

PRODUCT CATALOG

21 MAY 2024



Ace Weld Sdn. Bhd.

966334-H





Ace Weld Sdn. Bhd.

966334-H



Incorporated in November 2011, Ace Weld Sdn Bhd is a specialist in Welding equipment, accessories and consumables. We have since grown and now comprise of three offices, located in Puchong and Juru.

Ace Weld was established to cater to the dealers' network and since inception, now boasts a comprehensive range for over 100 dealers nationwide. In addition to our range of welding products, Ace Weld offers other services such as customizable items and OEM production for bulk orders. Our technical service and support teams are also readily available should you require additional assistance. Apart from our range of products and services, we carry the Ace Weld brand, an economical range of welding products.

Here Ace Weld, we are constantly adapting and improving our products and services in view of the growing market landscape, giving us the ability to provide comprehensive solutions to suit our customers' ever changing business needs.

ACE WELD
YOUR PARTNER IN WELDING

RIL TECH
Technologies Beyond Boundaries

RILAND

Markal

TASETO

**POWER
WELD**

NICHIA
WELDING ELECTRODES

BlueMetals



金橋焊材
GOLDEN BRIDGE
WELDING MATERIALS

Selectarc

Oxford
ALLOYS, Inc.

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Product Name	Packing	Product Description
Ace Weld Carbon Dioxide Fin Type Regulator	10 PCS	<ul style="list-style-type: none"> - Designed for co2 application (non-siphoned tube cylinder) - High flow CO2 applications (SR310 100 psig) (SR 311/312 100 SFCH) with adequate supply or source - Designed for core wire applications - Machined aluminum body & housing cap - 2in (50.8mm) gauge - Stem type seat mechanism - 1.75" (44.5mm) diaphragm



Product Name	Packing	Product Description
Ace Weld Argon Regulator with flowmeter (Diaphragm)	10 PCS	<ul style="list-style-type: none"> - Argon Gas - Flow, 0-25

Product Name	Packing	Product Description
Ace Weld CO2 Regulator with flowmeter (Diaphragm)	10 PCS	<ul style="list-style-type: none"> - Carbon Dioxide Gas - Flow Rate, 0-25 Lit/Min



Product Name	Packing	Product Description
Ace Weld Argon Regulator with Flowmeter (Piston)	10 PCS	<ul style="list-style-type: none"> - Argon Gas Type - Preset Pressure, 25PSI - Max Inlet Pressure, 450PSI

Product Name	Packing	Product Description
Ace Weld CO2 Regulator with Flowmeter (Piston)	10 PCS	<ul style="list-style-type: none"> - Carbon Dioxide Gas Type - Preset Pressure, 25 PSI - Max Inlet Pressure, 3500 PSI



Product Name	Packing	Product Description
Ace Weld Edge Oxygen Regulator	10 PCS	

Product Name	Packing	Product Description
Ace Weld Acetylene Regulator	10 PCS	



Product Name	Packing	Product Description
Ace Weld Oxygen Regulator	12 PCS	<ul style="list-style-type: none"> - Gas Flow Lit/Min, 35 - Max Delivery Pressure, 10BAR/145PSI - Cylinder Pressure, 315BAR/4500PSI

Product Name	Packing	Product Description
Ace Weld Acetylene Regulator	12 PCS	<ul style="list-style-type: none"> - Gas Flow Lit/Min, 6 - Max Delivery Pressure 1.5BAR/20PSI - Cylinder Pressure, 315BAR/4500PSI



Product Name	Packing	Product Description
Ace Weld Professional Full Copper Oxygen Regulator	12 PCS	<ul style="list-style-type: none"> - Gas Flow Lit/Min, 35 - Max Delivery Pressure, 10BAR/145PSI - Cylinder Pressure, 315BAR/4500PSI



Product Name	Packing	Product Description
Ace Weld Professional Full Copper Acetylene Regulator	12 PCS	<ul style="list-style-type: none"> - Gas Flow Lit/Min, 6 - Max Delivery Pressure 2BAR/350PSI - Cylinder Pressure, 315BAR/4500PSI



Product Name	Packing	Product Description
Ace Weld Oxygen Regulator Y Series	12 PCS	<ul style="list-style-type: none"> - Gas Flow Lit/Min, 35 - Max Delivery Pressure, 10BAR/145PSI - Cylinder Pressure, 315BAR/4500PSI

Product Name	Packing	Product Description
Ace Weld Acetylene Regulator Y Series	12 PCS	<ul style="list-style-type: none"> - Gas Flow Lit/Min, 6 - Max Delivery Pressure 1.5BAR/20PSI - Cylinder Pressure, 315BAR/4500PSI



Product Name	Packing	Product Description
Ace Weld Nitrogen Regulator	12 PCS	<ul style="list-style-type: none"> - Nitrogen Gas - Flow Liter/min 35 - Max. Delivery Pressure 10 Bar/145PSI - Cylinder Pressure 315BAR/4500PSI



Product Name	Packing	Product Description
Ace Weld CO2 Heater Regulator C/W Flowmeter 36V	8 PCS	<ul style="list-style-type: none"> - Carbon Dioxide Gas - Flow Lt/min 0-25

Product Name	Packing	Product Description
Ace Weld CO2 Heater Regulator C/W Flowmeter 110V	8 PCS	<ul style="list-style-type: none"> - Carbon Dioxide Gas - Flow Lt/min 0-25

Product Name	Packing	Product Description
Ace Weld CO2 Heater Regulator C/W Flowmeter 220V	8 PCS	<ul style="list-style-type: none"> - Carbon Dioxide Gas - Flow Lt/min 0-25



Product Name	Packing	Product Description
LPG/Propane Regulator Industrial Type	6 PCS	<ul style="list-style-type: none"> - FlowM³/hr: 11 - Max. Delivery Pressure 1.4BAR/20PSI - Cylinder Pressure 25bar/375PSI

Product Name	Packing	Product Description
LPG/Propane Regulator Household Type	6 PCS	<ul style="list-style-type: none"> - FlowM³/hr: 11 - Max. Delivery Pressure: 1.4BAR/20PSI - Cylinder Pressure: 25bar/375PSI



Product Name	Packing	Product Description
Ace Weld – Oxygen Check Valve	1 PC	Model Type: BSP 3/8 RH Oxygen (Blue label) Gas Type: Oxygen Max Pressure: 15bar / 210psi

Product Name	Packing	Product Description
Ace Weld – Acetylene Check Valve	1 PC	Model Type: BSP 3/8 RH Oxygen (Blue label) Gas Type: Acetylene Max Pressure: 15bar / 210psi



