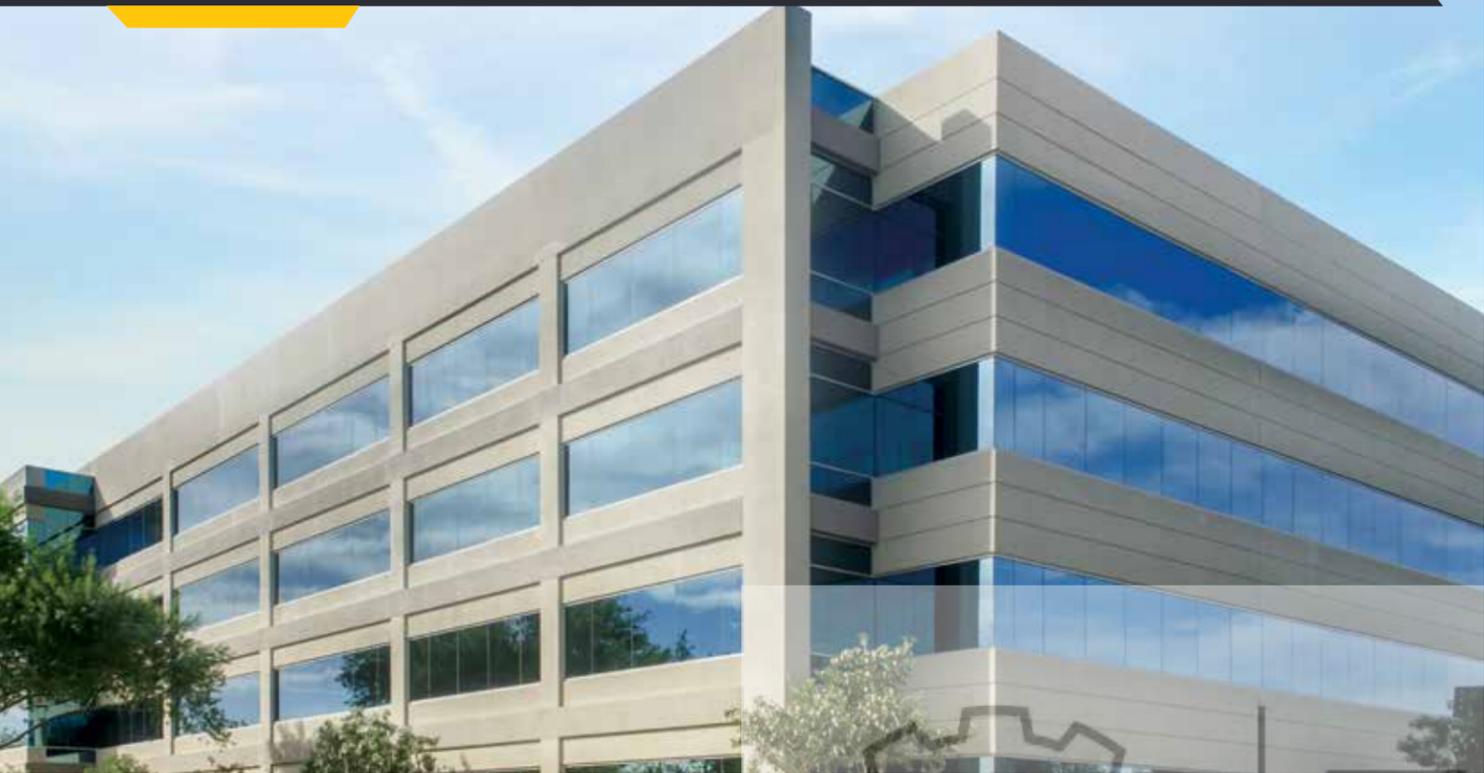




ZAKER  
TRADING L.L.C.

# CATALOG

Edition 2018



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**TECHWELD INDUSTRIAL TECHNOLOGIES LTD**  
 Office 1078 Great Northern House  
 275 Densgate, Manchester M3 4EL  
 UNITED KINGDOM

This is to certify that the Quality Management System of the above mentioned company meets the requirements of

**ISO 9001:2015**  
 Quality Management Systems

**Scope**  
 Supply of Welding Consumables, Welding Accessories & Equipment

Certificate number: GB-Q-348  
 Date of initial approval: 21 February 2018  
 Valid till: 20 February 2021

Approved by *[Signature]*  
 Issued by QSI Certification Ltd, incorporated in the United Kingdom. This certificate is the property of QSI and valid only if regulatory surveillance audit is conducted within the prescribed time limits.  
 To authenticate this certificate please visit [www.isoregistry.eu](http://www.isoregistry.eu)

ISO 9001 Registered



TECHWELD industrial technologies limited is a leading manufacturer and supplier of professional welding accessories, tools and tackles. We are known for our research and innovation to develop quality and sustainable products. Our products are used and trusted by multiple users globally with presence in Marine, Offshore, Construction and Oilfield industries which are manufactured to the relevant international standards, tested and certified. Our commitment to research and development leads to an ever expanding product range.



### 1920

Automatic welding was first introduced in 1920. Invented by P.O. Nobel, automatic welding integrated the use of arc voltage and bare electrode wires. It was used for repairing and molding metals. Several types of electrodes were also developed during this decade.

### 1930

The New York Navy Yard developed stud welding. Stud welding was increasingly used for the construction industry and also for shipbuilding. It was during this time that the National Tube Company developed a welding process called smothered arc welding.

### 1940

A new type of welding for seamlessly welding aluminum and magnesium was developed in 1941 by Meredith. This patented process came to be known as heliarc welding. The gas shielded metal arc welding or GTAW was another significant milestone in the history of welding which was developed in Battelle Memorial Institute in 1948.



### 1960

There were several advancements in the welding industry during the 1960's. Dualshield welding, Innershield, and Electroslag welding were some of the important welding developments of the decade. It was used for metal spraying. The French also developed electron beam welding, which is still used by the aircraft manufacturing industries of the United States.



### 1990

Although there were lot of developments in 1940's and 1960's in GMAW, the mig wire welding process gained more popularity from 1990. Gas metal arc welding (GMAW), sometimes referred to by its subtypes metal inert gas (MIG) welding or metal active gas (MAG) welding, is a welding process in which an electric arc forms between a consumable wire electrode and the work piecemetal(s), which heats the workpiece metal(s), causing them to melt and join.



### 2000

In the early 2000s, inverter welding machines were becoming popular because of their versatility and ability to control the arc. Initially the era of inverter welding machines started in 1980s with the electronics explosion that coincided with personal computers. As the electronics and software industry grew, engineers soon realized that software-controlled inverters could be used to weld; this opened up a new world of possibilities. The growing pains of inverters happened around the 1990s and many early inverter welding machines were plagued with reliability problems, which was later rectified.



### 2002

Flux-cored arc welding (FCAW or FCA) is a semi-automatic or automatic arc welding process. FCAW requires a continuously-fed consumable tubular electrode containing a flux and a constant-voltage or, less commonly, a constant-current welding power supply. An externally supplied shielding gas is sometimes used, but often the flux itself is relied upon to generate the necessary protection from the atmosphere, producing both gaseous protection and liquid slag protecting the weld. The process is widely used in construction because of its high welding speed and portability. Although developed in 1950 it gained more popularity in 2002.



# CUTTING TORCH / CHALUMEAU(TORCHE) DE COUPE



## REGULATORS / MANOMÈTRES

A gas regulator is device which regulate gas to required pressure and maintain the stability of the outlet gas pressure. Gas regulators are generally divided into single stage regulator and double stage regulator.

### Gas service

Oxygen, acetylene, propane, argon, nitrogen, CO<sub>2</sub>, helium, air, natural gas etc.





