to Adjust  
 • Manufactured to BS EN-353-2 standard

# Welding, Cutting Torches and Nozzles



The range of Saffire NM cutters continues the tradition of nozzle mix design with the quality and reliability synonymous with Saffire. A proven design incorporating the latest technical features necessary to meet the changing service requirements of the hand cutting marker.

- Nozzle mix principle for maximum safety.
- Backfire resistant design progressive "bleed" characteristics.
- New control knob for positive flame setting. \* New robust lever latch.

Saffire NM cutters are designed to EN-5172 "Handheld Blowpipes for Welding and Cutting" and manufactured in the UK under the quality management systems of BS EN ISO 9000.

## Saffire. NM-18/90 Universal Cutter / Elite - Cutting Torch



The new Saffire 18/90 universal Cutter is a competitively priced product designed for general purpose oxy-fuel gas cutting with either Acetylene or Propane. It is also ideally suited to other processes most notably heating, gouging and piercing. The cutter has the following important features.

- Fully complies with BS EN ISO 5172
- Robust construction provides extensive service life
- Smooth "bleed characteristic for piercing
- Integral inlet filters to protect the mechanism
- Suitable for Acetylene or Propane Service



## Saffire NM-400 Universal Cutter - Cutting Torch



This model has the benefit of a 750 head and 700mm (27") length combined with a cutting capacity of 400mm (16"). The cutter is designed for heavy duty fabrication and scrap cutting applications where the combinations of head angle and extended length create both positive and comfortable working condition for the operator.



## Saffire ANM cutting Nozzle

Saffire cutting nozzles are manufactured to the requirements of pr EN ISO 5172 quality management system of BS EN ISO-9000



ANM / ANME	3/64	1/8	1/16	3/32	5/64	1/32
Thickness	12mm	300mm	75mm	150mm	100mm	6mm
Inch	1/2"	12"	1-3"	6"	4"	1/4"

PNM / PNME	1/32	3/64	1/16	5/64	3/32	1/8
Thickness	6mm	12mm	75mm	100mm	150mm	300mm
Inch	14/1"	1/2"	13-1"	4	6	12

## Saffire Propane Super Heating Nozzle



Saffire nozzles are manufactured to the requirements of pr EN ISO 5172 quality management system of BS EN ISO-9000

Size	1H	2H	3H	4H	5H
BTU/H	72,000 to 163,000	102,000 to 188,000	183,000 to 361,000	236,000 to 406,000	281,000 to 618,000

### HEATING OPERATIONS



## Wescol-250 cutting torch - WESCOL UK



### Model : WESOL - NM250

The Wescol-250, an addition to the Wescol range of cutting torches manufactured to meet the requirements of BS 6503 & ISO-5172. The strong construction, incorporating a solid brass stamped body, cutting lever and stainless steel tubes. The solid brass, user friendly control knobs ensure that positive flame adjustment is maintained.

Stability and safety are assured by the use of nozzle mixing, and the well grouped controls are easy to operate throughout the range of nozzle sizes which give a cutting range of between 1/8" (3mm) and 12" (300mm)



## Saffire NM-250 Cutter - Cutting Torch



The range of Saffire NM-250 cutters continues the tradition of nozzle mix design with the quality and reliability synonymous with Saffire. A proven design incorporating the latest technical features necessary to meet the changing service requirements of the hand cutting marker. The NM-250 model is principally intended for general workshop cutting up to 250mm (10") capacity. The balance and trim combined with 500mm (18") length make it ideally suited for most industrial applications.



## Saffire NM-500 - Cutting Torch



NM-500 is designed for the most arduous cutting conditions. The design uses a 750 head and a length of 300mm (20") with 300mm (20") cutting capacity to greatly extend the range of very heavy duty applications possible. The cutter is intended for both fabrication and scrap cutting and is also ideally suited to gas processes such as heating, gouging, rivet washing and scraping.



## Saffire Swaged Welding Nozzle



Saffire Welding nozzles are manufactured to the requirements of pr EN ISO 5172 quality management system of BS EN ISO-9000

Nozzle No.	1	2	4	5	7	10
Thickness	0.9mm	1.2mm	2.0mm	2.6mm	3.2mm	4.0mm

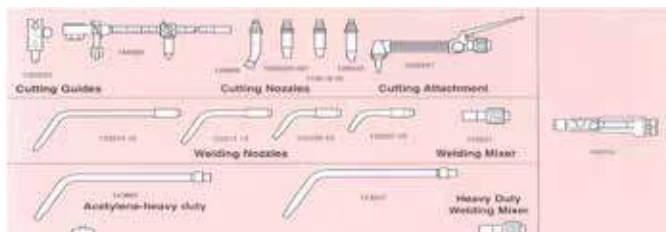
Nozzle No.	13	18	25	35	45	90
Thickness	5.0mm	6.5mm	8.2mm	10mm	13mm	25mm

## Saffire Propane Super Heating Nozzle



Saffire Acetylene Heating Nozzle Saffire nozzles are manufactured to the requirements of pr EN ISO 5172 quality management system of BS EN ISO-9000

Size	AHT-25	AHT-50	AHT-100
BTU/H	52,000	91,000	139,000



## WESCOL Cutting and Welding Nozzle



ANM	1/32	3/64	1/16	5/64	3/32	1/8
Thickness	6mm	12mm	75mm	100mm	150mm	300mm

WESCOL Welding Nozzle						
Nozzle No.	1	2	3	4	5	6
Thickness	0.9mm	1.2mm	2.0mm	2.6mm	3.2mm	4.0mm

Welding Nozzle						
Nozzle No.	13	18	25	35	45	55
Thickness	5.0mm	6.5mm	8.2mm	10.0mm	13.0mm	19.0mm



# Tig Torches and Flash Back Arrestors

## Welding Tig Torch



**MUREX**

**Model TW-451V -- With 4.0 meter Cable, 450 AMPS**  
**Model : TW-452V -- With 8.0 meter Cable, 350 AMPS**  
 • Materials which give good cooling and Extended life for the torch  
 • The Silicone rubber heads are substantial and provide resistance to HF and heat.  
 • High quality hoses for flexibility and long life  
 • Special Teflon nozzle gasket ensures a gas light seal  
 • Neoprene rubber and woven zip-on sheaths available  
 Contents:  
 • Ceramic Nozzle • Collect Body  
 • Collect  
 • Momentary Switch • Switch Boot Pk3  
 • Plug 2 pin  
 \* Long Back Cap

## "MUREX" Welding Tig Torch



**MUREX**

**Model TG-203V - With 3.8 meter Cable, 200 AMPS**  
**Model : TG-203V - With 7.6 meter Cable, 120 AMPS**  
**Model : TW-253V - With 3.8 meter Cable, 250 AMPS**  
**Model TW-253V - With 7.6 meter Cable, 150 AMPS**  
 • Materials which give good cooling and Extended life for the torch  
 • The Silicone rubber heads are substantial and provide resistance to HF and heat.  
 • High quality hoses for flexibility and long life  
 • Special Teflon nozzle gasket ensures a gas light seal  
 • Neoprene rubber and woven zip-on sheaths available  
 Contents:  
 • Ceramic Nozzle  
 • Collect and Collect Body  
 • Momentary Switch  
 • Switch Boot Pk3  
 • Plug 2 pin  
 • Long Back Cap

## WELDCRAFT" Air Cooled Tig Torches



**WELDCRAFT**

**Model: WP-26V-12-2 - With 12ft Cable**  
**Model: WP-26V-25-2 - With 25ft Cable**  
**Model: WP-26V-50-2 - With 50ft Cable**  
 For continuous heavy-duty use  
 Heavy copper construction for rugged field work.  
 Heavy duty 2 pc. Power cable ribbed handle are standard equipment  
 • Max Amps: 200  
 • Head Angle: 70 degree  
 • Gas Valve: Knob and Stem  
 • Handle Style: Ribbed 1-1/4 Dia  
 • Access Kit: AK-3  
 Hook up Kit: HK-2  
 Cable: 2 Piece power cable  
 • Cable Length: 3.8 meters

