



UWELD®

宁波市尤耐克工具有限公司

**NINGBO UNITED TOOLS CO., LTD.
UWELD TECHNOLOGIES CO., LTD.**

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CATALOG 2016

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**TRUST IS WHAT WE BELIEVE IN
QUALITY IS WHAT WE DELIVER**



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ABOUT US

NINGBO UNITED TOOLS CO., LTD was officially founded in the year of 2006 as a specialized manufacturer and exporter of professional gas welding & cutting torches, heating torches, pressure regulators, as well as accessories and spare parts in gas equipment industry. With the combination and support of four plants, whose manufacturing backgrounds can be traced back to the early 1970', we enjoy quite a reputation in the domestic market all over China and also international markets in over 50 countries mostly in North America, South America, Southeast Asia, and some European countries at the same time.

Due to the enormous expansion of the gas welding & cutting business, UWELD has realized the importance of innovation and creation. In the year of 2010, a new company named UWELD TECHNOLOGIES CO., LTD was founded. With its own excellent research&development team, fully trained technicians and well equipped precision machinery, UWELD has been approved as a brand with high quality and long service life.

Over the past decade, UWELD products have passed the ISO 9001 certification and the CE certification, tested by the world's most leading inspection companies SGS and IGS, meanwhile, the applying of the American UL product safety standard certification is in pending process.

UWELD will be constantly making great efforts to offer products with improving quality and satisfactory service, at the same time to become a qualified supplier of world's most prestigious gas equipment companies and UWELD its own a well recognized brand.



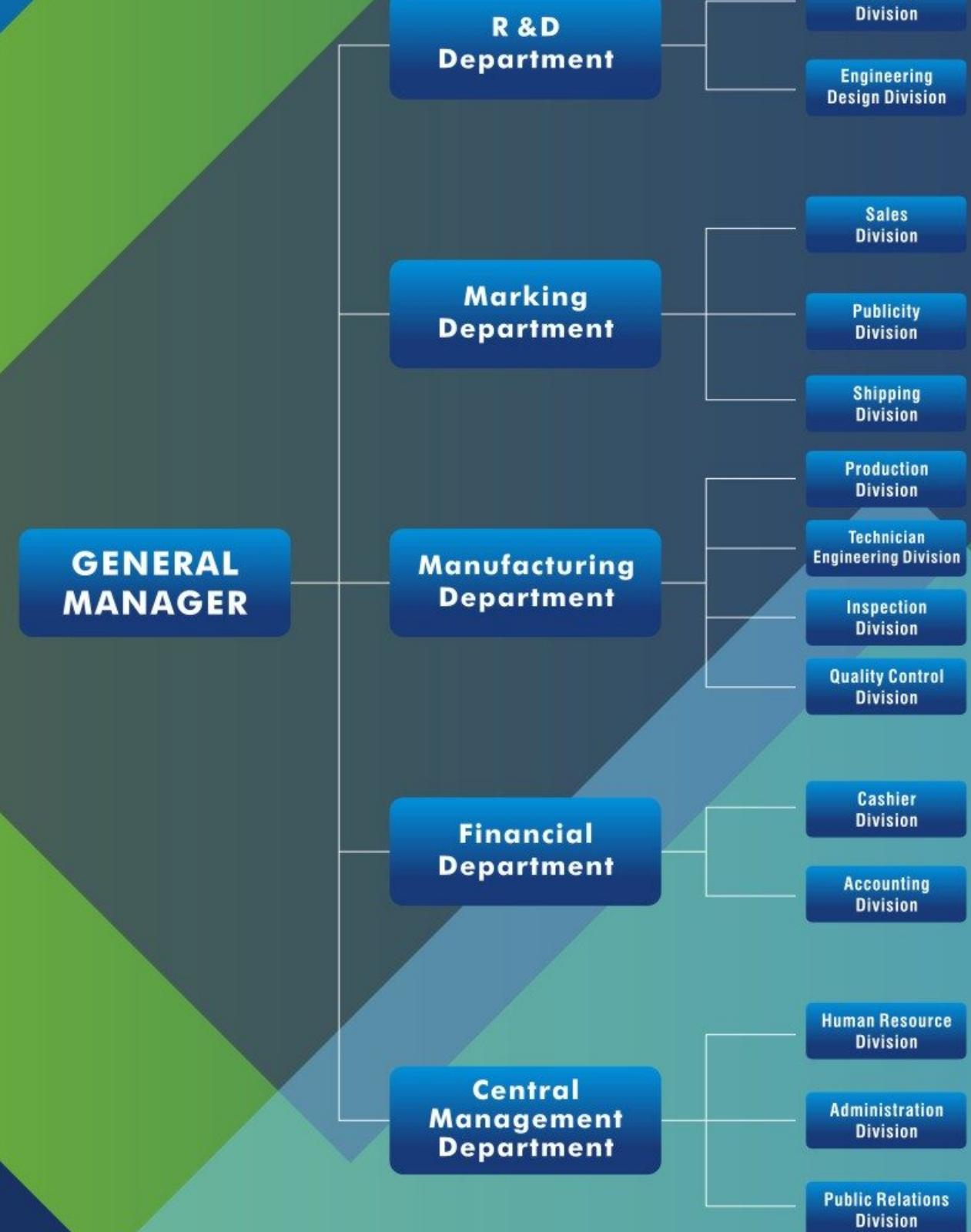
UWELD team is consisted of research & development department, marketing department, manufacturing department, financial department and central management department. Every member of each division is making an effort everyday to make a difference by doing what they can contribute.

UWELD team aims to offering the products of the best quality we can supply, and constantly improving service to our respected customers. We have been striving for meeting the customers' requirements as well as expectations over the years, no matter it is of for OEM orders or it is of UWELD brand products. Though we have customers from countries all over the world with different cultural backgrounds and different religious beliefs, we answer every single question with patience and solve each problem that day to day work brings.

As we believe the key to a successful business relationship depends not only on products of good quality, but also on excellent understanding and fluent communication, UWELD team is looking forward to establishing a mutual-beneficial, long term business partnership with you.

Graham

GENERAL MANAGER



APPLICATION FIELDS

The professional welding and cutting equipment that UWELD has to offer can mainly be classified into four product categories:

Oxyfuel cutting

Gas products mainly like gas regulator and gas cutting torches have been widely used with the gas combination of oxygen & acetylene / oxygen & propane in many fields.

Welding

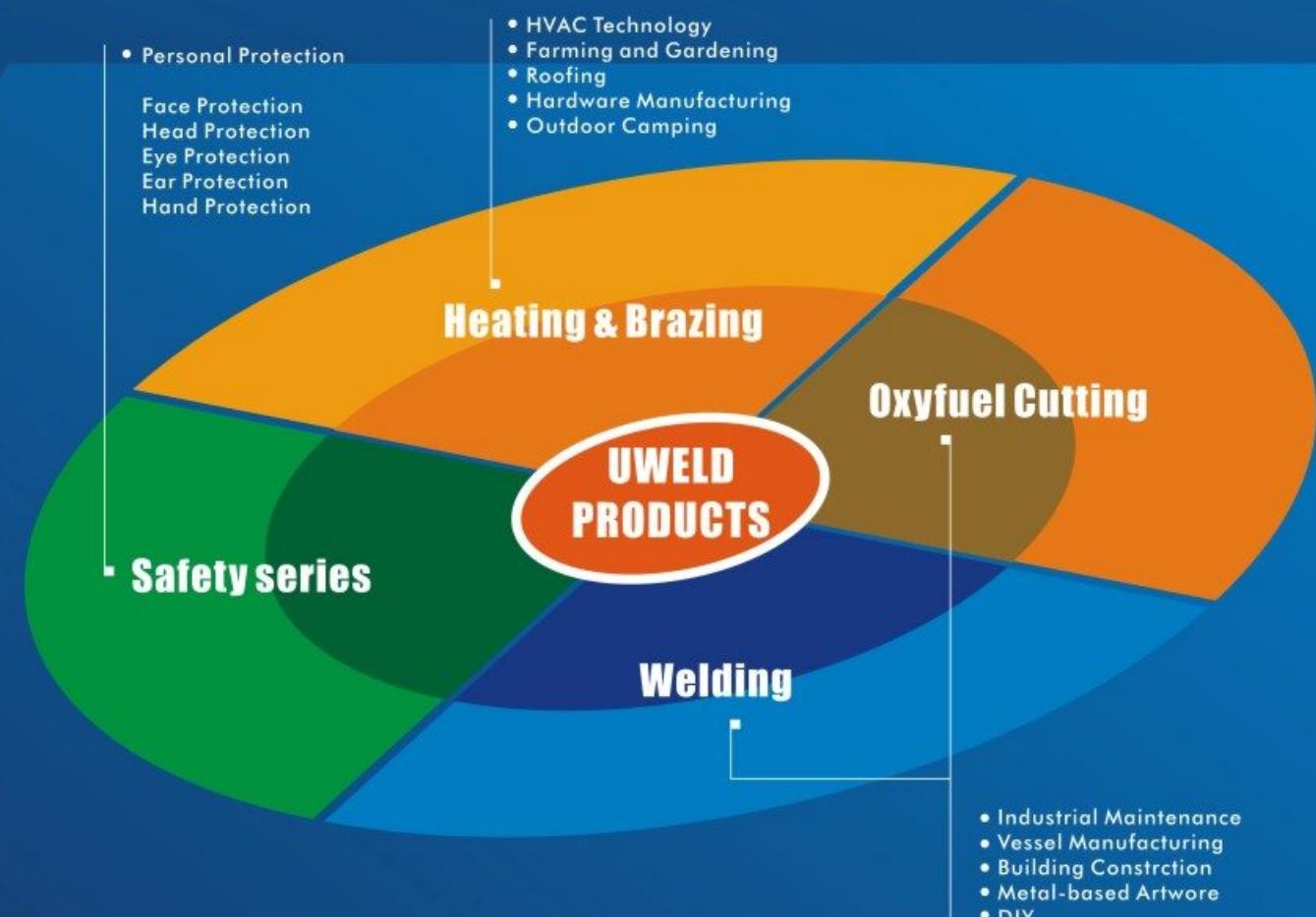
Electric welding machines and welding torches have the same function and are even more popular than the gas products. Both of the above two categories are commonly found in fields like building construction, industrial maintenance, vessel manufacturing, all kinds of metal-based artwork, and DIY.

Heating & Brazing

Heating torches and Brazing kits are overwhelmingly applied in HVAC technology, farming and gardening, roofing, hardware manufacturing, as well as outdoor camping.

Safety series

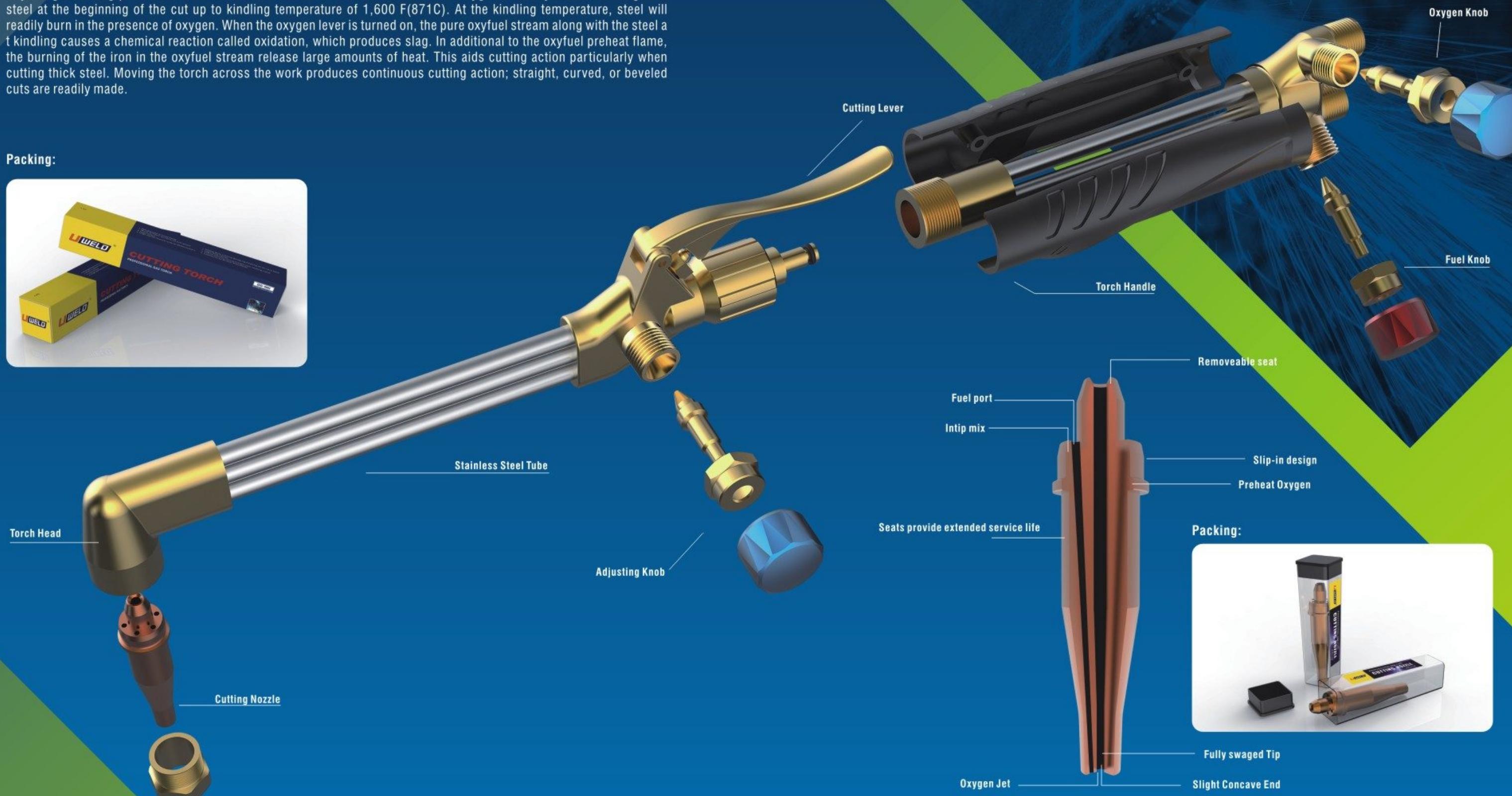
Protection will always be necessary during all these welding and cutting process. Safety products like welding goggles, automatic welding helmets, welding gloves are perfect for the welder's personal protection at work.



Cutting Torch

Oxyfuel gas cutting process is a series of chemical reactions between iron and oxygen. The oxyfuel flame brings the steel at the beginning of the cut up to kindling temperature of 1,600 F(871C). At the kindling temperature, steel will readily burn in the presence of oxygen. When the oxygen lever is turned on, the pure oxyfuel stream along with the steel at kindling causes a chemical reaction called oxidation, which produces slag. In addition to the oxyfuel preheat flame, the burning of the iron in the oxyfuel stream release large amounts of heat. This aids cutting action particularly when cutting thick steel. Moving the torch across the work produces continuous cutting action; straight, curved, or beveled cuts are readily made.

Packing:



Packing:





Regulator

Due to the fact that the required working pressure during gas welding and gas cutting is comparatively lower than the pressure in both of the gas cylinders, thus gas regulators play an essential role in reducing the pressure from the cylinders, and ensuring the pressure maintain stable throughout the operation process. In short, a gas regulator is a device which regulate gas with high pressure into gas with low press, 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, CO₂, helium, air, natural gas, etc.

Packing:



PROFESSIONAL QUALITY



UWELD believes that good products come from good production engineering. Our manufacturing division is equipped with more than 20 excellent technicians whose working experience being over 30 years.

Also our plants are fully equipped with modern machinery such as: CNC lathe machine, laser cutting machine, laser printing machine, automated spray paint system, and accurate inspection devices.

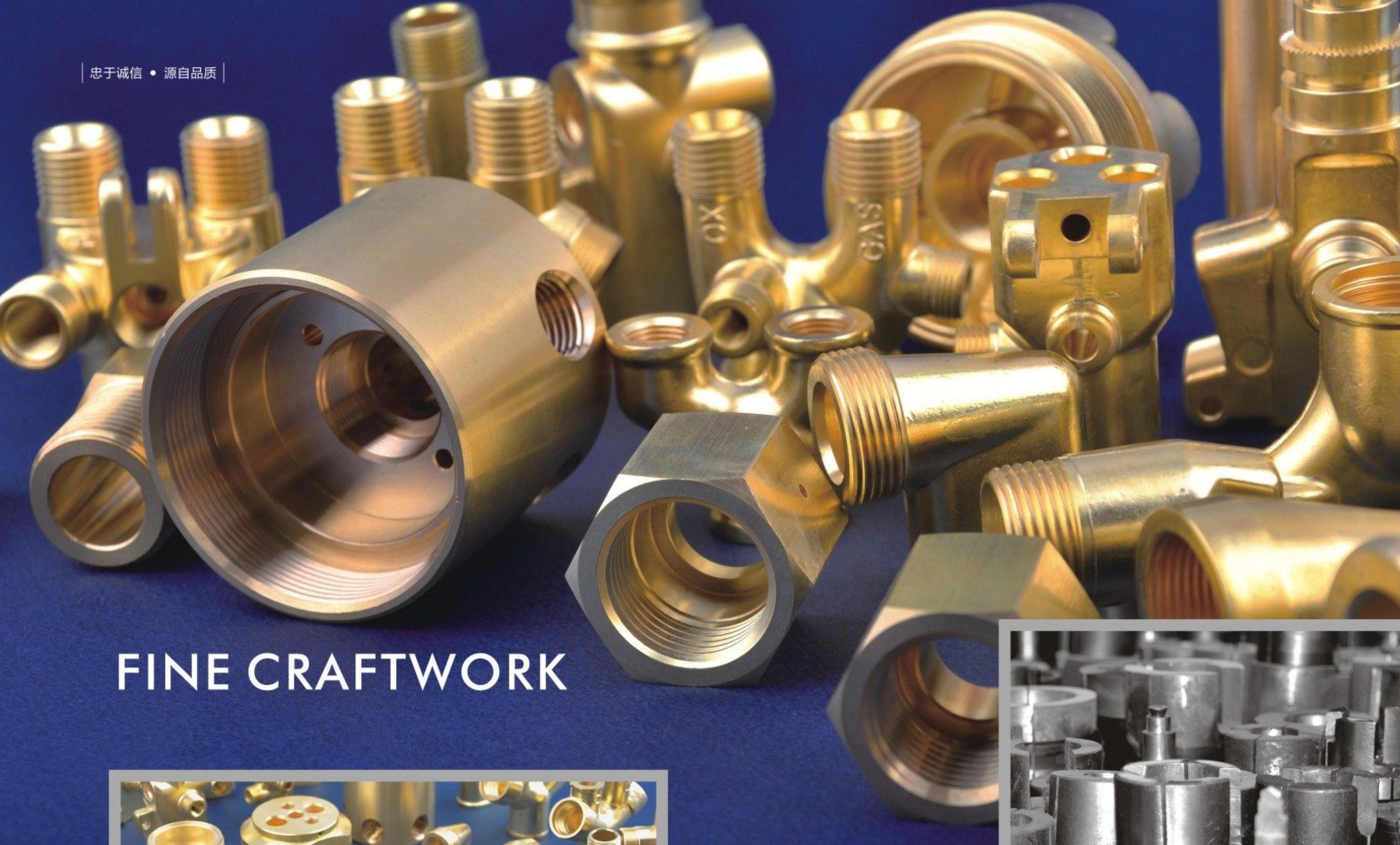
UWELD products have passed the ISO9001:2008 quality system as well as the European CE certification standard, both tested by the world's most leading inspection companies SGS and IGS.





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Measuring Instrument





**TRUST IS WHAT WE BELIEVE IN
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WARNING

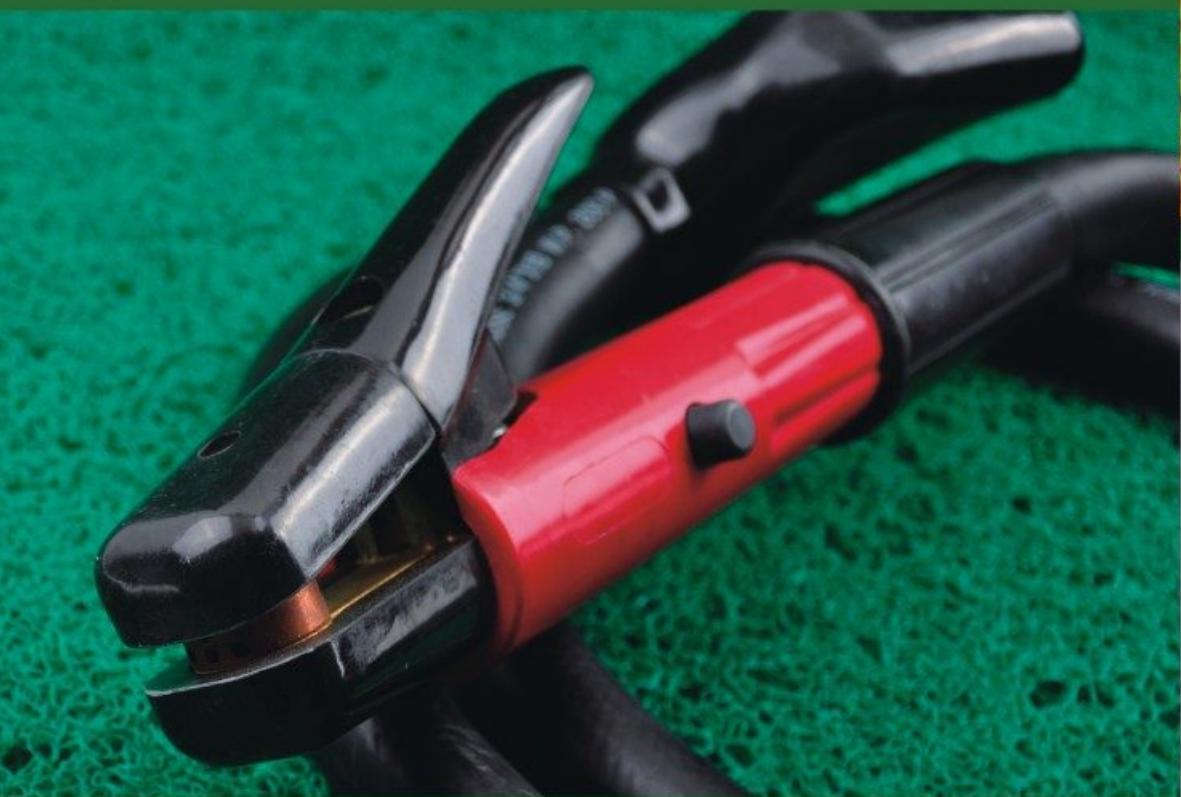
All gas cutting & welding products should only be used by well-trained professional technicians. Using before read the operation manual. Misoperation of these products could cause serious injuries even death due to high pressure and hazardous gases.

UWELD reserves the right to change of any products design, materials, or specifications without notice.

UWELD suggests using regulators and torches together with flashback arrestors or check valves.

CONTENTS

OXYFUEL CUTTING	001-166
HEATING & BRAZING	167-238
WELDING	239-329



Welding machine	239-252
Mig/mag torch	253-270
Tig torch	271-276
Plasma cutting torch	277-280
Gouging torch	281-282
Tungstne electrode	283-284
Carbon electrode	285-286
Welding mask	287-290
Welding electrode	291-300
Welding cable	301-304
Electrode houlder	305-312
Electrode oven	313-314
Cable connector	315-316
Welding accessories	317-329

WELDING MACHINE

ADVANCED TECHNOLOGY

DURABILITY



ARC-160/200/250/315

FEATURES

Advanced (IGBT) inverter technology.
Compact, portable, highly effective, low consumption, energy saving; with strong compensation capability, resistant to voltage fluctuation, stable welding current.
Anti-stick, thermostatic control, fan cooled, carrying strap and handle.
Hot start, arc force, overload protection.
Supplied complete with electrode holder and earth clamp, face mask and welding brush, carton box.
Applicable for welding of all kinds ferrous metals such as low carbon steel, medium carbon steel and alloy steel, etc.



Specifications:

Model	ARC-160	ARC-200	ARC-250	ARC-315
Power Voltage (V)	230	230	230	230
Rated Input Capacity (KVA)	7.1	7.1	12	13
No Load Voltage (V)	60	60	60	60
Current Range (A)	20-160	20-200	30-250	30-315
Rated Duty Cycle (%)	60	60	60	60
Insulation Class	H	H	H	H
Protection Degree	IP21	IP21	IP21	IP21
Net/Gross Weight (KG)	3.96/6.1	3.96/6.1	4.0/6.1	6.8/9.2
Machine Size (MM)	320*120*200	320*120*200	320*120*200	400*160*300
Carton Size (MM)	350*140*230	350*140*230	350*140*230	450*185*320

**ARC-160I/200I/250I****FEATURES**

Advanced (IGBT) inverter technology.
Compact, portable, highly effective, low consumption, energy saving; with strong compensation capability, resistant to voltage fluctuation, stable welding current.
Anti-stick, thermostatic control, fan cooled, carrying strap and handle.
Hot start, arc force, overload protection.
Supplied complete with electrode holder and earth clamp, face mask and welding brush, carton box.
Applicable for welding of all kinds ferrous metals such as low carbon steel, medium carbon steel and alloy steel, etc.

**Specifictions:**

Model	ARC-160I	ARC-200I	ARC-250I
Rated Voltage (V)	230	230	230
Frequency (HZ)	50/60	50/60	50/60
Rated Input Capacity (KVA)	7.1	7.1	8.8
No Load Voltage (V)	56	56	62
Output Current Range (A)	30-160	30-200	30-250
Duty Cycle (%)	60	60	60
Efficiency (%)	85	85	85
Protection Degree	IP21	IP21	IP21
Insulation Class	H	H	H
Net/Gross Weight (KG)	5.6/7.6	6.8/8.8	7.8/9.8
Machine Size (MM)	415*160*310	415*160*310	415*160*310
Carton Size (MM)	510*185*325	510*185*325	510*185*325

ARC-315I/400I/500I**FEATURES**

Compact, portable, highly effective, low consumption, energy saving; with strong compensation capability, resistant to voltage fluctuation, stable welding current.
Anti-stick, thermostatic control, fan cooled, carrying strap and handle.
Hot start, arc force, overload protection.
Supplied complete with electrode holder and earth clamp, face mask and welding brush, carton box.
Applicable for welding of all kinds ferrous metals such as low carbon steel, medium carbon steel and alloy steel, etc.