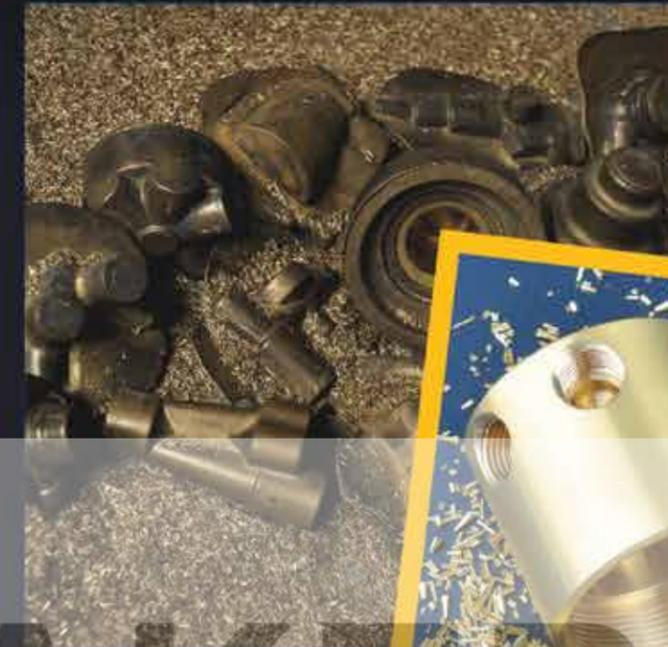
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FINE CRAFTWORK





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**MEASURING INSTRUMENTS  
INSTRUMENTS DE MESURE**



## WELDING CONSUMABLES / CONSOMMABLES DE SOUDAGE

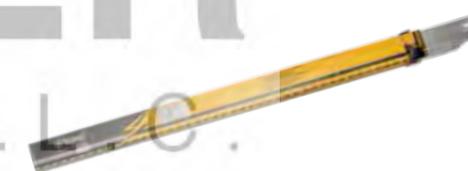


### MMAW

CATEGORY	AWS
MILD STEEL AND HIGH TENSILE STEEL (Size-2.5mm - 5.0mm)	E6013 E7018 E7018-1 E6010
STAINLESS STEEL (Size- 2.0mm - 4.0mm)	E308L-16 E309L-16 E316L-16 E2209 E309Mo-16 E347-16
ALUMINIUM (Size- 2.4mm - 4.0mm)	E 4043



E 71T-1C MIG WIRE



TIG FILLER WIRE ER 4043, ER 5356



ER 70S-6 SOLID MIG WIRE

### GMAW

CATEGORY	AWS
WELDING WIRE FOR MILD STEEL AND HIGH TENSILE STEEL (Size- 0.8mm, 1.0mm, 1.2mm, 1.6mm)	ER 70S-6
WELDING WIRE FOR ALUMINIUM (Size- 1.6mm - 2.4mm)	ER 4043
WELDING WIRE FOR ALUMINIUM (Size- 1.6mm - 3.2mm)	ER 5356

### FCAW

CATEGORY	AWS
WELDING WIRE FOR MILD STEEL AND HIGH TENSILE STEEL (Size-1.2mm & 1.6mm)	E 71T-1C

### GTAW

CATEGORY	AWS
TIG FILLER WIRE FOR STAINLESS STEEL (Size- 1.6mm - 2.4mm)	ER 308L ER 309L ER 316L ER2209
TIG FILLER WIRE FOR ALUMINIUM (Size- 1.6mm - 3.2mm)	ER 4043 ER 5356

# WELDING CABLE / CABLE DE SOUDAGE

## APPLICATIONS

For secondary side connection of power sources for hand or automatic metal-arc welding used in supply in dry, wet and oil environmental conditions. Suitable for connection of motors, generators, transformers, etc. where flexible connections are required.

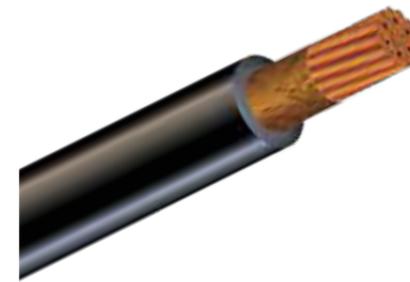
## FEATURES

- ⊕ Resistance to oil, solvents and chemicals
- ⊕ High resistance to cuts & abrasion
- ⊕ Excellent ozone and weather resistant
- ⊕ Outstanding toughness
- ⊕ Durability

## COLOR

BLACK (Standard)

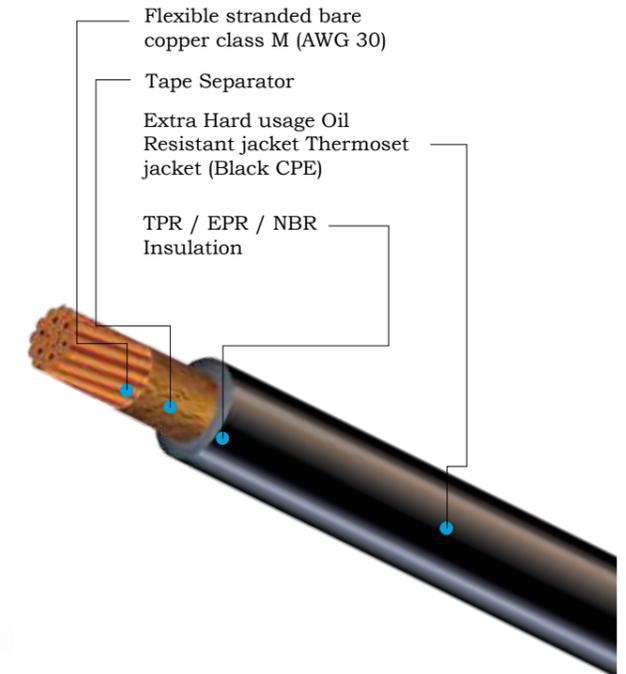
ORANGE



Single insulated welding cable (Black)



Double insulated welding cable (Orange)



ZAKER TRADING L.L.C.

MODEL	CROSS-SEC (Sq.mm)	RADIAL THICKNESS OF SHEATHING (mm)	OUTER DIAMETER MIN ~ MAX (mm)	MAX RESISANCE @20°C (ohm/km)	CURRENT RATING AT A MAX DUTY CYCLE			APPROX. AWG.NO
					PERMANENT 100% (Amps)	60% (Amps)	30% (Amps)	
CWC35	1x35	3.5	11.7 ~ 13	1.16	148	191	270	2
CWC50	1x50	4.2	13.5 ~ 15	0.81	199	256	385	1
CWC70	1x70	4.2	15.5 ~ 17.2	0.66	248	320	452	2/0
CWC95	1x95	4.2	16.9 ~ 18.5	0.43	296	382	540	3/0
CWC120	1x120	4.3	18.2 ~ 20.5	0.35	381	492	697	4/0

## APPLICATION

- ⊕ Rubber insulated flexible welding cable are used to connect Welding Machine and for better welding proficiency
- ⊕ Used in Automobile Industries, Shipbuilding, Transport, Steel Plants, Railways, Refineries, Oil fields, Automatic Welding Robots, Construction & Coal Mines
- ⊕ The robust construction makes these cables resistance to both cold & heat as well as to flames
- ⊕ They are suitable for use in open spaces and in dry and damp conditions

## CABLE CONSTRUCTION

- ✓ Plain copper conductors, extra fine stranded
- ✓ EPR/NBR Heat, oil and fire retardant Double Insulation with outer jacket in Orange Colour
- ✓ With marking of brand name and cross section on every meter along with continuous length marking
- ✓ Double insulated cable has TPR insulation and TPR outer sheath

## OVENS / ETUVEUSE / FOUR

**TECHWELD ELECTRODE OVENS PROVIDE EFFICIENT DRY STAGE FOR ELECTRODES AND WIRE REELS.**

- Full Insulation for operator safety and operating efficiency
- Stackable
- Removable shelves for large loads
- Thermostat with on/off switch
- Lamp indicates oven preparation
- Compact modular design with controls recessed for protection



### BENCH OVEN 150 KG

<b>MODEL</b>	<b>AR-150</b>
<b>Capacity</b>	<b>150Kg (330Lbs) 18" RODS</b>
Supply Volt	220V-240V
Power	2400 Watt
No. of Shells	3
Outer Dimension (mm)	740 x650 x1350
Temperature Range	50°-350°
Weight	27 Kg

### BAKING OVEN

<b>TOV-300</b>	<b>TOV-400</b>
<b>300Kg (660 LBS)18"RODS</b>	<b>400Kg (881 LBS)18"RODS</b>
Single Phase 220V-240V	Three Phase 380V/50-60 HZ
3600 Watt	5400 Watt
16 Tray	20 Tray
50°C-400° C	50°C-400°C
680x730x1100MM (outer)	780x840x1390MM (outer)
500x500x550MM (inner)	500x650x850 MM (inner)
123 KG	170 KG

### FLUX OVEN

<b>MODEL</b>	<b>AF-200L</b>
<b>Capacity</b>	<b>150 Kg (330 LBS)</b>
Outer Dimension (mm)	740x650x1350
Temperature Range	50°C-300°C
Power Supply	220V-240V, 2000 Watts
Weight	120 Kg

## PORTABLE OVENS / ETUVEUSE PORTABLE

Techweld Portable electrode ovens are ideal for shop or field use. All are lightweight, rugged and easily carried to the welding site. They are insulated for accurate temperature control and efficient operation.