## "MUREX" Welding Tig Torch



**MUREX**

**Model TG-123V - With 3.8 meter Cable, 125 AMPS**  
**Model : TG-123V - With 7.6 meter Cable, 75 AMPS**  
**Model : TW-153V - With 3.8 meter Cable, 150 AMPS**  
**Model TW-253V - With 7.6 meter Cable, 90 AMPS**  
 • Materials which give good cooling and Extended life for the torch  
 • The Silicone rubber heads are substantial and provide resistance to HF and heat.  
 • High quality hoses for flexibility and long life  
 • Special Teflon nozzle gasket ensures a gas light seal  
 • Neoprene rubber and woven zip-on sheaths available  
 Contents:  
 • Ceramic Nozzle  
 • Collect and Collect Body  
 • Momentary Switch  
 • Switch Boot Pk3  
 • Plug 2 pin  
 • Long Back Cap

Collect, Collect Body and Ceramic Nozzle in different sizes for the above Torches can be supplied from our stock

## Saffire 36+ Flashblack Arrestors.



**MUREX**

**Oxygen / Acetylene / Propane / Hydrogen**  
 Saffire 36+ Flashback Arrestors. The well proven 36+ conforms to the requirements of EN-730. The unit offers comprehensive protection from the dangers of flashback and has the following important safety features.  
 • Rest Button  
 • Sintered Metal Flame Arresting Element  
 • Non-return Valve  
 • Thermal Cut-off Device  
 • Pressure Sensitive Cut-off Valve

## SaffireXL5 Flashback Arrestors



**MUREX**

**Oxygen / Acetylene / Propane**  
 The latest in the range of Saffire XL cylindrical flashback arrestors, the XL5 is an advanced design giving a higher flow rate than its predecessor. Internally the XL5 is equipped with a large cylindrical flame arresting element an automatic reset non-return valve and a heat sensitive automatic cut-off.  
 • Automatic reset non-return valve  
 • Heat sensitive cut-off valve  
 • High flow flame arresting element  
 • Inlet filter for internal mechanism

## Type 83 Flashback Arrestor



**Wescol**

**Model: 83/O Oxygen**  
**Model: 83/A Acetylene**  
**Model 83/P Propane**  
 The WESCOL Type-83 Flashback Arrestor is designed to be fitted to the regulator outlet on single cylinder applications or as an integral part of a pipeline installation and it both application it provides complete protection to the operator, regulator and gas supply from the effects of flashback. The Type-83 is a British design and manufacture.  
 The WESCOL Type-83 flashback arrestor has been tested and approved by the Health and Safety Executive and complies with British Standard 6158: 1982.  
 • Flame Arrestor • Thermal Cut-off Valve  
 • Non Return Valve • Operation

## Saffire Hose Check Valves



**MUREX**

A vital piece of equipment protecting against back feed. The Murex hose check valve is a self-aligning non-return valve which is spring loaded and detects reverse gas flow; it automatically closes, therefore preventing the conditions which lead to flashback

Product Type	Gas Service
1/4" BSP x 6.3mm	RH Oxygen
1/4" BSP x 6.3mm	LH Acetylene
3/8" BSP x 6.3mm	RH Oxygen
3/8" BSP x 6.3mm	LH Acetylene
3/8" BSP x 8.0mm	RH Oxygen
3/8" BSP x 8.0mm	LH Acetylene
3/8" BSP x 10.0mm	RH Oxygen
3/8" BSP x 10.0mm	LH Acetylene

## Type 79 Flashback Arrestor



**Wescol**

**Model: 79/O Oxygen**  
**Model: 79/A Acetylene**  
**Model : 79/P Propane**  
 The WESCOL Type-79 Flashback Arrestor is of British Design and manufacture, and designed to protect the operator, regulators and gas supply from consequences of severe forms of flashback. The Type-79 Flashback Arrestor is a precision engineered product, tested to rigorous standards in order to provide a high degree of Protection. The WESCOL Type-79 Flashback Arrestor has been tested and approved by the Health and Safety Executive and complies with British Standard 6158: 1982 & ISO-5175.  
 • Pressure Relief Valve  
 • Sintered Element  
 • Pressure Sensitive Cut-Off Valve.

**Saffire 300 Series 2+ Multi-Stage & Series 1 + Single Stage Regulators.** The regulators fully meet the requirements of the new European Standard, **prEN-2503** for regulators in the class 0-300 bar inlet pressure. Where applicable, the regulators also meet the requirements of **EN-585** and **BS-7650**. These products are manufactured in UK factory under the quality management system of **BS EN ISO-9000**.

## Saffire 300 Series 2+ Multi Stage Saffire Series-1 + Single Stage



### Oxygen Regulator

Model : 0-10,  
Max. inlet pressure : 0-300 bar  
Max. outlet pressure : 0 - 10 bar  
Max Flow : 1093 Lit/Mm -S2  
Max Flow : 1170 Lit/Min - S1  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Saffire Series-2+ Multi Stage Saffire Series-1 + Singles Stage



### Acetylene Regulator

Model : A-1.5  
Max. inlet pressure : 25 bar  
Max. outlet pressure : 1.3 bar  
Max Flow : 350 Lit/Min - S2  
Max Flow : 313 Lit/Min - S1  
Inlet Connection : 5/8" BSP LH Male  
Outlet Connection : 3/8" BSP LH Male

## Saffire 300 Series 2+ Multi Stage



### Hydrogen Regulator

Model : H-10 & H4  
Max. inlet pressure : 0-300 Bar  
Max. outlet pressure : 0-10 Bar  
Max Flow : 4133 Lit/Min -H10  
Max Flow : 3333 Lit/Min -H4  
Inlet Connection : 5/8" BSP LH Male  
Outlet Connection : 3/8" BSP LH Male

## Saffire 300 Series 2+ Multi Stage



### Argon Regulator

Model : Ar-10  
Max. inlet pressure : 0-300 bar  
Max. outlet pressure : 0-10 bar  
Max Flow : 1108 Lit/Min  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Saffire 300 Series-2+ Multi-Stage



### Argon Regulator

Model : AR-2  
Max. inlet pressure : 0-300 Bar  
Max. outlet pressure : 0-2 Bar  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Saffire Series-2+ Multi Stage Saffire Series-1 + Singles Stage



### Carbon Dioxide Regulator

Model : CO2-10  
Max. inlet pressure : 0-300 bar  
Max. outlet pressure : 0-10 bar  
Max Flow : 2933 Lit/Mm  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Saffire 300 Series 2+ Multi Stage



### Nitrogen Regulator

Model : N-10  
Max. inlet pressure : 300 bar  
Max. outlet pressure : 0-10 bar  
Max Flow : 1108 Lit/Min  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Saffire series-1 + Single Stage



### Propane Regulator

Model : P-4  
Part No. : 1281206  
Max. inel pressure : 25 Bar  
Max. outlet pressure : 4 Bar  
Inlet & Outlet Connection : LH

## Saffire 300 Series-1 Single Stage



### Helium Regulator

Model : He-10  
Max. inlet pressure : 0-300 Bar  
Max. outlet pressure : 0-10 Bar  
Max Flow : 2933 Lit/Mm  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Saffire 300 Series-2+ Multi-Stage



### Helium Regulator

Model : He-4  
Max. inlet pressure : 0-300 Bar  
Max. outlet pressure : 0- 4 Bar  
Max Flow : 2367 Lit/Min  
Inlet Connection : 5/8" BSP RH Male  
Outlet Connection : 3/8" BSP RH Male

## Carbon Dioxide Heater



110V, 150W

42V, 150W

Specifically designed for use with Carbon Dioxide. This unit allows flows of up to 40 cfm without the risk of freezing or noticeable changes in the flow or pressure.

## Argon/ Co2 Flow Meter



0 - 15 LPM

0 - 40 LPM

- Designed specifically for Ar-2 TIG regulator.
- Calibrated flow at 0-40 litres per minute
- Integral fine filter \* Dual Gas scale \* Solid Brass body

## Gas-Arc regulators



Gas-Arc regulators are produced under the Gas-Arc quality management system BS EN ISO 9001 and the design and construction have been tailored to meet in full the requirements of BS EN ISO 2503. Single Stage & Two Stage regulators are 300 bar rated and to provide reliable service and a prolonged service life with wide range of outlet pressures are available as standard with 0-4 bar and 0-10 bar and 1.3 Bar for Acetylene.