**Specifictions:**

Model	ARC-315I	ARC-400I	ARC-500I
Rated Voltage (V)	380	380	380
Frequency (HZ)	50/60	50/60	50/60
Rated Input Capacity (KVA)	12.8	18	25
No Load Voltage (V)	70	70	70
Output Current Range (A)	30-320	40-400	40-500
Duty Cycle (%)	60	60	60
Efficiency (%)	85	85	85
Protection Degree	IP21	IP21	IP21
Insulation Class	H	H	H
Net/Gross Weight (KG)	17/21	18/22.2	19/23
Machine Size (MM)	510*210*410	510*210*410	510*210*410
Carton Size (MM)	560*280*470	560*280*470	560*280*470

**MMA-250-1/250-2/250-3****Specifications:**

Model	MMA-250-1	MMA-250-2	MMA-250-3
Rated Voltage (V)	230	3-380	3-380
Frequency (HZ)	50/60	50/60	50/60
Rated Input Capacity (KVA)	7.1	8.8	12
No Load Voltage (V)	56	56	56
Output Current Range (A)	30-200	30-250	30-315
Duty Cycle (%)	60	60	60
Efficiency (%)	85	85	85
Protection Degree	IP21	IP21	IP21
Insulation Class	H	H	H
Net/Gross Weight (KG)	6.8/9.72	11/13.5	15/18
Machine Size (MM)	400*160*295	480*200*300	480*200*300
Carton Size (MM)	435*185*320	550*245*395	550*245*395

CUT-40/CUT-60S/CUT-60**FEATURES**

Cutting capacity increase 1.8 times higher in cutting speed compared with flame cutter.
 Suitable metal sheet can be cut easily and quickly.
 Suitable for cutting stainless steel, copper, iron and aluminum, etc.
 Simple operation and smooth cutting surface.
 Supplied complete with plasma cutting torch and earth clamp, face mask and welding brush, carton box.



Standard



Standard

**Specifications:**

Model	CUT-40	CUT-60S	CUT-60
Input Voltage (V)	230	230	380
Rated Output Voltage (V)	96	96	96
Output Current Range (A)	20-40	20-58	20-60
Duty Cycle (%)	60	60	60
Insulation Class	H	H	H
Efficiency (%)	85	85	85
Cutting Thickness (MM)	12	15	20
Net/Gross Weight (KG)	7.7-11.3	16.4/22	17/23
Machine Size (MM)	400*160*295	420*160*295	480*200*300
Carton Size (MM)	435*185*320	455*185*320	550*245*395

**TIG-160/200/200S/250S****FEATURES**

Advanced (MOSFET) inverter technology, suit for TIG welding.
Compact, portable, highly effective, and low consumption, energy saving; with strong compensation capability, resistant to voltage fluctuation, stable welding current.
Anti-stick, thermostatic control, fan cooled, carrying strap and handle.
Hot start, arc force, overload protection.
Supplied complete with TIG torch, earth clamp, face mask and welding brush, carton box.
Extremely flexible use for welding materials, such as, steel, iron, titanium, copper, nickel and alloys.

**Specifications:**

Model	TIG-160	TIG-200	TIG-200S	TIG-250S
Input Voltage (V)	230	230	230	230
No Load Voltage (V)	63	63	63	63
Current Range (A)	10-160	10-200	10-200	10-250
Duty Cycle (%)	60	60	60	60
Input Capacity (KW)	3.3	4.5	4.5	4.5
Insulation Class	H	H	H	H
Protection Degree	IP21	IP21	IP21	IP21
Frequency (HZ)	50/60	50/60	50/60	50/60
Efficiency (%)	85	85	85	85
Net/Gross Weight (KG)	8.0/11.6	8.32/11.92	8.32/11.92	8.32/11.92
Machine Size (MM)	400*160*310	400*160*310	400*160*310	400*160*310
Carton Size (MM)	495*185*330	495*185*330	495*185*330	495*185*330

TIG AC/DC**TIG-200P/250P/315P****Specifications:**

Model	TIG-200P	TIG-250P	TIG-315P
Input Voltage (V)	AC.(single phase) 110V-240V±15%		AC.(three phase) 220V-415V±15%
Rated Input Power Capacity (KW)	4.5	6.3	8.9
No Load Voltage Rated(V)	56	56	56
Regulation of Output Current (A)	20-200	20-250	20-315
Rated Output Voltage (V)	18	20	23
Duty Cycle (%)	60	60	60
Arc-sarting	HF	HF	HF
Efficiency (%)	85	85	85
Power Factor	0.93	0.93	0.93
Insulation Class	B	B	B
Gross Weight (KG)	28	33.5	37.5
Overall Dimension (MM)	500*300*360	560*365*370	560*365*375
Protection Class of Case	IP21	IP21	IP21
Pre-flow (S)	0-2	0-2	0-2
Clean Width (%)	20-80	20-80	20-80
Down-slope Time (S)	0-5	0-5	0-5
Past-flow Time (S)	2-10	2-10	2-10
Remote Control Socket	No	Yes	Yes
Max Welding Thickness with AC (mm)	3	5	5

**MIG-185/200/250 Series****Specfifications:**

Model	MIG-185	MIG-200	MIG-250
Power Phase	single phase	single phase	single phase
Input Power Voltage (V)	220-240	220-240	220-240
Frequency (Hz)	50/60	50/60	50/60
Input Power Capacity (KVA)	7.5	7.5	7.5
Output Current Range (A)	20-185	20-200	20-200
Rated Output Voltage (A)	11-27	11-27	11-27
Duty Cycle (%) 25°C	60	60	60
Efficiency (%)	85	85	85
Power Factor Cos	0.85	0.85	0.85
Power Time (S)	1±0.5	1±0.5	1±0.5
Protection Class	IP21	IP21	IP21
Radius of Wire	0.6/0.8	0.6/0.8	0.6/0.8
Net Weight (KG)	12.4	16	16
Machine Size (MM)	520*230*380	490*250*460	490*250*460

MIG SERIES AC TRANSFORMER**FEATURES**

Single phase, portable, fan-cooled wire welding machine for flux. The kit for welding different types of materials, such as, steel, stainless steel. Steel and aluminum is available on request.



Standard



Standard



Standard

**Specfifications:**

Model	MIG-120	MIG-140	MIG-160	MIG-180
Output Current Range (A)	50-120	60-140	60-160	60-180
Power Voltage (V)	220	220	220	220
Max Absorbed Power (KVA)	3.6	3.7	5.2	6
Absorbed Power 60% (KVA)	1.3	1.4	2.3	2.5
Main Fuss (A)	13	16	16	16
Max Current Output (A)	105@15%	115@15%	140@15%	140@20%
Core Welding Wire Diameter	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8
Steel Welding Wire Diameter	0.8	0.8	0.8	0.8
Flux Welding Wire Diameter	0.8	1	1	1.2
Weight (KG)	29	32	34	36
Measurement (MM)	520*310*440	520*310*440	520*310*440	520*310*440

**Bx1 SERIES AC ARC WELDER****FEATURES**

Single phase moving core type and forced air cooling structure.
Suitable for welding ferrous metal work-piece with general AC electrode.
Suitable ARC, little spatter and deep penetration can ensure welding quality well.
Simple structure, high efficiency, easy to operate and maintenance.
Two kinds of input power of 220V and 380V.
Forced air-cooling structure and seven-step current adjustment.
Suitable for welding small work pieces.



NEW

Specfictions:

Model	BX1-250A	BX1-315A	BX1-400A	BX1-500A	BX1-630A
Power Voltage (V)	380	380	380	380	4380
Rated Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Rated Output Current (A)	250	315	400	500	630
Output Current Range (A)	5-350	63-315	80-400	100-500	126-630
Rated Duty Cycle (%)	35	35	35	35	35
Rated Input Voltage	20-400	20-500	20-600	20-700	
Weight (KG)	60	68	80	90	120
Measurement (MM)	660*440*570	660*440*570	660*475*765	660*475*765	660*475*765

Bx6 SERIES AC ARC WELDER**FEATURES**

Two kinds of input power of 220V and 380V.
Forced air-cooling structure and seven-step current adjustment.
Suitable for welding small work pieces.

**Specfictions:**

Model	BX6-160B	BX6-180B	BX6-200B	BX6-250B	BX6-300B	BX6-400B
Rated Output Current (A)	160	180	200	250	300	400
Power Voltage (V)	220/380	220/380	220/380	220/380	220/380	220/380
Rated Duty Cycle (%)	20	20	20	20	20	20
Rated Input Capacity (KVA)	9.7	10.5	12.5	15	18	20
Current Range (A)	70-160	75-180	80-200	90-250	100-300	100-400
Electrode Diameter (MM)	2-3.2	2-3.2	2-4.0	2-5.0	2.5-6.0	2.5-6.0
Weight (KG)	16	20	21.5	22	24	28
Machine Size (MM)	420*200*340	420*200*340	460*210*350	460*210*350	460*210*350	460*210*350

**BATTERY CHARGER SERIES****CB-10/15/20/30/40/50****CB-10P/15P/20P/30P/40P/50P****BATTERY CHARGER SERIES****CD-230/330/430/530/630****CD-230A/330A/430A/530A/630A****FEATURES**

For charging 12V-24V lead-acid batteries.

Single phase, portable, on-wheel, charging and starting for lead-acid battery with 12V and various cars, vans and light trucks.

Automatic thermistor protection.

Choice of normal charge, quick charge (boost) and quick start.

Timer for quick charge.

**Specifications:**

Model	CB-10	CB-15	CB-20	CB-30	CB-40	CB-50
	CB-10P	CB-15P	CB-20P	CB-30P	CB-40P	CB-50P
Input Power Voltage (V)	AC230V	AC230V	AC230V	AC230V	AC230V	AC230V
Input Power Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
AC Power Input (W)	100	150	300	500	800	1000
Rated Charging Current (A)	5/8	6/9	12/18	25	35	45
Effective Charging Current (A)	3/5	4/6	8/12	20	25	35
Charging Voltage (V)	12/24	12/24	12/24	12/24	12/24	12/24
Insulation Grade	H	H	H	H	H	H
Packing Dimensions (mm)	260*215*200	260*215*200	260*215*200	275*240*200	295*270*205	295*270*205
N.W./G.W. (KG)	4.1/4.65	4.48/5	6/6.56	8.25/8.73	9.18/9.68	9.32/9.89

Specifications:

Model	CD-230 CD-230A	CD-330 CD-330A	CD-430 CD-430A	CD-530 CD-530A	CD-630 CD-630A
Input Power Voltage (V)	AC230V	AC230V	AC230V	AC230V	AC230V
Input Power Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC Power Input (W)	0.8/3.6	1/6.4	1/6.8	1.6/10	2/12
Rated Charging Current (A)	30	40	50	60	75
Effective Charging Current (A)	20	30	40	50	60
Rated Charging Capacity (Ah)	400	500	700	800	1000
Charging Voltage (V)	12/24	12/24	12/24	12/24	12/24
Insulation Grade	H	H	H	H	H
Protection Grade	IP20	IP20	IP20	IP20	IP20
Packing Dimensions (mm)	286*220*545	286*220*545	286*220*545	360*275*560	360*275*560
N.W./G.W. (KG)	14.8/15.9	15.5/16.8	16/17.4	23.8/25	24/25.9



2W002-0001

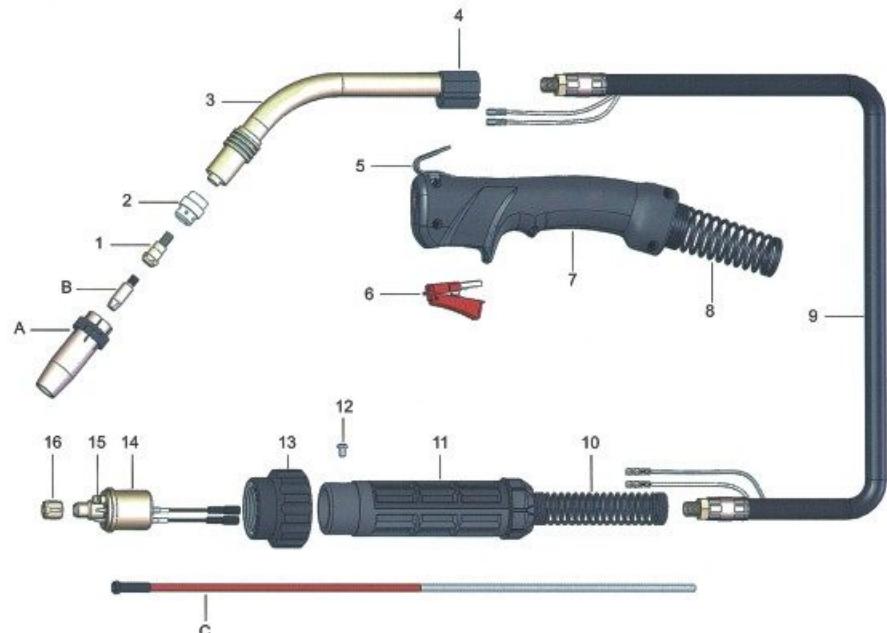
Description

Prat No.	15AK-3	15AK-4	15AK-5
	3m	4m	5m

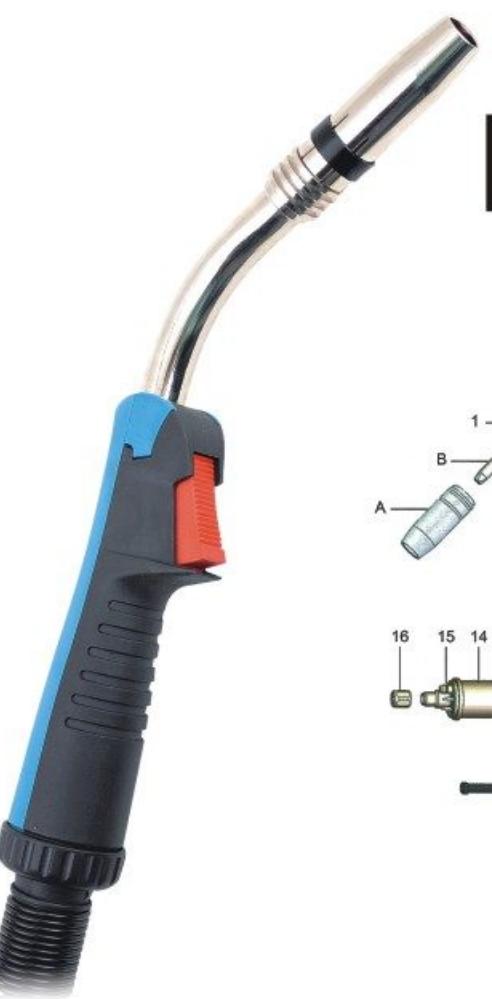
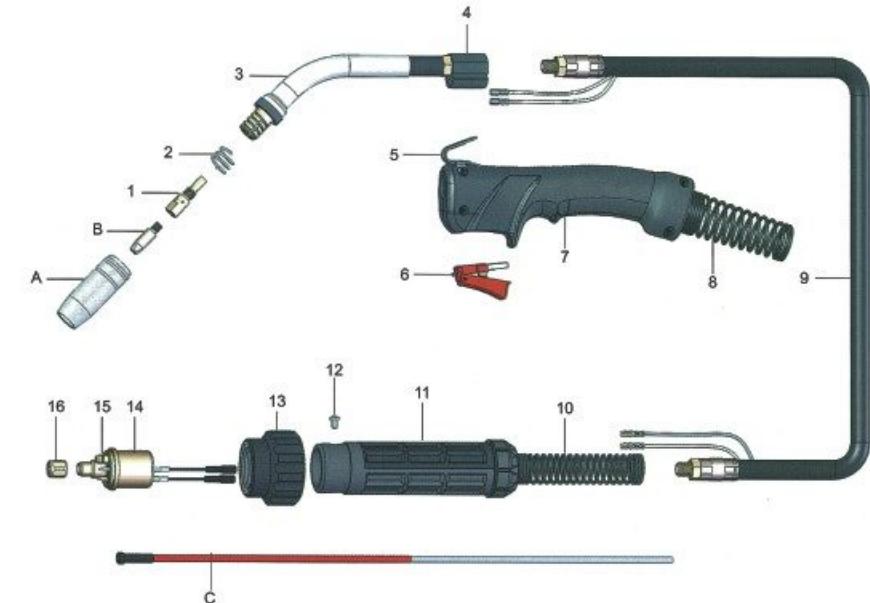
Nozzles	Prat No.	
A	2W003-0001	Nozzle 9.5mm
	2W003-0002	Nozzle 12mm
	2W003-0003	Tapered Nozzle 13mm
	2W003-0004	Nozzle 16mm

Contact Tips	Prat No.	
B	2W003-0005	Contact Tip 0.6mm M6x25 Ecu
	2W003-0006	Contact Tip 0.8mm M6x25 Ecu
	2W003-0007	Contact Tip 0.9mm M6x25 Ecu
	2W003-0008	Contact Tip 1.0mm M6x25 Ecu
	2W003-0009	Contact Tip 0.6mm M6x25 CuCrZr
	2W003-0010	Contact Tip 0.8mm M6x25 CuCrZr
	2W003-0011	Contact Tip 0.9mm M6x25 CuCrZr
	2W003-0012	Contact Tip 1.0mm M6x25 CuCrZr

Components	Prat No.	
C	2W003-0013	Steel Liner 0.6-0.8mm x 3M
	2W003-0014	Steel Liner 0.8-1.0mm x 3M
	2W003-0015	Teflon Liner 0.8-1.0mm x 3M

**24KD****Welding Gun c/w Euro Fitting**Rating: 250A CO₂ 220A mixed gas, 60% duty cycle.wires: 0.8-1.2mm

2W002-0002

**25AK****Welding Gun c/w Euro Fitting**Rating: 230A CO₂ 200A mixed gas, 60% duty cycle.wires: 0.8-1.2mm

2W002-0003

Description

Prat No.	24KD-4	24KD-5
3m	4m	5m

Nozzles	Prat No.	
A	2W003-0033	Nozzle 10mm
	2W003-0034	Nozzle 12.5mm
	2W003-0035	Nozzle 17mm

Contact Tips	Prat No.	
B	2W003-0036	Contact Tip 0.8mm M6x28 Ecu
	2W003-0037	Contact Tip 1.0mm M6x28 Ecu
	2W003-0038	Contact Tip 1.2mm M6x28 Ecu
	2W003-0039	Contact Tip 0.8mm M6x28 CuCrZr
	2W003-0040	Contact Tip 1.0mm M6x28 CuCrZr
	2W003-0041	Contact Tip 1.2mm M6x28 CuCrZr

Components	Prat No.	
C	2W003-0042	Steel Liner 0.8-1.0mm x 3m
	2W003-0043	Steel Liner 1.0-1.2mm x 3m
	2W003-0044	Teflon Liner 0.8-1.0mm x 3m
	2W003-0045	Teflon Liner 1.0-1.2mm x 3m

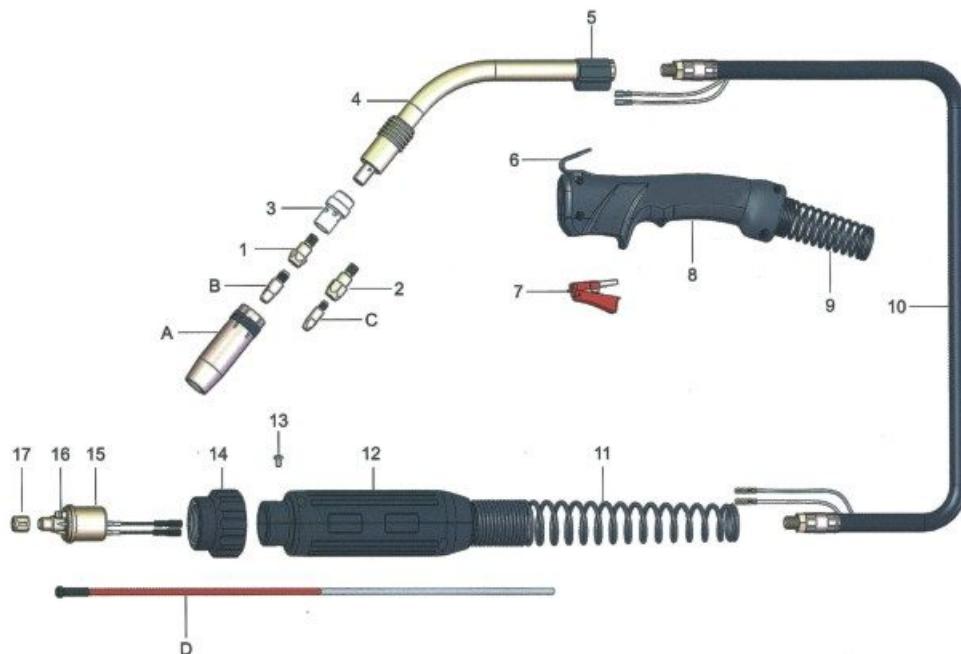
Description

Prat No.	25AK-4	25AK-5
3m	4m	5m

Nozzles	Prat No.	
A	2W003-0062	Nozzle 11.5mm
	2W003-0063	Nozzle 15mm
	2W003-0064	Nozzle 18mm
	2W003-0065	Tapered Nozzle 11mm
	2W003-0066	Tapered Nozzle 14mm

Contact Tips	Prat No.	
B	2W003-0067	Contact Tip 0.8mm M6x28 Ecu
	2W003-0068	Contact Tip 1.0mm M6x28 Ecu
	2W003-0069	Contact Tip 1.2mm M6x28 Ecu
	2W003-0070	Contact Tip 0.8mm M6x28 CuCrZr
	2W003-0071	Contact Tip 1.0mm M6x28 CuCrZr
	2W003-0072	Contact Tip 1.2mm M6x28 CuCrZr

Components	Prat No.	
C	2W003-0073	Steel Liner 0.8-1.0mm x 3M
	2W003-0074	Steel Liner 1.0-1.2mm x 3M
	2W003-0075	Teflon Liner 0.8-1.0mm x 3M
	2W003-0076	Teflon Liner 1.0-1.2mm x 3M

**36KD****Welding Gun c/w Euro Fitting**Rating: 340A CO₂ 300A mixed gas, 60% duty cycle.wires: 0.8-1.6mm**2W002-0004****Description**

Prat No.	36KD-4	36KD-5
3m	4m	5m

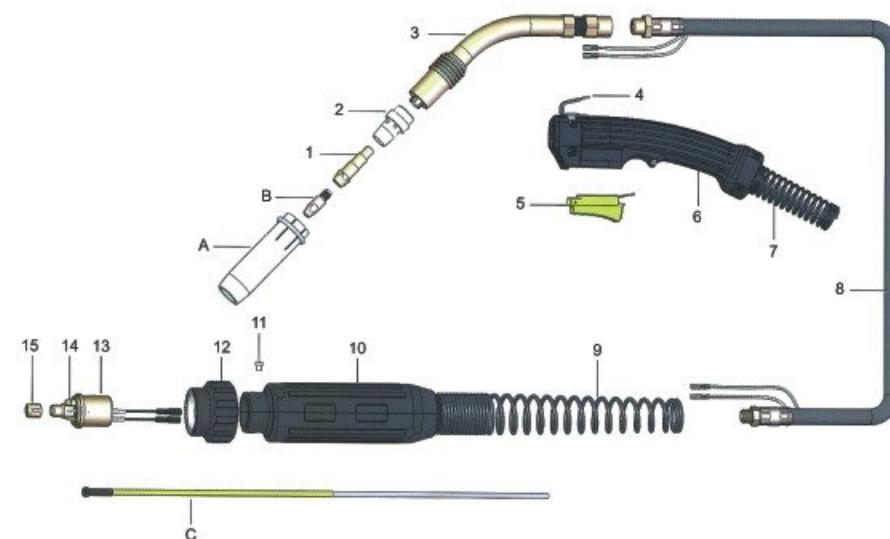
Nozzles	Prat No.	
A	2W003-0094	Nozzle 12mm
	2W003-0095	Nozzle 16mm
	2W003-0096	Tapered Nozzle 17mm
	2W003-0097	Nozzle 19mm

Contact Tips	Prat No.	
B	2W003-0098	Contact Tip 1.0mm M8x30 Ecu
	2W003-0099	Contact Tip 1.2mm M8x30 Ecu
	2W003-0101	Contact Tip 1.6mm M8x30 Ecu
	2W003-0102	Contact Tip 1.0mm M8x30 CuCrZr
	2W003-0103	Contact Tip 1.2mm M8x30 CuCrZr
	2W003-0104	Contact Tip 1.6mm M8x30 CuCrZr

C	Prat No.	
	2W003-0105	Contact Tip 0.8mm M6x28 Ecu
	2W003-0106	Contact Tip 1.0mm M6x28 Ecu
	2W003-0107	Contact Tip 1.2mm M6x28 Ecu
	2W003-0108	Contact Tip 0.8mm M6x28 CuCrZr
	2W003-0109	Contact Tip 1.0mm M6x28 CuCrZr
	2W003-0110	Contact Tip 1.2mm M6x28 CuCrZr

Components	Prat No.	
1	2W003-0111	ContactTip Socket M8 x 28
2	2W003-0112	ContactTip Socket M8 x 32
3	2W003-0113	ContactTip Socket M6 x 28
4	2W003-0114	ContactTip Socket M6 x 32
5	2W003-0115	Diffuser,Ceramic
6	2W003-0116	Gun Neck 50°
7	2W003-0117	Plastic Body
8	2W003-0118	Hanger Hook
9	2W003-0119	Trigger
10	2W003-0120	Handle
11	2W003-0121	Front Spring Cable Support
12	2W003-0122	Cable Assembly 3m
13	2W003-0123	Back Spring Cable Support
14	2W003-0124	Back Handle
15	2W003-0125	Screw M4 x 6
16	2W003-0126	Gun Plug Nut
17	2W003-0127	Euro Gun Plug

Components	Prat No.	
D	2W003-0130	Steel Liner 1.0-1.2mm x 3m
	2W003-0131	Steel Liner 1.2-1.6mm x 3m
	2W003-0132	Teflon Liner 1.0-1.2mm x 3m
	2W003-0133	Teflon Liner 1.2-1.6mm x 3m