### QUIVER / PORTABLE OVEN TQ



PARAMETERS	T7-SS	TQ-93S	TQ-97SI	T-22
Electrode Capacity	7kg (15lbs)	9Kg(20Lbs)	9Kg(20Lbs)	22.7kg (50lbs)
Max.electrode size	18"	18"	18"	18"
Working Voltage	240V (Optional / 110V)	220-240V (Optional / 110V)	220-240V (standard, optional 48V / 70V / 110V)	220V-240V
Wattage	240 Watts	200 Watts	250 Watts	350 Watts
Supply Cable Size	18 AWG x 3 C	18 AWG x 3 C	18 AWG x 3 C	18 AWG x 3 C
Temp. range	30°C-110°C	Max.120°C	50-150°C	80°C-150°C
Thermostat	External	None	External	External
Thermometer	Yes	None	Yes	Yes
Heating Element Type	U shape tabular	U shape tabular	Mica band type	Mica band type
Insulation	1.5" Glass wool	None	1.5" Glass wool	1.5" Glass wool
Outer size (mm)	215x160x595mm	113x120x532	185x185x580	245x245x600mm
Inner Chamber (mm)	118x98x465mm	110x117x450 mm	111x111x480 mm	165x160x470mm
Body	Stainless Steel	Pre galvanized steel, powder coated	Pre galvanized steel, powder coated	Pre galvanized steel, powder coated
Handle	Fix-Handle	Fix-Handle	Fix-Handle	Fix-Handle
Tilt stand Feature	No	Yes	Yes	No
Light Indicator	Yes	Yes	Yes	Yes
Net Weight	5kg	3.6Kg	7.15Kg	12kg

## CABLE CONNECTORS / CONNECTEUR DU CABLE

TECHWELD CABLE CONNECTORS ARE MADE FROM DURABLE ELASTOMER.



### FEATURES

- ⊕ Light Weight
- ⊕ Slip- proof insulators
- ⊕ Flame retardant insulators
- ⊕ Very good corrosion resistance
- ⊕ Rubber molded cover is heat, oil and fire resistant (HOFR)
- ⊕ Brass body assembly slides easily

	10-25 35 50 70 95					10-25 35 50 70 95					95-120 95-120	
mm <sup>2</sup>	10-25	35	50	70	95	10-25	35	50	70	95	95-120	95-120
∅ mm	14	21	21	21	24	14	21	21	21	24	28	28
∅ mm	9.1	11.1	13.1	14.1	17.1	9.1	11.1	13.1	14.1	17.1	18.6	18.6
x60%	200	250	315	400	500	200	250	315	400	500	590	590

### AMERICAN TYPE CABLE CONNECTORS

Equipped with heat and oil resistant covers  
Zinc plated cover and ball-point cable screws



PART NO	DESCRIPTION	TYPE CABLE CONNECTON	CABLE SIZE
TPC-4	Complete Connector	Double ball-point	95 / 120
TPC-2	Complete Connector	Single ball- Point	50 / 70 / 95

### CABLE JOINT

10- 25 mm<sup>2</sup> 35-50 mm<sup>2</sup>  
50 -70 mm<sup>2</sup> 70 -95 mm<sup>2</sup>



## ELECTRODE HOLDER / PORTE ELECTRODE

MODEL	CURRENT RATING	CABLE SIZE	ELECTRODE SIZE (mm)
TG 200	200 Amp	35mm <sup>2</sup>	2.5 -5.0 mm
TG 400	400 Amp	50mm <sup>2</sup>	2.5 -5.0 mm
TG 600	600 Amp	70mm <sup>2</sup>	2.5 -5.0 mm



MODEL	CURRENT RATING	CABLE SIZE	ELECTRODE SIZE (mm)
TH 400	400 Amp	50mm <sup>2</sup>	2.5 -5.0 mm
TH 600	600 Amp	70mm <sup>2</sup>	2.5 -5.0 mm



MODEL	CURRENT RATING	CABLE SIZE	ELECTRODE SIZE (mm)
TUK 400	400 Amp	50mm <sup>2</sup>	2.5 -5.0 mm
TUK 600	600 Amp	70mm <sup>2</sup>	2.5 -5.0 mm



MODEL	CURRENT RATING	CABLE SIZE	ELECTRODE SIZE (mm)
TMU 300	300 ~ 350 Amp	50mm <sup>2</sup>	2.0 ~ 5.0 mm
TMU 500	500 ~ 600 Amp	70mm <sup>2</sup>	3.2 ~ 5.0 mm



# CUTTING NOZZLES / BUSE DE COUPAGE

HIGH EFFICIENCY  
DURABILITY



## CUTTING NOZZLES / BUSE DE COUPAGE

### ACETYLENE CUTTING TIP

MODEL NO	TIP SIZES (mm)	CUTTING THICKNESS (mm)	OXYGEN PRESSURE (mpa)	ACETYLENE PRESSURE (mpa)
000	0.7	1-3	0.15-0.2	0.035
00	0.8	3-6	0.15-0.2	0.035
0	1	6-10	0.2-0.25	0.035
1	1.2	10-20	0.2-0.25	0.035
2	1.5	20-40	0.25-0.32	0.045
3	1.8	40-60	0.25-0.35	0.06
4	2.1	60-80	0.32-0.4	0.07
5	2.5	80-125	0.32-0.4	0.085
6	3	125-200	0.32-0.56	0.095



ACETYLENE CUTTING TIP

### PROPANE & NATURAL GAS CUTTING TIP

MODEL NO	TIP SIZES (mm)	CUTTING THICKNESS (mm)	OXYGEN PRESSURE (mpa)	ACETYLENE PRESSURE (mpa)
000	0.7	1-3	0.14-0.25	0.021-0.035
00	0.8	3-6	0.14-0.25	0.021-0.035
0	1	6-10	0.21-0.28	0.021-0.035
1	1.2	10-20	0.21-0.28	0.028-0.042
2	1.5	20-40	0.28-0.35	0.035-0.063
3	1.8	40-60	0.31-0.34	0.042-0.069
4	2.1	60-80	0.31-0.34	0.056-0.083
5	2.5	80-125	0.34-0.38	0.056-0.083
6	3	125-200	0.38	0.069-0.01



PROPANE & NATURAL GAS CUTTING TIP

### 102 HC

MODEL NO	TIP SIZES (mm)	CUTTING THICKNESS (mm)	OXYGEN PRESSURE (mm)	ACETYLENE PRESSURE (mm)
00	0.8	0-5	1.5	0.2
0	1	5-10	2	0.2
1	1.2	10-15	2.5	0.2
2	1.4	15-30	3	0.2
3	1.6	30-40	3	0.2
4	1.8	10-50	3.5	0.25
5	2	50-100	4	0.3
6	2.4	100-150	4	0.35
7	2.8	150-250	4.5	0.4
8	3.2	250-300	4.5	0.4



TW-1164 102HC

### ALSO AVAILABLE PROPANE TIPS

#### G SERIES ACETYLENE

MODEL NO	TIP SIZES (mm)	CUTTING THICKNES (mm)
000	0.8	1-5
00	0.7	5-10
0	1	10-15
1	1.2	15-25
2	1.6	25-50
3	1.9	50-100
4	2.4	100-175
5	2.8	175-250
6	3.2	250-300



TW- 1113

## FLASH BACK ARRESTORS / ANTI RETOUR DES FLAMMES

HIGH EFFICIENCY  
SAFETY



A Flash back arrestor or flame arrestor is a device most commonly used in oxy-fuel welding and cutting to stop the flame from burning back up into the equipment and causing damage or explosions. The two main types are dry and wet. Each has its own advantages and disadvantages, Most oxy-fuel flash back arrestors are the dry type.

## FLASH BACK ARRESTORS / ANTI RETOUR DES FLAMMES

### TH 188 FOR TORCH HANDLE

#### FEATURES

- ⚡ Filter protect the flash back arrestor from dirty particles
- ⚡ Non-return valve
- ⚡ Max flow: Oxygen: 7000Lt./H Acetylene: 2600 Lt./H
- ⚡ Max working pressure: Oxygen: 10Bar, Acetylene: 1.5Bar, Fuel Gas: 5 Bar



#### SPECIFICATIONS

MODEL	GAS	FOR	MAX.FLOW (Lt/H)	MAX.INLET PRESSURE (bar)	INLET	OUTLET
TH188-R	OXYGEN	TORCH	7000	15	9/16" X18 R.H	9/16" X18 R.H
TH188-L	FUEL GAS		2600	1.5	9/16" X18 L.H	9/16" X18 L.H
TH188-RGB	OXYGEN	TORCH	7000	10	BSP 3/8" R.H	BSP 3/8" R.H
TH188-LGB	FUEL GAS		2600	1.5	BSP 3/8" L.H	BSP 3/8" L.H
TH188-AR	OXYGEN	TORCH	7000	10	5/8" X 18 R.H	5/8" X 18 R.H
TH188-AL	FUEL GAS		2600	1.5	5/8" X 18 L.H	5/8" X 18 L.H
TH188-RA	OXYGEN	TORCH	7000	10	BSP 1/4" R.H	BSP 1/4" R.H
TH188-LA	FUEL GAS		2600	1.5	BSP 1/4" L.H	BSP 1/4" L.H