Series	Model	Gas	Inlet	Outlet
Single Stage	RAN-01031	Oxygen	300 Bar	0 - 10 Bar
Single Stage	RAN-01033	Acetylene	300 Bar	0 - 1.5 Bar
Two Stage	RAN-03057	Oxygen	300 Bar	0 - 10 Bar
Two Stage	RAN-03032	Carbon Dioxide	60 Bar	0 - 10 Bar
Two Stage	RAN-031572	Nitrogen	300 Bar	0 - 10 Bar

## Wescol regulators



Wescol regulators are world renowned for quality and reliability in the field. Available to suit almost every application, in an almost infinite variety of configurations, Wescol regulators are backed up by a 12 month factory warranty and our technical expertise, giving customers over half a century of services. Wescol regulators are manufactured in the UK and are independently tested to the requirements of BS EN ISO 2503. Pressure gauges are manufactured in Germany to EN 362. Each regulator is tested during manufacture to 300 Bar inlet pressure where applicable. Single Stage regulators are designed as the general purpose work and Two Stage regulators are designed to be used where constant pressure and flows are critical.

Series	Gas	Inlet	Outlet
Single Stage	Oxygen	300 Bar	0 - 10 Bar
Single Stage	Acetylene	300 Bar	0 - 1.5 Bar
Single Stage	Air	300 Bar	0 - 10 Bar
Single Stage	Nitrogen	300 Bar	0 - 10 Bar
Two Stage	Oxygen	300 Bar	0 - 10 Bar
Two Stage	Nitrogen	300 Bar	0 - 10 Bar



# High Pressure Regulators

## Cylinder Pressure Regulator Single Stage



**DruVa**

The FMD 500-14 consists of cylinder connection, pressure regulator body inlet and outlet pressure gauge, and relief valve and outlet tube fittings. A wide range of use of great performance distinguishes the cylinder pressure regulator line FMD-500-14. The FMD-500-14 is the basic model for local independent gas supply. Cylinder Pressure regulators, single-stage / double-stage, for inert, reactive flammable and oxidizing gas and gas mixtures, of middle up to high purity,

- Cylinder Pressure 230 Bar / 3300 PSI
- Increase reliability achieved by relief valve
- Pressure gauges in safety version
- Integrated filter Element.

## Single Stage Cylinder Pressure Regulator

Model	Material	Inlet Pressure	Outlet Pressure
FMD-500-14EC	S.Stee	230 Bar	0.5 - 6 Bar
FMD-500-14ED	S. Steel	230 Bar	1-10.5 Bar
FMD-500-14EE	S. Steel	230 Bar	2.5 -2.8 Bar
FMD-500-14EF	S-Steel	230 Bar	10 -200 Bar
FMD-500-14MC	Brass	230 Bar	0.5 - 6 Bar
FMD-500-14MD	Brass	230 Bar	1 - 10.5 Bar
FMD-500-14ME	Brass	230 Bar	2.5 -2.8 Bar
FMD-500-14MF	Brass	230 Bar	10 -200 Bar

## Cylinder Pressure Stainless steel Regulator Double Stage



**DruVa**

Model : FMD-502-14-SSF6

The FMD 502-14 consists of cylinder connection, pressure regulator body, inlet and outlet pressure gauge, and relief valve and outlet tube fittings.

A wide range of use of great performance distinguishes the cylinder pressure regulator line FMD-502-14. The FMD-502-14 is the basic model for local independent gas supply. Cylinder Pressure regulators with Double-stage, for inert, reactive flammable and oxidizing gas and gas mixtures, of middle up to high purity.

- \* Cylinder Inlet Pressure : 230 Bar / 3300 PSI
- \* Outlet pressure : 0.25 to 6 Bar
- \* Valve connection : CGA-330 Stainless Steel
- \* Increase reliability achieved by relief valve
- \* Pressure gauges in safety version
- \* Integrated filter Element

## Double Stage Cylinder Pressure Regulator

Model	Material	Inter Pressure	Outlet Pressure -
FMD-302-14MC	Brass	200 Bar	0.5-6Bar

## Cylinder Pressure Regulator Double Stage



**DruVa**

A wide range of use and great performance distinguishes the cylinder pressure regulator FMD-502-14ED. The FMD-502-14ED Type is the basic model location independent gas supply. The double-stage design ensures that the outlet pressure is virtually independent of the outlet pressure.

- Cylinder Pressure 200 Bar / 3000 PSI
- \* Consistent pressure due to two-stage characteristics
- Clear Display and easy to operate
- Integrated relief Valve
- High Control Accuracy
- Sealing material PCTFE
- Integrated Filter element

## Double Stage Cylinder Pressure Regulator

Model	Material	Inlet Pressure	Outlet Pressure
FMD-502-14ED	S. Steel	230 Bar	1-10.5 Bar

## Cylinder Pressure Regulator Single Stage



**DruVa**

A wide range of use and great performance distinguishes the cylinder pressure regulator line FMD-530-14MF. The FMD-530-14MF type is the basic model for local independent gas supply with 300 BAR Cylinders.

- For 300 Bar Cylinders
- Pressure Gauges in Safety Version acc to EN-562

## Double Stage Cylinder Pressure Regulator

Model	Material	Inlet Pressure	Outlet Pressure
FMD-530-14MF	Brass	300 Bar	10 - 200 Bar

## Cylinder Pressure Regulator Single Stage



**DruVa**

The FMD-300-14MD cylinder pressure regulator series are high flow rates and good control characteristics. The FMD-300-14MD can be put to use wherever gas is extracted directly from a cylinder, where great importance is attached to the users need for mobility and where a metering valve is not required.

- Cylinder Pressure 200 Bar / 3000 PSI
- Clear Display and easy to operate
- Integrated relief Valve
- Diaphragm arterial Hostelry
- Seat Gasket in PCTFE
- ECU Suitable

Model	Material	Inlet Pressure	Outlet Pressure
FMD-300-14MD	Brass	200 Bar	1-10.5 Bar

## MUREX-High Pressure Regulator



**MUREX**

Model M600 — OG ,

Max. inlet pressure 0-230 Bar

Max. outlet pressure 0-40 Bar, 600 PSI

A high performance two stage regulator for high pressure Oxygen & inert gas service. The M600 is 230 bar compatible and has a working pressure of 0-40 bar (600 PSI). The Regulator

can be used for laboratory and very heavy cutting applications, having a flow rate of 3200 L/M (6800 Ft<sup>3</sup>/h)

## “WE” Series High Pressure Regulators



**Wescol**

“WE” Series high pressure regulators designed for applications where constant high pressure is required, the Wescol WE series of single stage regulators are precision engineered from the highest quality brass. The WE series offers a wide range of regulators with outlet pressure up to 2500 PSI (170 bar) for applications including component pressure testing, pressurization of pipe line systems, purging and high pressure laboratory requirements. A precision machined brass piston is fitted with a double ‘O’ ring seal and a high quality Kel-F valve ensures long term operational reliability and accuracy, whilst the substantial proportions of all components ensures safety and durability.

Model	Material	Max. Inlet Pressure	Max. outlet Pressure
WE-350N	Brass	0-300 Bar	0-24 Bar, 350 PSI
WE-750N	Brass	0-300 Bar	0-52 Bar, 750 PSI
WE- 1000N	Brass	0-300 Bar	0-70 Bar, 1000 PSI
WE 1500N	Brass	0-300 Bar	0-105 Bar, 1500 PSI
WE-2000N	Brass	0-300 Bar	0-138 Bar, 2000 PSI
WE-2500N	Brass	0-300 Bar	0-170 Bar, 2500 PSI

# Welding Machines, IMP and Pipe Cutting Machines

## Murex AC-DC Transtig Welding Machine



### Model Transtig 201iS, 203iS & 353iS

The Murex industrial Transtig AC/DC family provide the best in TIG or MMA welding in either AC or DC process modes. Based on high frequency switching inverter technology, in combination with software driven micro-processor based controller, they provide the ultimate in precision adjustment and control of welding parameters and superb AC or DC performance.