Product Name	Packing	Product Description
Ace Weld Flashback Arrestor - Oxygen (Torch Side)	1 PC	Model Type: Oxygen Flashback Arrestor (Blue label) Gas Type: Oxygen Max Pressure: 10bar / 150psi

Product Name	Packing	Product Description
Ace Weld Flashback Arrestor - Acetylene (Torch Side)	1 PC	Model Type: Acetylene Flashback Arrestor (Red Label) Gas Type : Acetylene / Max Pressure : 1bar / 150psi Gas Type : Fuel Gases / Max Pressure : 5bar / 75psi



Product Name	Packing	Product Description
Ace Weld Flashback Arrestor - Oxygen (Regulator End)	1 PC	Model Type: Oxygen Flashback Arrestor (Blue label) Gas Type: Oxygen Max Pressure: 10bar / 150psi

Product Name	Packing	Product Description
Ace Weld Flashback Arrestor - Acetylene (Regulator End)	1 PC	Model Type: Acetylene Flashback Arrestor (Red Label) Gas Type : Acetylene / Max Pressure : 1bar / 150psi Gas Type : Fuel Gases / Max Pressure : 5bar / 75psi



Product Name	Packing	Product Description
Ace Weld Cutting Torch (Heavy Duty)	10 PCS	<ul style="list-style-type: none"> - Capacity: Cutting up to 250MM (10") - Suitable for both Acetylene and Propane service - Capacity: cutting from 1/8" (3.2MM) to 8" (203.2MM) - Stainless Steel Tubes for greater strength & durability - Hose connection BSP 3/8", and other thread sizes available

Product Name	Packing	Product Description
Ace Weld Cutting Torch (Medium Duty)	10 PCS	<ul style="list-style-type: none"> - Cutting Thickness (mm) : 200 - Acetylene/Propane - Cutting Tip : AN series / PN series



Product Name	Packing	Product Description
LPG Heating Torch	1 PC	<ul style="list-style-type: none"> - Soldering, brazing, annealing, straightening and bending plates, pipes and bars - Pre-heating in welding jobs, drying moulds, thawing jobs, asphalt wore, etc. - Torch Connection: 3/8 " BSP - Torch Length 500mm

Nozzle Size	Head Size (mm)	Propane Pressure (kg/cm2)
S	25.4	0.3
M	38.1	0.4
L	50.8	0.5



Product Name	Packing	Product Description
7502 "S" Type Welding Torch	1 PC	<ul style="list-style-type: none"> - A Light Duty Welding Torch, design for minor repair jobs. - Welding Capacity: 0.5mm- 3.2mm (1/64"- 1/8") - Torch connection thread size: 3/8" BSP

SIZE	ORIFICE	WELDING RANGE (MM)	OXYGEN PRESSURE	ACETYLENE PRESSURE
25	0.7	0.5-1.0	1.5	0.2-0.5
50	0.8	1.0-1.5	1.5	0.2-0.5
75	0.9	1.5-1.8	2.0	0.2-0.5
100	1.0	1.8-2.2	2.0	0.2-0.5
125	1.1	2.2-2.8	2.5	0.2-0.5
150	1.2	2.8-3.2	2.5	0.2-0.5

Cutting Nozzle	Size	Packing
ANME (Oxygen + Acetylene)	1/16	50 PCS
	1/8	
	1/32	
	3/32	
	3/64	
	5/64	
PNME (Oxygen + LPG)	1/16 9L	50 PCS
	1/32 9L	
	1/8 9L	
	3/64 9L	
	5/64 9L	
	1/16 18L	
	1/32 18L	
Nozzle Tip Cleaner		25 PCS

Cutting

Nozzle Type ANE/ANME using 6.3mm x 10m fitted hose with resettable flashback arrestors - all in new condition.

Mild Steel Plate Thickness mm in		Nozzle Size	Operation Pressure				Gas Consumption					
			Oxygen ber lb/ft ²	Fuel ber lb/ft ²	Gas lb/ft ²	Cutting Oxy L/M ft ³ /H	Heat Oxy L/M ft ³ /H	Fuel L/M ft ³ /H				
6	1/4	1/32	1.4	20	.3	4	14.15	30	8.5	18	8	17
13	1/2	3/64	2.1	30	.35	5	30.7	65	10.4	22	9.4	20
25	1	*1/16	2.8	40	.4	6	67.5	143	13.2	28	11.8	25
50	2	*1/16	3.1	45	.4	6	78.5	166	13.2	28	11.8	25
75	3	*1/16	3.5	50	.4	6	88.7	188	13.2	28	11.8	25
100	4	*5/64	3.1	45	31	4.5	121	256	14.6	31	13.2	28
150	6	*3/32	3.1	45	.4	6	175	370	20	43	18.4	39
200	8	*1/8	4.1	60	.45	6.5	283	600	26	55	23.5	50
250	10	*1/8	4.8	70	.45	6.5	377	800	26	55	23.5	50
300	12	*1/8	6.2	90	.45	6.5	434	920	26	55	23.5	50

L/M=Litres per min.