**40KD****Welding Gun c/w Euro Fitting**Rating: 350A CO₂ 320A mixed gas, 35% duty cycle.wires: 1.0-2.4mm**2W002-0005****Description**

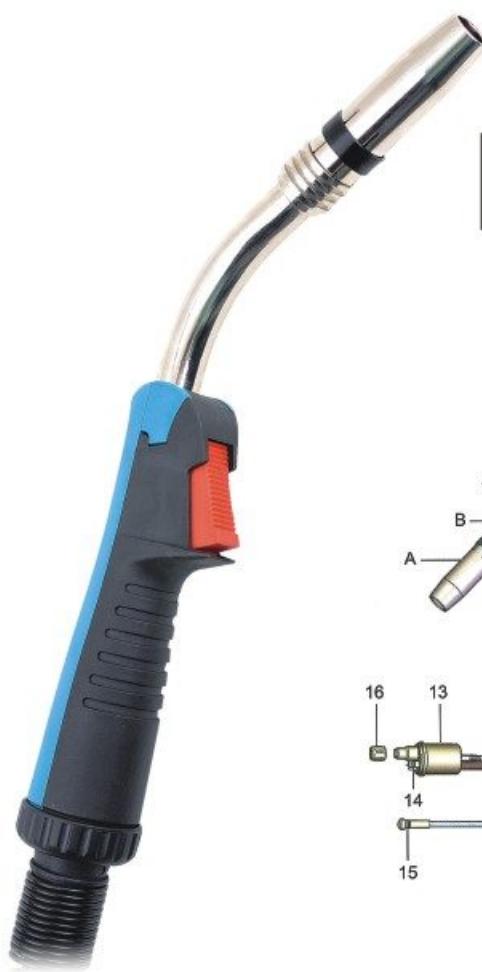
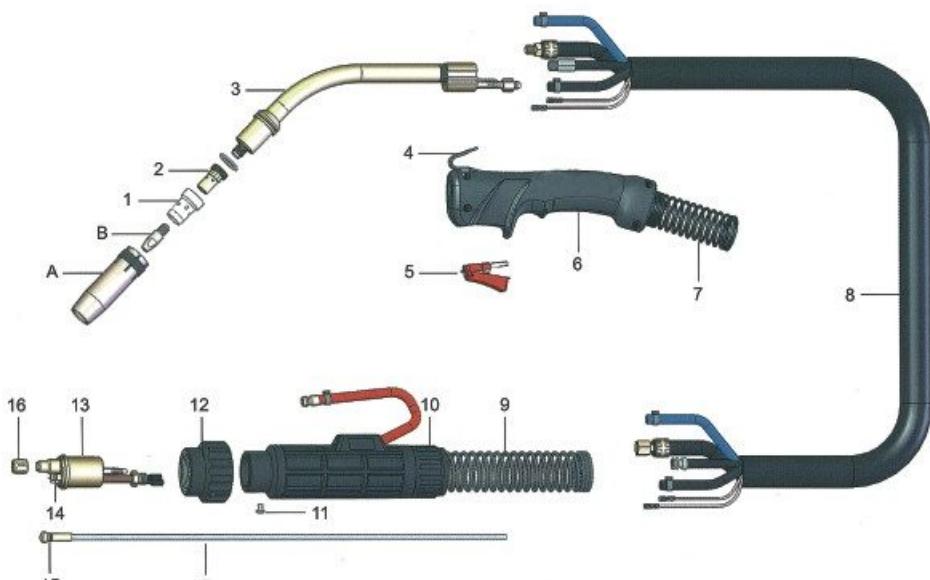
Prat No.	40KD-4	40KD-5
3m	4m	5m

Nozzles	Prat No.	
A	2W003-0134	Nozzle 14mm
	2W003-0135	Nozzle 18mm
	2W003-0136	Nozzle 21mm

Contact Tips	Prat No.	
B	2W003-0137	Contact Tip 1.0mm M8x30 Ecu
	2W003-0138	Contact Tip 1.2mm M8x30 Ecu
	2W003-0139	Contact Tip 1.6mm M8x30 Ecu
	2W003-0140	Contact Tip 1.0mm M8x30 CuCrZr
	2W003-0141	Contact Tip 1.2mm M8x30 CuCrZr
	2W003-0142	Contact Tip 1.6mm M8x30 CuCrZr

Contact Tips	Prat No.	
D	2W003-0143	Steel Liner 1.0-1.2mm x 3m
	2W003-0144	Steel Liner 1.2-1.6mm x 3m
	2W003-0145	Teflon Liner 1.0-1.2mm x 3m
	2W003-0146	Teflon Liner 1.2-1.6mm x 3m

Components	Prat No.	
1	2W003-0147	Contact Tip Socket M8 x 43
2	2W003-0148	Diffuser,Ceramic
3	2W003-0149	Gun Neck 45°
4	2W003-0150	Hanger Hook
5	2W003-0151	Trigger
6	2W003-0152	Handle
7	2W003-0153	Front Spring Cable Support
8	2W003-0154	Cable Assembly 3m
9	2W003-0155	Back Spring Cable Support
10	2W003-0156	Back Handle
11	2W003-0157	Screw M4 x 6
12	2W003-0158	Gun Plug Nut
13	2W003-0159	Euro Gun Plug
14	2W003-0160	O-Ring 4 x 1
15	2W003-0161	Nut M10 x 1

**501D****Welding Gun c/w Euro Fitting**Rating:500A CO₂ 450A mixed gas,100% duty cycle.wires:1.0-1.6mm**2W002-0006****Description**

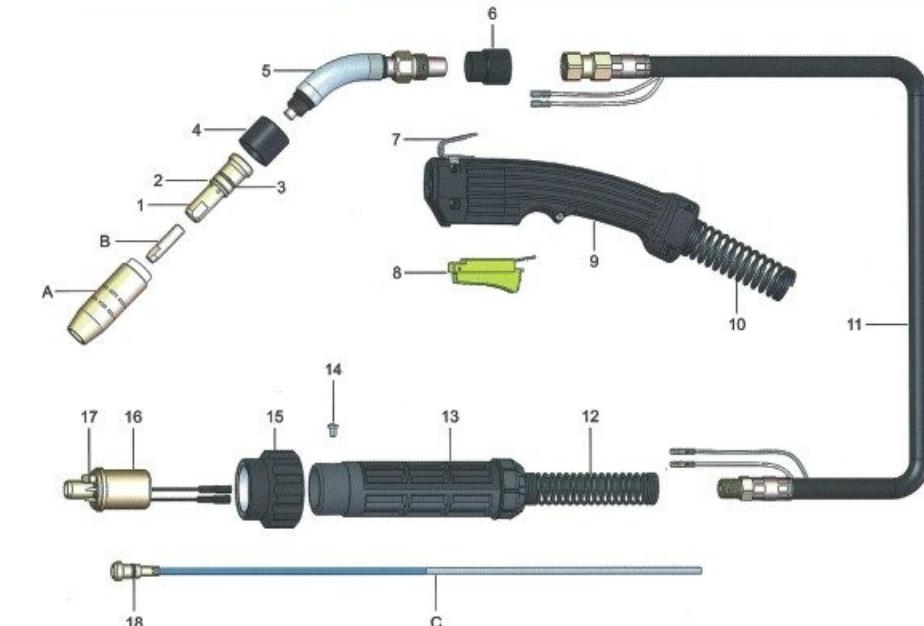
Prat No.	501D-4	501D-5
501D-3	3m	4m

Nozzles	Prat No.	
A	2W003-0162	Nozzle 14mm
	2W003-0163	Nozzle 16mm
	2W003-0164	Tapered Nozzle 15mm
	2W003-0165	Nozzle 20mm

Contact Tips	Prat No.	
B	2W003-0166	Ccontact Tip 1.0mm M8x30 Ecu
	2W003-0167	Contact Tip 1.2mm M8x30 Ecu
	2W003-0168	Contact Tip 1.6mm M8x30 Ecu
	2W003-0169	Contact Tip 1.0mm M8x30 CuCrZr
	2W003-0170	Contact Tip 1.2mm M8x30 CuCrZr
	2W003-0171	Contact Tip 1.6mm M8x30 CuCrZr

Contact Tips	Prat No.	
D	2W003-0172	Csteel Liner 1.2-1.6mm x 3m
	2W003-0173	Teflon Liner 1.2-1.6mm x 3m

Components	Prat No.	
1	2W003-0174	Diffuser
2	2W003-0175	ContactTip Socket(Standard)
3	2W003-0176	ContactTip Socket (Long)
4	2W003-0177	Gun Neck 45°,Euro Fitting
5	2W003-0178	Hanger Hook
6	2W003-0179	Trigger
7	2W003-0180	Handle
8	2W003-0181	Front Spring Cable Support
9	2W003-0182	Cable Assembly 3m
10	2W003-0183	Back Spring Cable Support
11	2W003-0184	Back Handle
12	2W003-0185	Screw M4 x 6
13	2W003-0183	Gun Plug Nut
14	2W003-0187	Euro Gun Plug,Water Cooling Style
15	2W003-0188	O-Ring 4 x 1
16	2W003-0189	O-Ring 3.5 x 1.5

**Bernard200****Welding Gun c/w Euro Fitting**Rating:200A CO₂ 150A mixed gas,60% duty cycle.wires:0.03"-0.045"**2W002-0007****Description**

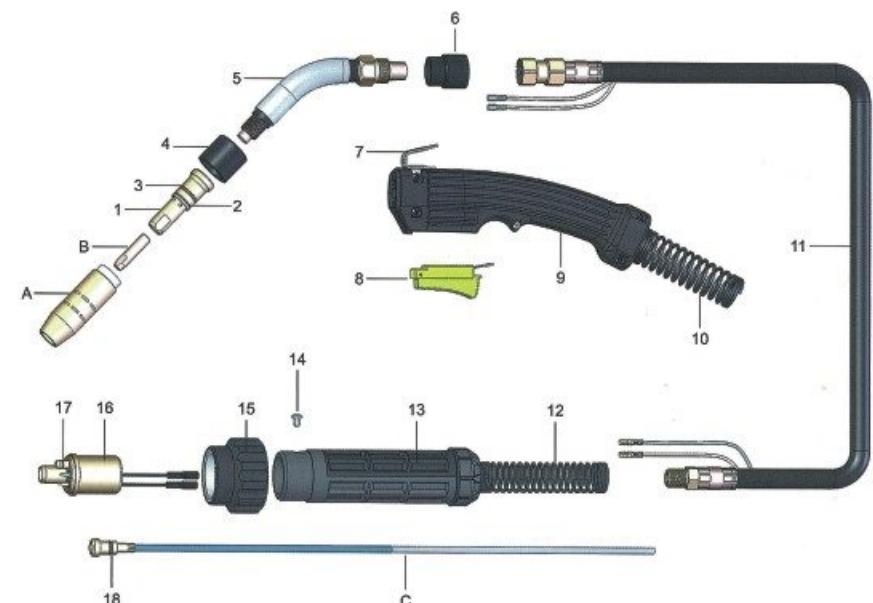
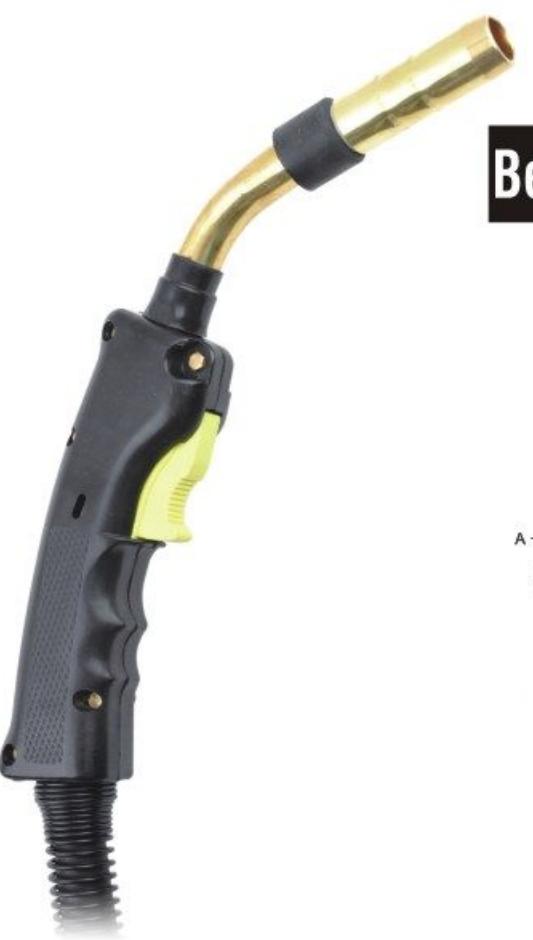
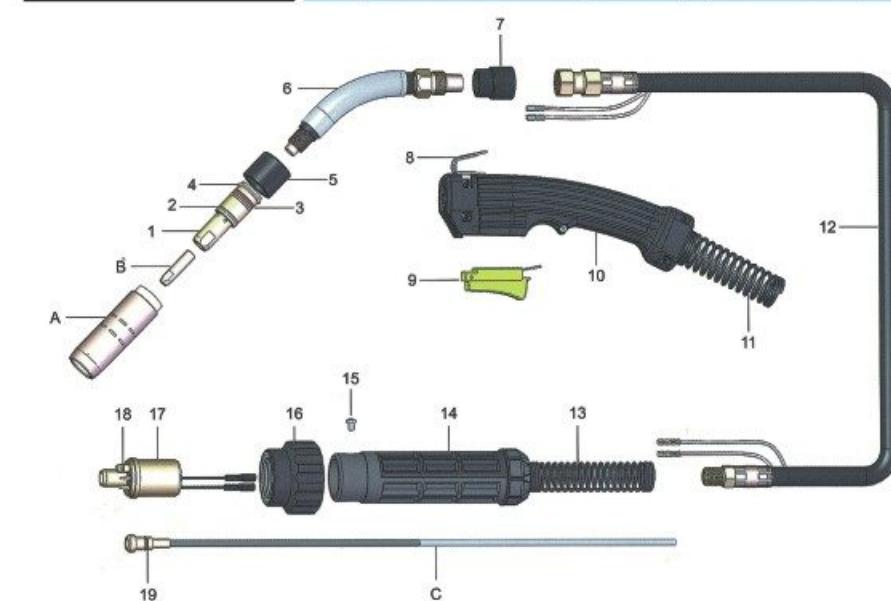
Prat No.	200-3	200-3.6	200-4.5
	10ft/3m	12ft/3.6m	15ft/4.5m

Nozzles	Prat No.	
A	4391	Brass Nozzle 5/8 "
	4392	Brass Nozzle 1/2 "
	4393	Copper Nozzle 5/8 "
	4394	Copper Nozzle 1/2 "

Contact Tips	Prat No.	
B	7488	Contact Tip 0.030 "/0.8mm Ecu
	7489	Contact Tip 0.035 "/0.9mm Ecu
	7496	Contact Tip 0.040 "/1.0mm Ecu
	7490	Contact Tip 0.045 "/1.2mm Ecu

C Liners

Prat No.	
2W003-0199	Steel Liner.035 "-.045 "/0.9-1.2mmx10ft/3m
2W003-0200	Steel Liner.035 "-.045 "/0.9-1.2mmx15ft/4.5m
2W003-0201	Teflon Liner.035 "-.045 "/0.9-1.2mmx10ft/3m
2W003-0202	Teflon Liner.035 "-.045 "/0.9-1.2mmx15ft/4.5m

**Bernard300****Welding Gun c/w Euro Fitting**Rating: 300A CO₂ 200A mixed gas, 60% duty cycle.wires: 0.03"-0.045"**2W002-0008****Bernard400****Welding Gun c/w Euro Fitting**Rating: 400A CO₂ 320A mixed gas, 60% duty cycle.wires: 0.03"-1/16"**2W002-0009****Description**

Prat No.	300-3	300-3.6	300-4.5
	10ft/3m	12ft/3.6m	15ft/4.5m

Nozzles	Prat No.	
A 4391	2W003-0223	Brass Nozzle 5/8 "
4392	2W003-0224	Brass Nozzle 1/2 "
4393	2W003-0225	Copper Nozzle 5/8 "
4394	2W003-0226	Copper Nozzle 1/2 "

Contact Tips	Prat No.	
B 7488	2W003-0227	Contact Tip 0.030 " / 0.8mm Ecu
7489	2W003-0228	Contact Tip 0.035 " / 0.9mm Ecu
7496	2W003-0229	Contact Tip 0.040 " / 1.0mm Ecu
7490	2W003-0230	Contact Tip 0.045 " / 1.2mm Ecu

Liners	C	
Prat No.		
2W003-0231	Steel Liner.035"-.045" / 0.9-1.2mmx10ft/3m	
2W003-0232	Steel Liner.035"-.045" / 0.9-1.2mmx15ft/4.5m	
2W003-0233	Teflon Liner.035"-.045" / 0.9-1.2mmx10ft/3m	
2W003-0234	Teflon Liner.035"-.045" / 0.9-1.2mmx15ft/4.5m	

Components	Prat No.	
1	2W003-0235	Gas Diffuser
2	2W003-0236	Circlip For 4335
3	2W003-0237	O-Ring 12.5 x 1.8
4	2W003-0238	Rubber Cap
5	2W003-0239	Gun Neck
6	2W003-0240	Insulating Nut
7	2W003-0241	Hanger Hook
8	2W003-0242	Trigger SwiTCH
9	2W003-0243	Handle
10	2W003-0244	Front Spring Cable Support
11	2W003-0245	Cable Assembly 10ft/3m
12	2W003-0246	Cable Assembly 12ft/3.6m
13	2W003-0247	Cable Assembly 15ft/4.5m
14	2W003-0248	Back Spring Cable Support
15	2W003-0249	Back Handle
16	2W003-0250	Screw M4 x 6
17	2W003-0251	Gun Plug Nut
18	2W003-0252	Bernard Euro Gun Plug

Description

Prat No.	400-3	400-3.6	400-4.5
	10ft/3m	12ft/3.6m	15ft/4.5m

Nozzles	Prat No.	
A 4491	2W003-0255	Brass Nozzle 3/4 "
4492	2W003-0256	Brass Nozzle 9/16 "
4591	2W003-0257	Copper Nozzle 3/4 "

Contact Tips	Prat No.	
B 7488	2W003-0258	Contact Tip 0.030 " / 0.8mm Ecu
7489	2W003-0259	Contact Tip 0.035 " / 0.9mm Ecu
7496	2W003-0260	Contact Tip 0.040 " / 1.0mm Ecu
7490	2W003-0261	Contact Tip 0.045 " / 1.2mm Ecu
7498	2W003-0262	Contact Tip 0.052 " / 1.4mm Ecu
7491	2W003-0263	Contact Tip 1/16 " / 1.6mm Ecu

Liners	C	
Prat No.		
2W003-0264	Steel Liner.035"-.045" / 0.9-1.2mmx10ft/3m	
2W003-0265	Steel Liner.035"-.045" / 0.9-1.2mmx15ft/4.5m	
2W003-0267	Teflon Liner.035"-.045" / 0.9-1.2mmx10ft/3m	
2W003-0268	Teflon Liner.035"-.045" / 0.9-1.2mmx15ft/4.5m	

Components	Prat No.	
1	2W003-0269	Gas Diffuser
2	2W003-0270	Circlip For 4335
3	2W003-0271	O-Ring 15.6 x 1.78
4	2W003-0272	Shap Ring For 4435
5	2W003-0273	Rubber Cap
6	2W003-0274	Gun Neck
7	2W003-0275	Insulating Nut
8	2W003-0276	Hanger Hook
9	2W003-0277	Trigger Switch
10	2W003-0278	Handle
11	2W003-0279	Front Spring Cable Support
12	2W003-0280	Cable Assembly 10ft/3m
13	2W003-0281	Cable Assembly 12ft/3.6m
14	2W003-0282	Cable Assembly 15ft/4.5m
15	2W003-0283	Back Spring Cable Support
16	2W003-0284	Back Handle
17	2W003-0285	Screw M4 x 6
18	2W003-0287	Bernard Euro Gun Plug
19	2W003-0288	O-Ring 4x1


MOD-1 Welding Gun
Rating: 180A CO₂ 125A mixed gas, 60% duty cycle.wires: 0.023"-0.045"**Tweco**

2W002-0010

Description

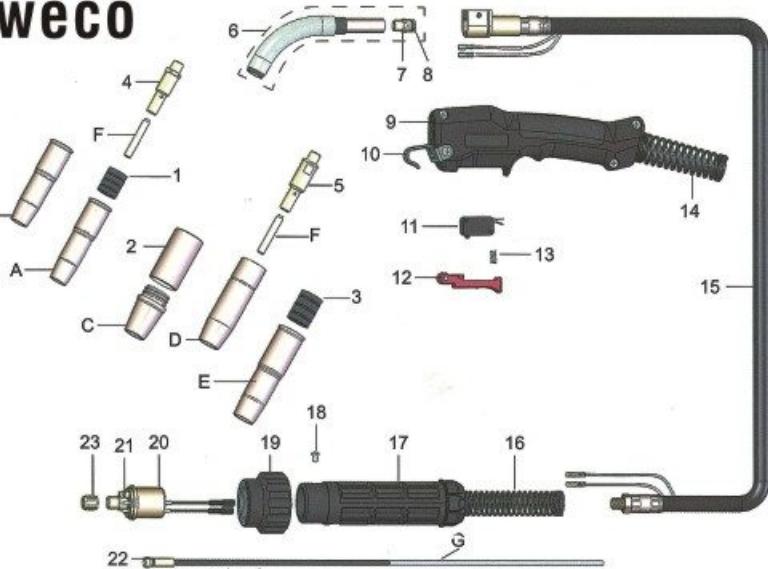
Prat No.	MOD1-4	MOD1-5
3m	4m	5m
Welding Gun c/w Euro Fitting		
Welding Gun c/w Tweco Fitting		
Welding Gun c/w Lincoln Fitting		
Welding Gun c/w Miller Fitting		

Nozzles	Prat No.	
A 21-37	2W003-0290	Nozzle Self Insulated
21-50	2W003-0291	Nozzle Self Insulated
21-62	2W003-0292	Nozzle Self Insulated
21-37F	2W003-0293	Nozzle Self Insulated
21-50F	2W003-0294	Nozzle Self Insulated
21-62F	2W003-0295	Nozzle Self Insulated
B LA8201	2W003-0296	Nozzle Self Shielding

Contact Tips	Prat No.	
C 11-23	2W003-0297	Contact Tip 0.023 "/0.6mm Ecu
11-30	2W003-0298	Contact Tip 0.030 "/0.8mm Ecu
11-35	2W003-0299	Contact Tip 0.035 "/0.9mm Ecu
11-40	2W003-0300	Contact Tip 0.040 "/1.0mm Ecu
11-45	2W003-0301	Contact Tip 0.045 "/1.2mm Ecu

Components	Prat No.	
1	2W003-0302	Gas Diffuser
2	2W003-0303	Conductor Tube 45°
2W003-0304		Conductor Tube 55°
3	2W003-0305	Locking Nut
4	2W003-0306	Handle
5	2W003-0307	Trigger
6	2W003-0308	Cable Assembly 3m
2W003-0309		Cable Assembly 4m
2W003-0310		Cable Assembly 5m
7	2W003-0311	Back Spring Cable Support
8	2W003-0312	Gun Plug Housing
9	2W003-0313	Screw M4 x 6
10	2W003-0314	Gun Plug Nut
11	2W003-0315	Tweco Euro Gun Plug
12	2W003-0316	O-Ring 4 x 1
13	2W003-0317	O-Ring 4x1.8
14	2W003-0318	Nut M11x1

Liners	D
Prat No.	
2W003-0319	Stee Liner 0.030 "-0.035/0.8-0.9mm x15ft
2W003-0320	Teflon Liner 0.030 "-0.035/0.8-0.9mm x15ft


MOD-2 Welding Gun
Rating: 200A CO₂ 150A mixed gas, 60% duty cycle.wires: 0.023"-0.045"**Tweco**

2W002-0011

Description

Prat No.	MOD2-3	MOD2-4	MOD2-5
	3m	4m	5m

Nozzles	Prat No.	
A 22-50	2W003-0321	Nozzle Adjustable
22-62	2W003-0322	Nozzle Adjustable
B 22-50F	2W003-0323	Nozzle Self Insulated
C 24CT50S	2W003-0324	Nozzle Fixed Coarse Thread
24CT62S	2W003-0325	Nozzle Fixed Coarse Thread
24CT75S	2W003-0326	Nozzle Fixed Coarse Thread
D 23-50	2W003-0327	Nozzle Self Insulated
23-62	2W003-0328	Nozzle Self Insulated
23-75	2W003-0329	Nozzle Self Insulated
E 24A50	2W003-0330	Nozzle Adjustable
24A62	2W003-0331	Nozzle Adjustable
24A75	2W003-0332	Nozzle Adjustable

Contact Tips	Prat No.	
F 14-23	2W003-0333	Contact Tip 0.023 "/0.6mm Ecu
14-30	2W003-0334	Contact Tip 0.030 "/0.8mm Ecu
14-35	2W003-0335	Contact Tip 0.035 "/0.9mm Ecu
14-40	2W003-0336	Contact Tip 0.040 "/1.0mm Ecu
14-45	2W003-0337	Contact Tip 0.045 "/1.2mm Ecu
14H-35	2W003-0338	Contact Tip 0.035 "/0.9mm Ecu HD
14H-40	2W003-0339	Contact Tip 0.040 "/1.0mm Ecu HD
14H-45	2W003-0340	Contact Tip 0.045 "/1.2mm Ecu HD