- State of the art 200A or 350A rated TIG/MMA equipment
- AC/DC 201iS Operated from single phase - 240V
- AC/DC 203iS & 353iS use balanced 3-Phase - 415V
- Preset Digital setting of all welding parameters current, slopes and pulsing detail etc.
- Run all types of MMA electrodes including celluloses

## ARC / TIG Welding Machine



### Model: Transarc — 141i

The Murex Tradesarc 141i supplies direct current to enable the user to weld most metals, alloyed and non-alloyed steel, stainless steel and cast iron. Rated at 140A at 40% duty cycle. The Tradesarc 141i runs virtually all DC Electrodes up to 3.2mm Diameters. The inverter based control provides superb arc characteristics with positive arc starts and smooth low spatter transfer. With the optional TIG scratch start kit, you can easily TIG weld mild and stainless steels, with or without filler material.

- Excellent Welding Performance, MMA & TIG
- Standard to EN 60974-1 and EN-50199

## Transarc DC Welding Machine



### Model: DC-400E

Designed for welding in environments which make higher than normal demands on robustness and operational reliability of the welding machine, the Transarc DC-400E meets these demands with a strengthened frame, immersion resistant enameling of the transformer, and inductor and waterproof switches for the control of MMA, TIG welding and arc air gouging functions. The high open circuit voltage ensures excellent arc striking assisted by the built-in "Starting surge" facility.

- Fully protected circuiting for harsh environment use
- Anti-stick action for reduced rod sticking
- Robust design with a high strength framework
- High Power factor ensures low energy
- Infinitely Variable current control
- Remote control facility
- CE Approved
- Power Source DC-400 Current Range: 8- 400A
- Frequency 50/60 Hz

## IMP Flame Cutting Machine

### Single Blowpipe — NM

Tractor with 10m input cable, hose set (blowpipe to valve block) NM blowpipe holder and 342mm blowpipe bar radius bar and balance weight for circle cutting 75-1380 diameter, head nut spanner and instruction manual. Specially designed for accurate high Speed flame cutting.

- Heavy duty cast alloy body High durability motor
- Light overall weight
- One or two blowpipe capability
- Large cutting capacity
- Solid state electronic speed control
- Power Input: Single Phase: 240v
- AMPS 0-5, Hz — 50/60



## Track for above IMP

Track for above IMP  
Length: 2 meters

## Murex Portable Tradesarc Welding Machine



### Model: Tradesarc 151iAS

The Murex Tradesarc 151iAS is a new small portable, inverter based power source for MMA welding or for DC TIG using the lift-arc method. The unit can provide from 10 to 150A welding output and can run from either 240V or 110V single-phase electricity supplies.

- Run all types of MMA electrodes including celluloses
- 3 Operating modes, MMA, MMA with arc force, TIG using lift-arc
- 10 - 110 A MMA/TIG range on 110V supply

## Plasma Cutting Machine



### Model: Sabre-arc 351iAS/ PT-50

The new Murex Sabre-arc 351iAS is a small portable, air plasma cutter capable of cutting up to 12.5mm mild steel (8mm aluminium) simply by using standard 240V mains electricity and a supply compressed air.

- Operates from either 240V or 110V automatically
- Small and Portable weights only 13 kgs all up

## Arc Welding Machine

### Model Transarc Tradesman DC-135

Compact and portable electronic controlled DC MMA or Scratch Start TIG Equipments. Run all types of electrodes up to 3.2mm and TIG Weld down to 10A. DC-135 will operate from 240v domestic or 110v site supplies.

- Repair & Maintenance
- Jobbing Shops, Farms & Garages
- School & Colleges
- Hospitals
- Runs all types of Electrodes Thermal overload protection indicator
- Electronic Feedback Controlled
- Continuous Control of Welding
- Excellent Welding Performance
- Fully overload protected
- Standard EN-60974-1, EN-50199



## Arc Welding Machine

### Model: Transarc DC-630

Designed for welding in environments which make higher than normal demands on robustness and operational reliability of the welding machine, the Transarc DC - 630 meets these demands with a strengthened frame, immersion resistant enameling of the transformer and inductor and waterproof switches for control of MMA welding.

- High open Circuit voltage and controlled starting surge ensure good arc striking
- Excellent dynamic characteristics of the power sources enable high quality welds to be achieved
- Stable arc
- Easily controllable welding
- Spatter free welding
- Anti-stick action
- Power Source DC-630
- Current Range: 8-630A
- Frequency 50/60 Hz
- Phase 3 • Fuse 63A
- Open Circuit Voltage 65/72 V



## Portable Pipe Cutting and Beveling Machine



The portable pipe cutting machine incorporate a hand operated, chaindriven, four wheeled carriage which carries the blowpipe around the circumference of the pipe when the driving Handles are turned. For precision cutting of pipes form 100mm (4") dia up to 600mm (24").

Accessories for above Machines are available with us and for Full complete Technical Detailed Specification, please Call NIGP



# Welding Machines



## ARC & TIG Welding Machine



### Model : TM-401

Single phase A.C Welding Transformer, Designed for general Arc Welding repair work and medium light duty service in shops, factories and garages.

- \* Strong Body \* Reliable \* With Under gear
- \* Fan assisted cooling
- \* Continuous Welding Current Adjustment

Model	401	Model	503
Phase	Single - 230V	Current Range	60 - 350
Input Power – kva	25.5	Electrode - mm	2 - 6
Fuse	80A	Standard	EN 60974-1, 10
Open Circuit Volt.	70A	Weight – kg	79

## ARC & TIG Welding Machine



### Model : ARC-303, 403 & ARC-503

Range of three phases D.C Electrode Welding machines, with current adjustment by magnetic shunt. Their sturdiness, reliability and excellent arc stability enable their use in heavy duty industrial applications. TRIARC models, fitted with smoothing inductance, are also suitable for welding cellulosic electrodes.

- \* Suitable for Welding any Electrode
- \* Touch Start Tig Welding Facility
- \* Sturdy and reliable

Model	403	503	Model	403	503
Phase	3 phase	3 phase	Current Range – A	60 - 370	70 - 450
Input Power	230400/V	230400/V	Electrode - mm	2 - 6	2.5-8
Fuse	50A	63A	Standard	EN 60974-1, 10	
Open Circuit	71A	75A	Weight – kg	95	117

## ARC & TIG Welding Machine



### Model : ARCTRONIC - 426 & 626

DC Three-phase Electrode Welding Machine

Sturdy, reliable, with excellent arc characteristics and recommended for highest standard applications with any electrode, they are suitable to be used in shipyards, steel construction and pipe welding.

- \* Fast Dynamic Characteristic
- \* Adjustable Arc Force for choosing the best welding
- \* Adjustable Hot Start
- \* Electrode Antisticking Function
- \* Automatic compensation
- \* Lift Arc mode Tig Welding Striking
- \* Gouging Facility with Carbon Electrodes
- \* Low noise highly efficient fan motor.
- \* Over current Protection
- \* External door for easy supply voltage changeover
- \* Eye-bolts for easy lifting.

Model	426	626	Model	426	626
Phase	3 phase	3 phase	Current Range	5 - 400A	5 - 600A
Input Power	230/ 400V	230/400V	Electrode - mm	1.6 - 8	1.6 - 8
Fuse	50A	80A	Standard	EN 60974 - 1, 50199	
Open Circuit	64A	64A	Weight – kg	160	190

## ARC & TIG Welding Machine



### Model : RAINBOW-150 & 180

Inverter power sources for Electrode Welding Rainbows represent the latest evolution in inverter technology DC Welding Equipment. These powerful 100 KHz powder sources are based on latest generation IGBT's and fitted with a flat transformer. Most suitable solution for maintenance and light fabrication works.