### TH 288 FOR REGULATOR



#### FEATURES

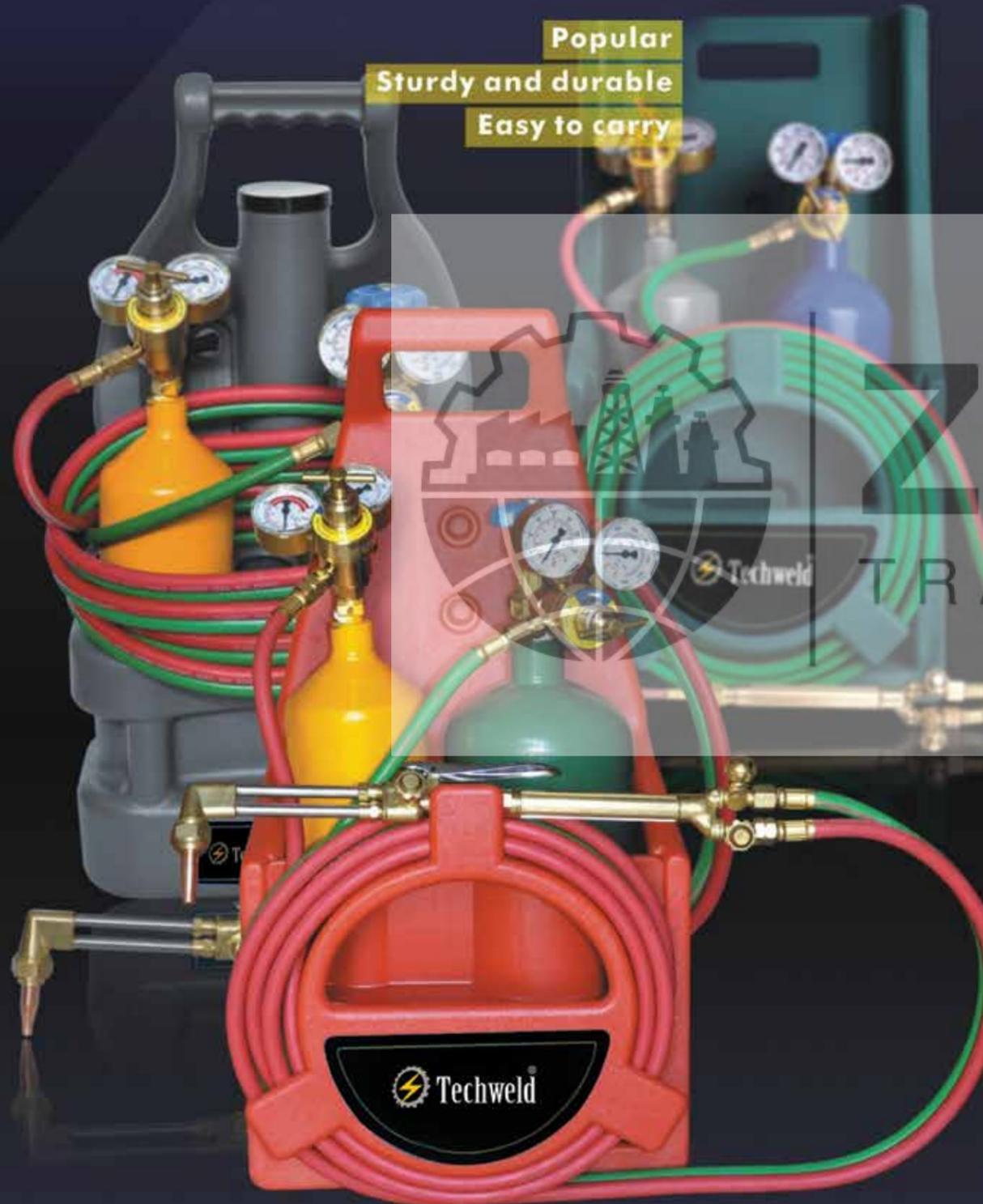
- ⚡ Flame arrestor. Non return valve
- ⚡ Filter protect the flash back arrestor from dirty particles
- ⚡ Prevent the transmission of flame of backfire or flashback upstream from the blow -pipe passing through the flashback arrestor into the equipment connected
- ⚡ Max flow: Oxygen: 7000Lt./H, Acetylene: 2600 Lt./H

#### SPECIFICATIONS

MODEL	GAS	FOR	MAX.FLOW (Lt/H)	MAX.INLET PRESSURE (bar)	INLET	OUTLET
TH288-R	OXYGEN	REGULATOR	7000	15	9/16" X18 R.H	9/16" X18 R.H
TH288-L	FUEL GAS		2600	1.5	9/16" X18 L.H	9/16" X18 L.H
B288-RGB	OXYGEN	REGULATOR	7000	10	BSP 3/8" R.H	BSP 3/8" R.H
B288-LGB	FUEL GAS		2600	1.5	BSP 3/8" L.H	BSP 3/8" L.H
688-R	OXYGEN	REGULATOR	7000	10	5/8" X 18 R.H	5/8" X 18 R.H
688-L	FUEL GAS		2600	1.5	5/8" X 18 L.H	5/8" X 18 L.H

# PORTABLE WELDING CUTTING OUTFIT

Popular  
Sturdy and durable  
Easy to carry



## WELDING & CUTTING TORCH / TORCHE DE SOUDAGE ET COUPAGE

### CUTTING ATTACHMENT

#### FEATURES

- ⊕ Brass torch head
- ⊕ Three in-line tube configuration
- ⊕ Silver-brazed tube joints for leak integrity
- ⊕ Three-seat, tip-mix design for safety and multi-gas compatibility



#### HEAVY DUTY

- ⊕ Cut to 200 mm (8")
- ⊕ Weld to 10mm (0.4")
- ⊕ Heat to 47,000 BTU/hr

ITEM NUMBER	LENGTH		WEIGHT	
	MM	IN	G	LBS
TCA 2002	216	8.5	508	1.12

### TORCH HANDLE

#### FEATURES

- ⊕ Sturdy, ribbed brass handle
- ⊕ Tube-within-a-tube handle design with four O-ring seals for safety and easy maintenance
- ⊕ Forged brass rear body
- ⊕ Large, ribbed control valves, for ease of adjustment
- ⊕ Teflon valve packing provides long service life
- ⊕ Stainless steel ball-tip valves seal tightly



#### HEAVY DUTY

- ⊕ Cut to 200 mm (8")

ITEM NUMBER	LENGTH		WEIGHT		CGA CONNECTION
	MM	IN	G	LBS	
TTH 2002	200	8	383	0.84	'B' - Size (9/16" - 18 RH/LH)

### PORTABLE CUTTING KIT



T-PWC 1503

### ACCESSORIES INCLUDED

Goggles	5# Green
Twin Hose	15'x 3/16" (4.5mX 4.8mm) with flame retardancy
Tote	Black injection molded polypropylene tool box
Lighter	Single flint
Tip cleaner	80mm/100 mm
Wrench	Multifunctional
Capacity	Welding up to 1/2" (12.7mm) plate cutting up to 8" 9200mm) plate
Medium duty regulator	Screw type with forged full brass body
Torch handle	Brass body with stainless steel needle valves
Oxygen Regulator	CGA 992 inlet 9/16"-18 outlet * Also available in CGA 540
Acetylene Regulator	CGA 993 inlet 9/16"-18 outlet * Also available in CGA 510
Torch handle	TTH 2002
Cutting Attachment	TCA 2002
Welding Tip	#1, #3, #5
Cutting Tip	1-101 #1
Heating Tip	Nozzle #8

# REGULATORS / MANOMETRE



## REGULATORS / MANOMETRE

### HEAVY DUTY REGULATOR- OXYGEN

#### FEATURES

- Single stage construction
- Forged brass body and bonnet 2.5" (63.5mm)
- Stainless steel diaphragm
- Oxygen regulator with Safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry
- Connection of other thread sizes available (Eg. CGA540)
- Rubber cover for gauge protection

RUBBER COVER



MODEL NO.	GAS	MAX. INLET PRESSURE (Psi)	MAX. OUTLET PRESSURE (Psi)	INLET CONNECTION	OUTLET CONNECTION
TRO-001	OXYGEN	3000	5 - 125	CGA 992	9/16"-18
TRO-001K	OXYGEN	3000	5 - 125	CGA 540	9/16"-18

### HEAVY DUTY REGULATOR- ACETYLENE

#### FEATURES

- Single stage construction
- Forged brass body and bonnet 2.5" (63.5mm)
- Stainless steel diaphragm
- Acetylene regulator with Safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry
- Connection of other thread sizes available
- Rubber cover for gauge protection

RUBBER COVER



MODEL NO.	GAS	MAX. INLET PRESSURE (Psi)	MAX. OUTLET PRESSURE (Psi)	INLET CONNECTION	OUTLET CONNECTION
TRA-001	ACETYLENE	350	2 - 15	CGA 993	9/16"-18
TRA-001K	ACETYLENE	350	2 - 15	CGA 300	9/16"-18

### CO2 REGULATOR WITH PRE HEATER

The most popular CO<sub>2</sub> regulator for Mig Welding with one gauge-Ø53mm. It is mostly used for Automatic welding, General industries, Drinks industry, Casting, Neutralization of waste water etc.