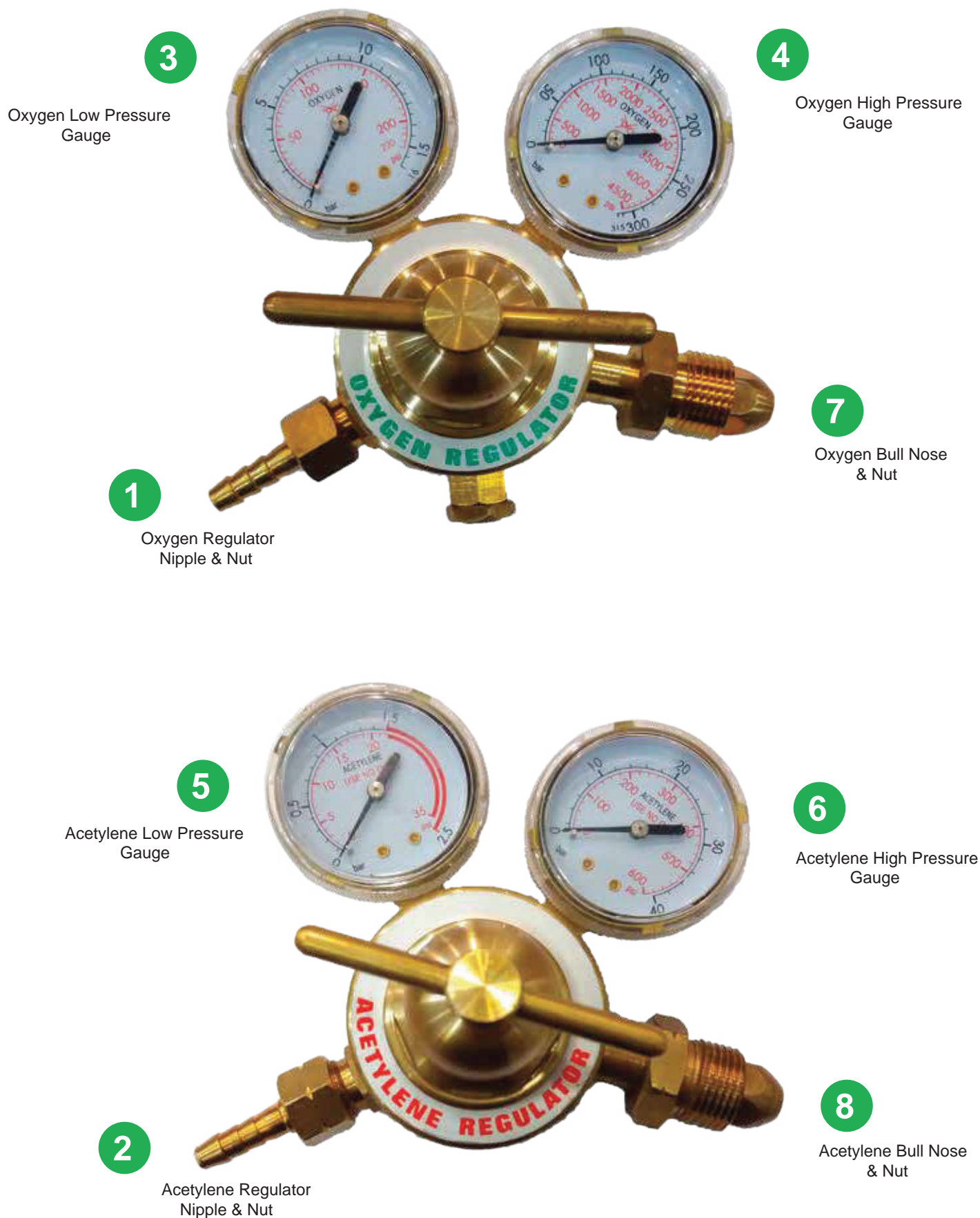
Nozzle Type PNE/PNME using 6.3mm x 10m fitted hose with resettable flashback arrestors - all in new condition.

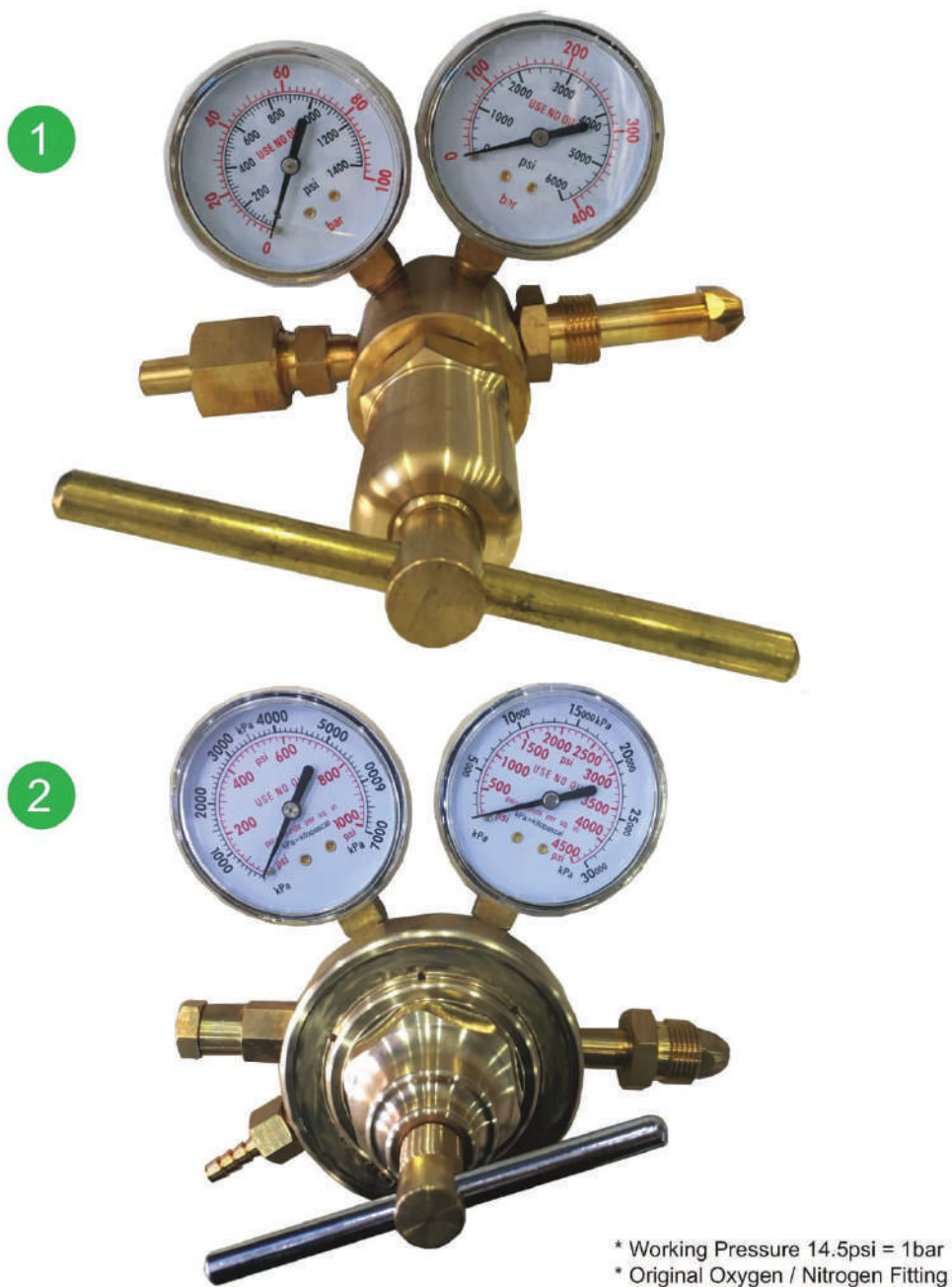
Adjustable handback torches — an in-flow condition												
Mild Steel Plate Thickness mm in		Nozzle Size	Operation Pressure				Gas Consumption					
			Oxygen ber	lb/ft. ²	Fuel ber	Gas lb/ft. ²	Cutting Oxy L/M ft. ³ /H		Heat Oxy L/M ft. ³ /H		Fuel L/M ft. ³ /H	
6	1/4	1/32	2	30	.2	3	14.15	30	22.6	48	5.7	12
13	1/2	3/64	2	30	.2	3	30.6	65	25.5	54	6.6	14
25	1	*1/16	2.8	40	.2	3	70.8	150	37.7	80	9.4	20
50	2	*1/16	3.1	45	.2	3	80.2	170	41.5	88	10.4	22
75	3	*1/16	3.4	50	.3	4	99	210	41.5	88	10.4	22
100	4	*5/64	3.4	50	.3	4	113	240	41.5	88	10.4	22
150	6	*3/32	4.1	60	.4	6	160	340	56.6	120	14.2	30
200	8	*1/8	4.8	70	.4	6	245	520	66	140	16.5	35
250	10	*1/8	5.5	80	.55	8	330	700	75	160	18.9	40
300	12	*1/8	6.2	90	.62	9	425	900	75	160	18.9	40