- \* Excellent Welding
- \* Built-in Arc Force
- \* Reduced weight and size, easy to carry
- \* Low Energy Consumption
- \* Automatic compensation
- \* Automatic Hot Start

Model	150	180	Model	150	180
Phase	Single	Single	Current Range	5 - 400A	5 - 600A
Input Power	230	230	Electrode - mm		
Fuse	16A	20A	Standard	EN 60974 - 1, 3, 10	
Open Circuit Volt.	12A	88A	Weight – kg		

## SINGLE PHASE ARC & TIG

### Model : MATRIX 2200E & 2700E

Powerful, compact and lightweight MATRIX 2200 E is the most innovative, high-performing and technologically ahead single phase power source ever developed for electrode welding. MATRIX 2200 E ensures an extraordinary perfect stability of the welding parameters to obtain high quality joints with all types of electrodes, cellulosic included, and in TIG with lift" mode arc striking.

Built-in innovative PFC Power Factor Correction

Digital control of all the welding parameters

Low current consumption (-30%)

STAND BY function on the remote control

Reduced weight and size, easy-to-carry

Electrode Antisticking function

Suitable to be used with mains cable lengths over 100 m

ENERGY SAVING function

High duty cycle (40°C) 150 A @ 60% in MMA, 150 A @ 100% in TIG

Excellent welding characteristics in MMA with any kind of electrodes and in TIG with "lift" mode



Model	2200E	2700E	Model	2200E	2700E
Phase - 230/400V	Single	3 PHASE	Current Range	5 - 180	5 - 270
Input Power – kva	6.2 kva	10 kva	Electrode - mm		
Fuse	16A	10A	Standard	EN 60974 -1, 10	
Open Circuit Volt.	100V	100V	Weight – kg	12	14.5

## Inverter Power Source for Electrode Welding

### Model : PROJECT – 1300 & 1600 – ARC & TIG

PROJECT's are powerful DC latest generation 100 KHz inverter power sources, built in an innovative, ergonomic and robust chassis standard equipped with a carrying belt for easy transportation. Ideal for any professional use with any type of basic and rutile electrodes for maintenance and light fabrication works. Theirs excellent welding characteristics in MMA and TIG welding with "lift" mode arc striking, coupled with its IP 23 protection class, enable its use in any work environment.

- Built-in innovative PFC Power Factor Correction
- Excellent welding with any type of electrode
- Low energy consumption.
- 2 available welding processes: MMA - TIG
- Automatic mains voltage fluctuations within  $\pm 15\%$
- Control panel protected against accidental impact
- Reduced weight and size and easy-to-carry
- Automatic Hot Start
- Built-in Arc Force to automatically select the best welding.
- Electrode Antisticking function



Model	1300	1600	Model	1300	1600
Phase - 230/400V	Single	Single	Current Range - A	5 - 130	5 - 160
Input Power – kva	7.3	9.8	Electrode - mm		
Fuse	16A	16A	Standard	EN 60974 -1, 10	
Open Circuit Volt.	60A	60A	Weight – kg	6.1	6.3

## ARC & TIG Welding Machine

### Model : MATRIX-250 AC/DC

Built according to the very latest IGBT based inverter technology, these DC power sources thanks to their excellent arc Characteristics, are recommended for highest standard applications with any electrodes. Suitable to be used in shipyards, steel construction, pipe welding and maintenance. This allows the possibility of TIG Welding with "lift" mode arc striking.

\* Excellent Welding with any Electrodes

\* Easy to Carry

\* Adjustable Arc Force

\* Automatic Compensation

\* Low Energy Consumption

\* Automatic Hot Start



Model	250 - AC/DC	Model	250 - AC/DC
Phase	Single	Current Range	5 - 250A
Input Power – kva	7 kva	Electrode - mm	
Fuse	10A	Standard	EN 60974 -3, 10
Open Circuit Volt.	95V	Weight	28 – kg

**Kindly contact us for full technical specifications and catalogues for all the machines**

The following Non alloy Electrodes, Low alloy Electrodes, Dissimilar Electrodes, Stainless Steel Electrodes, Stainless Steel Cored Wires, Gas Shielded Cores Wires, Cut Length Tig manufactured Murex (The Esab Group) UK. Murex has for many years been a major supplier of Welding Consumables to the industry. These products met the requirements of EN-499, BS-639, BS-2493, BS-2926, BS-2901: Pt-1, Pt-2, Pt-3 & AWS standards.

## Non Alloy Electrodes

### Zodian Universal

**AWS A/SFA 5.1-91 E6013**

A versatile rutile-cellulosic electrode for welding in all positions, including vertical down. Very easy to use even in difficult situations such as bridging gaps, corners etc.

Available Sizes: 2.5mm, 3.2mm, 4.0mm

## Non Alloy Electrodes

### Fortrex — 7018 AWS

**A/SFA 5.1:E7018**

Hydrogen controlled electrodes basic coated hydrogen controlled Electrodes for welding mild and Medium tensile steels in all position.

Available Sizes: 2.5mm, 3.25mm, 4.0mm, 5.0mm.

Available in Vapack: 2.5mm & 3.2mm

## Stainless Steel Welding Electrode

### Nicrex E308L

**AWS A/SFA 5.4-92 : E308L-17**

An acid-rutile coated electrode for the high quality welding of stainless steels of the 19% chromium and 9% nickel type. Emphasis on welder appeal has resulted in an

electrode which strikes and re-strikes easily.

Available Sizes: 2.5mm, 3.25mm, 4.0mm

## Stainless Steel filler rod

### Saffire 18/8-308L

**AWS A/SFA 5.9-93: ER-308L.**

Saffire 18/8-308L is a low carbon austenitic stainless steel filler rod for welding steels of similar composition. The recommended shielding gas is Argon or Argon / 5% Hydrogen, rod ends are flattened and stamped with the grade EA 4316 380L.

Available Sizes: 1.6mm, 2.4mm, 3.2mm.

## Stainless Steel Electrode

### Nicrex E309L

**AWS A/SFA 5.4-92: E309L-17**

This is an acid-rutile coated over alloyed stainless electrode for welding of stainless to mild and low alloyed steel. Also for transition layers when surfacing mild steel with stainless steel weld metal.

Available Sizes: 2.5mm, 3.25mm, 4.0mm

## Stainless Steel Electrode

### Nicrex – E309MoL

**AWS A/SFA 5.4-92: E309MoL-17**

Nicrex E309MoL is an acid-rutile coated austenitic stainless steel electrode. It is used for depositing buffer layers when welding acid-resisting clad steels and stainless steels to other types of steel i.e for dissimilar welds between stainless steels and mild or low alloyed ferritic steels.

Available Sizes: 2.5mm, 3.25mm, 4.0mm

## Welding Electrode

### Nicrex E316L-17

**AWS A/SFA 5.4-92: E316L-17**

This is an extra low carbon, acid-rutile coated electrode for welding molybdenum bearing stainless steels of the 316 and 316L type. The electrode is also suitable for welding stabilised steels of similar composition for applications where the full creep resistance of the parent material does not need to be matched.

Available Sizes: 1.6mm, 2.0mm, 2.5mm, 3.2mm, 4.0mm

## Stainless Steel Filler Rod

### Saffire 18/8/3Mo-316L

**AWS A/SFA 5.9-93: ER316L**

Saffire 18/8/3Mo-316L is a low carbon austenitic stainless steel filler rod for welding steels of similar composition (19% chromium, 12% nickel, 3% molybdenum) e.g. AISI 316L, Werkstoff Nrs 1.4583. The recommended shielding gas is argon or argon 5% Hydrogen.

Available Sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Super Steel

### AWS A/SFA 5.18-79: ER70S-2

Saffire Super steel is a triple-deoxidised copper-coated mild steel filler rod particularly suited to TIG welding (with argon shielding gas) root runs in pipes. The rods may also be used without flux for Oxy-acetylene welding.

Available Sizes: 1.6mm, 2.4mm, 3.2mm

## Stainless Steel filler rod

### Saffire 18/8 Nb-347

**AWS A/SFA 5.9- 93: ER347**

Saffire 18/8Nb-347 is a niobium-stabilise austenitic stainless steel filler rod for welding titanium- or niobium-stabilised steels of similar composition e.g. AISI 321 or 347. The recommended shielding gas is argon or argon with 5% Hydrogen.