#### PRODUCT FEATURES

- Forged brass body and chromed bonnet for maximum strength
- Supply power: 110V And 220V

MODEL NO.	GAS	INLET CONNECTION	OUTLET CONNECTION
CO-T100	CO2	W21.8 - 14RH	9/16"
CO-T100K	CO2	CGA 320	9/16"



### MEDIUM DUTY REGULATOR- OXYGEN

#### FEATURES

- Meets or exceeds industry safety standards
- Color coded knob indicate gas type, for better comfort when adjusting gas pressure
- Specially contoured body design
- High strength alloy bonnet with nearly twice the yield strength of brass
- Easy to read high contrast gauges for clarity
- Connection of other thread sizes available
- Rubber cover for gauge protection



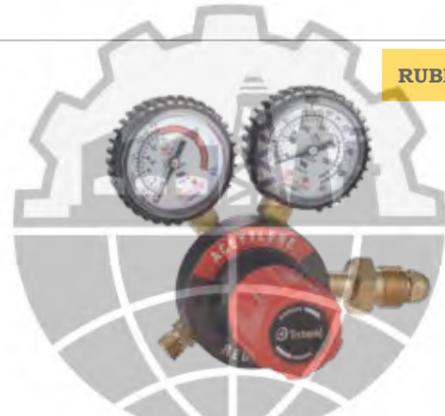
RUBBER COVER

MODEL NO.	GAS	MAX. INLET PRESSURE (Bar)	MAX. OUTLET PRESSURE (Bar)	INLET CONNECTION	OUTLET CONNECTION
TRO 002	OXYGEN	200	10	CGA 992	9/16"-18
TRO 002-K	OXYGEN	200	10	CGA 540	9/16"-18

### MEDIUM DUTY REGULATOR- ACETYLENE

#### FEATURES

- Meets or exceeds industry safety standards
- Color coded knob indicate gas type, for better comfort when adjusting gas pressure
- Specially contoured body design
- High strength alloy bonnet with nearly twice the yield strength of brass
- Easy to read high contrast gauges for clarity
- Connection of other thread sizes available
- Rubber cover for gauge protection



RUBBER COVER

MODEL NO.	GAS	MAX. INLET PRESSURE (Bar)	MAX. OUTLET PRESSURE (Bar)	INLET CONNECTION	OUTLET CONNECTION
TRA 002	ACETYLENE	25	1.0	CGA 993	9/16"-18
TRA 002-K	ACETYLENE	25	1.0	CGA 300	9/16"-18

### ARGON REGULATOR WITH FLOW METER

#### PRODUCT FEATURES

- Full brass body, Single stage
- Regulator and Flowmeter as a unit
- Flowmeter with easy to read tube and virtually unbreakable transparent polycarbonate outer
- Connections can be requested

MODEL	APPLICATIONS	TIG Applications
ARG - T001	Regulator Type	Flowmeter Regulator
	Gas Service	Argon/Carbon Dioxide
	Workload	Medium Duty
	Inlet Connection (Ar)	CGA 992 *Also available in CGA 580
	Inlet Connection (Co2)	W21.8 *Also available in CGA 320
	Outlet connection	9/16"
	Flow	0-25LPM



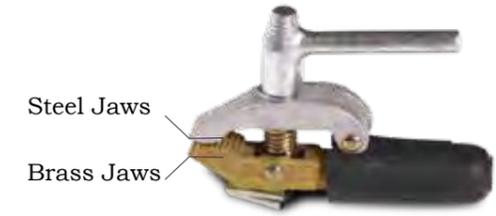
## ACCESSORIES / ACCESSOIRES

### EARTH CLAMP / GROUND CLAMP / PINCE DE MASSE / PINCE DE TERRE



Brass Jaws

Screw Type Series  
ECSTD60B  
Euro-Series



Steel Jaws

Brass Jaws

Screw Type Series  
ECSTD60  
Euro-Series

### HI COPPER SERIES



TC500 ( 500 AMP )

### CHIPPING HAMMER



TW-CH 01

### CYLINDER KEY



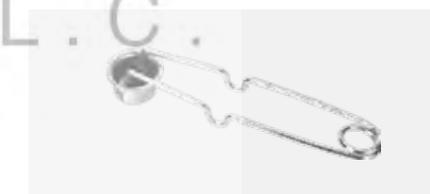
Four Way TW-023

### SPARK LIGHTER



MI-SL-3F

### CUP TYPE- SINGLE FLINT



TW-0008

### PISTOL LIGHTER



TW-0010

### TIP CLEANER / POINTES DE NETTOYAGE

TIP CLEANER		
Model	Size (mm)	Pcs
TC813	8	13
TC1013	10	13
TC1213	12	13



TC813



TC1013



TC1213

TIP CLEANER USE CHART	CLEANER SIZE	8	10	12	14	15	16	17	18	22	24	26
		DRILL SIZE	73-71	70-68	67-65	64-62	61-60	59-58	57	56	55-54	53-52

# GOUGING TORCH AND RODS / ELECTRODE DE GAUGAGE



# GOUGING TORCH AND RODS / ELECTRODE DE GAUGAGE

### GOUGING ELECTRODES

Designed specifically for the Air Carbon - Arc Process

### FEATURES & BENEFITS

- ⊕ Excellent arc stability
- ⊕ Superior metal removal rate
- ⊕ Cool operation
- ⊕ Uniform diameter
- ⊕ Clean machine like grooves or cuts



DIA X LENGTH	INCHES	CURRENT RANGE (Amp)	PACKING
6.5 x 305 x(355)	1/4 x 12" (14")	320-370	50 PCS/ PKT
8 x 305 x (355) (455) (510)	5/16 x 12" (14") (18") (20")	400-450	50 PCS/ PKT
10 x 305 x(355) (455) (510)	3/8 x 12" (14") (18") (20")	500-550	50 PCS/ PKT
12.6 x 305 x(355) (455) (510)	1/2 x 12" (14") (18") (20")	800-1000	50 PCS/ PKT
16 x 305 x(355) (455) (510)	5/8 x 12" (14") (18") (20")	1000-1200	25 PCS/ PKT

### GOUGING TORCHES



#### MODEL: T4000 (1000A) WITH 2 METERS CABLE

- ⊕ Suit: Pointed and Flat carbon from 1/8" (3.2mm) to 5/8" (16mm)
- ⊕ Current: 1000 A
- ⊕ Compressed Air Pressure: 80 PSI (5.6kh/cm2)
- ⊕ Flow Rate: 36 Cfm



#### MODEL: T5000 (1250A) WITH 2 METERS CABLE

- ⊕ Suit: Pointed and Flat carbon from 1/8" (3.2mm) to 5/8" (16mm)
- ⊕ Current: 1250 A
- ⊕ Compressed Air Pressure: 80 PSI (5.6kh/cm2)
- ⊕ Flow Rate: 36 Cfm

## TIG TORCHES & ACCESSORIES / TORCHES TIG ET ACCESSOIRES

### TIG TORCH



AWP26V-12-2

### ARGON GAS HOSE FOR TIG TORCH MODEL - 30GASHOSE



### POWER CABLE FOR TIG TORCH MODEL - 46V28AR



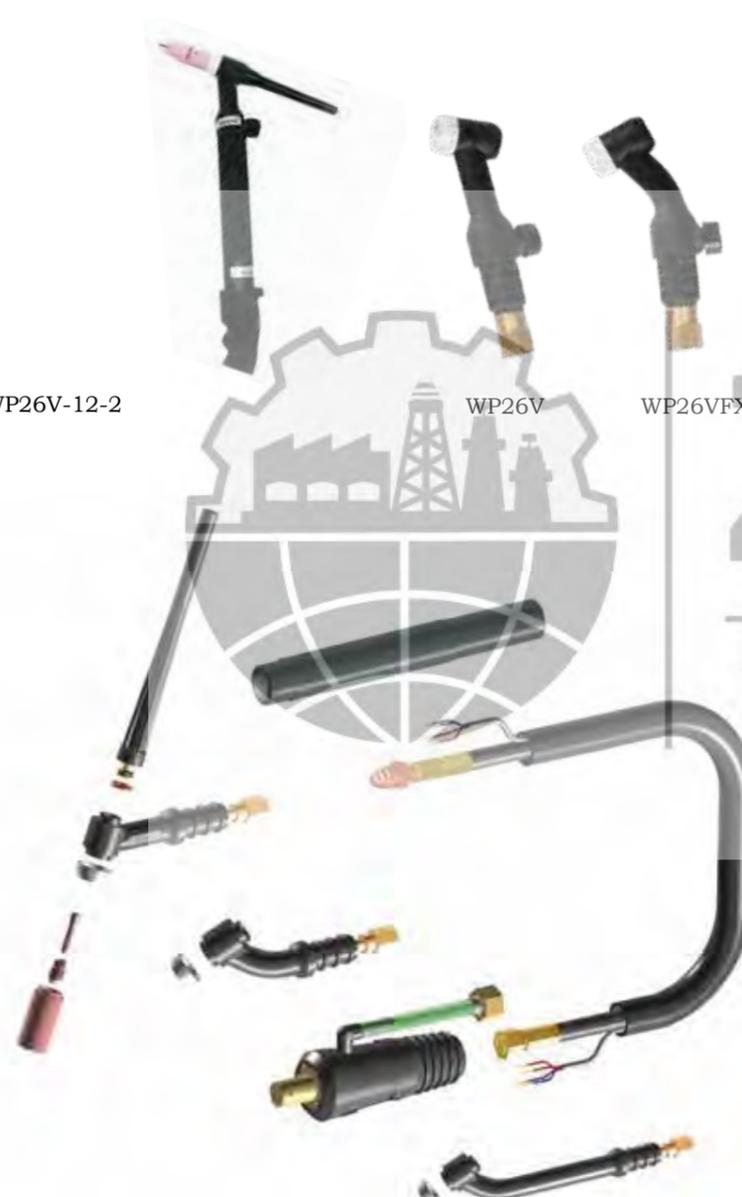
### TIG TORCH MODEL

DESCRIPTION	PART NUMBER-4M	PART NUMBER-8M
Tig Torch Fix Head	AWP-26V-12-2	AWP-26V-25-2
Tig Torch Flexible Head	AWP26VFX12-2	AWP26VFX25-2
Tig Torch-Arc Start	AWP-26V-12-2- Switch	