Components	Prat No.	
1	2W003-0344	Adjustable Nozzle Insulator
2	2W003-0345	Nozzle Insulator Coarse Thread
3	2W003-0346	Adjustable Nozzle Insulator
4	2W003-0347	Gas Diffuser
5	2W003-0348	Gas Diffuser
6	2W003-0349	Jacketed Conductor Tube 45°
2W003-0350		Jacketed Conductor Tube 60°
2W003-0351		Conductor Tube 45°
2W003-0352		Conductor Tube 60°
7	2W003-0353	Gas Nipple
8	2W003-0354	O-Ring 88x1.5
9	2W003-0355	Handle
10	2W003-0356	Hanger Hook
11	2W003-0357	Switch OMRON
12	2W003-0358	Trigger
13	2W003-0359	Trigger Spring
14	2W003-0360	Front Spring Cable Support
15	2W003-0361	Cable Assembly 3m
2W003-0362		Cable Assembly 4m
2W003-0363		Cable Assembly 5m
16	2W003-0364	Back Spring Cable Support
17	2W003-0365	Gun Plug Housing
18	2W003-0366	Screw M4 x 6
19	2W003-0367	Gun Plug Nut
20	2W003-0368	Tweco Euro Gun Plug
21	2W003-0369	O-Ring 4 x 1
22	2W003-0370	O-Ring 4x1.8
23	2W003-0371	Nut M11x1



MOD-4 Welding Gun

Rating: 400A CO₂ 350A mixed gas, 60% duty cycle.wires: 0.030"-5/64"

Tweco

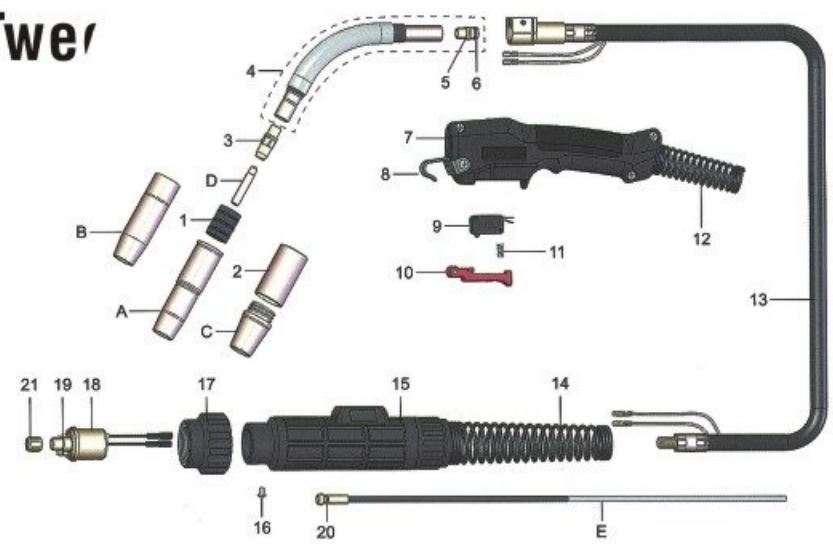
2W002-0012

Description

Prat No.	MOD4-3	MOD4-4	MOD4-5
3m	4m	5m	
Welding Gun c/w Euro Fitting			
Welding Gun c/w Tweco Fitting			
Welding Gun c/w Lincoln Fitting			
Welding Gun c/w Miller Fitting			

Nozzles	Prat No.	
A 24A50	2W003-0372	Nozzle Adjustable
24A62	2W003-0373	Nozzle Adjustable
24A75	2W003-0374	Nozzle Adjustable
24AH50	2W003-0375	Nozzle Heavy Duty
24AH62	2W003-0376	Nozzle Heavy Duty
24AH75	2W003-0377	Nozzle Heavy Duty
B 23-50	2W003-0378	Nozzle Self Insulated
23-62	2W003-0379	Nozzle Self Insulated
23-75	2W003-0380	Nozzle Self Insulated
C 24CT50S	2W003-0381	Nozzle Fixed Coarse Thread
24CT62S	2W003-0382	Nozzle Fixed Coarse Thread
24CT75S	2W003-0383	Nozzle Fixed Coarse Thread

Contact Tips	Prat No.	
D 14-35	2W003-0384	Contact Tip 0.023 " /0.9mm Ecu
14-45	2W003-0385	Contact Tip 0.045 " /1.2mm Ecu
14-52	2W003-0386	Contact Tip 0.052 " /1.3mm Ecu
14-116	2W003-0387	Contact Tip 1/16 " /1.6mm Ecu
14H-35	2W003-0388	Contact Tip 0.035 " /0.9mm Ecu HD
14H-40	2W003-0389	Contact Tip 0.040 " /1.0mm Ecu HD
14H-45	2W003-0390	Contact Tip 0.045 " /1.2mm Ecu HD
14H-52	2W003-0391	Contact Tip 0.052 " /1.3mm Ecu HD
14H-116	2W003-0392	Contact Tip 1/16 " /1.6mm Ecu HD
14H-564	2W003-0393	Contact Tip 5/64 " /2.0mm Ecu HD



MOD-5 Welding Gun

Rating: 500A CO₂ 400A mixed gas, 60% duty cycle.wires: 0.035"-3/32"

Tweco

2W002-0013

Description

Prat No.	MOD5-3	MOD5-4	MOD5-5
3m	4m	5m	
Welding Gun c/w Euro Fitting			
Welding Gun c/w Tweco Fitting			
Welding Gun c/w Lincoln Fitting			
Welding Gun c/w Miller Fitting			

Contact Tips	Prat No.	
B 15H-45	2W003-0425	Contact Tip 0.045 " /1.2mm Ecu
15H-52	2W003-0426	Contact Tip 0.052 " /1.3mm Ecu
15H-116	2W003-0427	Contact Tip 1/16 " /1.6mm Ecu
15H-564	2W003-0428	Contact Tip 0.080 " /2.0mm Ecu
15H-332	2W003-0429	Contact Tip 0.090 " /2.4mm Ecu
15HFC-45	2W003-0430	Contact Tip 0.045 " /1.2mm Ecu F/Cored
15HFC-116	2W003-0431	Contact Tip 1/16 " /1.6mm Ecu F/Cored
15HFC-564	2W003-0432	Contact Tip 5/64 " /2.0mm Ecu F/Cored
15HFC-332	2W003-0433	Contact Tip 3/32 " /2.4mm Ecu F/Cored

Liners C	Prat No.	
2W003-0434	Stee Liner 0.035 " -0.045/0.9-1.2mm x15ft Euro End	
2W003-0435	Stee Liner 1/16/1.6mm x15ft Euro End	
2W003-0436	Stee Liner 5/54/2.0mm x15ft Euro End	
2W003-0437	Teflon Liner 0.035 " -0.045/0.9-1.2mm x15ft Euro End	
2W003-0438	Teflon Liner 1/16/1.6mm x15ft Euro End	
2W003-0439	Stee Liner 0.035 " -0.045/0.9-1.2mm x15ft Tweco End	
2W003-0440	Stee Liner 1/16/1.6mm x15ft Tweco End	
2W003-0441	Stee Liner 5/64/2.0mm x15ft Tweco End	
2W003-0442	Stee Liner 3/32/2.4mm x15ft Tweco End	

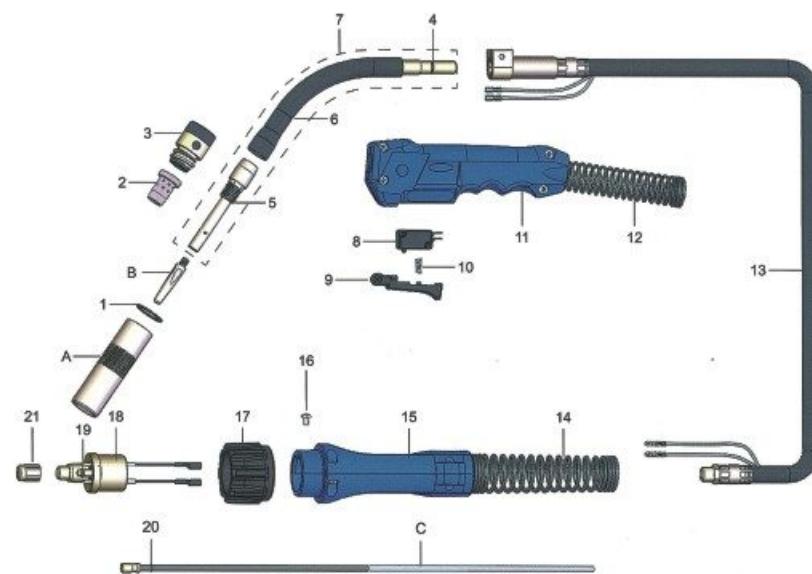
Nozzles	Prat No.	
A 25CT-50	2W003-0468	Nozzle Fixed Coarse Thread
25CT-62	2W003-0469	Nozzle Fixed Coarse Thread
25CT-75	2W003-0470	Nozzle Fixed Coarse Thread



500A
OTC

Welding Gun

Rating: 500A CO₂ 420A mixed gas, 60% duty cycle, wires: 1.2-1.6mm



2W002-0014

Description

Prat No.	500A-3	500A-4	500A-5
	3m	4m	5m

Nozzles	Prat No.
A	2W003-0471

Nozzle 19mm

Contact Tips	Prat No.
B	2W003-0472
	2W003-0473
	2W003-0474
	2W003-0475
	2W003-0476
	2W003-0477

Contact Tip 1.2mm M6 Ecu
Contact Tip 1.4mm M6 Ecu
Contact Tip 1.6mm M6 Ecu
Contact Tip 1.2mm M6 CuCrZr
Contact Tip 1.4mm M6 CuCrZr
Contact Tip 1.6mm M6 CuCrZr

Components	Prat No.
c	2W003-0478
	2W003-0479
	2W003-0480

Steel Liner 1.0-1.2mm x 3m
Steel Liner 1.2-1.6mm x 3m
Teflon Liner 1.2-1.6mm x 3M

2W002-0015

Description

Prat No.	350A-3	350A-4	350A-5
	3m	4m	5m

Nozzles	Prat No.	Nozzle 16mm
A	2W003-0504	

Contact Tips	Prat No.
B	2W003-0505
	2W003-0506
	2W003-0507
	2W003-0508
	2W003-0509
	2W003-0510

Components	Prat No.
C	2W003-0511
	2W003-0512
	2W003-0513

350A

Welding Gun

Rating: 350A CO₂ 300A mixed gas, 60% duty cycle, wires: 1.0-1.4mm

OTC

Components	Prat No.	
1	2W003-0514	Gasket
2	2W003-0515	Diffuser
3	2W003-0516	Insulator
4	2W003-0517	Insulator
5	2W003-0518	O-Ring 8*1.5
6	2W003-0519	Front Gun Tube
7	2W003-0520	Conductor tube 55
8	2W003-0521	Gun Neck 55
9	2W003-0522	Switch OMRON
10	2W003-0523	Switch
11	2W003-0524	Trigger
12	2W003-0525	Trigger spring
13	2W003-0526	Handle
14	2W003-0527	Front Spring Cable Support
15	2W003-0528	Cable Assembly 3m
16	2W003-0529	Back Spring Cable Support
17	2W003-0530	Back Handle
18	2W003-0531	screw m4*6
19	2W003-0532	otc gun plug
20	2W003-0533	gun plug nut
21	2W003-0534	o-ring 3.15*1.8
	2W003-0535	o-ring 4*1.8
	2W003-0536	nut

OTC 200A

Welding Gun

Rating: 200A CO₂ 180A mixed gas, 60% duty cycle, wires: 0.8-1.2mm

2W002-0016

Description

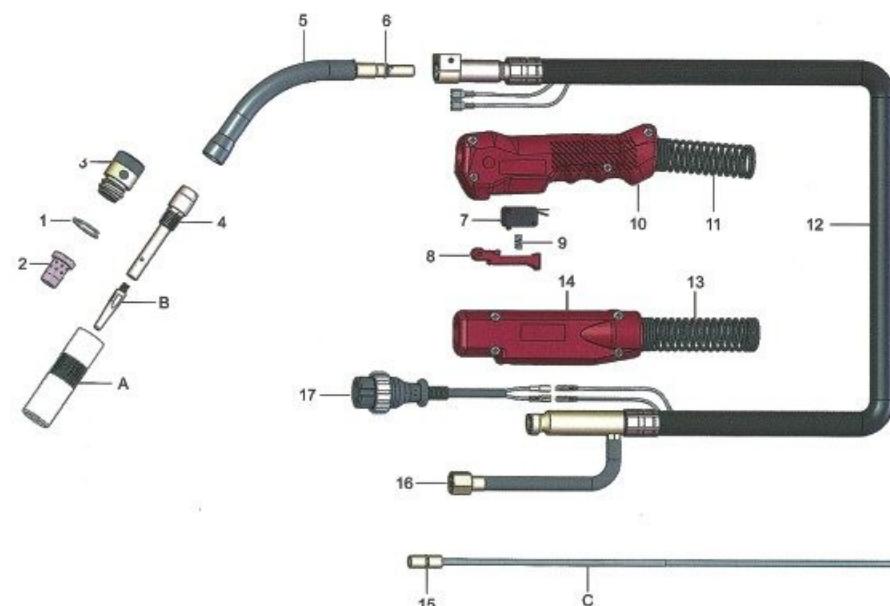
Prat No.	200A-3	200A-4	200A-5
	3m	4m	5m

Nozzles	Prat No.	Nozzle 13mm
A	2W003-0537	

Contact Tips	Prat No.
B	2W003-0538
	2W003-0539
	2W003-0540
	2W003-0541
	2W003-0542
	2W003-0543

Components	Prat No.
c	2W003-0544
	2W003-0545

Components	Prat No.	
1	2W003-0546	Gun Neck 45
2	2W003-0547	Gun Neck 180
3	2W003-0548	O-Ring 8*1.5
4	2W003-0549	Switch
5	2W003-0550	Trigger spring
6	2W003-0551	Handle
7	2W003-0552	Front Spring Cable Support
8	2W003-0553	Cable Assembly 3m
9	2W003-0554	Back Handle
10	2W003-0555	screw m4*6
11	2W003-0557	o-ring 3.15*1.8
12	2W003-0558	o-ring 4*1.8
13	2W003-0559	nut

**PA500****Welding Gun c/w Euro Fitting**Rating: 500A CO₂ 420A mixed gas, 60 % duty cycle.wires: 1.2-1.6mm

2W002-0017

Description

Prat No.	500A-3	500A-4	500A-5
	3m	4m	5m

Nozzles	Prat No.	
A	2W003-0560	Nozzle 19mm
	2W003-0561	Nozzle 14mm

Contact Tips	Prat No.	
B	2W003-0562	Contact Tip 1.2mm M6 Ecu
	2W003-0563	Contact Tip 1.4mm M6 Ecu
	2W003-0564	Contact Tip 1.6mm M6 Ecu
	2W003-0565	Contact Tip 1.2mm M6 CuCrZr
	2W003-0566	Contact Tip 1.4mm M6 CuCrZr
	2W003-0567	Contact Tip 1.6mm M6 CuCrZr

Components	Prat No.	
c	2W003-0568	Steel Liner 1.0-1.2mm x 3m
	2W003-0569	Steel Liner 1.2-1.6mm x 3m
	2W003-0570	Teflon Liner 1.2-1.6mm x 3M

2W002-0017

Description

Prat No.	200A-3	200A-4	200A-5
	3m	4m	5m

Nozzles	Prat No.	
A	2W003-0589	Nozzle 13mm

Contact Tips	Prat No.	
B	2W003-0590	Contact Tip 0.8mm M6 Ecu
	2W003-0591	Contact Tip 1.0mm M6 Ecu
	2W003-0592	Contact Tip 1.2mm M6 Ecu
	2W003-0593	Contact Tip 0.8mm M6 CuCrZr
	2W003-0594	Contact Tip 1.0mm M6 CuCrZr
	2W003-0595	Contact Tip 1.2mm M6 CuCrZr

2W002-0018

Description

Prat No.	350A-3	350A-4	350A-5
	3m	4m	5m

Nozzles	Prat No.	
A	2W003-0612	Nozzle 16mm
		Nozzle 11mm

Contact Tips	Prat No.	
B	2W003-0613	Contact Tip 0.8mm M6 Ecu
	2W003-0614	Contact Tip 1.0mm M6 Ecu
	2W003-0615	Contact Tip 1.2mm M6 Ecu
	2W003-0616	Contact Tip 0.8mm M6 CuCrZr
	2W003-0617	Contact Tip 1.0mm M6 CuCrZr
	2W003-0618	Contact Tip 1.2mm M6 CuCrZr

Components	Prat No.	
c	2W003-0619	Steel Liner 1.2-1.6mm x 3m
	2W003-0620	Steel Liner 1.6-2.0mm x 3m
	2W003-0621	Teflon Liner 1.2-1.6mm x 3m

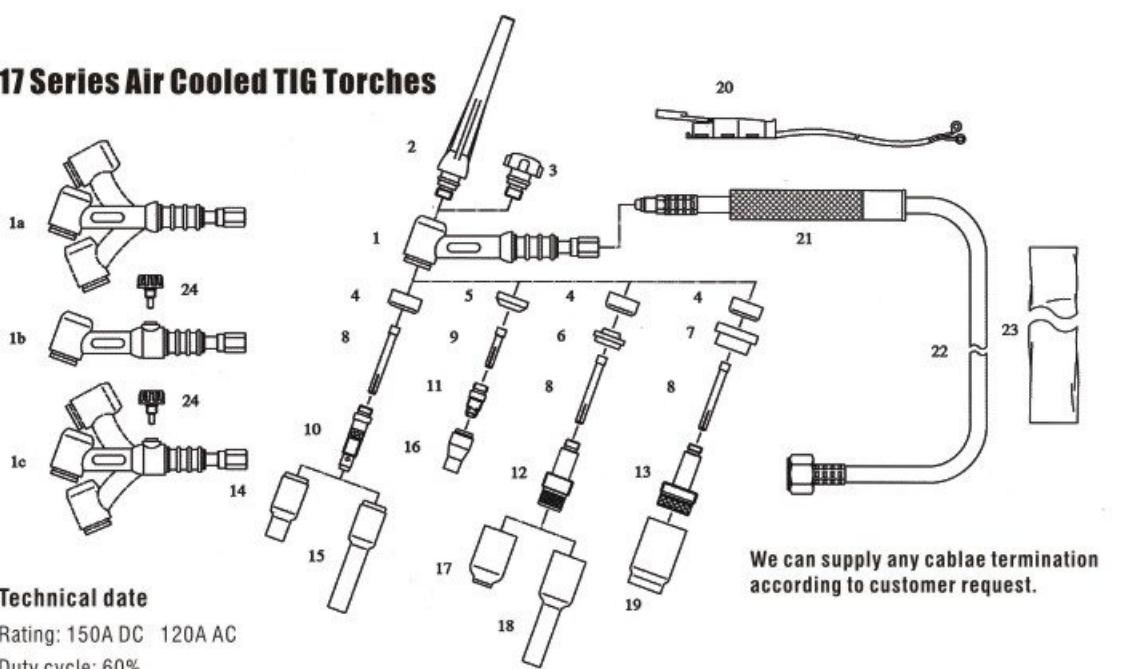
PA200**Welding Gun c/w Euro Fitting**Rating: 200A CO₂, 180A mixed gas, 60 % duty cycle.wires: 0.8-1.2mm

Components	Prat No.	
1	2W003-0596	Gun Neck 45°
	2W003-0597	Gun Neck 180°
2	2W003-0598	O-Ring 8x1.5
3	2W003-0599	Switch
4	2W003-0600	Trigger
5	2W003-0601	Trigger spring
6	2W003-0602	Handle
7	2W003-0603	Front Spring Cable Support
8	2W003-0604	Cable Assembly 3m
9	2W003-0605	Rear Cable Support
10	2W003-0606	Back Handle
11	2W003-0607	O-Ring 8x1.5
12	2W003-0608	Gas Hose Assembly
13	2W003-0609	Control Cable Assy c/w plug

Components	Prat No.	
C	2W003-0610	Steel Liner 0.8-1.0mm x 3m
	2W003-0611	Teflon Liner 0.8-1.0mm x 3m

PA350**Welding Gun c/w Euro Fitting**Rating: 350A CO₂, 300A mixed gas, 60 % duty cycle.wires: 1.0-1.4mm

Components	Prat No.	
1	2W003-0622	Gasket
2	2W003-0623	diffuser
3	2W003-0624	Insulator
4	2W003-0625	Gun Neck 55°
	2W003-0626	Gun Neck 180°
5	2W003-0627	O-Ring 8x1.5
6	2W003-0628	Front Gun Tube
7	2W003-0629	conductor tube 55°
8	2W003-0630	gun neck assembly 55°
9	2W003-0631	Switch Omron
	2W003-0632	Switch
10	2W003-0633	Trigger
11	2W003-0634	Trigger spring
12	2W003-0635	Handle
13	2W003-0636	Front Spring Cable Support
14	2W003-0637	Cable Assembly 3m
15	2W003-0638	Back Spring Cable Support
16	2W003-0639	Back Handle
17	2W003-0640	O-ring 6.3x1.8
18	2W003-0641	Gas HOSE ASSEMBLY
19	2W003-0642	Control Cable Assy C/W PLUG

17 Series Air Cooled TIG Torches**Technical data**

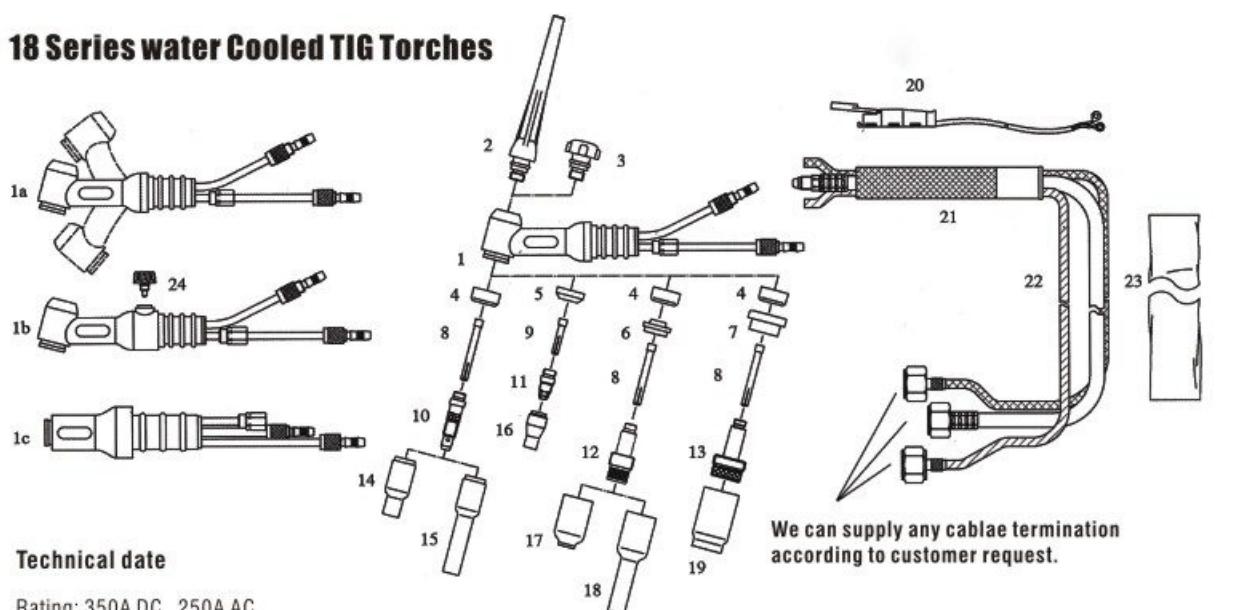
Rating: 150A DC 120A AC

Duty cycle: 60%

Wire size: 0.5~2.1mm

No.	Description	Part No.	Standard No.
	WWP-17 Torch (Gas and Cable Whole)	WP-17-1(4M)	
	WP-17 Torch (Gas and Cable Whole)	WP-17-1(8M)	
	WP-17 Torch (Gas and Cable Separate)	WP-17-1(4M)	
	WP-17 Torch (Gas and Cable Separate)	WP-17-1(8M)	
1	Torch Body	WP-17	
1a	Torch Body(Flexible)	WP-17F	
1b	Torch Body(Valve)	WP-17V	
1C	Torch Body(Flexible and Valve)	WP-17FV	
2	Long Back Cap	57Y02	
3	Short Back Cap	57Y04	
4	Gasket	18CG	
5	Stubby Gasket	18CG-20	
6	Gas Lens Insulator	54N01	
7	Large Dia Gas Lens Insulator	54N63	
8	Collet	10N21,0.5mm	
8	Collet	10N22,1.0mm	
8	Collet	10N23,1.6mm	
8	Collet	10N23M,2.0mm	
8	Collet	10N24,2.4mm	
9	Stubby Collet	10N21S,0.5mm	
9	Stubby Collet	10N22S,1.0mm	
9	Stubby Collet	10N23S,1.6mm	
9	Stubby Collet	10NS,2.0mm	
9	Stubby Collet	10N24S,2.4mm	
10	Collet Body	10N29,0.5mm	
10	OCollet Body	10N30,1.0mm	
10	OCollet Body	10N31,1.6mm	
10	OCollet Body	10N32,2.4mm	

No.	Description	Part No.	Standard No.
11	Stubby Collet Body		17CB20,A11Size
12	Gas Lens		45V29,0.5mm
12	Gas Lens		45V24,1.0mm
12	Gas Lens		45V25,1.6mm
12	Gas Lens		45V26,2.4mm
13	Large Long Gas Lens		45V116,1.6mm
13	Large Long Gas Lens		45V64,2.4mm
14	Ceramic Nozzle		10N50,6mm
14	Ceramic Nozzle		10N49,8mm
14	Ceramic Nozzle		10N48,10mm
14	Ceramic Nozzle		10N47,11mm
14	Ceramic Nozzle		10N46,13mm
14	Ceramic Nozzle		10N45,16mm
14	Ceramic Nozzle		10N44,19mm
15	Extra Length Ceramic Nozzle		10N49L,8mm
15	Extra Length Ceramic Nozzle		10N48L,10mm
15	Extra Length Ceramic Nozzle		10N47L,11mm
16	Stubby Ceramic Nozzle		13N08,6mm
16	Stubby Ceramic Nozzle		13N09,8mm
16	Stubby Ceramic Nozzle		13N10,10mm
16	Stubby Ceramic Nozzle		13N11,11mm
16	Stubby Ceramic Nozzle		13N12,13mm
16	Stubby Ceramic Nozzle		13N13,16mm
16	Stubby Ceramic Nozzle		13N08,6mm
15	Ceramic Nozzle		54N18,6mm
15	Ceramic Nozzle		54N17,8mm
15	Ceramic Nozzle		54N16,10mm
15	Ceramic Nozzle		54N15,11mm
15	Ceramic Nozzle		54N14,13mm
15	Ceramic Nozzle		54N19,17mm
18	Extra Long Lava Nozzle		54N17L,8mm
18	Extra Long Lava Nozzle		54N16L,10mm
18	Extra Long Lava Nozzle		54N15L,11mm
19	Extra Dia.Ceramic Nozzle		57N75,10mm
19	Extra Dia.Ceramic Nozzle		57N74,13mm
19	Extra Dia.Ceramic Nozzle		57N88,16mm
19	Extra Dia.Ceramic Nozzle		57N87,19mm
20	Switch(with wire)		
21	Handle		105Z55
22	Cable Assembly		
23	Cable Assembly Cover		
24	Valve Stem		