Available Sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Fluxobronze Super

### BS 1453: 1972(1987): C2

Flux colour: White

Saffire Fluxobronze Super is a fully flux-coated silicon bronze brazing rod, recommended for bronze welding copper sheet and tubes, deep-drawn steels and brass.

Available Sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Unibronze Flux

### 400 g per Tin

Saffire Unibronze Flux is a general purpose light blue flux powder with a melting point of approx. 875°C. It is recommended for use when bronze welding copper and when welding copper alloys using Saffire Silicon Bronze Rods. It may be used with Saffire Manganese Bronze rods when bronze welding cast or malleable iron, and with Saffire Nickel Bronze rods to bronze weld stainless steel.

## Saffire Silicon Bronze

### BS1453: 1972 (1987): C2

Saffire Silicon Bronze is a deoxidised 60/40 copper/zinc alloy, suitable for general purpose bronze-welding and brazing of sheet, tube and extruded sections. The rod may also be used to TIG welding of brass using an AC supply.

Available Sizes: 1.6mm, 2.4mm, 3.2mm, 4.8, 5.0mm

## Saffire Silver Braze-2

Saffire Silver Braze-2 is an inexpensive silver bearing copper-phosphorus alloy for brazing joints on copper, brass and bronze where a thin-flowing low temperature ductile alloy is required.

Available Sizes: 1.5mm, 3.0mm

## Saffire Copper Coated Mild Steel

### BS 1453: 1972 (1987): A1

Saffire Copper Coated Mild Steel is a general purpose low carbon steel rod for high grade oxy-acetylene welding of mild steel and wrought iron. It is widely used in the automobile, heating and ventilation and chemical plant industries. No flux is required. The rods melt at 1490 degree C.

Available Sizes: 1.6mm, 2.4mm, 3.2mm, 5.0mm

## Stainless Steel Electrode

### Nicrex E-312

**BS 2926: 1984: 29.9 AR**

This is a highly alloyed stainless steel electrode of unusual versatility. 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, other hardenable steels.

Available Sizes: 2.5mm, 3.2mm, 4.0mm, 5.0mm

## Stainless Steel Electrode

### Armoid-1 - BS 2926: 1984: 19.9.3 BR

Armoid-1 is a rutile-coated stainless steel electrode specially designed for welding hardenable high tensile strength steels, and for dissimilar metal welding. The electrode combines positional running characteristics on both AC and DC with high deposition rates and a neat weld appearance.

Available Sizes: 2.5mm, 3.2mm, 4.0mm



# Murex Electrodes - Gas / Tig / Filler Rods

## Welding Electrode

**Hardex-650** is a rutile-coated electrode which deposits a chromium / molybdenum alloyed weld metal. They are recommended for metal-to-mineral wear applications, particularly on heavy earth-moving equipment or other applications where conditions of abrasion, accompanied by high impact, are experienced.

Available sizes: 3.2mm, 4.0mm, 5.0mm. Length 450mm

## Stainless Steel Electrode

### OK 67.43

#### SFA/AWS A5.4: E307-15

OK 67.43 is an austenitic, stainless steel AC/DC electrode which deposits a weld metal with a small amount of uniformly distributed ferrite. The tough weld metal has an excellent crack resistance, even when welding steels with very poor weldability.

Available sizes: 2.5mm, 3.2mm, 4.0mm, 5.0mm.

## Saffire Low Carbon Steel

### BS 2901: Part 1 1983: A17

Saffire Low Carbon Steel is a copper-coated low carbon double-deoxidised filler wire for TIG (with Argon shielding gas) or Oxy-Acetylene welding mild steels.

Available sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Cast Iron Flux

Saffire Cast Iron Flux is a white powder with a melting point of 850°C. It is recommended for use when welding cast iron with Saffire Super Silicon Cast Iron Rods. The flux may be mixed with water in order to form a paste. Weight: 400g

## Tungsten Electrodes

Tungsten welding electrodes are used with an inert gas to create a strong, ductile, homogeneous weld without contamination from oxygen and nitrogen. The choice of tungsten is particularly important to the quality of weld produced. Various type of tungsten are available and below shows the composition and identification colour

tungsten electrode under BS EN 26848 : 1991 (ISO 6848 : 1984)

Description	Sizes
1% Thoriated	1/8, 1/16, 3/32, 3/16, 5/32
2% Thoriated	1.6mm, 2.4mm, 3.2mm, 4.0mm
1% Zirconated	1.6mm, 2.4mm, 3.2mm, 4.0mm
2% Ceriated Rod	1.6mm, 2.4mm, 3.2mm, 4.0mm

## Saffire Aluminium 5% Silicon

### AWS A/SFA 5.10-88: ER4043

Saffire Aluminium 5% Silicon is suitable for welding a wide range of Aluminium alloys except for those with magnesium as a main addition. The recommended shielding gas for TIG welding is argon, and the recommended flux for oxy-acetylene welding is Saffire Aluminium Welding Flux.

Available sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Aluminium 10% Silicon

### AWS A/SFA 5.10-88: ER4047

Saffire Aluminium 10% Silicon is suitable for welding a wide range of Aluminium alloys except for those with magnesium as a main addition. The recommended shielding gas for TIG welding is argon, and the recommended flux for oxy-acetylene welding and brazing are Saffire Aluminium Welding and Brazing Flux.

Available sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Aluminium 5% Magnesium

### AWS A/SFA 5.10-88: ER5356

Saffire Aluminium 5% Magnesium is suitable for welding wrought and cast aluminium alloys containing up to 5% magnesium. The recommended shielding gas for TIG welding is argon, and the recommended flux for oxy-acetylene welding and brazing are Saffire Aluminium Welding Flux.

Available sizes: 1.6mm, 2.4mm, 3.2mm

## Saffire Pure Aluminium

### AWS A/SFA 5.10-88: ER1 100

Saffire Pure Aluminium is a commercially pure Aluminium rod for welding pure Aluminium sheet, plate, tube and extruded sections for applications such as vessels and aerospace work. The recommended shielding gas for TIG welding is argon, and the recommended flux for oxy-acetylene welding and brazing are Saffire Aluminium Welding Flux.

Available sizes: 1.6mm, 2.4mm, 3.2mm

## Arc Air Gouging

### Arc Air Carbons

These are a mixture of carbon and graphite, coated with copper. These are available in a range of diameters to suit the current required. These are designed to run on direct current.

Available sizes: 5.0mm, 6.3mm, 8.0mm

## Hyundai & Chosun Electrodes



**HYUNDAI WELDING CO. LTD** offers top and best quality products and service with wide range of Welding Consumables for customers who need welding consumables and create the value of customer's continuous success. Currently they are manufacturing more than 150 types of Welding Consumables for a variety and common and special applications.

We may able to supply the following electrodes with the sizes starting from 2.6mm, 3.2mm, 4.0mm and 5.0mm.

Electrodes for Carbon Steels	: 6010 & 6013
Electrode for High Tensile Steels	: 7016 & 7018
Electrode for Weather proof steels	: 7018-W1
Electrode for low alloy steels	: 7018-1
Electrode for Stainless Steels	: E308L-16, E308Mo-16, E309L-16, E309Mo-16

Also we may able to supply Electrode for Cast Iron, Hard facing Applications and other electrodes as per the customers requirement.



**CHOSUN WELDING Company** is currently manufacturing more than 150 types of welding consumables for a variety of common and special applications. Our electrodes and wires have been successfully accepted throughout the world. We now provide you with the cutting edge welding consumables certified by the quality system of ISO9001.

We may able to supply the following electrodes with the sizes starting from 2.6mm, 3.2mm, 4.0mm and 5.0mm.

Electrodes for Carbon Steels	: 6010 & 6013
Electrode for High Tensile Steels	: 7016 & 7018
Electrode for Weather proof steels	: 7018-W1
Electrode for low alloy steels	: 7018-1
Electrode for Stainless Steels	: E308L-16, E308Mo-16, E309L-16, E309Mo-16

Also we may able to supply Electrode for Cast Iron, Hard facing Applications and other electrodes as per the customers requirement. Also we can supply filler rods.