WP26V

WP26VFX



### STANDARD FRONT END PARTS

Part#	Description	Part#	Description
18CG	Cup Gasket	10N30	Collet Body 1.0mm
		10N31	Collet Body 1.6mm
		10N32	Collet Body 2.4mm
		10N28	Collet Body 3.2mm
		10N49L	Long Alumina Nozzle 8mm #5L
		53N48L	Long Alumina Nozzle 10mm #6L
		53N47L	Long Alumina Nozzle 11mm #7L
		10N50	Long Alumina Nozzle Ø 6mm #4
		10N49	Long Alumina Nozzle Ø 8mm #5
		10N48	Long Alumina Nozzle Ø 10mm #6
		10N47	Long Alumina Nozzle Ø 11mm #7
		10N46	Long Alumina Nozzle Ø 13mm #8
		10N45	Long Alumina Nozzle Ø 16mm #10
		10N44	Long Alumina Nozzle Ø 19mm #12

### COMPACT GAS LENS FRONT END PARTS

Part#	Description	Part#	Description	Part#	Description
54N01	Gas Lens Gasket	45V25	Gas Lens Body 1.6mm	54N14	Gas Lens Ceramic 8.0mm
		45V26	Gas Lens Body 2.4mm	54N15	Gas Lens Ceramic 7.0mm
		45V27	Gas Lens Body 3.2mm	54N17	Gas Lens Ceramic 5.0mm

### LONG BACKCAP

57Y02



### SHORT BACKCAP

57Y04



### VALVE STEM

VS-1



### DARK WELDING GLASS

CHOOSE THE LENS SHADE ADAPTED TO YOUR WORKING CONDITIONS



Size: 51x108mm  
DIN 9, 10, 11, 12, 13, 14

CURRENT (A)	COATED ELECTRODES	MIG HEAVY METALS	MIG LIGHT ALLOY	MAG	TIG	GOUGING
1						
2.5						
5					8	
10					9	
20	8				10	
30	9				11	
40					12	
60	10			9	13	
80				10	14	
100	11	10		11	15	10
150		11	11	12		11
175			12	13		12
200	12	12		14		13
225				15		14
250						15
300			13			
350						
400	13	13	14	14	14	14
450						
500						

## TUNGSTEN ROD / ELECTRODES TUNGSTENE



COLOR CHART	TYPE	LENGTH	DIAMETER	REFERENCES
<b>RED</b>				
2% Thoriated AWS A5.12 EWTh-2 ISO 6848 WT20	Good D/C arc starts and stability, medium erosion rate, medium amperage range & medium tendency to pit	175 mm	1.6	30TR1.6
			2.4	30TR2.4
			3.2	30TR3.2
			4.0	30TR4.0
<b>WHITE</b>				
0.8% Zirconiated AWS A5.12 EWZr-8 ISO 6848 WZ8	Balls well, handles higher amperage than pure tungsten with less pitting, better arc starts and arc stability than pure tungsten	175 mm	1.6	30TRZ1.6
			2.4	30TRZ2.4
			3.2	30TRZ3.2
			4.0	30TRZ4.0
<b>YELLOW</b>				
1.5% Lanthanated AWS A5.12 EWLa-1.5 ISO 6848 WL15	Best D/C arc starts and stability, low Erosion rate, wide Amperage range & no pitting	175 mm	1.6	30TRL1.6
			2.4	30TRL2.4
			3.2	30TRL3.2
			4.0	30TRL4.0
<b>GREEN</b>				
Pure AWS A5.12 EWP ISO 6848 WP	Balls easy, tends To pit at higher amperages. Used for non-critical welds only	175 mm	1.6	30TRWP1.6
			2.4	30TRWP2.4
			3.2	30TRWP3.2
			4.0	30TRWP4.0

## INSTRUMENTS / INSTRUMENTS DE MESURE



### CAM TYPE WELD GUAGE

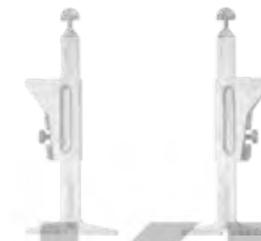
#### MODEL - MG-8

- ⊗ Measure depth of undercut
- ⊗ Measures excess weld (capping size)
- ⊗ Measures fillet length
- ⊗ Measures fillet throat size
- ⊗ Measures angle of preparation (0°-60°)
- ⊗ Measures misalignment (high- low)

### WELDING GUAGE / DEPTH GUAGE

#### MODEL - TW-009

- ⊗ Changes from standard to metric, simply remove gauge body, turn scale over and replace body
- ⊗ Measure internal misalignment
- ⊗ Measure fit-up gap
- ⊗ Measure bevel on end preparation
- ⊗ Measure the crown height of the butt welds
- ⊗ Measure fillet weld size
- ⊗ Measure scribe line, socket welds
- ⊗ Measure pipe wall thickness
- ⊗ Can be calibrated to NBS standard



### CAM TYPE WELD GUAGE

#### MODEL - MG-11

- ⊗ Concave weld
- ⊗ Convex weld



### ECONOMY SINGLE PURPOSE WELDING GUAGE

#### MODEL - TW-012

- ⊗ Available in standard or metric
- ⊗ Eliminates rejects, improves productivity
- ⊗ Internal misalignment
- ⊗ Rootweld space