18 Series water Cooled TIG Torches**Technical date**

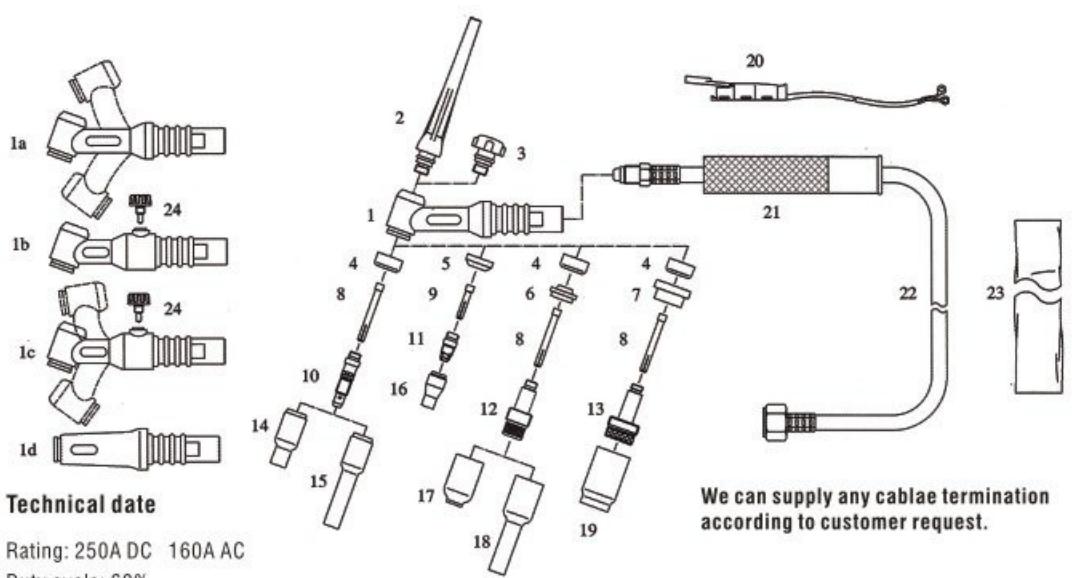
Rating: 350A DC 250A AC

Duty cycle: 100%

Electrodes size: 0.5~4.0mm

No.	Description	Part No.	Standard No.
	WP-18 Torch (Gas and Cable Whole)	2W004-0001	WP-18(4M)
	WP-18Torch (Gas and Cable Whole)	2W004-0002	WP-18(8M)
1	Torch Body	2W005-0001	WP-18
1a	Torch Body(Flexible)	2W005-0002	WP-18F
1b	Torch Body(Valve)	2W005-0003	WP-18V
1C	Torch Body(Pencil)	2W005-0004	WP-18P
2	Long Back Cap	2W005-0005	57Y02
3	Short Back Cap	2W005-0006	57Y04
4	Gasket	2W005-0007	18CG
5	Stubby Gasket	2W005-0008	18CG-20
6	Gas Lens Insulator	2W005-0009	54N01
7	Large Dia Gas Lens Insulator	2W005-0010	54N63
8	Collet	2W005-0011	10N21,0.5mm
8	Collet	2W005-0012	10N22,1.0mm
8	Collet	2W005-0013	10N23,1.6mm
8	Collet	2W005-0014	10N23M,2.0mm
8	Collet	2W005-0015	10N24,2.4mm
8	Collet	2W005-0016	10N25,3.2mm
9	Stubby Collet	2W005-0017	10N21S,0.5mm
9	Stubby Collet	2W005-0018	10N22S,1.0mm
9	Stubby Collet	2W005-0019	10N23S,1.6mm
9	Stubby Collet	2W005-0020	10NS,2.0mm
9	Stubby Collet	2W005-0021	10N24S,2.4mm
9	Stubby Collet	2W005-0022	10N25S,3.2mm
10	Collet Body	2W005-0023	10N29,0.5mm
10	Collet Body	2W005-0024	10N30,1.0mm
10	Collet Body	2W005-0025	10N31,1.6mm
10	Collet Body	2W005-0026	10N32,2.4mm

No.	Description	Part No.	Standard No.
10	Collet Body	2W005-0027	10N28,3.2mm
11	Stubby Collet Body	2W005-0028	17CB20,A11Size
12	small Gas Lens	2W005-0029	45V29,0.5mm
12	small Gas Lens	2W005-0030	45V24,1.0mm
12	small Gas Lens	2W005-0031	45V25,1.6mm
12	small Gas Lens	2W005-0032	45V26,2.4mm
12	small Gas Lens	2W005-0033	45V27,3.2mm
13	Large Long Gas Lens	2W005-0034	45V116,1.6mm
13	Large Long Gas Lens	2W005-0035	45V64,2.4mm
13	Large Long Gas Lens	2W005-0036	4995795,3.2mm
13	Large Long Gas Lens	2W005-0037	45V63,4.0mm
14	Ceramic Nozzle	2W005-0038	10N50,6mm
14	Ceramic Nozzle	2W005-0039	10N49,8mm
14	Ceramic Nozzle	2W005-0040	10N48,10mm
14	Ceramic Nozzle	2W005-0041	10N47,11mm
14	Ceramic Nozzle	2W005-0042	10N46,13mm
14	Ceramic Nozzle	2W005-0043	10N45,16mm
14	Ceramic Nozzle	2W005-0044	10N44,19mm
15	Extra Length Ceramic Nozzle	2W005-0045	10N49L,8mm
15	Extra Length Ceramic Nozzle	2W005-0046	10N48L,10mm
15	Extra Length Ceramic Nozzle	2W005-0047	10N47L,11mm
16	Stubby Ceramic Nozzle	2W005-0048	13N08,6mm
16	Stubby Ceramic Nozzle	2W005-0049	13N09,8mm
16	Stubby Ceramic Nozzle	2W005-0050	13N10,10mm
16	Stubby Ceramic Nozzle	2W005-0051	13N11,11mm
16	Stubby Ceramic Nozzle	2W005-0052	13N12,13mm
16	Stubby Ceramic Nozzle	2W005-0053	13N13,16mm
17	Ceramic Nozzle	2W005-0054	54N18,6mm
17	Ceramic Nozzle	2W005-0055	54N17,8mm
17	Ceramic Nozzle	2W005-0056	54N16,10mm
17	Ceramic Nozzle	2W005-0057	54N15,11mm
17	Ceramic Nozzle	2W005-0058	54N14,13mm
17	Ceramic Nozzle	2W005-0059	54N19,17mm
18	Extra Long Lava Nozzle	2W005-0060	54N17L,8mm
18	Extra Long Lava Nozzle	2W005-0061	54N16L,10mm
18	Extra Long Lava Nozzle	2W005-0062	54N15L,11mm
19	Extra Dia.Ceramic Nozzle	2W005-0063	57N75,10mm
19	Extra Dia.Ceramic Nozzle	2W005-0064	57N74,13mm
19	Extra Dia.Ceramic Nozzle	2W005-0065	57N88,16mm
19	Extra Dia.Ceramic Nozzle	2W005-0066	57N87,19mm
20	Switch(with wire)	2W005-0067	
21	Handle	2W005-0068	105Z55
22	Cable Assembly	2W005-0069	
23	Cable Assembly Cover	2W005-0070	
24	Valve Stem	2W005-0071	

**Technical data**

Rating: 250A DC 160A AC

Duty cycle: 60%

Wire size: 0.5-3.2mm

No.	Description	Part No.	Standard No.
	WP-26Torch (Gas and Cable Whole)	2W004-0003	WP-26-1(4M)
	WP-26 Torch (Gas and Cable Whole)	2W004-0004	WP-26-2(8M)
	WP-26 Torch (Gas and Cable Separate)	2W004-0005	WP-26-2(4M)
	WP-26 Torch (Gas and Cable Separate)	2W004-0006	WP-26-2(8M)
1	Torch Body	2W005-0072	WP-26
1a	Torch Body(Flexible)	2W005-0073	WP-26F
1b	Torch Body(Valve)	2W005-0074	WP-26V
1C	Torch Body(Flexible and Valve)	2W005-0075	WP-26FV
1D	Torch Body (Pencil)	2W005-0076	WP-26P
2	Long Back Cap	2W005-0077	57Y02
3	Short Back Cap	2W005-0078	57Y04
4	Gasket	2W005-0079	18CG
5	Stubby Gasket	2W005-0080	18CG-20
6	Gas Lens Insulator	2W005-0081	54N01
7	Large Dia Gas Lens Insulator	2W005-0082	54N63
8	Collet	2W005-0083	10N21,0.5mm
8	Collet	2W005-0084	10N22,1.0mm
8	Collet	2W005-0085	10N23,1.6mm
8	Collet	2W005-0086	10N23M,2.0mm
8	Collet	2W005-0087	10N24,2.4mm
8	Collet	2W005-0088	10N25,3.2mm
9	Stubby Collet	2W005-0089	10N21S,0.5mm
9	Stubby Collet	2W005-0090	10N22S,1.0mm
9	Stubby Collet	2W005-0091	10N23S,1.6mm
9	Stubby Collet	2W005-0092	10N24S,2.4mm
9	Stubby Collet	2W005-0093	10N25S,3.2mm
10	Collet Body	2W005-0094	10N29,0.5mm
10	Collet Body	2W005-0095	10N30,1.0mm

No.	Description	Part No.	Standard No.
10	Collet Body	2W005-0096	10N31,1.6mm
10	Collet Body	2W005-0097	10N32,2.4mm
10	Collet Body	2W005-0098	10N28,3.2mm
11	Stubby Collet Body	2W005-0099	17CB20,A11Size
12	Small Gas Lens	2W005-0100	45V29,0.5mm
12	Small Gas Lens	2W005-0101	45V24,1.0mm
12	Small Gas Lens	2W005-0102	45V25,1.6mm
12	Small Gas Lens	2W005-0103	45V26,2.4mm
12	Small Gas Lens	2W005-0104	45V27,3.2mm
13	Large Long Gas Lens	2W005-0105	45V116,1.6mm
13	Large Long Gas Lens	2W005-0106	45V64,2.4mm
13	Large Long Gas Lens	2W005-0107	4995795,3.2mm
13	Large Long Gas Lens	2W005-0108	45V63,4.0mm
14	Ceramic Nozzle	2W005-0109	10N50,6mm
14	Ceramic Nozzle	2W005-0110	10N49,8mm
14	Ceramic Nozzle	2W005-0111	10N48,10mm
14	Ceramic Nozzle	2W005-0112	10N47,11mm
14	Ceramic Nozzle	2W005-0113	10N46,13mm
14	Ceramic Nozzle	2W005-0114	10N45,16mm
14	Ceramic Nozzle	2W005-0115	10N44,19mm
15	Extra Length Ceramic Nozzle	2W005-0116	10N49L,8mm
15	Extra Length Ceramic Nozzle	2W005-0117	10N48L,10mm
15	Extra Length Ceramic Nozzle	2W005-0118	10N47L,11mm
16	Short Ceramic Nozzle	2W005-0119	13N08,6mm
16	Short Ceramic Nozzle	2W005-0120	13N09,8mm
16	Short Ceramic Nozzle	2W005-0121	13N10,10mm
16	Short Ceramic Nozzle	2W005-0122	13N11,11mm
16	Short Ceramic Nozzle	2W005-0123	13N12,13mm
16	Short Ceramic Nozzle	2W005-0124	13N13,16mm
17	Ceramic Nozzle	2W005-0125	54N18,6mm
17	Ceramic Nozzle	2W005-0126	54N17,8mm
17	Ceramic Nozzle	2W005-0127	54N16,10mm
17	Ceramic Nozzle	2W005-0128	54N15,11mm
17	Ceramic Nozzle	2W005-0129	54N14,13mm
17	Ceramic Nozzle	2W005-0130	54N19,18mm
18	Extra Long Lava Nozzle	2W005-0131	54N17L,8mm
18	Extra Long Lava Nozzle	2W005-0132	54N16L,10mm
18	Extra Long Lava Nozzle	2W005-0133	54N15L,11mm
19	Extra Dia.Ceramic Nozzle	2W005-0134	57N75,10mm
19	Extra Dia.Ceramic Nozzle	2W005-0135	57N74,13mm
19	Extra Dia.Ceramic Nozzle	2W005-0136	57N88,16mm
19	Extra Dia.Ceramic Nozzle	2W005-0137	57N87,19mm
20	Switch(with wire)	2W005-0138	
21	Handle	2W005-0139	105Z55
22	Cable Assembly	2W005-0140	
23	Cable Assembly Cover	2W005-0141	
24	Valve Stem	2W005-0142	

P80Air Plasma Cutting Torch



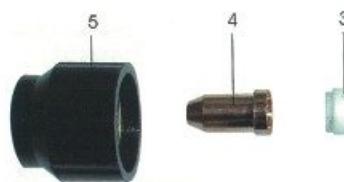
P80Air Plasma Cutting Torch(Round Handle)



P80Air Plasma Cutting Torch(Square Handle)

Cutting Torch Complete 12\15\25ft		
NO.1	2W017-0001	Torch Head w/Site Wheel(Round)
NO.2	2W017-0002	Torch Head w/Site Wheel(Square)
NO.3	2W017-0003	Electrode(America import hafnium filament)
NO.4	2W017-0004	Tip
NO.5	2W017-0005	Shield Cup
NO.6	2W017-0006	Site Wheel

JG-60/LG-60 Air Plasma Cutting Torch



JG-60 Air Plasma Cutting Torch

LG-60	LG-60 Torch	
NO.1	2W017-0007	Torch body
NO.2	2W017-0008	Electrode
NO.3	2W017-0009	Gas distributor
NO.4	2W017-0010	Tip
NO.5	2W017-0011	Shield Cup



JG-60 Air Plasma Cutting Torch

JG-60	JG-60 Torch	
NO.1	2W017-0012	Torch body
NO.2	2W017-0013	Electrode
NO.3	2W017-0014	Gas distributor
NO.4	2W017-0015	Tip
NO.5	2W017-0016	Shield Cup

PT-31 Air Plasma Cutting Torch



PT-31 Air Plasma Cutting Torch(Round Handle)



PT-31 Air Plasma Cutting Torch(Square Handle)



PT-31 Air Plasma Cutting Torch(TIG Handle)



PT-31	Cutting Torch Complete 12\15\25ft	
NO.1	2W017-0026	Torch body(Round)
NO.2	2W017-0027	Electrode
NO.3	2W017-0028	Gas Diffuser
NO.4	2W017-0029	Tip
NO.5	2W017-0030	Shield Cup
NO.6	2W017-0031	Extended Electrode
NO.7	2W017-0032	Extended Tip
NO.8	2W017-0033	Torch Body(Square)
NO.9	2W017-0034	Torch Body(TIG)

SG-51/TC100/80 Air Plasma Cutting Torch



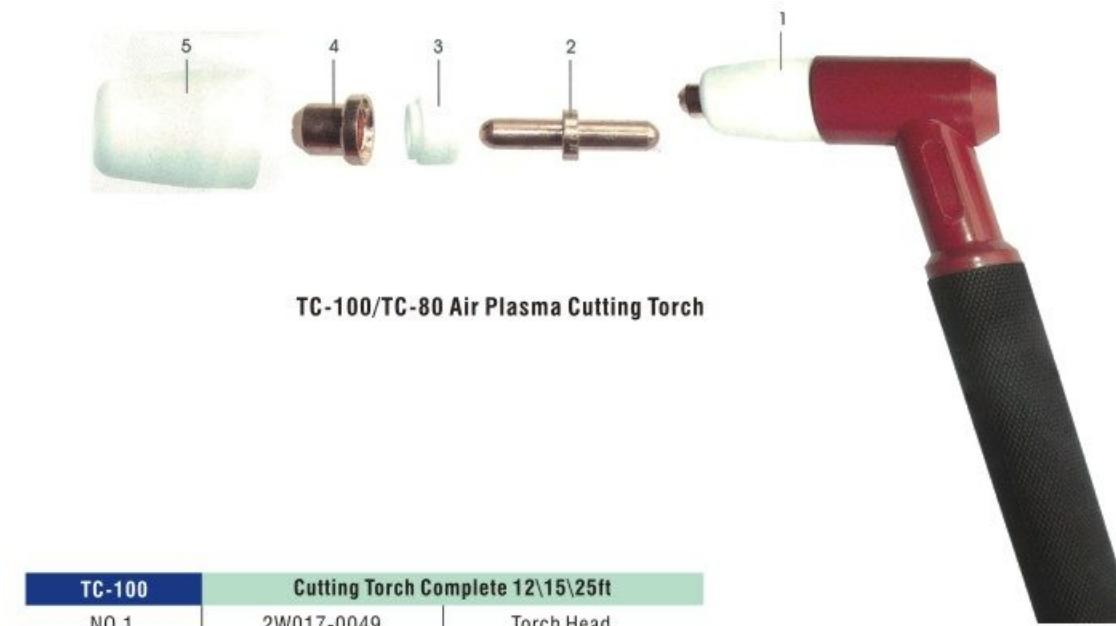
SG-51 Air Plasma Cutting Torch



SG-51	Cutting Torch Complete 12\15\25ft	
NO.1	2W017-0044	Torch Head w /Pang Hanlde
NO.2	2W017-0045	Electrode
NO.3	2W017-0046	Gas Diffuser
NO.4	2W017-0047	Tip
NO.5	2W017-0048	Shield Cup



TC-100/TC-80 Air Plasma Cutting Torch



TC-100	Cutting Torch Complete 12\15\25ft	
NO.1	2W017-0049	Torch Head
NO.2	2W017-0050	Electrode
NO.3	2W017-0051	Gas Diffuser
NO.4	2W017-0052	Tip
NO.5	2W017-0053	Shield Cup

**2W006-0001**

Model:K3(600A) with 2 meters cable
Suit:Pointed and Flat Carbon
 From 1/8" (3.2mm) to 1/2"(12.7mm)
Current:600 A
Copressed Air Pressure:80 psi (5.6 kh/cm²)
Flow Rate:36 cfm

**2W006-0002**

Model:K4000(1000A) with 2 meters cable
Suit:Pointed and Flat Carbon
 From 1/8" (3.2mm) to 5/8"(16mm)
Current:1000 A
Copressed Air Pressure:80 psi (5.6 kh/cm²)
Flow Rate:36 cfm

**2W006-0003**

Model:K5(1250A)with 2 meters cable
Suit:Pointed and Flat Carbon
 From 1/8" (3.2mm) to 5/8"(16mm)
Current:1250 A
Copressed Air Pressure:80 psi (5.6 kh/cm²)
Flow Rate:36 cfm



2W008-0001

THORIATED TUNGSTEN ELECTRODE

USES

- Primarily for DC welding of Carbon & Stainless steels, nickel alloys and titanium etc.
- Performs well when over loaded with extra amperage the most commonly used tungsten in welding.

Trade Mark	Added Impurity	Impurity Quantity %	Other Impurities	Tungsten %
			<0.20	The rest
Electric Discharged Power		Color Sign		
2.0-3.0		Red		

2W008-0002



CERIATED TUNGSTEN ELECTRODE

USES

- A non-radioactive material. Known to be especially good for DC welding with low amperage.
- Suitable for the welding of orbital tube, pipe, very small parts, short welding cycles.

Trade Mark	Added Impurity	Impurity Quantity %	Other Impurities	Tungsten %
			<0.20	The rest
Electric Discharged Power		Color Sign		
2.7-2.8		Grey		

2W008-0003



ZIRCONIATED TUNGSTEN ELECTRODE

USES

- Can not be replaced by any other electrodes in terms of its excellent performance.
- Retains a ball end when welding, which results in less tungsten permeation and good corrosion resistance.

Trade Mark	Added Impurity	Impurity Quantity %	Other Impurities	Tungsten %
			<0.20	The rest
WZ3		0.2-0.4		
WZ8		0.7-0.9	<0.20	The rest
Trade Mark		Electric Discharged Power	Color Sign	
WZ3		2.5-3.0	Brown	
WZ8		2.5-3.0	White	

2W008-0003



2W008-0004

PURE TUNGSTEN ELECTRODE

USES

- Suitable for welding under AC mainly using when welding aluminum and aluminum-alloy.

Trade Mark	Added Impurity	Impurity Quantity %	Other Impurities	Tungsten %
			<0.20	The rest
Electric Discharged Power		Color Sign		
4.5		Green		



2W008-0005

LANTHANATED TUNGSTEN ELECTRODES

USES

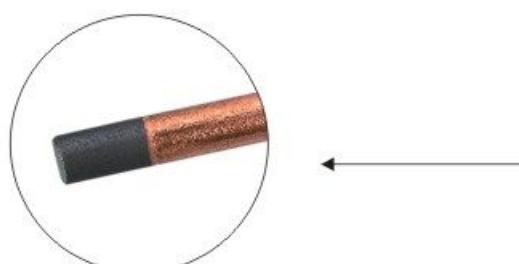
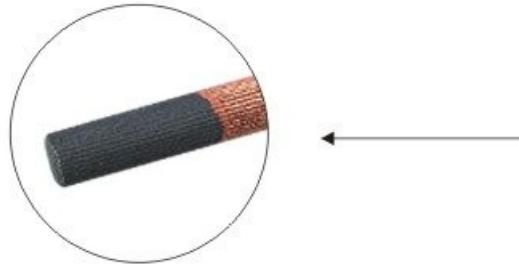
- Popular in the circle of welding world.
- The electric conductivity of Lanthanated Tungsten is the most closed to than of 2% Thoriated Tungsten.
- Thoriated Tungsten can easily replace Thoriated Tungsten Electrode with Lanthanated Tungsten at either DC or AC and not have to make any welding program changes.

Trade Mark	Added Impurity	Impurity Quantity %	Other Impurities	Tungsten %
			<0.20	The rest
WL10		La ₂ O ₃	0.8-1.2	<0.20
WL15		La ₂ O ₃	1.3-1.7	<0.20
WL20		La ₂ O ₃	1.8-2.2	<0.20
Electric Discharged Power		Color Sign		
2.6-2.7		Black		
2.8-3.0		Gold		
2.8-3.2		Sky blue		

1.0mm*150mm	1.0mm*175mm
1.2mm*150mm	1.2mm*175mm
1.4mm*150mm	1.6mm*175mm
1.6mm*150mm	2.0mm*175mm
2.0mm*150mm	2.4mm*175mm
2.4mm*150mm	3.0mm*175mm
3.0mm*150mm	3.2mm*175mm
3.2mm*150mm	4.0mm*175mm
4.0mm*150mm	5.0mm*175mm
5.0mm*150mm	6.0mm*175mm
6.0mm*150mm	

Gouging Electrodes

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

DC Copper Coated Pointed Gouging Rods**DC Copper Coated Blasting Gouging Rods**

- A standard all purpose gouging electrode.
- Controlled copper coating improves conductivity providing more efficient, cooler, operation and helps maintain electrode diameter at the point of the arc.

2W007-0002

MODEL	DIA*LENGTH		CURRENT RANGE(A)
	MM	INCHES	
B503.2	3.2*305(355)	1/8*12'(14')	130-180
B504	4*305(355)	5/32*12'(14')	150-200
B505	5*305*(355)	3/16*12'(14')	200-250
B506	6*305(355)	15/64*12'(14')	300-350
B506.5	6.5*305*(355)	1/4*12'(14')	320-370
B507	7*355	9/32*(14')	350-400
B508	8*305*(355)(455)(510)	5/16*12'(14')(18')(20')	400-450
B509	9*305*(355)(455)(510)	23/64*12'(14')(18')(20')	450-500
B510	10*305*(355)(455)(510)	3/8*12'(14')(18')(20')	500-550
B511	11*305*(355)(455)(510)	7/16*12'(14')(18')(20')	600-650
B512	12*305*(355)(455)(510)	15/32*12'(14')(18')(20')	750-850
B513	13*305*(355)(455)(510)	1/2*12'(14')(18')(20')	800-1000
B516	16*305*(355)(455)(510)	5/8*12'(14')(18')(20')	1000-1200
B519	19*305*(355)(455)(510)	3/4*12'(14')(18')(20')	1200-1400
B525	25*305*(355)(455)(510)	1*12'(14')(18')(20')	1400-1600

DC Copper Coated Jointed Gouging Rods:

- Eliminates tube loss and provides continuous electrode feed especially for semi-automatic and automatic torches.
- Machines at each end to provide male and female fittings.

**2W007-0003**

UW-5703
DC Copper Coated Jointed Gouging Rods
 Eliminates tube loss and provides continuous electrode feed Especially for semi-automatic and automatic torches.
 Machines at each end to provide male and female fittings.

MODEL	DIA*LENGTH	INCHES	CURRENT RANGE(A)
B506.5J	6.5*(355)	1/4*14'	450-500
B508J	8*355(430)	5/16*14'(17')	500-550
B509J	9*355(430)	23/64*14'(17')	550-600
B510J	10*355*(430)(455)(510)	3/8*14'(17')(18')(20')	600-650
B511J	11*355*(430)(455)(510)	7/16*14'(17')(18')(20')	650-700
B512J	12*355*(430)(455)(510)	15/32*14'(17')(18')(20')	700-800
B513J	13*355*(430)(455)(510)	1/2*14'(17')(18')(20')	800-1000
B516J	16*355*(430)(455)(510)	5/8*14'(17')(18')(20')	1000-1200
B519J	19*355*(430)(455)(510)	3/4*14'(17')(18')(20')	1200-1400
B525J	25*355*(430)(455)(510)	1*14'(17')(18')(20')	1400-1600

**2W007-0004****DC Copper Coated Flat Gouging Rods:**

- Specially designed for close tolerance metal removal.
- Excellent for removing weld crowns, repairing or making dies, removing welded dos and scarfing billets.