L/M=Litres per min.

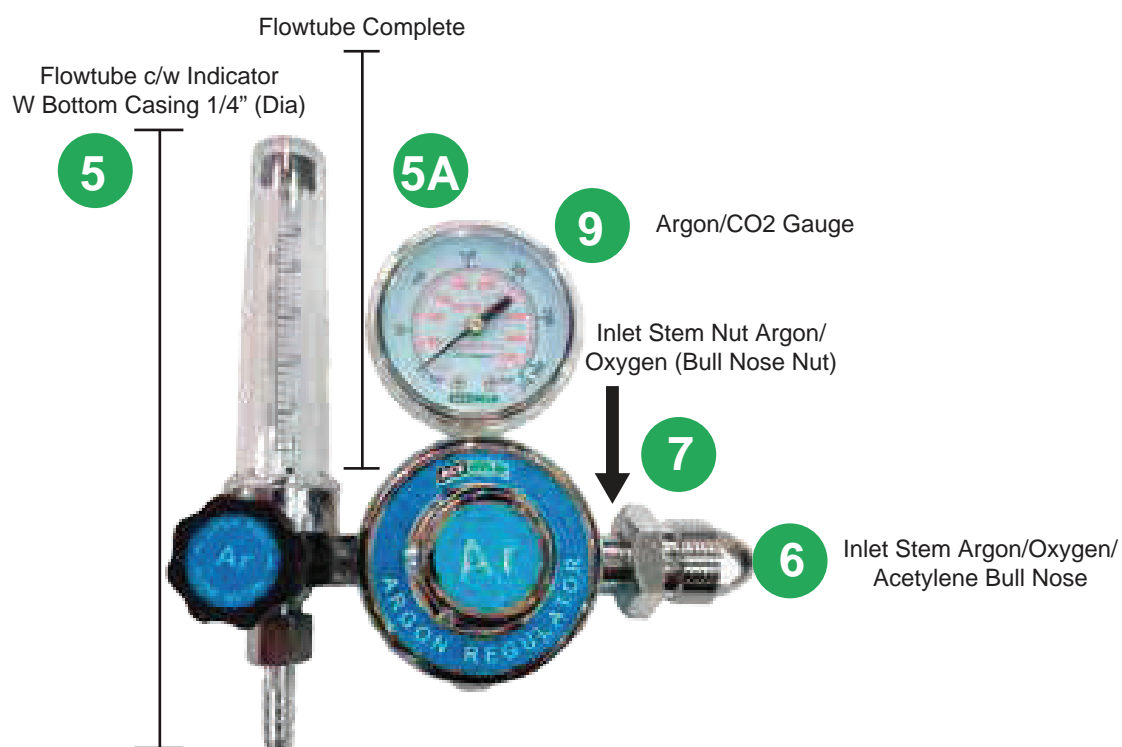
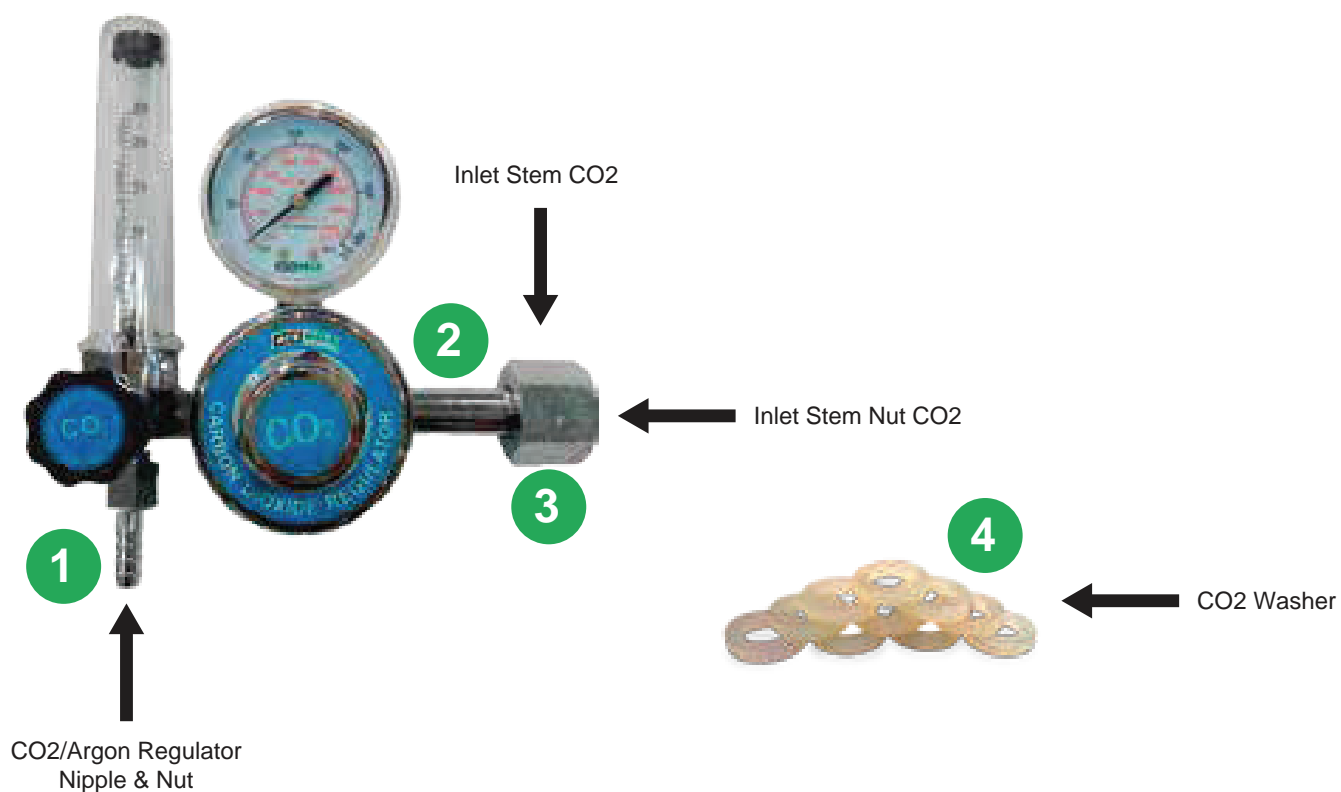