Notes on Usage of Electrodes :-

\* Dry the electrodes at 350 - 400°C (662 - 752°F) for 60 minutes before use. \* Keep the arc as short as possible. \* Use wind screen against strong wind.

## Electrode Ovens/Fire Blankets

### Portable Drying Oven



Ideal for site work and repair locations where they are used as a storage or holding oven. These oven have a capacity of 11kg with a heating range of 100-300°C. This oven is designed for rugged site conditions, where they can be used as a holding or storage oven. Choice of two voltage ratings

- 110V - AC
- 240V - AC



### Heated Quiver



The Quivers are designed for operation in open work areas use on installations with 100 volt or 240 volt supply. The Quiver will maintain an even temperature of 100°C depending on the amount of electrodes stored. One 150-watt element enables 9kg of standard length electrodes to be heated. Easily portable, with a carrying handle.



- 110 V
- 110 / 240V

### High Temperature Process Oven



The automatic High Temperature Ovens all feature the 'Set and Forget' feature, 0-500°C temperature controller, 0-6hr timer providing a hold feature when the oven reaches the required temperature. There also feature console cooling fan, auto circuit breaker, function indicator light. It will take up to 136kgs of electrodes and have rating of 3000W, 240V AC

- 240V AC



### Stationary Drying Oven



These provide batch storage of electrodes between 100-300°C and can hold up to 134kg. They are partitioned into ten compartments and can be used as the sole means of drying or as an intermediate storage area until transferred to a quiver or portable oven. Choice of two voltages and with a power rating of 1500W.

- 110V AC
- 240V AC

Models	Supply	Load	Temp Range	Capacity	Weight Empty
Heated Quiver	110V – AC 50/60 Hz	150 W	100°C	9kgs	3kgs
Heated Quiver	240V – AC 50/60Hz	150 W	100°C	9kgs	3kgs
Portable Drying Oven	110V – AC 50/60 Hz	300W	100-300°C	13kgs	10kgs
Portable Drying Oven	240V – AC 50/60 Hz	300W	100-300°C	13kgs	10kgs
Stationary Drying Oven	110V – AC 50/60Hz	1500 W	100-300°C	136kgs	42kgs
Stationary Drying Oven	240V – AC 50/60 Hz	1500 W	100-300°C	136kgs	42kgs
High Temperature Oven	240V – AC 50/60 Hz	3000W	0-500°C	136kgs	77kgs

## Fire Blanket, Fothergill UK



The range of Fothergill Engineered Fabrics heat resistant materials covers virtually all thermal insulation and thermal protection applications. They provide cost effective and in many cases safer alternatives to fabrics in current use, since they contain no asbestos or respirable fibres. The company is registered as complying with the stringent standards of BS EN ISO 9002 and the Civil Aviation Authority to assure customer confidence and satisfaction

### Fire Blanket

**Model: M0002 / 0126**

Weight: 1250g/m<sup>2</sup>, Thickness: 1.4mm, Width: 910mm  
Operating Temperature upto: 950°C  
Melting Point Temperature: 1000°C



### Fire Blanket

**Model: TYGASIL - Y0636/480**

Weight: 1250 g/m<sup>2</sup>, Thickness: 1.4mm, Width: 1000mm  
Operating Temperature upto: 950°C  
Melting Point Temperature: 1600°C  
Length – 50 Meters per roll



### Fire Blanket

**Model: TYGASIL - Y0634 /480**

Weight: 645 g/m<sup>2</sup>, Thickness: 0.7mm, Width: 1000mm  
Operating Temperature upto: 950°C  
Melting Point Temperature: 1600°C  
Length – 50 Meters per roll



### Fire Blanket

**Model: SATIN (Aluminium Foil) Y0 533/390**

Weight: 509 g/m<sup>2</sup>. Thickness: 0.45mm, Width: 1000mm  
Operating Temperature upto: 120°C  
Melting Point Temperature: 660°C  
Length – 50 Meters per roll



### Fire Blanket

**Model: TYGLAS Y0 533/035 - Tan colour**

Weight: 670 g/m<sup>2</sup>, Thickness: 0.50mm, Width: 1000mm  
Operating Temperature upto: 150°C  
Melting Point Temperature: 830°C  
Length – 50 Meters per roll



### Fire Blanket Light Duty

**Model: TYGASHIELD Y0 325/503 - Blue Colour**

Weight: 900 g/m<sup>2</sup>, Thickness: 0.8 mm, Width: 1000mm  
Operating Temperature upto: 550°C  
Melting Point Temperature: 830°C  
Length – 50 Meters per roll



### Fire Blanket Light Duty

**Model: SATIN Y0 533/249 - White Colour**

Weight: 430 g/m<sup>2</sup>. Thickness: 0.4mm, Width 1000mm  
Operating Temperature upto: 120°C  
Melting Point Temperature: 830°C  
Length – 50 Meters per roll



### Fire Blanket Medium Duty

**Model: TYGLAS - Y0398/398 - Khaki Colour**

Weight: 1100m<sup>2</sup>, Thickness: 1.5mm, Width: 1000mm  
Operating Temperature upto: 1000°C  
Melting Point Temperature: 1200°C  
Length – 50 Meters per roll



### Fire Blanket Medium Duty

**Model: TYGASIL - Y0551/480 - Tan Colour**

Weight: 645 g/m<sup>2</sup>, Thickness: 0.7mm, Width: 1000mm  
Operating Temperature upto: 950°C  
Melting Point Temperature: 1600°C  
Length – 50 Meters per roll



### Fire Blanket Heavy Duty

**Model : TYGASIL Y0 539 / 480 - Tan Colour**

Weight : 1250 g/m<sup>2</sup>, Thickness: 1.4mm, Width: 1000mm  
Operating Temperature upto: 950°C  
Melting Point Temperature: 1600°C  
Length – 50 Meters per roll



# Welding Accessories

## Dinz Type Cable Connector



MUREX

These connectors have fully insulated red rubber boots. The cable is connected by allen screws and the connectors twist together to form a positive lock.

**CC1 + CC2 - 25mm Din Cable Socket / Plug**  
**CC3 + CC4 - 50mm Din Cable Socket/ Plug**  
**CC5 + CC6 - 95mm Din Cable Socket / Plug**

## Heavy Duty Cable Connector



MUREX

These heavy-duty connectors feature the cone and bush design of cable connection. They have high quality black rubber boots with positive lock and seal. They will accept up to 70mm<sup>2</sup> copper or aluminium cable.

**CC17 + CC18 - 70mm Din Cable Plug/Socket**

## Cable Lugs



MUREX

Suitable end terminals are needed to connect cable to the machine and cable is attached by deforming a Pre-cut section with a pin and hammer.

**CC21- 400 AMPS: 50mm<sup>2</sup> cable**  
**CC22 - 600 AMPS: 95mm<sup>2</sup> cable**

## Handicool Electrode Holder



MUREX

This is a crocodile style electrode holder, which is made from black phenolic resin insulated jaws and black handle. The holder fully insulated for extra safety and copper laws for good contact.

**Model: Handicool - 400A**  
**Model: Handicool - 600A**

## King Electrode Holder



MUREX

This is a twist grip holder with a two-position head for ease of use. All conducting components are made from brass for maximum strength and durability as well as trouble free operation.

**Model: KING-450 Electrode Holder - 450A**  
**Model KING-600 Electrode Holder - 600A**

## ECON Electrode Holder



MUREX

This is a twist grip short stub electrode holder. All the electrode is available for use and the angle allows the hand to remain away from the weld pool. The handle is used to apply torque to the electrode clamp in the head.

**Model: ECON - 405 Electrode Holder - 400A**  
**Model: ECON - 605 Electrode Holder - 600A**

## Earth Clamps - Screw Type



MUREX

To complete the welding circuit, a return current lead must be used to securely connect the work piece and the power sources. The CC11 earth clamp is robustly constructed from substantial castings. The screw lever allows maximum compression to the work piece

**Model: Screw Type - 400 A**  
**Model: Screw Type - 600 A**

## Earth Clamp - Magnetic



MUREX

Return current clamps should always be used with a return current lead, securely attached to the work piece, in order to complete the welding circuit.