MODEL	DIA*LENGTH	INCHES	CURRENT RANGE(A)
B5325	3*25*355	1/8*1*14'	300-350
B5412	4*12*355	5/32*15/32*14'	200-250
B5510	5*10*355	3/16*25/64*14'	250-300
B5512	5*12*355	3/16*15/32*14'	300-350
B5515	5*15*355(305)	3/16*19/32*14'(12')	350-400
B5518	5*18*355	3/16*45/64*14'	400-450
B5520	5*20*355	3/16*25/32*14'	450-500
B5525	5*25*355	3/16*63/64*14'	500-550
B5620	6*20*355	15/64*25/32*14'	550-600

**CHARACTERISTICS**

- Battery Powered With Solar-assist For Long Life(up to 5,000 hrs.)With No Recharging Required.
- Features Auto-off Circuitry at 15-20 min.and Low Battery Indicator.
- Four Independent Arc Sensors.
- Lens darkening Reaction is 1/2,500 sec.
- Ideal for MIG and STICK Welding,TIG Rating(5 Amps).
- Variable Shade 9-13,Variable Sensitivity and Delay Controls.
- Light weight Well-balanced Design Fully Adjustable Headgear Provides Comfort and Reduces Fatigue.
- Includes Replacement Cover Lenses.


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**CHARACTERISTICS**

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- Features Auto-off Circuitry at 15-20 min.and Low Battery Indicator.
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Technical Data	ADF DX-900N	ADF DX-950N	ADF DX-980N
Optical Class	1 / 1 / 1 / 2	1 / 1 / 1 / 2	1 / 1 / 1 / 2
Viewing Area	100×50mm	98×62mm	98×80mm
Cartridge Size	133×114×10mm	133×114×10mm	133×114×10mm
Arc Sensor	4	4	4
Light State	DIN 4	DIN 4	DIN 4
Dark State	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13
Shade Control	Internal,Variable	Internal,Variable	Internal,Variable
Power On/Off	Fully Automatic	Fully Automatic	Fully Automatic
Sensitivity Control	Low – High, by infinitely dial knob	Low – High, by infinitely dial knob	Low – High, by infinitely dial knob
UV/IR Protection	DIN16	DIN16	DIN16
Power Supply	Solar cell. Battery change required 2×CR2450 lithium battery	Solar cell. Battery change required 2×CR2450 lithium battery	Solar cell. Battery change required 1×CR2450 lithium battery
Switching Time	1/25000S, from Light to Dark	1/25000S, from Light to Dark	1/25000S, from Light to Dark
Dark to Light	0.1-1.05 by infinitely dial knob	0.1-1.05 by infinitely dial knob	0.1-1.05 by infinitely dial knob
Low Amperage TIG	≥5amps(DC),≥5amps(AC),	≥5amps(DC),≥5amps(AC),	≥5amps(DC),≥5amps(AC),
Grinding Function	YES	YES	YES
Low Volume Alarm	YES	YES	YES
ADF self-check	YES	YES	YES
Operating Temp.	-5°C~+55°C	-5°C~+55°C	-5°C~+55°C
Storage Temp.	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Warranty	1 Year	1 Year	1 Year
Weight	530g	530g	530g
Packing Size	34×23×26cm	34×23×26cm	34×23×26cm

Technical Data	ADF DX-900N	ADF DX-950N	ADF DX-980N
Optical Class	1 / 1 / 1 / 2	1 / 1 / 1 / 2	1 / 1 / 1 / 2
Viewing Area	100×50mm	98×62mm	98×80mm
Cartridge Size	133×114×10mm	133×114×10mm	133×114×10mm
Arc Sensor	4	4	4
Light State	DIN 4	DIN 4	DIN 4
Dark State	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13
Shade Control	Internal,Variable	Internal,Variable	Internal,Variable
Power On/Off	Fully Automatic	Fully Automatic	Fully Automatic
Sensitivity Control	Low – High, by infinitely dial knob	Low – High, by infinitely dial knob	Low – High, by infinitely dial knob
UV/IR Protection	DIN16	DIN16	DIN16
Power Supply	Solar cell. Battery change required 2×CR2450 lithium battery	Solar cell. Battery change required 2×CR2450 lithium battery	Solar cell. Battery change required 1×CR2450 lithium battery
Switching Time	1/25000S, from Light to Dark	1/25000S, from Light to Dark	1/25000S, from Light to Dark
Dark to Light	0.1-1.05 by infinitely dial knob	0.1-1.05 by infinitely dial knob	0.1-1.05 by infinitely dial knob
Low Amperage TIG	≥5amps(DC),≥5amps(AC),	≥5amps(DC),≥5amps(AC),	≥5amps(DC),≥5amps(AC),
Grinding Function	YES	YES	YES
Low Volume Alarm	YES	YES	YES
ADF self-check	YES	YES	YES
Operating Temp.	-5°C~+55°C	-5°C~+55°C	-5°C~+55°C
Storage Temp.	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Warranty	1 Year	1 Year	1 Year
Weight	530g	530g	530g
Packing Size	34×23×26cm	34×23×26cm	34×23×26cm

**CHARACTERISTICS**

- Battery Powered With Solar-assist For Long Life(up to 5,000 hrs.)With No Recharging Required.
- Features Auto-off Circuitry at 15-20 min.and Low Battery Indicator.
- Two Independent Arc Sensors.
- Lens darkening Reaction is 1/2,500 sec.
- Ideal for MIG and STICK Welding,TIG Rating(5 Amps).
- Variable Shade 9-13,Variable Sensitivity and Delay Controls.
- Light weight Well-balanced Design Fully Adjustable Headgear Provides Comfort and Reduces Fatigue.
- Includes Replacement Cover Lenses.

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Technical Data	ADF DX-600S	ADF DX-700S	ADF DX-800S
Optical Class	1 / 1 / 1 / 3	1 / 1 / 1 / 2	1 / 1 / 1 / 2
Viewing Area	98x43mm	96x46mm	100x50mm
Cartridge Size	110x90x9mm	110x90x10mm	110x90x9mm
Arc Sensor	2	2	2
Light State	DIN 4	DIN 4	DIN 4
Dark State	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13
Shade Control	External, Variable	External, Variable	External, Variable
Power On/Off	Fully Automatic	Fully Automatic	Fully Automatic
Sensitivity Control	Low – High, by infinitely dial knob	Low – High, by infinitely dial knob	Low – High, by infinitely dial knob
UV/IR Protection	DIN16	DIN16	DIN16
Power Supply	Solar cell. Battery change required 2xCR2032 lithium battery	Solar cell. Battery change required 1xCR2450 lithium battery	Solar cell. Battery change required 2xCR2032 lithium battery
Switching Time	1/25000S, from Light to Dark	1/25000S, from Light to Dark	1/25000S, from Light to Dark
Dark to Light	0.1-1.05 by infinitely dial knob	0.1-1.05 by infinitely dial knob	0.1-1.05 by infinitely dial knob
Low Amperage TIG	≥5amps(DC), ≥5amps(AC)	≥5amps(DC), ≥5amps(AC)	≥5amps(DC), ≥5amps(AC)
Grinding Function	YES	YES	YES
Low Volume Alarm	YES	YES	YES
ADF self-check	YES	YES	YES
Operating Temp.	-5°C~+55°C	-5°C~+55°C	-5°C~+55°C
Storage Temp.	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Warranty	1 Year	1 Year	1 Year
Weight	490g	490g	490g
Packing Size	33x23x26cm	33x23x26cm	33x23x26cm

**CHARACTERISTICS**

- Battery Powered With Solar-assist For Long Life(up to 5,000 hrs.)
- Features Auto-off Circuitry at 15-20 min.
- Two Independent Arc Sensors.
- Lens darkening Reaction is 1/1,500 sec.
- Ideal for MIG and STICK Welding,TIG Rating.
- Variable Shade 9-13,Variable Sensitivity and Delay Controls.
- Light weight Well-balanced Design Fully Adjustable Headgear Provides Comfort and Reduces Fatigue.
- Includes Replacement Cover Lenses.

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Technical Data	ADF DX-400N	ADF DX-400S	ADF DX-450D
Optical Class	1 / 2 / 1 / 2	1 / 2 / 1 / 2	1 / 2 / 2 / 2
Viewing Area	92x42mm	92x42mm	92x42mm
Cartridge Size	110x90x9mm	110x90x9mm	110x90x9mm
Arc Sensor	2	2	2
Light State	DIN 4	DIN 4	DIN 4
Dark State	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13	Variable shade, 9 ~ 13
Shade Control	Internal,Variable	External, Variable	External, Variable
Power On/Off	Fully Automatic	Fully Automatic	Fully Automatic
Sensitivity Control	Low-High, by switch button	Low-High, by switch button	Low – High, by infinitely dial knob
UV/IR Protection	DIN16	DIN16	DIN16
Power Supply	Solar cells. Re-chargeable battery No battery change required	Solar cells. Re-chargeable battery No battery change required	Solar cell. Battery change required 2×AAA Alkaline batteries
Switching Time	1/15000S,from Light to Dark	1/15000S,from Light to Dark	1/15000S,from Light to Dark
Dark to Light	0.25~0.35 at fast position, 0.35~0.6 at middle position, 0.65~0.855 at slow position	0.25~0.35 at fast position, 0.35~0.6 at middle position, 0.65~0.855 at slow position	0.1-1.05 by infinitely dial knob
Low Amperage TIG	≥20amps(DC)	≥20amps(DC)	≥10amps(DC)
Grinding Function	NO	YES	YES
Low Volume Alarm	NO	NO	NO
ADF self-check	NO	NO	NO
Operating Temp.	-5°C~+55°C	-5°C~+55°C	-5°C~+55°C
Storage Temp.	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Warranty	1 Year	1 Year	1 Year
Weight	460g	460g	460g
Packing Size	33x23x23cm	33x23x23cm	33x23x23cm



E6013 Carbon Steel Electrode

STANDARD: AWS E6013 JIS D4313 DIN E4342R(C)3 ISO E433R12 GB/T E4313(J421)

DESCRIPTION: AWS E6013 is Carbon steel type electrode with Titanium Oxide coating. It is suitable for all-position welding along with the excellent welding performances and can be used both of AC and DC. The arc is stable and easy to re-strike.

Chemical composition of weld metal(%):

C	Mn	Si	S	P
≤ 0.12	0.3-0.6	≤ 0.35	≤ 0.035	≤ 0.040

Mechanical properties of weld metal:

Test item	Tensile strength(Mpa)	Yield strength(Mpa)	Elongation	Impact value
Guaranteed	> 420	> 330	> 22	> 47
Tested	490	400	27	60

Packing

Size(mm)	2.0*300	2.5*300	2.5*350	3.2*350	4.0*400	5.0*400
British(inch)	5/64	3/32	3/32	1/8	5/32	3/16
Gauge No.	14	12	12	10	8	8
Piece (1kgs) ~	100pcs	52pcs	48pcs	30pcs	17pcs	12pcs
Per Box(kgs)	2.5kg/5kgs	2.5kg/5kgs	5kgs	5kgs	5kgs	5kgs
Boxes/Carbon	8/4	8/4	4	4	4	4
Per Carton(kgs)					20kgs	

E7018 Carbon Steel Electrodes

STANDARD: AWS E7018 JIS D5018 DIN E5154(R)10 ISO E515 B110 26(H) GB/T E5018

DESCRIPTION: AWS E7018 is iron powder Low-hydrogen potassium coated carbon steel type electrode. It can be operated in all position welding on both AC and DC. The weld is rest and smooth with fewer spatters. It is mollar depth is well situated.

Chemical composition of weld metal(%):

C	Mn	Si	S	P
≤ 0.12	≤ 1.6	≤ 0.75	≤ 0.035	≤ 0.040

Mechanical properties of weld metal:

Test item	Tensile strength Mpa	Yield strength Mpa	Elongation %	Impact value(J)-30°C
Guaranteed	> 490	> 400	> 22	> 27
Tested	520-580	> 410	25-30	55-220

CARBON STEEL ELECTRODES

MODEL NAME	STANDARD	CHEMICAL COMPOSITION	MECHANICAL PROPERTIES	DESCRIPTION
E6013	AWS E6013 JIS D4313 DIN E4342R(c)3 ISO E433R12 GB/T E4313(J421)	C<0.12 Mn 0.3-0.6 Si<0.35	αb≥420Mpa αs≥330Mpa δ5≥22% Akv(J)≥47(0°C)	It has excellent fabrication weldability, suitable for welding on thin plate of low-carbon steel or light structures where beautiful bead appearance is requested.
E7018	AWS E7018 JIS D5018 DIN E5154B(R)10 ISO E433R12 GB/T E4313(J421)	C<0.12 Mn≤1.6 Si≤0.75	αb≥490Mpa αs≥400Mpa δ5≥22% Akv(J)≥47(-30°C)	The deposited metal has excellent mechanical properties. It is used for welding middle carbon and low-alloy steel structure, such as pressure containers, bridges, and ship structure.
E6010	AWS E6010 DIN E4343C4 GB/T E4310	C<0.20 Mn 0.3-0.6 Si<0.20	αb≥420Mpa αs≥330Mpa δ5≥22% Akv(J)≥27(-30°C)	For girth downward welding on all kinds of carbon steel pipes
E6011	AWS E6011 JIS D4311 DIN E4343C4 BS E4343C13 GB/T E4311	C<0.20 Mn 0.3-0.6 Si≤0.18	αb≥420Mpa αs≥330Mpa δ5≥22% Akv(J)≥27(0°C)	Welding of ship building structures such as buildings and bridges, strong tanks, pipes and pressure vessel fitting.
E7014	AWS E7014 GB/T E5014	C<0.12 Mn≤1.25 Si≤0.90	αb≥490Mpa αs≥400Mpa δ5≥17% Akv(J)≥27(0°C)	It is suitable for welding of carbon steel and low alloy steel, such as welding of 16Mn, and structure of ships, vehicles as well as mechanical.
E7015	AWS E7015 GB/T E5015	C<0.12 Mn≤1.60 Si≤0.75	αb≥490Mpa αs≥400Mpa δ5≥22% Akv(J)≥27(-30°C)	The deposited metal has excellent mechanical properties. It is used for welding middle-carbon and low-alloy steel structure, such as pressure containers, bridges, and ship structure.
E7016	AWS E7016 JIS D5016 DIN E5154B(R)10 GB/T E5016	C<0.12 Mn≤1.60 Si≤0.75	αb≥400-560Mpa αs≥305Mpa δ5≥22% Akv(J)≥47(-20°C)	Welding of important structures made of low alloy steel with corresponding grade of strength.
E7016-1	AWS E7016-1 GB/T E5016-1	C<0.12 Mn≤1.60 Si≤0.75	αb≥490Mpa αs≥400Mpa δ5≥22% Akv(J)≥27(-46°C)	Same as E7016, have better crack-resistance and low-temperature impact toughness.
E7018-1	AWS E7018-1 GB/T E5018-1	C<0.12 Mn≤1.60 Si≤0.70	αb≥490Mpa αs≥400Mpa δ5≥23% Akv(J)≥27(-46°C)	Added to more alloy, its low-temperature impact toughness is stronger than AWS E7018, suitable for welding key structure, such as petrolem platform on ocean and ships.
E7024	AWS E7024 GB/T E5024	C<0.12 Mn≤1.60 Si≤0.70	αb≥490Mpa αs≥400Mpa δ5≥17% Akv(J)≥27(0°C)	Used for welding efficiently on carbon steel and low-alloy steel sheet with middle-gauge such as ships, bridges, etc. It's suitable for downhand welding and flat fillet welding.

E308 Stainless Steel Electrode

STANDARD: AWS E308-16 JIS E308-16 DIN E199R26 GB/T E308(A102)

DESCRIPTION: AWS E308-16 is low carbon Cr19Ni10 Stainless steel type pf electrode with Tiannium-calcium coating.

It provides excellent mechanical performance as anti-intercry stalline corrosion performance between. It can be operated on both AC and DC with outstanding operation performance.

Chemical composition of weld metal(%):

C	Mn	Si	Cr	Ni	S	P	Mo
≤0.08	0.5-2.5	≤0.09	18-21	9-11	≤0.03	≤0.04	≤0.75

Mechanical properties of weld metal:

Test Item	Tensile strenghe (Mpa)	Elongation(%)
Guaranteed	≥550	≥35

Recommended current:

Weld rod diameter(mm)	2.0	2.5	3.2	4.0	5.0
Welding current(A)	25-50	50-80	80-110	110-160	160-200

E308L Stainless Steel Electrodes

STANDARD: AWS E308-16 JIS E308-16 DIN E199LR23 GB/T E308L-16(A002)

Description: E308L-16 is a super-low carbon Cr19Ni10stainless steel type electrode coated with Titanium-calcium. The molten metal content is <0.04%. It provieds excellent performance of intorcry stalline corrosion resistance. It has excellent operational technological performance on both AC and DC.

Chemical composition of weld metal(%):

C	Mn	Si	Cr	Ni	S	P	Mo	Cu
<0.04	0.5-2.5	<0.90	≤18-21	9-11	<0.03	<0.04	<0.75	<0.75

Mechanical properties of weld metal:

Test Item	Tensile strenghe (Mpa)	Elongation(%)
Guaranteed	>520	>35

Recommended current:

Weld rod diameter(mm)	2.0	2.5	3.2	4.0	5.0
Welding current(A)	25-50	50-80	80-110	110-160	160-200

Packing

Size(mm)	2.0*300	2.5*300	3.2*350	4.0*350	Pvc Box	1kgs	2kgs
Piece(1kgs)	80pcs	48pcs	48pcs	19pcs	Carton	10kgs	20kgs

ER70S-6 MIG GAS-SHIELD WELDING WIRE

Standard: AWS A5.18 ER70S-6 GB/T8110 ER50-6 JIS Z3312 YGW-12

Description: Suitable for all-position welding; applicable to wide current range; Stable electric arc under the Operating condition of low current; few spark spatters; widely applied to structure welding like butt joint welding and fillet welding in the industries shipbuilding, bridge, architecture and machinery.

Chemical compositions of weld wire (wt%);(shielding gas:CO₂)

C	Mn	Si	P	S
0.080	1.47	0.85	0.010	0.012

Mechanical Properties of Weld Pass:(Shielding gas:CO₂)

Tensile strength Mpa	Yield strength Mpa	Elongation %	Impact value -29°CJ
510	580	31	96

Welding Parameter (DC+)

	Wire Diameter(mm)	0.6	0.8	0.9	1.0	1.2	1.6	2.0
Current Range (Amp)	Flat position welding	80-160	80-220	80-220	100-250	140-350	200-400	200-500
	Overhead position welding	80-160	80-180	80-180	80-180	80-250	/	/
	Vertical up welding	50-120	50-140	50-140	50-140	50-160	/	/
	Vertical down welding	50-180	50-200	50-200	50-200	50-250	/	/

Package Size:

Diameter(mm)	0.6	0.8	0.9	1	1.2	1.6	2
Weight(kgs/spool)							
1kg/D100,5kgs/D200,15kgs/D270,15kgs/D300,20kgs/D270							

Drum Package:

Wire Diameter(mm)	0.6	0.8	0.9	1	1.2	1.6	2
100/150/250/350							

**MIG GAS-SHIELDED WELDING WIRE**

MODEL NAME	STANDARD	CHEMICAL COMPOSITION	MECHANICAL PROPERTIES	DESCRIPTION
ER70S-6	AWS A5.18ER70S-6 JIS Z3312 YGW-12 GB/T8110 ER50-6	C 0.080 Mn 1.47 Si 0.85 P 0.010 S 0.012	$\alpha b \geq 580\text{Mpa}$ $\alpha s \geq 510\text{Mpa}$ $\delta 5 \geq 31\%$ $Akv(J) \geq 96(-29^\circ\text{C})$	Suitable for all-position welding; applicable to wide current range; Stable electric arc under the operating condition of low current; few spark spatters; widely applied to structure welding like butt joint welding and fillet welding in the industries shipbuilding, bridge, architecture and machinery.
ER70S-4	AWS A5.18ER70S-4 JIS Z3312 YGW-12 GB/T8110 ER50-4	C 0.90 Mn 1.06 Si 0.55 P 0.014 S 0.011	$\alpha b \geq 550\text{Mpa}$ $\alpha s \geq 460\text{Mpa}$ $\delta 5 \geq 32\%$ $Akv(J) \geq 84(-29^\circ\text{C})$	When welded under the operating condition of low current ER70S-4 spatters litter spark and have stable electric arc; User Ar CO ₂ as shielding gas for all-position welding or high-speed single-layer back welding.
ER80S-G	AWS A5.18ER80S-4 JIS Z3312 YGW-21 GB/T8110 ER55-D2-T1	C 0.081 Mn 1.44 Si 0.61 P 0.020 S 0.010 Mo 0.37	$\alpha b \geq 650\text{Mpa}$ $\alpha s \geq 560\text{Mpa}$ $\delta 5 \geq 26\%$ $Akv(J) \geq 175(-40^\circ\text{C})$ $Akv(J) \geq 80(-60^\circ\text{C})$	ER80S-G is suitable for welding of 590Mpa high tensile steels. Applicable to wide current range and stage electric arc. It is primarily applied to the welding of high tensile structural steels.

Argon Arc Welding Wire(tig)

TYPE	STANDARD	CHEMICAL COMPOSITION	MECHANICAL PROPERTIES	DESCRIPTION
ER70S-3	GB ER50-3 AWS ER70S-3	C 0.06-0.15 Mn 0.90-1.40 Si 0.45-0.75 Cu ≤ 0.5 S ≤ 0.025 P ≤ 0.025 Re Micro	$\alpha b \geq 500\text{Mpa}$ $\alpha s \geq 420\text{Mpa}$ $\delta 5 \geq 22\%$ $Akv(J) \geq 27(-29^\circ\text{C})$	
ER70S-6	GB ER50-6 AWS ER70S-6	C 0.06-0.15 Mn 1.40-1.85 Si 0.45-0.75 Cu ≤ 0.30 S ≤ 0.025 P ≤ 0.025	$\alpha b \geq 500\text{Mpa}$ $\alpha s \geq 420\text{Mpa}$ $\delta 5 \geq 22\%$ $Akv(J) \geq 27(-29^\circ\text{C})$	Suitable for all position tungsten argon arc manual welding of pipeline. satisfactory welding joint can be obtained both in root pass welding. It can also weld some low steel. Such as 09Mn2Si, 16Mn, 09Mn2V and etc.
ER49-1	GB ER49-1	C ≤ 0.11 Mn 1.80-2.10 Si 0.65-0.95 Cu ≤ 0.35 S ≤ 0.03 P ≤ 0.03	$\alpha b \geq 490\text{Mpa}$ $\alpha s \geq 370\text{Mpa}$	

Package Size:

Diameter(mm)	2.0	2.5	3.2	4.0
Length(m)	1/0.8	1	1	1
Package Weight(kgs)	0.5	0.5	0.5	0.5

STAINLESS STEEL WIRE

MODEL NAME	CORRESPONDING TO	CHEMICAL COMPOSITION OF WIRE(%)							TENSILE STRENGTH (MPA)	ELONGATION (%)	APPLICATION
		AWS	GB	C	Mn	Si	Cr	Ni	Oters		
Er308	Er308	H0Cr21Ni10	0.05	1.79	Si	19.72	10.14	-	580	42	18%Cr-8%Ni stainless steel
ER308L	ER308L	H0Cr21Ni10	0.024	1082	0.34	19.76	9.83	-	560	45	Extra low carbon type 18%Cr-8%Ni stainless steel,better corrosion resisting than CHM-308 CHG308
Er309	ER309	H1Cr24Ni13	0.06	2.05	0.34	23.83	13.26	-	580	39	22%Cr-12%Ni stainless steel, with excellent performance on heat resisting and corrosion resisting can be used for welding special steel.
ER319L	ER309L	H1Cr24Ni13	0.026	2.11	0.38	23.56	12.31	-	570	38	Extra low carbon type using for the hardfacing stainless steel rendering.
Er310	ER310	H1Cr26Ni21	0.09	1.9	0.35	26.8	21.4	-	610	41	25%Cr-20%Ni stainless steel, excellent抗氧化 performance under high temperature.
Er316	ER316	H00Cr20Ni14Mo2	0.04	1.88	0.33	19.27	12.7	Mo2.26	570	42	18%Cr-12%Ni-2%Mo stainless steel, excellent抗氧化 performance under high temperature.
ER316L	ER316L	H00Cr20Ni14Mo2	0.02	1.85	0.38	18.73	12.5	Mo2.36	550	43	Extra low carbon type,better corrosion resisting.

TIG STAINLESS STEEL ROD

Wire Diameter(mm)	1.6	2	2.5	3.2
Length(mm)	1000			
Packing	Skg/pvcbox,30kg/carton			

MIG STAINLESS STEEL WIRE

Wire Diameter(mm)	0.8	0.9	1	1.2	1.6
Packing	5kg/15kg/spool/carton				

SAW STAINLESS STEEL WIRE

Wire Diameter(mm)	2	2.5	3.2	4
Packing	25kg/spool/woven bag			

HS-221 Brazing Rod Hs221

STANDARD: AWS RBCuZn-A

DESCRIPTION: HS221 is a specific brass welding wire which contains tin and silicon. It is melting Point reaches 890°C removing air holes and bringing about satisfactory mechanical properties. It can be used in brazing thin increases flowing property of welding wire, while silicon effectively controls zinc Evaporation, thus copper, steel, colomony and casting pig and casting pig and in inserting tools made of hard alloy.

Chemical composition of weld metal(%):

Cu	Sn	Si	Zn
59-61	0.8-1.2	0.15-0.35	The rest

Package size:

Wire Diameter(mm)	1.6	2	2.5	3	3.8	4.8	6.4
Guaranteed	1000						
Tested	5kgs/PVC bag,50kgs/wooden case/pallet						

Size List	Piece(1kg)
1.6mmx1000mm	60
2.0mmx1000mm	37
2.5mmx1000mm	25
3.0mmx1000mm	17
3.8mmx1000mm	11
4.8mmx1000mm	6.6
6.4mmx1000mm	3.8

Flux Coated Brazing Alloys Rod

Description: Copper-zinc Brazing Alloys are suitable for gas-flame brazing, high temperature brazing of copper and copper and alloys, nickel, cast iron and hard alloys. During oxy-acetylene brazing, to heat with oxidized flame quickly can lessen evaporation of zinc and prevent porosity from over-oxidation. The optimum joint gap is 0.025-0.1mm. Flux is also necessary to obtain good brazing seam.