REGULATOR PARTS





PRODUCT CODE	DESCRIPTION	PRICE (RM)
TZAW6600003	High Pressure Regulator 1000psi	
TZAW6600014	High Pressure Regulator 450psi	





Product Name	Packing	Product Description
AW Earth Clamp 300AMP		
AW Earth Clamp 500AMP		



Product Name	Packing	Product Description
AW Electrode Holder 300AMP	25 PCS/BOX	
AW Electrode Holder 500AMP	25 PCS/BOX	
AW Electrode Holder 600AMP	25 PCS/BOX	



Product Name	Packing	Product Description
Dinse Connector 200AMPS 10/25 (MALE)	20 PCS/BOX	
Dinse Connector 300AMPS 35/50 (MALE)	20 PCS/BOX	
Dinse Connector 400AMPS 50/70 (MALE)	20 PCS/BOX	
Dinse Connector 500AMPS 70/95 (MALE)	20 PCS/BOX	
Dinse Connector (FEMALE) 70/95	20 PCS/BOX	



Product Name	Packing	Product Description
Dinse Socket 200AMPS (PANEL FEMALE) 10/25	20 PCS/BOX	
Dinse Socket 300AMPS (PANEL FEMALE) 35/50	20 PCS/BOX	
Dinse Socket 400AMPS (PANEL FEMALE) 50/70	20 PCS/BOX	
Dinse Socket 500AMPS (PANEL FEMALE) 70/95	20 PCS/BOX	



Product Name	Packing	Product Description
HI-LO Welding Gauge - Multipurpose - Single purpose		<ul style="list-style-type: none"> - After filling and aligning the pipe, measure the internal alignment and remove any radiographic rejects. - Determine the pipe's internal misalignment before and after tracking. - Measures displayed in standard on one side and metric on the opposite side.



Product Name	Packing	Product Description
Tapper Gauge 0-15mm		<ul style="list-style-type: none"> - Measure opening, slot width, hole size, etc. - Made of stainless steel



Product Name	Packing	Product Description
AW Welding Gauge MG-1/HJC40B		<ul style="list-style-type: none"> - The product mainly consists of a main scale, a slider and a multi-purpose gauge. - It is a weld detention gage used to detect the bevel angle of weldments, the height of various weld lines, weldment gaps and the plate thickness of weldments. - This product is made of stainless steel, with reasonable structure and beautiful appearance, which is easy to use.



Product Name	Packing	Product Description
Ace Weld Welding Gauge MG-11		<ul style="list-style-type: none"> - Filler weld gauge allows fast, accurate measurement of seven (7) fillet weld size: 3.2mm – 4.8mm/7.9mm-11.1mm/ 9.5mm-12.7mm/6.4mm-15.9mm/19.1mm-22.2mm/22.2mm -25.4mm/19.1mm-25.4mm/19.1mm-25.4mm their metric equivalents, to determine weld sizes, either concave or convex. - Each gauge blade is made of 1-1/4 x 4" cold rolled stainless steel to resists rust and bendin. Blades are deburred to remove rough edges. All sizes and numerals are engraved into the surface for easier reading. The set of seven blades comes in a standard packing.



Product Name	Packing	Product Description
Ace Weld Welding Gauge MG-8		<ul style="list-style-type: none"> - The gauge consists of four components: main scales, height gauge, undercut depth gauge and multiple-purpose gauge and is specially used for the measurement of the bevel angle, height, width, gap and undercut depth of weldment, suitable for the direction of boilers, bridges, ships, pressure vessels and oil pipes. It is made of stainless steel



Product Name	Packing	Product Description
Ace Weld Welding Gauge HJC-40		<ul style="list-style-type: none"> - The product mainly consists of a main scale, a slider and a multi-purpose gauge. - It is a weld detention gage used to detect the bevel angle of weldments, the height of various weld lines, weldment gaps and the plate thickness of weldments. - It is suitable for manufacturing boilers, bridges, chemical machinery, and ships and for inspecting the welding quality of pressure vessels. - This product is made of stainless steel, with reasonable structure and beautiful appearance, which is easy to use.

WELDING CURTAIN & FIRE BLANKET

WELDING CURTAIN

**INCREASE PRODUCTIVITY IN THE WORK PLACE
BY CREATING A SAFER, CLEANER, ORGANIZED
AND MORE EASILY SUPERVISED ENVIRONMENT.**

Welding screens are made with special formulated vinyl 16 mil(0.40) thick.

These screens are transparent and are resistant to UV rays, flame and abrasion.



Gold Yellow Screen

Constitutes high transparent welding curtain.

Formulated to disperse light from welding arcs throughout the curtain while creating a bright work area, our gold curtain is recommended for low-to-medium amperage welding applications.

Product Name	Product Code
Welding Curtain 6FT x 6FT	A8150000004
Welding Curtain 50M x 1.93M	A8150000001/2/3



SPECTRA Red/Orange Screen

Constitutes the near-ideal transparent welding curtain. Offering good visibility, it

it also minimizes the arc glare better than any other transparent welding curtain while reflection usable light back into the work area. Weld master spectra orange is considered the best in its class.



EXTRA Dark Green

Constitutes moder trans- parent welding curtain.

Opaque welding curtains are designed for durability, strength and resistance totearing and ripping. Recommended for plasma cutting or bright welding applications.

FIRE BLANKET



Product Name

Gold Fiberglass Welding Blanket

Heat Resistant:860°C (1580°F)

Size:1mm x 1m x 50m

The fiberglass material is specially treated with silica yards and a proprietary formula, creating a fabric that is resistant to high temperature. It can handle temperatures up to 1500°F continuously and 2000°F for short periods. This material is commonly used for welding curtains and blankets as well as heat shields, gaskets, and drop cloths. It comes in 20oz and 27oz weights, 35 mil and 60 mil thicknesses, and in the color tan. In vertical applications, it provides protection from light to medium grinding, sparks, sand blasting, and heat treating.