**Model: Magnetic Type - 350 A**  
**Model: Magnetic Type - 600 A**

## Earth Clamps - Crocodile



MUREX

To complete the welding circuit, a return current lead must be used to securely connect the work piece and the power sources. This is a crocodile style earth clamp, with copper braiding connection suitable for up to 400 and 600 Amps.

**Model: Crocodile Type - 400 A**  
**Model: Crocodile Type - 600 A**

## Nozzle Cleaner Set



MUREX

Nozzle cleaners prolong the life of Welding and cutting nozzles and ensures that they are working to maximum efficiency. They do not file the bore of the nozzle. A full range of nozzle cleaner sizes is in every tin - 0.46mm to 1.74mm.

## Welding Hand Shield



MUREX

**Model: SF2,**

Flat fronted, fibre glass hand shield to be protected from harmful radiation. The welder will need full protection in the form of a hand shield screen, with eye protection provided by shaded filter lenses. Standard to BS 1542:1982

Lens aperture 4¼ x 3¼

## Welding Hand Shield



MUREX

**Model: SF12,**

Flip fronted, fibre glass hand shield to be protected from harmful radiation. The welder will need full protection in the form of a hand shield screen, with eye protection provided by shaded filter lenses. Standard to BS 1542:1982

Lens aperture 4¼ x 3¼

## Welding Helmet



MUREX

**Model: SF10**

Short shell, fibre glass helmet. Flip front mechanism raises the filter leaving a clear chipping lens. Standard to BS-1542: 1982

4¼ x 2 lens aperture

## Welding Helmet



MUREX

**Model : SF11**

A traditional standard short shell helmet made from traditional high performance glass fibre, Standards to BS-1542: 1982

4¼ x 3¼ lens aperture

## Clear Cover Lenses for Welding Helmet



MUREX

Good filter lenses for essential to protect the welder. All filters must use a suitable cover lens to protect the filter lens from spatter and damage

Pack Sizes: 25pcs

Conforms to EN-166 & EN-169

**Available Sizes: 4¼ X 3¼ & 4¼ x 2"**

**Black Shade: 8, 9, 10, 11, 12, 13 and 14 EW**

## Dark Lenses for Welding Helmet



MUREX

Traditional glass filter lenses offer excellent ultra violet and infrared protection and thermal stability.

Pack Sizes: 40pcs

Conforms to EN-166 & EN-169

**Available Sizes: 4 1/4 x 3 1/4 & 4 1/2 x 2"**

**Black Shade: 8, 9, 10, 11, 12, 13 & 14 EW**

## Welding Shield with Safety Helmet



CENTURION

**Helmet Model: 1100**

**Welding Shield Model: S90N**

The new lightweight welding shield is a helmet mounted versions. Combines a high impact heat resistant weld shield with an extra large flip front lens holder giving greater all-round vision.

## Welding Helmet - Taiwan



**Model: WH-750**

Made from impact resistant polypropylene and conforms to CE EN175 and American ANSI Z87.1 standard

## Welding Goggles Dark - Taiwan

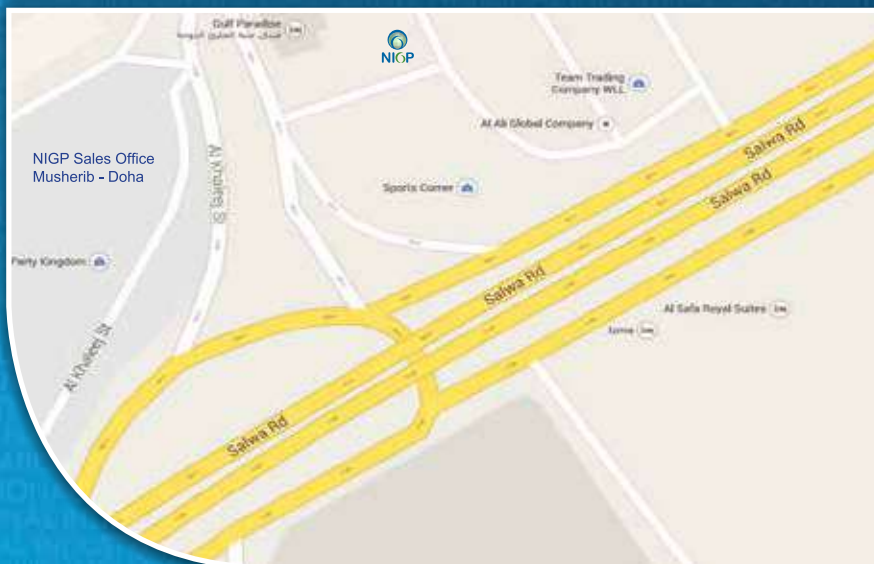
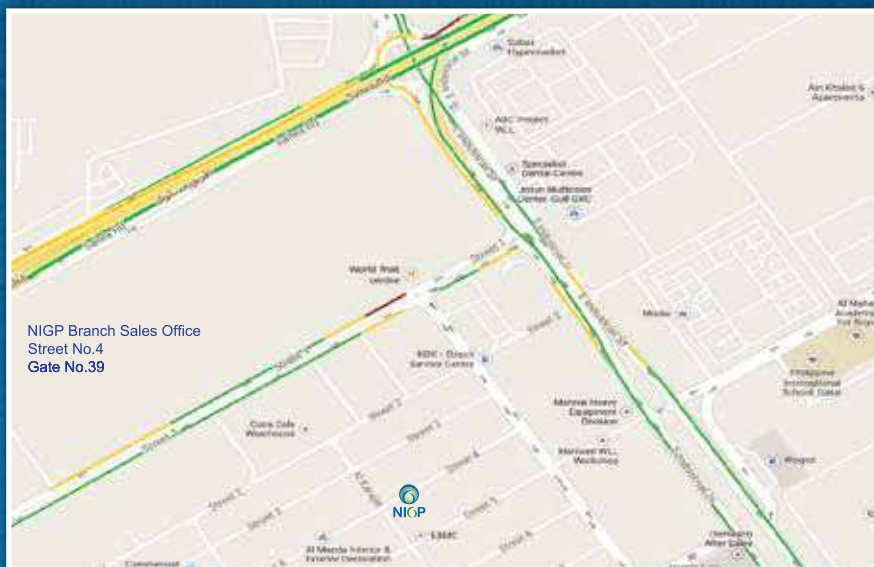
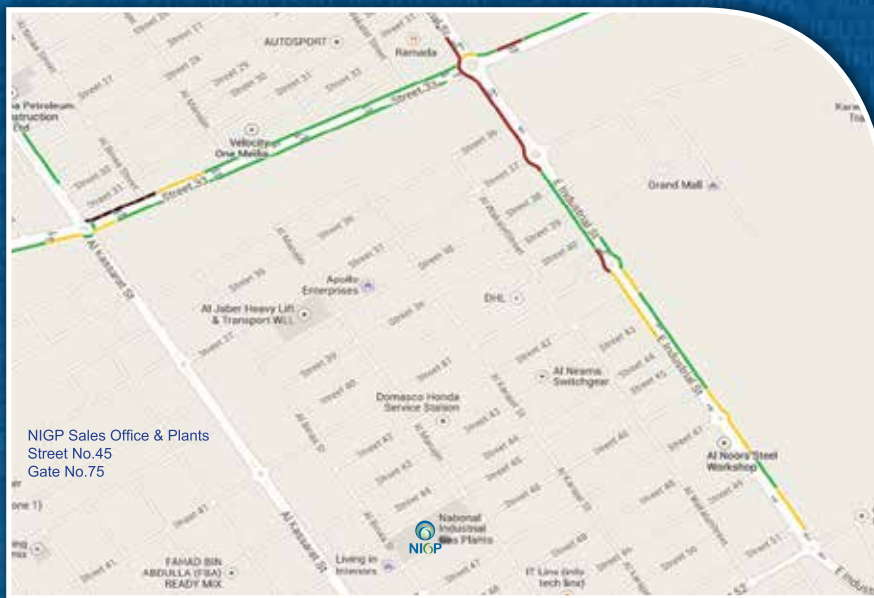


**Model: WG-205**

Lift front style

CE Standard





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