Chemical composition of weld metal(%):

Product Name	AWS Grade	EN 14640 Grade	Bs 1845	Chemical Composition
Hs221 (copper-zinc)	RBCuZn-A	CuZn40	/	Cu 57-61, Sn 0.25-1.0, Zn balance
Hs221 (copper-zinc)	RBCuZn-B	CuZn40Ni	/	Cu 56-60, Ni 0.2-0.8, Sn 0.8-1.1 Zn balance
Hs222 (copper-zinc)	RBCuZn-C	/	/	Cu 56-60, Sn 0.8-1.1, Fe 0.25-1.20 Zn balance
Hs225 (copper-zinc)	RBCuZn-D	CuZn40Ni10	Cz8	Cu 46-50, Ni 9-11, Zn balance

Diameter	Φ1.6mm~Φ5.0mm
Length	14inch, 18inch, 36inch, 400mm, 500mm, 914mm, 1000mm, etc.



Aluminum Alloy Wire&Rod

TRADE MARK	CHIAN CLASSIFICATION	EQUIVALENT TO AWS	CHEMICAL COMPOSITION	CHARACTERISTICS& APPLICATION
HS301	SAI-3	ER1100	Al>99.5	Characteristics&Application
HS311	SAISI	ER4043	Si5 Al Rem	Good ductility and corrosion resistance. Gaswelding and argon arc welding of pure aluminum.
HS331	SAIMg-5	ER5183	Mg5Mn0.4AlRem	Good crack resistance, wide range of usage. Gas welding and argon arc welding of alloys other than high magnesium alloys.
5356		ER5356	Mg5 Al Rem	Corresion resistance and high strength. Argon are welding of aluminum alloys

Packing

(DIA.FOR.WIRE):	(NET WT.):	(DIA.FOR.ROD):	(NET WT.):
0.8mm(0.030*)		1.6mm(1/16*)	
0.9mm(0.035*)	0.5kg(1LB)	2.0mm(5/64*)	
1.0mm(0.040*)	3kg(6LB)	2.4mm(3/32*)	
1.2mm(0.045*)	6kg(15LB)	3.2mm(1/8*)	5-10kg(10-20LB)
1.6mm(1/16*)		4.0mm(5/32*)	
		6.4mm(1/4*)	

Other diameter.lengths and packing available upon special request.

Nickel Base Alloy Covered Welding Wire&Strip

STANDARD(AWS)	Chemical Composition %										
	C	Mn	Fe	P	S	Si	Cu	Ni	Cr	Mo	Other
ERNi-1	0.03	0.5	1	0.03	0.15	0.4	0.25	≥93	--	--	Ti2.0-3.5
ERNiCr-3	0.03	3	3	0.03	0.15	0.4	0.5	67	18.0-22.0	--	Nb2.8
ERNiMo-3	0.03	0.3	4.0-7.0	0.04	0.03	0.03	0.5	Rem	22	9	Nb3.8
ERNiMo-4	0.03	0.4	4.0-7.1	0.04	0.03	0.08	0.5	Rem	14.5-16.5	6	W3.5
ERNiCu-7	≤0.15	≤4.0	≤2.5	--	--	≤1.25	Rem	62.0~69.0	--	--	--

Packing:DIA for Rod(TIG):1.0mm-3.0mm;DIA for wire(MIG)0.6mm-5.0mm;STIPP Size:0.5*30mm 0.5*60mm

Sliver Brazing Alloy Rod

ALLOY	CORRESPONDING ALLOY	CHEMICAL COMPOSITION					MELTING RANGE		APPLICATION
		Ag%	P%	Sn%	Cu%	Zn%	Solidus F/C	Liquidus F/C	
Phos-Copper									
Scup-1	JG:BCu92P AWS:TC-310D	/	7.5-8.5	/	/	/	1310/710	1365/740	For copper-copper and copper-brass application
Scup-2	GB:BCu93P JG:BCup-2 AWS:TC-310A	/	6.5-7.5	/	/	/	1310/711	1455/790	
Scup-3Sn	GB:BCu86PSn DN:Degussa86	/	6.5-7.5	6.5-7.6	/	/	1185/640	1260/680	

Phos-Copper-Silver Brazing alloy									
Sagp-2	GB:BCu91Pag JG:TC-312 AWS:BCup-6	1.8-2.2	6.5-7.5	/	/	/	1190/643	1455/790	For brazing copper parts in aircon-ditiomerators and motors.The brazing per-formance is excellent.
Sagp-5	GB:BCu88Pag JG:TC-315 AWS:BCup-7	4.6-5.5	5.5-7.0	/	/	/	1190/643	1445/785	
Sagp-6	GB:BCu87Pag AWS:BCup-4	5.8-6.2	6.8-7.5	/	/	/	1190/643	1370/745	
Sagp-10	GB:BCu84Pag	9.5-10.5	6.0-7.0	/	/	/	1195/647	1210/800	
Sagp-15	GB:BCu80Pag AWS:BCup-5	14.5-15.5	4.8-5.3	/	/	/	1190/643	1470/800	

High Silver Brazing alloys									
Sag-10	GB:Bag10CuZn	9-11	/	/	52-54	36-38	1500/815	1560/850	
Sag-20	GB:Bag20CuZn	19-21	/	/	40-42	38-40	1275/690	1490/810	
Sag-25	GB:Bag25CuZn DIN:L-Ag25	24-26	/	/	40-43	33-35	1255/680	1465/795	
Sag-30	GB:Bag30CuZn Bag20	29-31	/	/	37-39	30-34	1150/677	1410/766	
Sag-40	GB:Bag40CuZn	39-41	/	/	29-31	29-31	1250/621	1350/732	
Sag-45	GB:Bag45CuZn AWS:Bag-5	44-46	/	/	24-36	24-36	1250/677	1370/743	
Sag-50	GB:Bag50CuZn AWS:Bag-6	49-51	/	/	14-18	14-18	1270/688	1425/714	
Sag-72	GB:Bag72CuZn	71-73	/	/	/	/	1435/799	1435/779	

Size(mm)	1.3*3.2*500mm	2.0*500mm	2.5*500mm	Pvc Box	1kg	1lb
Piece(1kgs)	64pcs	81pcs	53pcs	Carton	10pcs	25Lbs(11.34kgs)

WELDING CABLE RUBBER JACKET

APPLICATIONS

For secondary side connection of power sources for hand or automatic metal-arc welding where required hard usage and heavy duty portable supply in dry, wet and oil environment. Suitable for connection of motors, generators, transformers, etc. where flexible connections are required.

RATED VOLTAGE

For secondary voltage typical of welding equipment and for fixed protected laying up to 600 V. Maximum permissible conductor temperature 90°C.

FEATURES

- High strength tear-resistant jacket
- Excellent resistance to abrasion and impact
- Superior flexibility, even at cold temperature to -50°C
- Flame resistant
- Special stranded conductor for added flexibility and easy handling

COLOR

Black (standard)



other colors available on special request



2W016-0001



SPECIFICATION

Annealed bare copper high flexible conductors
Single jacket of EPDM, NEOPRENE, other materials available on special request
Double insulation available on special request
ROHS, PAHS, REACH available upon request

SEPARATORS

Various, such as paper, polyester film, or polyester.

STANDARD DELIVERY LENGTHS

Up to 35 mm² in coils of 100m, 50 to 120 mm² in coils of 50 m.
Other lengths available on special request
Longer delivery lengths on drums upon request.

H01N2-D

SIZE	NO STRANDS	STRAND SIZE	SHEATH THICKNESS	AVERAGE OD		Max. Conductor Resistance at 20°C
				MIN.	MAX.	
mm ²	pcs	mm	mm	mm	mm	Ω/km
10	320	0.20	2.0	7.70	9.70	1.950 1.910
16	513	0.20	2.0	8.80	11.00	1.190 1.160
25	798	0.20	2.0	10.10	12.70	0.780 0.758
35	1115	0.20	2.0	11.40	14.20	0.552 0.536
50	1596	0.20	2.2	13.20	16.50	0.390 0.379
70	2214	0.20	2.4	15.30	19.20	0.276 0.268
95	2997	0.20	2.6	17.10	21.40	0.204 0.198
120	612	0.50	2.8	19.20	24.00	0.164 0.161

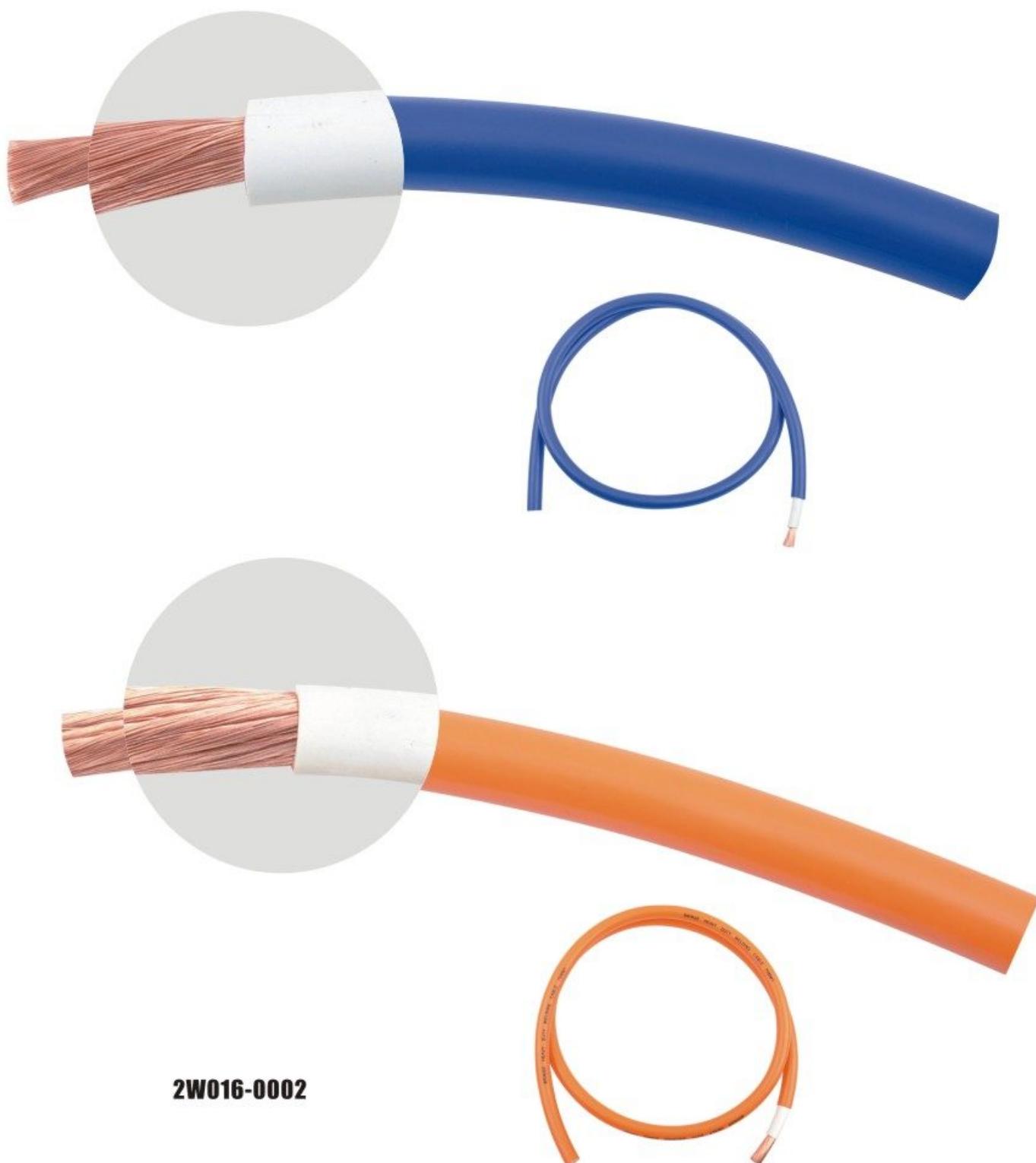
H01N2-E

SIZE	NO STRANDS	STRAND SIZE	SHEATH THICKNESS	AVERAGE OD		Max. Conductor Resistance at 20°C
				MIN.	MAX.	
mm ²	pcs	mm	mm	mm	mm	Ω/km
10	497	0.16	1.2	6.20	7.80	1.950 1.910
16	791	0.16	1.2	7.30	9.10	1.190 1.160
25	1241	0.16	1.2	8.60	10.80	0.780 0.758
35	1734	0.16	1.2	9.80	12.30	0.552 0.536
50	2482	0.16	1.5	11.90	14.80	0.390 0.379
70	3485	0.16	1.5	13.60	17.00	0.276 0.268
95	4726	0.16	1.8	15.60	19.50	0.204 0.198

AWG SIZE WELDING CABLE EPDM INSULATED 105°C TO -50°C, 600V

AWG SIZE	CONDUCTOR STRANDING	NOMINAL O.D.	NOMINAL WALL		APPROX.
			Inch	Inch	
6	7x38/30 Bare Copper	0.320	0.06	0.06	116
4	7x56/30 Bare Copper	0.375	0.06	0.06	163
3	7x7530 Bare Copper	0.428	0.06	0.06	215
2	7x92/30 Bare Copper	0.440	0.06	0.06	251
1	7x112/30 Bare Copper	0.515	0.08	0.08	321
1/0	19x54/30 Bare Copper	0.550	0.08	0.08	388
2/0	19x66/30 Bare Copper	0.590	0.08	0.08	474
3/0	19x85/30 Bare Copper	0.660	0.08	0.08	601
4/0	19x108/30 Bare Copper	0.725	0.08	0.08	762

WELDING CABLE PVC INSULATION



2W016-0002

Applications

For secondary side connection of power sources for hand or automatic metal-arc welding where required hard usage and heavy duty portable supply in dry, wet and oil environment. Suitable for connection of motors, generators, transformers, etc. where flexible connections are required.

Rated voltage

For secondary voltage typical of welding equipment and for fixed protected laying up to 600 V. Maximum permissible conductor temperature 90°C.

Features

High strength tear-resistant jacket
Excellent resistance to abrasion and impact
Superior flexibility, even at cold temperature to -50°C
Flame resistant
Special stranded conductor for added flexibility and easy handling

Specification

Annealed bare copper high flexible conductors
Single layer in PVC materials
Double insulation PVC available on special request
ROHS, PAHS, REACH available upon request

Separators

Various, such as paper, polyester film, or polyester.

Standard delivery lengths

Up to 35 mm² in coils of 100m, 50 to 120 mm² in coils of 50 m.
Other lengths available on special request
Longer delivery lengths on drums upon request



COLOR



ALL colors available on special request

SIZE	NO STRANDS	STRAND SIZE	SHEATH THICKNESS	AVERAGE OD		Max. Conductor Resistance at 20°C
				MIN.	MAX.	
mm ²	pcs	mm	mm	mm	mm	Ω/km
10	320	0.20	2.0	7.70	9.70	1.950
16	513	0.20	2.0	8.80	11.00	1.190
25	798	0.20	2.0	10.10	12.70	0.780
35	1115	0.20	2.0	11.40	14.20	0.552
50	1596	0.20	2.2	13.20	16.50	0.390
70	2214	0.20	2.4	15.30	19.20	0.276
95	2997	0.20	2.6	17.10	21.40	0.204
120	612	0.50	2.8	19.20	24.00	0.164

EARTH CLAMPS



EARTH CLAMPS

UWELD®

PROFESSIONAL
WELDING & CUTTING
EQUIPMENT



2W012-0001



AMERICAN(300A/500A)
2W012-0002



AMERICAN TYPE
2W012-0003



HOLLAND TYPE(300A/500A)
2W012-0004



HOLLAND TYPE(300A/500A)
2W012-0005



JAPAN TYPE(300A/500A)
2W012-0006



JAPAN TYPE(300A/500A)
2W012-0007



2W012-0008



AUSTRALIA TYPE(300A/500A)
2W012-0009



2W012-0011
JAPAN TYPE(200A)



AMERICAN TYPE(500A)
2W012-0012



JAPAN TYPE(600A)
2W012-0013



ITALY TYPE(350A)
2W012-0014



AMERICAN TYPE(200A/300A/500A)
2W012-0015

EARTH CLAMPS

Selkirk
Welding
Tools



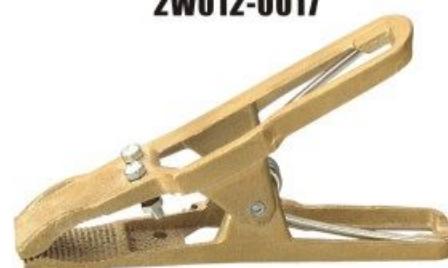
ITALY TYPE(300A/500A/800A)
2W012-0016



JAPAN TYPE(300A/500A)
2W012-0017



ITALY TYPE(500A)
2W012-0018



ITALY TYPE(200A/300/500A)
2W012-0019



2W012-0020



2W012-0021



BARITISH TYPE(600A)
2W012-0022



2W012-0023



2W012-0024



ITALY TYPE(350A)
2W012-0025



BARITISH TYPE(600A)
2W012-0026

EARTH CLAMPS



2W012-0027



2W012-0029



JAPAN TYPE(300A/500A)
2W012-0028



2W012-0030



2W012-0031



2W012-0032



2W012-0033



2W012-0034



ELECTRODE HOLDERS



2W011-0001



2W011-0002

HOLLAND TYPE(300A/500A/600A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



2W011-0003



2W011-0004



2W011-0005



2W011-0006



2W011-0007

JAPAN TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0

JAPAN TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0

AMERICAN TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0

ITALY TYPE(300/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0

GERMANY TYPE(300/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



AMERICAN TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



FRENCH TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



AMERICAN TYPE(300A/500A)

MODEL NO.	CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
EH300A	300~350	50	2.0~5.8
EH500A	450~500	95	3.2~8.0
EH600A	500~600	95	3.2~8.0



EUROPE TYPE(400A/600A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
500~600	95	3.2~8.0



FRENCH TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



KOREA TYPE(300/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



EUROPE TYPE(400A/600A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
500~600	95	3.2~8.0



GERMANY TYPE(300/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



KOREA TYPE(300/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0



AMERICAN TYPE(300A/500A)

CURRENT CAPACITY (A)	CABLE SPECIFICATION (MM ²)	WELDING ROD SPECIFICATION (MM)
300~350	50	2.0~5.8
450~500	95	3.2~8.0
500~600	95	3.2~8.0

ELECTRODE OVEN



TRB-5KB



TRB-10KB



TRB-5K



TRB-10K

ELECTRODE OVEN



TRC-5W/B

TRC-10W/B

TRC-5TC

TRC-10TC

PF-1C

PF-2C

Model	TRC-5W/B	TRC-10W/B	TRC-5TC	TRC-10TC	PF-1C	PF-2C
Electrode Capacity	5KG	10KG	5KG	10KG	5KG	10KG
Input Voltage	AC230V or 110V		AC 230V			
Power	260W/120 W	360W/180 W	260 W	360 W	500W 50-190W	600W 80-240W
Max Temperature	500°C to 150 °C		50°C ± 300 °C		150 °C	
Electrode Length			450 MM			
Inside Size	Ø86 *465H	Ø108 *465H	Ø86 *465H	Ø108 *465H	Ø86 *465H	Ø108 *465H
Overall Size (L*W*H)	145*200*590	210*167*590	165*195*670	190*225*670	130*130*640	170*170*650
Weight	3.9KG	4.3KG	3.2KG	4.1KG	3.8KG	4.8KG



TRB-5E



TRB-10E



TRB-5FB



TRB-10F



PE-1



PE-1W



PE-1/WB



PE-2



PE-2T



PE-2WB

Model	TRB-5KB	TRB-10KB	TRB-5K	TRB-10K	TRB-5E	TRB-10E	TRB-5FB	TRB-10F
Electrode Capacity	5KG	10KG	5KG	10KG	5KG	10KG	5KG	10KG
Input Voltage	AC 230V		AC220V/230V AC.DC60-110V		AC.DC 60V-110V			
Power	500W	600W	500W 50-190W	600W 80-240W	500W 50-190W	600W 80-240W	200W	300W
Max Temperature	500°C to 200 °C		150°C ± 15 °C		50 °C to 150 °C		150 °C	
Electrode Length			450 MM					
Overall Size (L*W*H)	Ø196 *635mm	Ø 230 *646mm	168*188*635	202*232*646	168*188*610	202*232*615	Ø 187 *630H	Ø 230 *620H
Weight	2.9KG	5.1KG	3.2KG	4.3KG	2.9KG	4.2KG	2.4KG	5KG

Model	PE-1	PE-1W	PE-1/WB	PE-2	PE-2T	PE-2WB
Electrode Capacity		5KG			10KG	
Input Voltage			AC 240V AV/DC 60V-110V			
Power		270W/120 W			360W/180 W	
Max Temperature	150 °C		50°C to 150 °C			
Electrode Length			500 MM			
Inside Size	Ø73 *502H			Ø98 *502H		
Overall Size (L*W*H)		168*148*578		190*225*670	130*130*640	170*170*650
Weight	3.9KG	4.3KG		3.2KG	4.1KG	3.8KG

Order No	Name
4P001-0001	Cable Joint 10-25mm ² 35-50mm ² 50-70mm ² 70-95mm ²

Order No	Name
4P001-0002	Cable Joint 10-25mm ² 35-50mm ² 50-70mm ² 70-95mm ²

Order No	Name
4P001-0009	

Order No	Name
4P001-0010	

Order No	Name
4P001-0003	Japan Type Cable Connector 300A 500A

Order No	Name
4P001-0004	American Type Cable Connector 300A 500A

Order No	Name
4P001-0011	

Order No	Name
4P001-0012	

Order No	Name
4P001-0005	American Type Cable Connector 300A 500A

Order No	Name
4P001-0006	Cable Joint 10-25mm ² 35-50mm ² 50-70mm ² 70-95mm ²

Order No	Name
4P001-0013	

Order No	Name
4P001-0014	

Order No	Name
4P001-0007	Japanese Type Cable Connector 300A 500A

Order No	Name
4P001-0008	

Order No	Name
4P007-0007	

Order No	Name
4P007-0008	

**4P007-0001**

Austral Type Cable Lug
 16mm² × 13mm 25mm² × 10mm
 35mm² × 13mm 50mm² × 13mm
 70mm² × 13mm 95mm² × 13mm

4P007-0002
 Easy Fit Lug
 35,50mm

4P007-0003
 Re-Usable Lugs
 25mm², 35mm², 50mm²

**4P007-0004**

Cable Lug
 300A,400A,500A,600A

Precision made from copper.
 Extra long barrel for easy soldering or attaching by "Crimpler"
 for best possible connection
 Easy to use--flared-end for easy cable access.

4P007-0005

Hammer On-Lug
 70mm² 90mm²

4P007-0006

Cable Lug
 200A,300A,400A,500A

Cable Capacity	Amperage	Stud Hole	I.D. of Socket
6-8 (8-10 mm ²)	75	21/64"(8.3 mm)	10/32"(8.0 mm)
4-6 (10-16 mm ²)	100	21/64"(8.3 mm)	11/32"(8.5 mm)
6-2 (10-25 mm ²)	150	17/32"(13.5 mm)	1/2"(13 mm)
1-2/0 (35-70 mm ²)	200	17/32"(13.5 mm)	35/64"(14 mm)
3/0 - 4/0 (95-105mm ²)	250	17/32"(13.5 mm)	5/8"(16 mm)

**2W015-0001**

Dimensions (mm)			Dead Weight (kg)
A	B	C	
180	210	55	3
220	270	90	7.3

2W015-0002**2W015-0003**

ARROW MAGNETIC WELDING HOLDER
 Description:45,90,135 Description:45,90,135
 Specifications: 3" Specifications: 4"
 Pull Force: 25lbs Pull Force: 50lbs
 Description:45,90,135
 Specifications: 5"
 Pull Force: 75lbs

WELDERS MAGNET WITH ON/OFF SWITCH
 Description:45° X90° X135° Description:45° X90° X135°
 Specifications: 3-3/4"x3-3/4"x 1" Specifications:5"x5"x 1-1/2"
 Pull Force:30 lbs Pull Force:55 lbs

**2W015-0005**

MAGNETIC WELDING HOLDERS
 Description:30,45,60,75,90,135 Description:30,45,60,75,90,135
 Specifications:3-3/4x2-1/2" Specifications:4-1/4x3-1/2"
 Pull Force:25lbs Pull Force:50lb

 Description:30,45,60,75,90,135
 Specifications:5-1/2"x4-1/4"
 Pull Force:75lb



ARROW MAGNETIC WELDING HOLDERS
 Description:45,90,135
 Specifications:6"x5-1/8"x1-1/2"
 Pull Force:45lbs



2W015-0007

PRODUCT DESCRIPTION

In welding work, when we want to welding two plate, we always meet the trouble that they are not in horizontal plane. This equipment can solve this problem very well.



2W015-0009

6PCS MINI MULTI-PURPOSE WELDING TOOL KIT

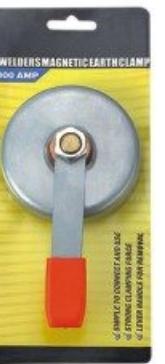
2pcs Mini Magnetic Welding Holders
1pcs Mini Magnetic Weld Ground
3pcs Mini Locking Welding Clamps



2W015-0008

PRODUCT DESCRIPTION

When you want to weld a strip on a plate, there usually be some troubles, and this equipment can help you do the job easily. It contain of two magnetic holders with 90 degree switch and a screw.