### TAPER GUAGE-6"

#### MODEL - TW-015

- ⊗ Checks plate fit-up
- ⊗ Checks flange fit-up
- ⊗ Stainless steel material



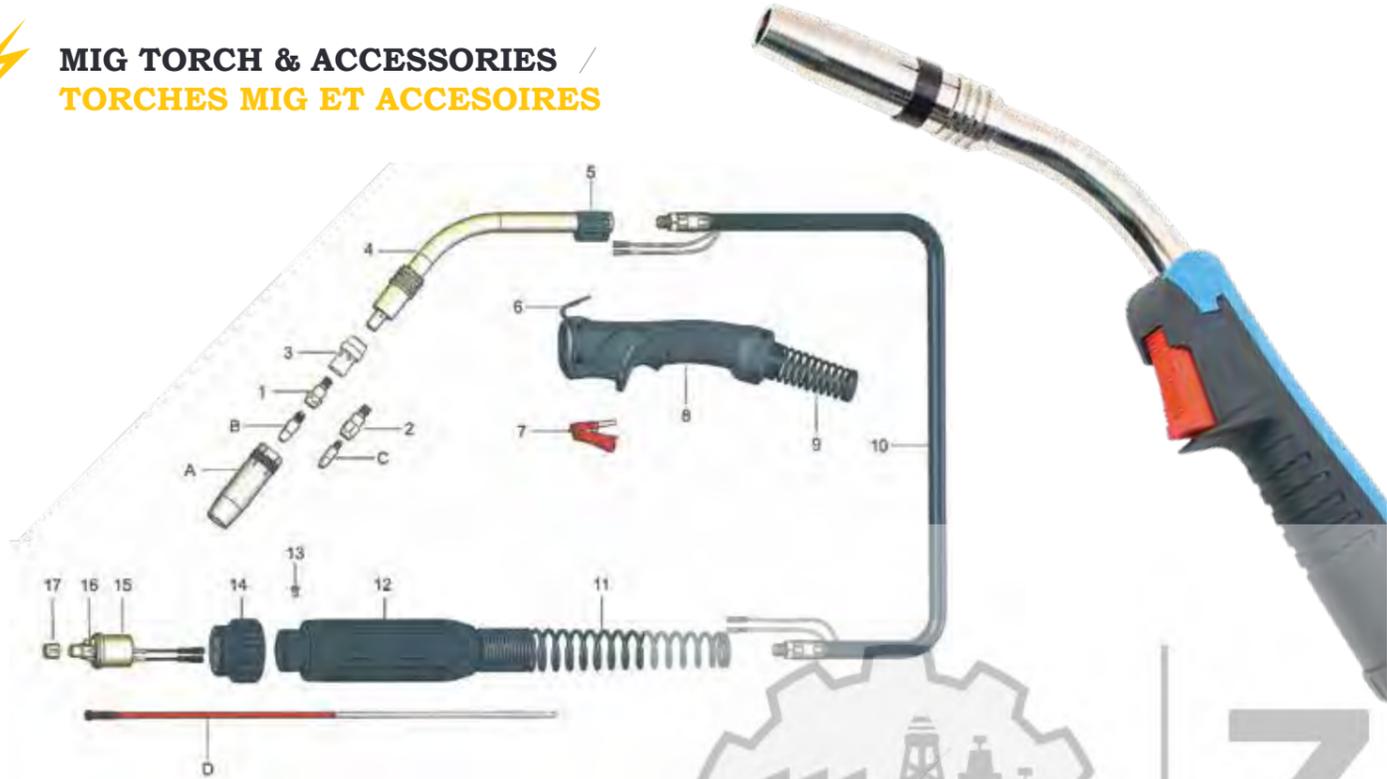
### INSPECTION MIRROR



### INSPECTION MIRROR

- ⊗ Telescopic Model
- ⊗ 5 - Section stainless Steel Shaft
- ⊗ Comfortable textured Cushion grip
- ⊗ 2 Inch Diameter

**MIG TORCH & ACCESSORIES**  
**TORCHES MIG ET ACCESSOIRES**



NOZZLES	PART NO	ITEM DESCRIPTION
A	TW-0094	Nozzles 12mm
	TW-0095	Nozzles 16mm
	TW-0096	Tapered Nozzle 17mm
	TW-0097	Nozzle 19mm

CONTACT TIPS	PART NO	ITEM DESCRIPTION
B	TW-0098	Contact Tip 1.0mm M8x30 Ecu
	TW-0099	Contact Tip 1.2mm M8x30 Ecu
	TW-0101	Contact Tip 1.6mm M8x30 Ecu
	TW-0102	Contact Tip 1.0mm M8x30 CuCrZr
	TW-0103	Contact Tip 1.2mm M8x30 CuCrZr
	TW-0104	Contact Tip 1.6mm M8x30 CuCrZr
C	TW-0105	Contact Tip 0.8mm M6x28 Ecu
	TW-0106	Contact Tip 1.0mm M6x28 Ecu
	TW-0107	Contact Tip 1.2mm M6x28 Ecu
	TW-0108	Contact Tip 0.8mm M6x28 CuCrZr
	TW-0109	Contact Tip 1.0mm M6x28 CuCrZr
	TW-0110	Contact Tip 1.2mm M6x28 CuCrZr

COMPONENTS	PART NO	ITEM DESCRIPTION
1	TW-0111	Contact Tip Socket M8x28
	TW-0112	Contact Tip Socket M8x32
2	TW-0113	Contact Tip Socket M6x28
	TW-0114	Contact Tip Socket M6x32
3	TW-0115	Diffuser, Ceramic
4	TW-0116	Gun Neck 50°
5	TW-0117	Plastic Body
6	TW-0118	Hanger Hook
7	TW-0119	Trigger
8	TW-0120	Handle
9	TW-0121	Front Spring Cable Support
10	TW-0122	Cable Assembly 3m
11	TW-0123	Back Spring cable support
12	TW-0124	Back Handle
13	TW-0125	Screw M4 x6
14	TW-0126	Gun Plug Point
15	TW-0127	Euro Gun Plug
16	TW-0128	O-ring 4X1
17	TW-0129	Nut M10 x1

COMPONENTS	PART NO	ITEM DESCRIPTION
D	TW-0130	Steel Liner 1.0-1.2mm x3m
	TW-0131	Steel Liner 1.2-1.6mm x3m
	TW-0132	Teflon Liner 1.0-1.2mm x 3m
	TW-0133	Teflon Liner 1.2-1.6mm x 3m

**MIG**

**MIG TORCH - EURO STYLE**

**TORCHE MIG - STYLE EURO**



EB-350A -4mtr Cable Air Cooled    EB-400A 4.5mtr Cable Air Cooled

**ACCESSORIES**

SWAN NECK COL DE CYGNE	SPIRAL LINER BOBINE SPIRAL	GAS NOZZLE BUSE DE GAZ
<p>Swan Neck – EB350 / 45°    Swan Neck – EB400 / 45°</p>	<p>Spiral Liner – Dia.1.0-1.2mmx5m</p>	<p>Conical ND16</p>
<p>Conical ND18    Tapered ND14</p>	<p>Suitable For EB350    Suitable For EB400</p>	<p>Size-m6-m8/10x30mm 0.8mm/ 1mm / 1.2mm</p>
<p>CONTACT TIP HOLDER/ADAPTOR</p> <p>SIZE – M6x28mm (Short)</p>	<p>SUPPORT TUBE CONTACT / ADAPTATEUR</p> <p>SIZE M6X43MM (Short)</p>	

## HEATING TORCH TORCHE CHAUFFANTE

Heating Torch is suitable for bituminous, material fusion, for roofing and other works such as streets and ramps defreezing, paint moving, surfaces pickling. Its assembled by an ergonomic nylon handgrip provided with a flame regulation lever enabling the user to act on the flame intensity in accordance with the different needs. The heating torch tube length can according to the customer request, suitable length can suitable for all situations, which is professional and hobby. Heating kit is completed by all accessories needed for a rapid and safety connections to the gas cylinders and provided with a stand support.



TCW-0084



TCW-0085



TCW-0086

MODEL	TOTAL LENGTH (CM)	BURNER SIZE (MM)	GAS FLOW (GR/H)	WEIGHT (KG)
TCW-0084	54	50	2000	0.75
TCW-0085	54	38	2000	0.66
TCW-0086	54	25	2000	0.90

**WELDING MACHINE / MACHINE A SOUDER**



**TECHARC 400**



**TECHMIG 400**

3 PHASE 50/60 Hz CC DC MMA LJR TIG

3 PHASE 50/60 Hz CC CV DC MIG MMA



**TECHARC 200**



**TECHARC 160**



**TECHTIG 200**



**TECHTIG 400**

1 PHASE 50/60 Hz CC DC MMA LJR TIG

50/60 Hz 1 PHASE CC DC TIG MMA



**TECHNICAL DATA**

PARAMETERS	TECHARC 400	TECHARC 200	TECHARC 160
Input voltage (VAC)	415±15%	230±15%	230±15%
Rated input capacity (KVA)	18	7	5.3
Rated input current (A)	27	32	24
Rated output voltage (V)	36	28	27
Output current range (A)	25-400	10-200	20-160
Power factor	0.93	0.93	0.93
Insulation class	H	H	H
Protection class	IP23	IP23	IP21S
Duty cycle @ 40°C (%)	60	60	50
Operating temperature (degree)	40°C	40°C	40°C
Recommended welding rod size (mm)	4.0 - 5.0	3.2	2.5
Weight (kg)	31	8.5	3.5

**TECHNICAL DATA**

PARAMETERS	TECHTIG200	TECHTIG400	TECHMIG400
Input voltage (VAC)	220±15%	415+/-15%	415+/-15%
Rated input capacity (KVA)	4.5	13	17.2
Rated input current (A)	20.5	18	23.64
Rated output voltage (V)	18	26	34
Output current range (A)	5-200	10-400	10-400
Power factor	0.93	0.93	0.93
Insulation class	H	H	H
Protection class	IP23	IP23	IP23
Duty cycle @ 40°C (%)	60	60	60
Operating temperature (degree)	40°C	40°C	40°C
Weight (kg)	9	32	45

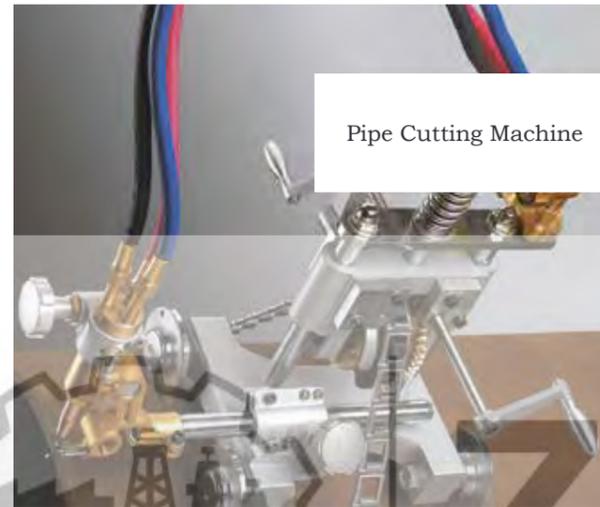
## PIPE & PLATE CUTTING MACHINE / MACHINE DE COUPAGE DE PIPE ET DE TÔLES

### TECHWELD- TC G2

Manually operated oxyfuel pipe cutter bevel cut or straight cut steel pipe

#### PRODUCT SPECIFICATION

Cutting shape	I shape or V Shape (Most Angle is 45 degree)
Diameter of cutting pipe	108mm – 600mm (standard chain)
Cutting Thickness	5mm – 50mm (standard torch)
Reset Accuracy	1mm (The circumference of pipe is 100mm)
Weight (Body)	10.5 kilograms
Accessory	1.5 kilograms
Machine Dimension	325mm x 325mm x 425mm