Product Name	Packing
Fire Blanket Size: 1.0MM x 1M x 50M	
Fire Blanket Size: 1.5MM x 1M x 30M	
Fire Blanket Size: 3.0MM x 1M x 30M	

Product Name

White Fiberglass Welding Blanket

Heat Resistant: 550°C (1022°F)

Size: 1.5mm x 1m x 30m

An economical option for welding blankets,curtains, and heat shields, this material can withstand consistent temperatures that go up to 1022°F. It is often used for applications involving heat treating and as a high temperature safety barrier. It is also used as an egress blanket, welding curtains, and light duty applications. It offers excellent protection from both vertical splatter and sparks, and resists most solvents and acids. This material comes in size of 1.5mm thickness.



Current (Amp)	Length	Specification
300	90m	475 x 0.19 x 13
400	90m	758 x 0.19 x 15
500	90m	1043 x 0.19 x 17
600	90m	1727 x 0.19 x 18.5

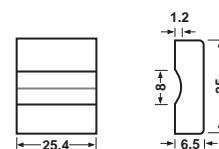
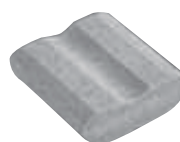
Ceramic Backing

FEATURES

- Thick aluminum adhesive backing contains no halogen and no chemical reactions occur during the process
- Excellent resistance to temperature surges
- Ceramic materials have the fine property of acid and alkali receptivity
- A wide range of sizes and types of ceramic blocks available and customizable to user needs

CBS-1-1

P/N: 260200011

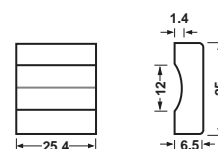
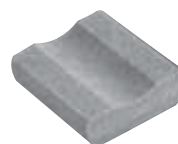


FCAW & GMAW
Applied ROOT GAP
3-5mm below 10t ship,
MIG welding possible



CBS-1

P/N: 260200021

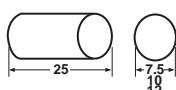


FCAW & GMAW
Applied ROOT GAP
3-5mm steel structure
of the ocean,
shipbuilding, plant etc.

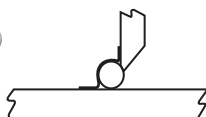


CBS-6

P/N: 260200161

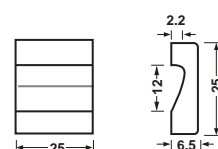
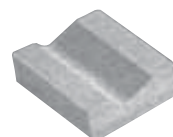


FCAW & GMAW
Applied T joint and
"X" cutting part
size 7, 8, 10, 12, 15



CBS-1"H"

P/N: 260200031



FCAW & GMAW
Applied ROOT GAP
3-8mm, part different
plate thick



Product Name	Packing
Ceramic Backing CBS1-1/0.6 meter per length	36 meter per box
Ceramic Backing CBS-1/0.6 meter per length	36 meter per box
Ceramic Backing CBS-1 "H"/0.6 meter per length	36 meter per box
Ceramic Backing CBS-6 8mm/0.6 meter per length	72 meter per box
Ceramic Backing CBS-6 10mm/0.6 meter per length	72 meter per box

WELDING GAUGE

AW Welding Gauge V-WAC Type



- * Check Undercut
- * Check Crown Height
- * Check Porosity
- * Check Pits
- * All Stainless Steel

AW Single Purpose Hi-Lo Gauge #2



- * Measurement Scale: Metric
- * Root Weld Space
- * Eliminates Rejects - Improves Productivity
- * Internal Misalignment

AW Welding Gauge HG012



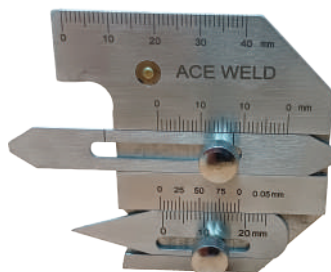
- * Measures internal alignment of pipe after fit-up/alignment, cuts radiographic rejects
- * Measures internal misalignment of pipe before & after tracking
- * **Measurement Scale:**
Inches on one side & Metric on the opposite site

AW Tapper Gauge 0-15mm



- * Suitable for internal diameter determination aperture measurement & clearance measurement for diameters of small holes, slots etc.
- * Accurate figures & increments are etched into surface, easy to read
- * Polished, bright & clean without burr, rust laser engraved line & will not rub off
- * The structure is simple & reasonable, easy to measure. Place the gauge on clearance or aperture & read the measured value
- * Made of stainless steel, miniature & light weight easy to carry

AW Welding Gauge HJC40



- * Check Butt Weld Height
- * Check Weld Leg
- * Check Weld Throat
- * Check Width of Weld Seam
- * Check Bevel Angle
- * Check Gap Size

AW Welding Gauge MG-8 (Cam-Bridge)



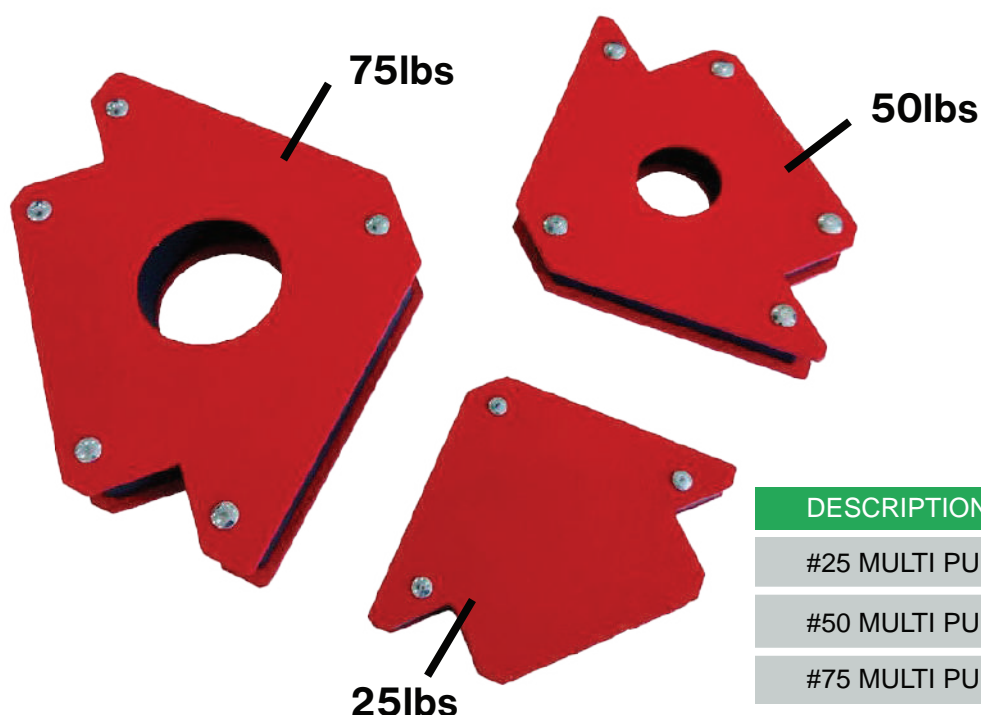
- * Bead stride width: 53mm
- * Beveling angle range: 0 - 70°
- * High quality stainless steel (SUS304) blades to resist rust and for longer life
- * For wide variety welding measurement
 - Height of bead weld
 - Throat thickness of fillet weld
 - Beveling angle
 - Root opening
 - Height of fillet weld
 - Under cut depth
 - Plate thickness
 - Round bar thickness