2W015-0010

MAGNETIC WELD GROUND

Will ground welder for even the smallest jobs
Perfect for pipes and other pieces grounding clamps

Polschweiss-magnet 200A/500A
Specifications: 2¹/4"
Magnetic pull: 16 lbs/ 65 1bs



2W015-0011

WELDERS MAGNET WITH ON/OFF SWITCH

Description: 45° X 90°
Specifications: 4-3/8" x 3-3/4" x 1"
Pull Force: 30 lbs
Description: 45° X 90°
Specifications: 6" x 5-1/8" x 1-1/2"
Pull Force: 55 lbs



2W015-0012

MAGNETIC MIG TORCH REST

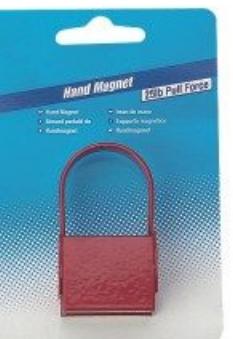
Powerful 2-3/4" magnet clamps to your workbench or the side of your welder.
Keeps your MIG torch secure when not in use.
Works in vertical or horizontal positions
Durable enamel finish with zinc coated base



2W015-0013

ADJUSTABLE ANGLE WELDING MAGNET

Description: swivel Arms Hold Objects At Almost Any Angle
Magnet Swivels A Full 360°
Specifications: 2-1/2"X 3-3/8"Ceramic Magnets
Pull Force: Each Magnet Holds Up To 50 Lbs.



2W015-0015

POWERFUL HANDLE MAGNETS

Handle magnets clean up scattered iron objects, including screws, nuts and bolts. Can be used to lift heavy metal objects, such as shelving, beams and doors. These handle magnets lift up to 100 times their own weight.

Handle magnet lifts up to 25 lbs
Handle magnet lifts up to 100 lbs.
Handle magnet lifts up to 225 lbs

Handle magnet lifts up to 50 lbs
Handle magnet lifts up to 150 lbs



2W015-0016

AMP	Welding Cable Sizes (mm)	Max aperture (mm)	Connection	Weight (kg)
530A	95	64	M10	1.1



2W015-0017

Angle	Sizes(mm)	Suction(mm)	G.W(kg)
0*45*90	100*405*23	23	0.9

MAGNETIC HOLDER



2W015-0018

2" Magnetic Weld Ground

Will ground welder for even the smallest jobs
Perfect for pipes and other pieces grounding
clamps won't fit around
Polschweiss-magnet 200A
Magnetic pull: 16 lbs

Magnetic hooks
25lbs.pull strength
40lbs.pull strength
ITEM NO.:MGC/A-3.5
SIZE:3.5"DIA
PULL FORCE:110 LBS



2W015-0019

Position Angle	Sizes(mm)	Suction(mm)	G.W(kg)
90	198*198*48	68*2	2.7
90	150*150*40	50*2	1.2



2W015-0020

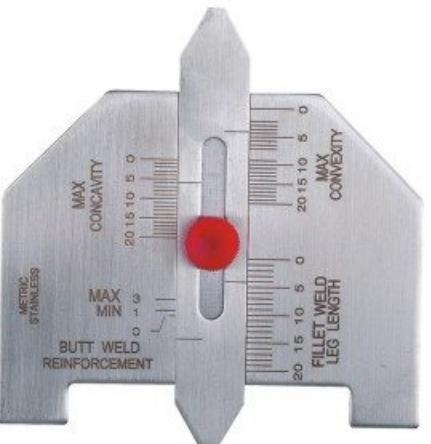
Sizes(mm)	Suction(mm)	G.W(kg)
114*190*38	40	2.4



2W015-0021

Description	Flexible Hose Length (mm)	Prestige Per Cupula (mm)	G.W(kg)
30-275	480	6	0.5
1Cupula,1 Clamp	480	6	0.5
2Cupula,1 Clamp	480	6	0.7

WELDING GAGE



2W014-0001



AUTOMATIC WELD SIZE GAGE

- To determine the size of a fillet weld
- To check the permissible tolerance of convexity
- To check the permissible tolerance of concavity and underfill
- To check the permissible tolerance of reinforcement

2W014-0002



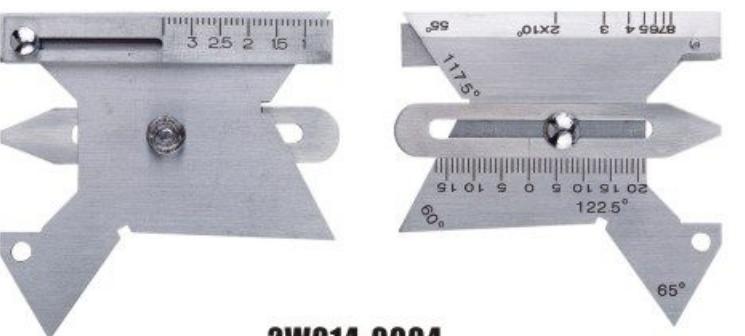
45 Type

- Measurement plate thickness
- Measurement the height of butt weld bead
- Measurement the fillet weld bead height
- Measurement weldment groove angle
- Measurement weldment gap

2W014-0003

THE WELDING GAGE 30

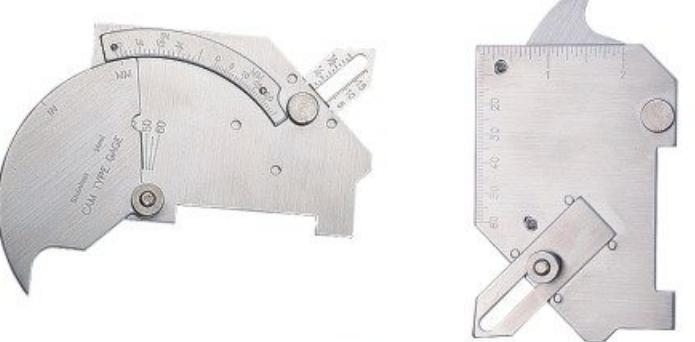
- Measures width
- Measures height
- Measures leg width of fillet weld
- Measures movable groove angle
- Measures one side groove angle
- Measures groove angle
- Measures gap



2W014-0004

MG-8 CAM TYPE WELD GAGE

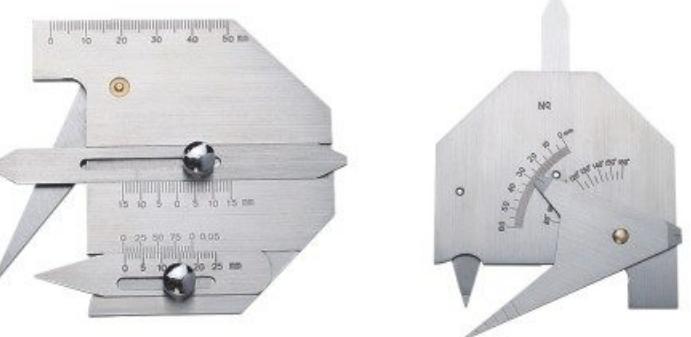
- Measures depth of undercut
- Measures excess weld(capping size)
- Measures fillet length
- Measures fillet throat size
- Measures angle of preparation(0° to 60°)
- Measures misalignment(high-low)



2W014-0005

THE WELDING GAGE 40

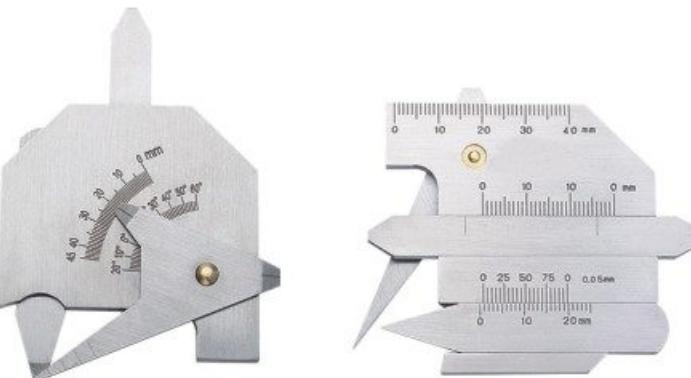
- Measurement of height of flat weld
- Measurement of thickness of fillet weld
- Measurement of width of weld seam
- Measurement bevel angle of weldment
- Measurement of undercut depth of weld seam
- Measurement of gap size



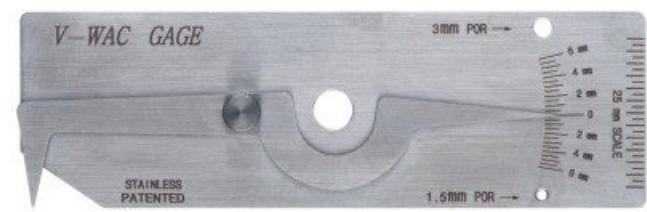
2W014-0006

THE WELDING GAGE 45B

- Measurement of height of flat weld
- Measurement of thickness of fillet weld
- Measurement of width of weld seam
- Measurement bevel angle of weldment
- Measurement of undercut depth of weld seam
- Measurement of gap size



2W014-0007



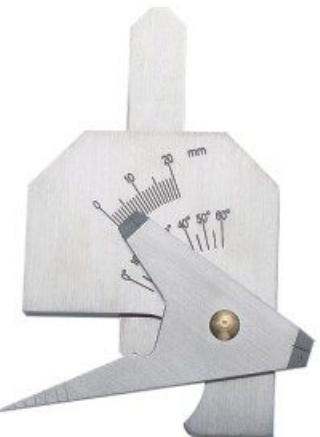
2W014-0008



2W014-0009



2W014-0010



2W014-0011

V-WACTM GAGE

- Checks undercut depth
- Checks amount of porosity per linear inch
- Checks porosity comparison
- Checks crown height

WELDING GAGE

- 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

MG-11 CAM TYPE WELD GAGE

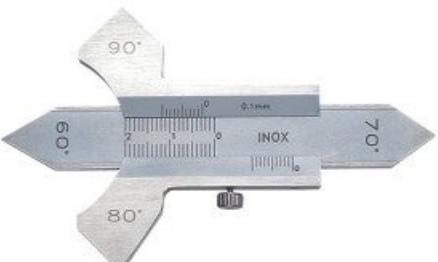
- Concave weld
- Convex weld

WELDING INSPECTION RULER 40B

- Measurement plate thickness
- Measurement the height of butt weld bead
- Measurement the fillet weld bead height
- Measurement weldment groove angle
- Measurement weldment gap

**2W014-0012****DIGITAL WELDING GAGE****2W014-0013****ECONOMY SINGLE PURPOSE WELDING GAGE**

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

**2W014-0014****WELDED JOINT GAGE****2W014-0015**

- Checks plate fit-up
- Checks flang fit-up

**2W014-0016**
FAN-SHAPED TYPE WELDING GAGE**4P009-0001****4P009-0002****4P009-0003****4P009-0004****Cup Brushes, Knotted**

D	Mm/inch	M	B	T	RPM max.
65	2-1/2"	10×1.5 10×1.25 14×2 5/8"-11nc	22.2	—	—
75	3"	10×1.5 10×1.25 14×2 5/8"-11nc	22.2	20	12500
100	4"	14×2 5/8"-11nc	22.2	22	11000
125	5"	14×2 5/8"-11nc	22.2	25	7000

D	Mm/inch	M(mm)	B(mm)	T(mm)	RPM max.
65	2-1/2"	10×1.5 10×1.25 14×2 5/8"-11nc	—	24	12500
75	3"	10×1.5 10×1.25 14×2 5/8"-11nc	—	20	12500
100	4"	14×2 5/8"-11nc	22.2	20	8500
125	5"	14×2 5/8"-11nc	22.2	25	6500
150	6"	14×2 16×2 5/8"-11nc	22.2	25	4500

**Cup Brush
Used For Removing Stain,rust,paint Etc.**

D	M(mm)	B(mm)	T(mm)	RPM max.
65/2-1/2"	10×1.25 10×1.5 5/8"-11NC	22.2	24	12500
75/3"	10×1.25 10×1.5 14×2 5/8"-11NC	22.2	25	12500
100/4"	14×2 16×2 5/8"-11nc	22.2	30	8500
125/5"	14×2 16×2 5/8"-11nc	22.2	33	6500
150/6"	14×2 16×2 5/8"-11nc	22.2	33	4500

D	Mm/inch	W	T	H	RPM max.
50	2"1-1/2"	6	10	8	4500
65	2-1/2"	6	17	10	4500
75	3"	6	17	10	4500
100	4"	6	24	13	4500

**4P009-0005**

D(mm/inch)	W(mm)	T(mm)	Rpm.max
50/2"	6	15	4500
65/2-1/2"	6	20	4500
75/3"	6	20	4500

**4P009-0006**

D(mm/inch)	W(mm)	T(mm)	H(mm)	Rpm.max
40/1-3/5"	6	10	8	4500
50/2"	6	10	8	4500
65/2-1/2"	6	15	8	4500
75/3"	6	15	10	4500
100/4"	6	23	13	4500

**4P009-0007**

D(mm/inch)	B(mm)	T(mm)	H(mm)	RPM max
75/3"	1.2"	15	10	4500
100/4"	1/2"5/8"	23	12	4500
125/5"	1/2"5/8"	29	18	4500
150/6"	1/2"5/8"	33	20	3750
200/8"	1/2"5/8"	42	22	3750

**4P009-0008**
Bevel Brush

Mm/inch	M	B	T	RPM max
4"	14×2 5/8"-11nc	22.2	24	4500
4-1/2"	14×2 5/8"-11nc	22.2	24	4500
5"	14×2 5/8"-11nc	22.2	24	4500

**4P009-0009**
Wheel Brush, Knotted

D	Mm/inch	B	T	RPM max
100	4"	1622.2	22	11000
125	5"	1622.2	23	11000
150	6"	1622.2	34	9000
175	7"	1622.2		9000
200	8"	1622.2	42	9000

**4P009-0010****4P009-0011****4P009-0012**

Steel Wire Brush With Wooden Handle

SPEC.	Material	Wire D m/m	Length L mm
2ROW	Zinc coated		
3ROW	Copper coated		
4ROW	Carbon		
5ROW	Brass	0.3-0.35	290
6ROW	Stainless		
/	p.p.		

SPEC	Material	Wire D m/m	Length L mm
3ROW	Zinc coated		
	Copper coated		
	Carbon		
	Brass	0.3-0.35	350
4ROW	Stainless		
/	p.p.		

SPEC	Material	Wire D m/m	Length L mm
2ROW	Zinc coated		
3ROW	Copper coated		
4ROW	Carbon		
5ROW	Brass	0.3-0.35	290
6ROW	Stainless		
/	p.p.		

**4P10-0001****Depressed Center Cutting Wheel**

Specification(D×T×H)	Max Speed(R.P.M)
4×1/8×5/8	100×3×16
4 1/2×1/8×7/8	115×3×22
5×1/8×7/8	125×3×22
6×1/8×7/8	150×3×22
7×1/8×7/8	180×3×22
9×1/8×7/8	230×3×22
	15200
	13300
	12200
	10200
	8500
	6640



4P010-0002

Flat Type Cutting Wheel

Wheel Size(D×T×H) (inch)	Max. Speed (R.P.M.)	Outer packing (Kg)	Carton Size(cm) (L×W×H)
(mm)	(R.P.M.)	(pcs/1ctn)	(L×W×H)
4×3/32×5/8	15200	19	400 41×21×16
4 1/2×3/32×7/8	115×2.5×22	22	400 47×24×14.5
4 1/2×1/8×7/8	115×3×22	28	400 47×24×17.5
5×3/32×7/8	125×2.5×22	14	200 26×26×14.5
5×1/8×7/8	125×3×22	18	200 26×26×17
6×3/32×7/8	150×2.5×22	21	200 31×31×14.5
6×1/8×7/8	150×3×22	26	200 31×31×18
7×3/32×7/8	180×2.5×22	15	100 37×19×15
7×1/8×7/8	180×3×22	19	100 37×19×18.5
9×3/32×7/8	230×2.5×22	24	100 47×24×15
9×1/8×7/8	230×3×22	30	100 47×24×18.5



4P010-0003

Super Thin Cutting Disc

Wheel Size(D×T×H) (inch)	Max. Speed (R.P.M.)	Outer packing (Kg)	Carton Size(cm) (L×W×H)
(mm)	(R.P.M.)	(pcs/1ctn)	(L×W×H)
3×1/16×3/8	20300	17	1000 40×22×17
4×1/25×5/8	105×1.0×16	20	800 45×23×18
4×1/16×5/8	100×1.6×16	15200	600 31×21×22.5
4×5/64×5/8	100×2×16	25	600 31×21×25
4 1/2×1/25×7/8	115×1.0×22	13300	400 24×24×20
4 1/2×1/16×7/8	115×1.6×22	17	400 24×24×22.5/25
5×3/64×7/8	125×1.2×22	12200	400 26×26×20
5×1/16×7/8	125×1.6×22	23	400 26×26×22.5
6×1/16×7/8	150×1.8×22	10200	32 400 31×31×22.5
7×5/64×7/8	180×1.8×22	8500	10 100 37×19×13
9×5/64×7/8	230×1.8×22	6650	19 100 47×24×13
9×1/12×7/8	230×2×22	20	100 47×24×13.5



4P010-0004

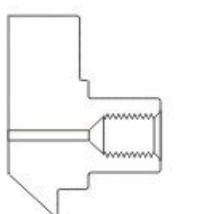
Grinding Wheel Reinforced Style

Wheel Size(D×T×H) (inch)	Max. Speed (R.P.M.)	Outer packing (Kg)	Carton Size(cm) (L×W×H)
(mm)	(R.P.M.)	(pcs/1ctn)	(L×W×H)
4×1/4×5/8	15200	24	200 41×22×22
4 1/2×1/4×7/8	115×6×22	31	200 41×25×25
4 1/2×2/5×16×7/8	115×8×22	17	80 41×25×13
5×1/4×7/8	125×6×22	12200	100 41×27×14
5×5/16×7/8	125×8×22	18	80 41×27×14
6×1/4×7/8	150×6×22	10200	100 41×32×17
7×5/32×7/8	180×4×22	25	100 38×31×20
7×1/4×7/8	180×6×22	8500	100 41×38×19.5
7×5/16×7/8	180×8×22	20	40 41×20×20
9×1/4×7/8	230×6×22	6640	50 41×25×25
9×5/16×7/8	230×8×22	32	40 41×25×13

CGA Connection Standards

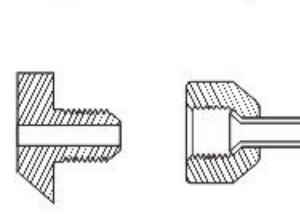
CGA 110

.3125-32UNEF-2B-RH-INT



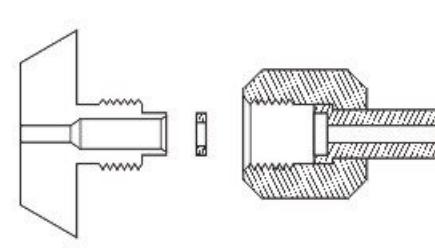
CGA 165

.4375-20UNF-2A-RH-EXT (1/4" SAE Flare)



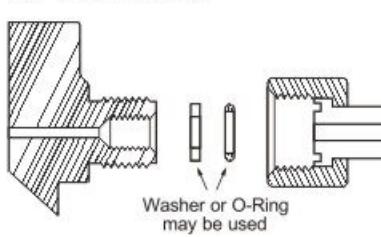
CGA 170

.5625-18UNF-2A-RH-EXT



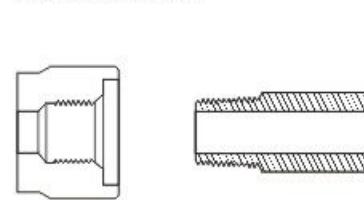
CGA 180

.625-18UNF-2A-RH-EXT



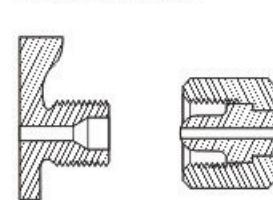
CGA 240

.375-18NGT-RH-INT



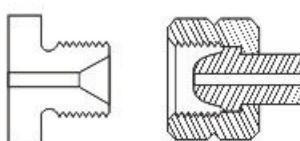
CGA 280

.745-14NGO-RH-EXT



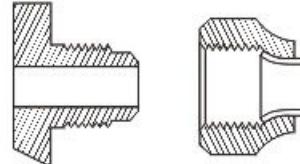
CGA 290

.745-14NGO-LH-EXT



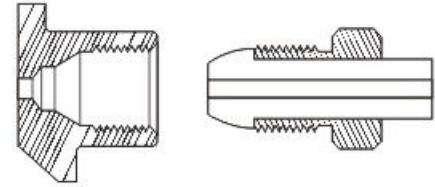
CGA 295

.750-16UNF-2A-RH-EXT (1/2" SAE Flare)



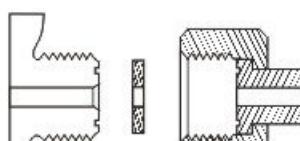
CGA 296

.803-14UNS-2B-RH-INT



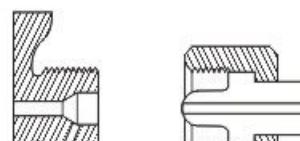
CGA 320

.825-14NGO-RH-EXT (Flat Nipple)



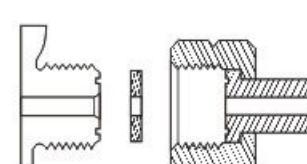
CGA 326

.825-14NGO-RH-EXT (Small Round Nipple)



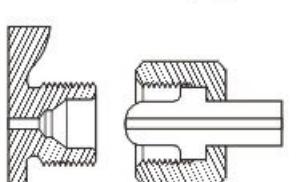
CGA 330

.825-14NGO-LH-EXT (Flat Nipple)



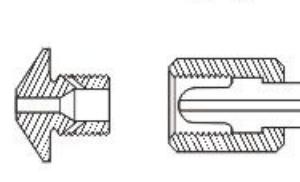
CGA 346

.825-14NGO-RH-EXT (Large Round Nipple)



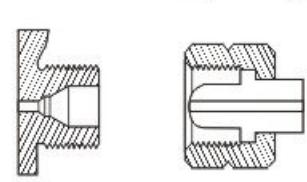
CGA 347

.825-14NGO-RH-EXT (Long Round Nipple)



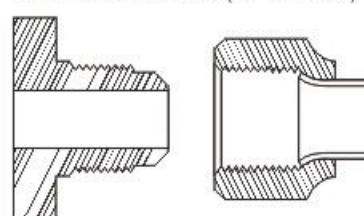
CGA 350

.825-14NGO-LH-EXT (Round Nipple)

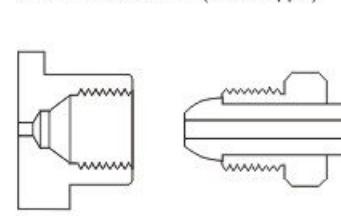


CGA Connections

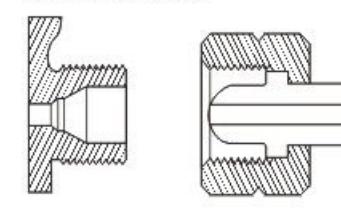
CGA 440
.875-14UNF-2A-RH-EXT (5/8" SAE Flare)



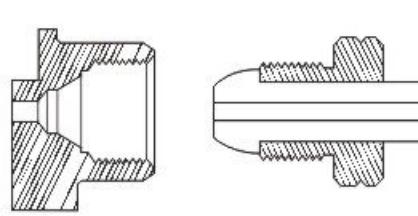
CGA 500
.885-14NGO-RH-INT (Bullet Nipple)



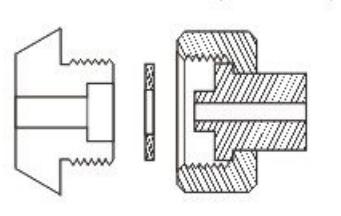
CGA 555
.903-14NGO-LH-EXT



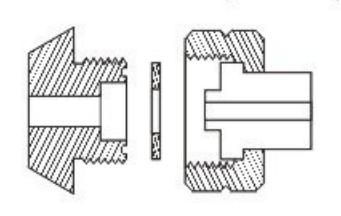
CGA 590
.965-14NGO-LH-INT



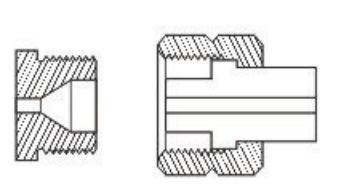
CGA 660
1.030-14NGO-RH-EXT (Face Washer)



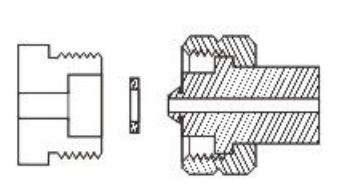
CGA 670
1.030-14NGO-LH-EXT (Face Washer)



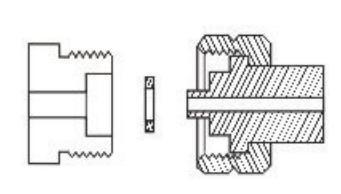
CGA 677
1.030-14NGO-LH-EXT (Round Nipple)



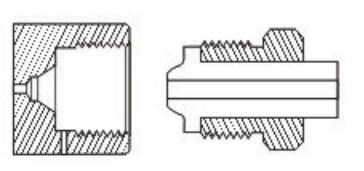
CGA 678
1.030-14NGO-LH-EXT (Recessed Washer)



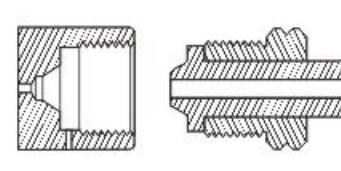
CGA 679
1.030-14NGO-LH-EXT (Tipped Nipple)



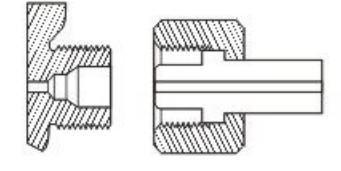
CGA 680
1.045-14NGO-RH-INT



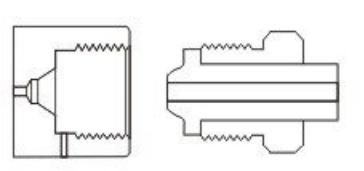
CGA 695
1.045-14NGO-LH-INT



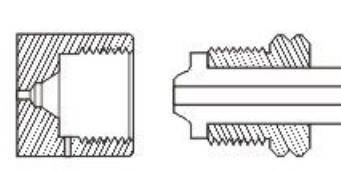
CGA 701
1.103-14NGO-RH-EXT



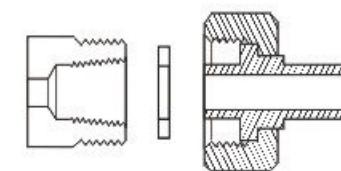
CGA 702
1.125-14NGO-RH-INT



CGA 703
1.125-14NGO-LH-INT



CGA 705
1.125-14UNS-2A-RH-EXT



CGA Connections