**AUTOMATIC PIPE CUTTING MACHINE 220V ALSO AVAILABLE**

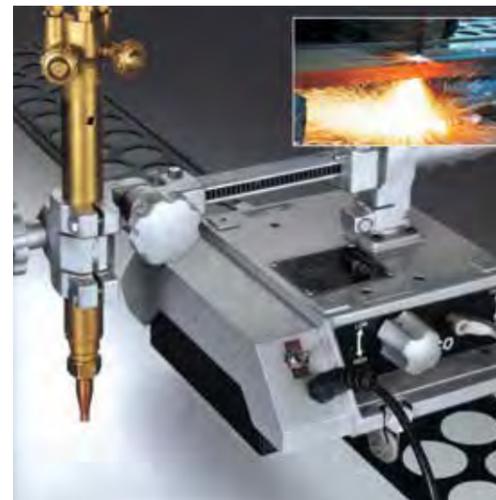
## PLATE CUTTING MACHINE

### TECHWELD- TCM-P200

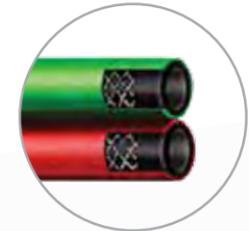
Techweld Portable Flame Cutting Machines have many outstanding design and construction features to give dependable, trouble-free operation. A constant speed AC induction motor is located on the side opposite the cutting torch for cooler operation. The cone disk drive has an automatic wear adjusting mechanism that prolongs the life of the disk drive.

#### PRODUCT SPECIFICATION

Outline Dimensions	Length-14.25" (362.0mm) Width: 11" (279.4mm)- Machine Only 28.5" (723.9mm)- Machine & Torch holder / Height: 1.1.5" (292.2mm) top Of torch holder 5.5" (139.7mm) - top of machine
Capacities	Cutting Length: Increments of 72" (1829 mm) Circle Diameter: 4" to 96" (102 to 2438mm)
Speed Range	TCM-P200: 1 – 60"/minute (25 to 1524 mm per minute)
Weight	Tractor Unit alone: 30.5 lbs (13.8kg)
	Tractor Unit with rigging: 37.5 lbs (17.0kg)



## WELDING HOSE / TUYAU DE SOUDAGE



### TWIN LINE WELDING HOSE (OXYGEN, ACETYLENE)

#### FEATURES

- Resistance normal operation and weather condition in welding service
- Tube and cover with SBR/NR compound
- Reinforcement with polyester fiber braided
- Blue or Green for Oxygen, Red for acetylene
- Specification meet BS EN559

INCH SIZE			MM SIZE		WORKING PRESSURE		PACKING WEIGHT
I.D Inch	Length	Ply	I.D m/m	O.D m/m	PSI	BAR	KGS/ROLL
1/4"	100 Mtr	3	6.3	12.5	300	20	36
1/4"	100 Ft	3	6.3	12.5	300	20	11
1/4"	50 Ft	3	6.3	12.5	300	20	5.5
5/16"	100 Mtr	3	8	14.5	300	20	42

#### APPLICATIONS

Meets all the contents for welding brazing and cutting operation including oxygen and acetylene, cutting and chipping. Can be used for air operated tools and water under pressure.

### SINGLE LINE WELDING HOSE ( LPG, OXYGEN, ACETYLENE, ARGON )

#### FEATURES

- Resistance normal operation and weather condition in welding service.
- Tube and cover with SBR compounded
- Hose cover can be made to Corrugated or smooth surface
- Gas hose and non reinforcement is for no pressure gas hose
- High tensile polyester fiber braided



1/4" X 100 Ft

1/4" x100 Ft

1/4" X 30 Mtr /50 Mtr

5/16"x 100 Mtr

## WELDING PROTECTION / PROTECTION SOUDAGE

### AUTO DARKENING HELMET

TECHNICAL SPECIFICATIONS	
<b>Model</b>	<b>GX-600S</b>
Viewing Area (mm)	98 X 43
Catridge Size (mm)	110 X 90 X 10
Light State	DIN 4
Dark State	Variable Shade 9-13
Dark to Light (s)	0.1-0, 45S Auto
Shade Control	External, Variable
Power on/ off	Fully Automatic
Power Supply	Solar Cell + Replaceble CR2032 Lithium Batteries
Operating Temp	-5°C-+55°C
UV/IR Protection	DIN 16
Box Sizes (mm)	330 X 230 X 230
Weight	480 gms
Welding Process	MMA, MIG, MAG/ CO2, TIG and Plasma Welding, Arc Gouging & Plasma Cutting



AUTO DARKENING HELMET  
MODEL - GX-600S



WELDING GOGGLE  
MODEL- WG-001



WELDING HELMET  
MODEL- WH-001



SAFETY HELMET WITH FACE SHIELD  
MODEL- FSHL-R1701B



WELDING GLOVES  
MODEL- RG-02



WELDING GLOVES  
MODEL- RG-01



WELDER BOOT  
MODEL- 329T



WELDER BOOT  
MODEL- 8061



LEATHER APRON  
MODEL - LA-1



LEATHER LEG GUARD  
MODEL - LLG



LEATHER HAND SLEEVE  
MODEL - LHS



LEATHER JACKET  
MODEL - LJ-1

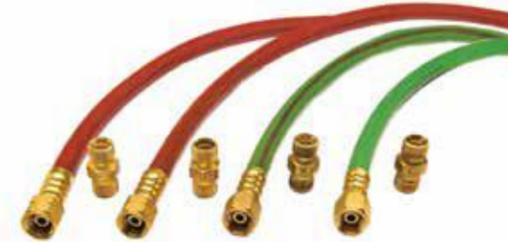
## HOSE REPAIR KIT & ACCESSORIES / KIT DE RÉPARATION DE TUYAU ET ACCESSOIRES



**TW-2157**  
Hose Repair Kit Vise Grip Tool  
Kit With C-5-3 Crimping Tool for 3/16",  
1/4", 3/8" ID Hose



**TW-2158**  
Hose Repair Kit Vise Grip Tool  
Kit With Hammer Tool for 3/16", 1/4", 3/8"  
ID Hose



### CRIMPING TOOLS AND ACCESSORIES



HOSE SPLICER  
3/8" 5/8" 3/16" 1/4"



NIPPLE & NUTS  
3/8" 9/18" 1/4"

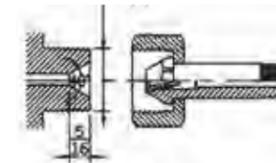


HOSE COUPLER  
1/4" NPT TO B-SIZE RH/LH

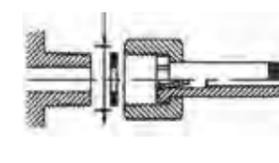


### CGA CONNECTIONS

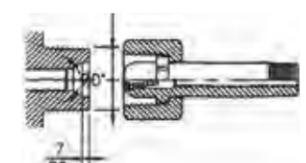
CGA. No- **300 (Acetylene)**  
**Dimensions:** .825"- 14NGO-RH(M)  
.830" - 14(F)



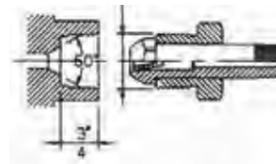
CGA. No- **320 (CO2)**  
**Dimensions:** .825"- 14NGO-RH(M)  
.830" - 14(F)



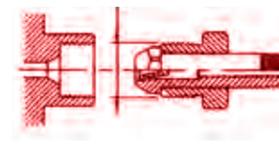
CGA. No- **540 (Oxygen)**  
**Dimensions:** .903"- 14NGO-RH(M)  
.908" - 14(F)



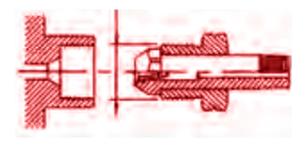
CGA. No- **580 (Argon)**  
**Dimensions:** .965"- 14NGO-RH(F)  
.960" - 14(M)



CGA. No- **992 (British Oxygen)**  
**Dimensions:** .910"- 14NGO-RH(F)  
.898" - 14(M)



CGA. No- **993 (British Acetylene)**  
**Dimensions:** .910"- 14NGO-LH(F)  
.898" - 14(M)





**ZAKER**  
TRADING L.L.C.



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**TECHWELD INDUSTRIAL TECHNOLOGIES LTD**

Office 1078 Great Northern House  
275 Densgate, M3 4EL  
Manchester, United Kingdom

[info@techweld.co.uk](mailto:info@techweld.co.uk)  
[www.techweld.co.uk](http://www.techweld.co.uk)