AW Welding Gauge MG-11 (Fillet Weld)



- * For inspection of concave or convex fillet welds
- * Set of seven blades
- * All sizes & numerals are Laser etched into the surface for clarity & easier reading
- * Blades are deburred for fine & smooth edges
- * High quality stainless steel (SUS304) blades to resist rust & for longer life
- * Permits quick & accurate measuring of the most popular weld fillet sizes in inches & metrics 1/8" - 1" (3.2mm - 25.4mm)

MULTI PURPOSE MAGNETIC HOLDER



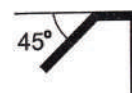
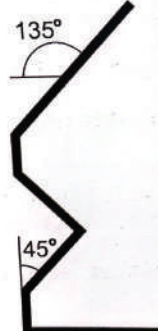
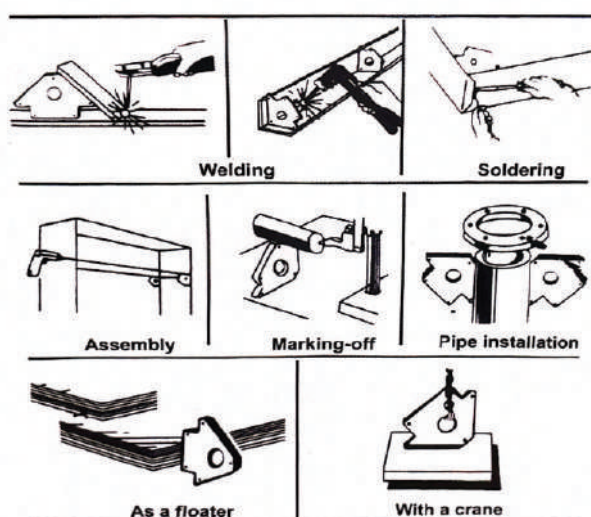
DESCRIPTION

#25 MULTI PURPOSE MAGNETIC HOLDER

#50 MULTI PURPOSE MAGNETIC HOLDER

#75 MULTI PURPOSE MAGNETIC HOLDER

- Designed to work as an Extra Hand
- Enables Fast and Accurate Holding of any Ferrous Object
- Powerful Magnet Holds Strongly to any Ferrous Material
- Will hold both sheet and Tube at Angles of 45°, 90° and 135°
- Compact Design Allows use in tight places
- Can be used as double sided Holder for Welding and Assembly Work
- Three popular sizes for use in a variety of different applications
- Ideal for use as work holder and positioner in Welding, Soldering, Supporting, Jigging, Assembly etc



ACE WELD IK-12 STRAIGHT LINE CUTTER

Main features:

1. Small capacity, low gravity center, lightweight, portable.
2. Whole main body is made of high strength aluminum die-casting..
3. Mechanical speed adjustment system increase the reliability under high temperature.
4. Main motor with cooling fan.
5. Optional circular rail for circular piece cutting (optional)

Technical Parameter Specifications	
Weight:	7.5kg
One torch with body:	10kg
Two torch with body:	14kg
Machine size:	350x140x175mm
Wheel distance:	160mm
Power source:	220±10%
Reduction gear:	single cone system
Cutting edge sharp:	1, V (45°)
Cutting thickness:	6~100mm (by std. acc)
Motor:	1500 r.p.m



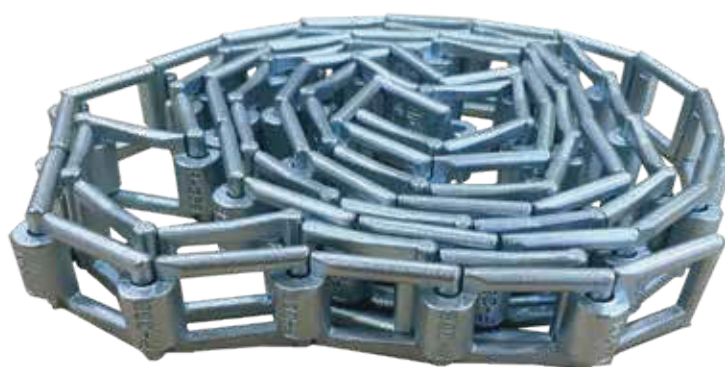
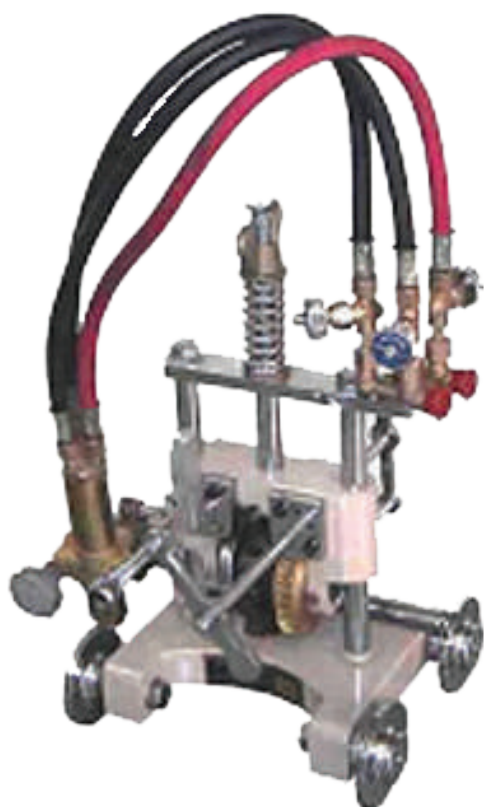
Contents of package	
Main unit:	1 set
Torch holder with rack:	1 set
Torch:	1 pc
Gas distributor:	1 pc
Hose 600mm:	2 pcs
Power cord, 5m:	1 pc
Tip (102 or 106 type #0,1,2, one each):	3 pcs
Straight rail:	2 pcs (1.8m each)

PARTS AVAILABLE PURCHASE DEPRATE

- 1 GAS DISTRIBUTOR
- 2 TORCH BODY
- 3 TORCH HOLDER
- 4 GAS HOSE
- 5 GEAR BAR
- 6 TRACK 1.8M

PRODUCT CODE	DESCRIPTION	PRICE (RM)
A5236120100	Straight Line Cutter c/w track 1.8 meter	

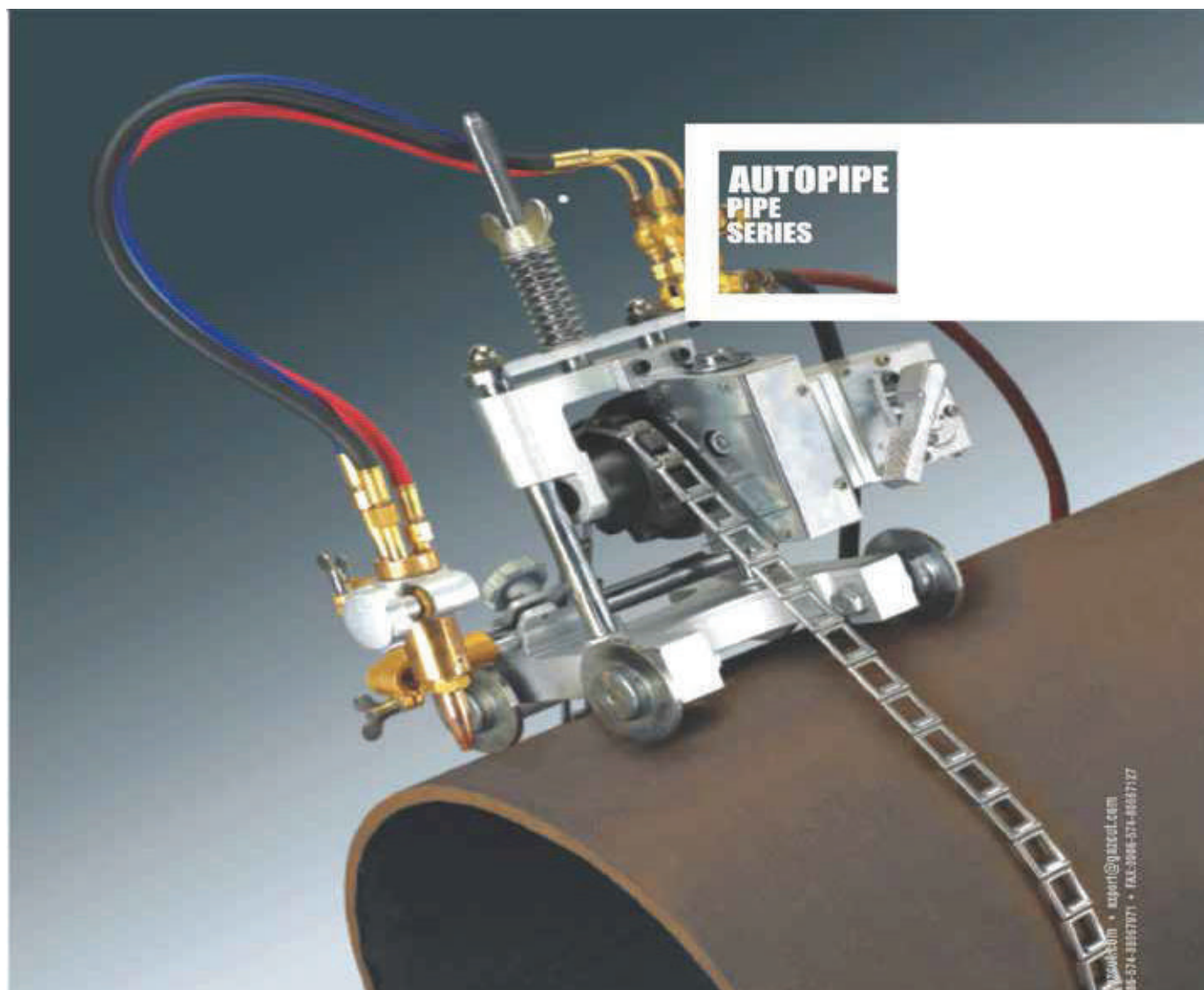
MANUAL PIPE GAS CUTTER



MODEL	PORTABLE PIPE GAS CUTTING MACHINE
WEIGHT	17 KG (37.5LBS)
MACHINE SIZE	285 X 320 X 390 mm
BEVEL ANGLE	0° - 45°
PIPE CUTTER DIAMETER	ø150 - ø600 mm (OVER 600 mm BY EXTRA CHAIN)

PRODUCT CODE	DESCRIPTION	PRICE (RM)
	Manual Pipe Gas Cutter c/w 80pc chain	
	Chain 80pc	

AUTO PIPE CUTTER



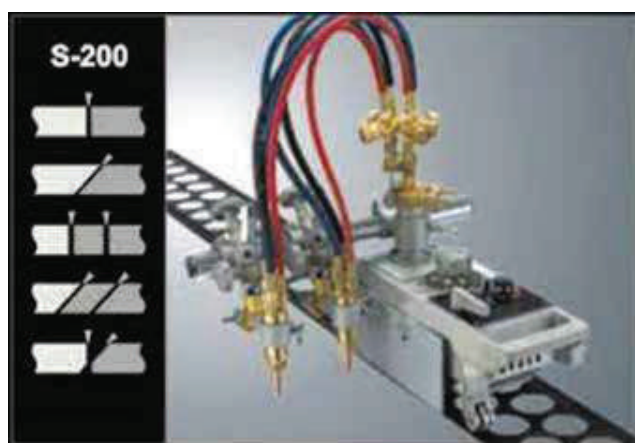
Chain Type	Single link chain
Quick Release Clutch	With
Cutting Speed	50-1150mm/min
Effective Pipe Diameter	150-600mm by standard chain Larger size over 600mm by extra chain
Cutting Thickness	Up to 500mm
Cutting Shape	Square and bevel (up to 45°)
Drive Method	Motorized
Main Size (mm)	265 X 420 X 450
Weight (kg)	16

HEAVY DUTY STRAIGHT LINE CUTTER - SINGLE/DOUBLE TRACK



S-100 For Square or V-Beve

- Single torch unit equipped with a simple holder
- Having no floating function
- Standard pipe arm length: 400mm
- Vertical adjustment up to 65mm

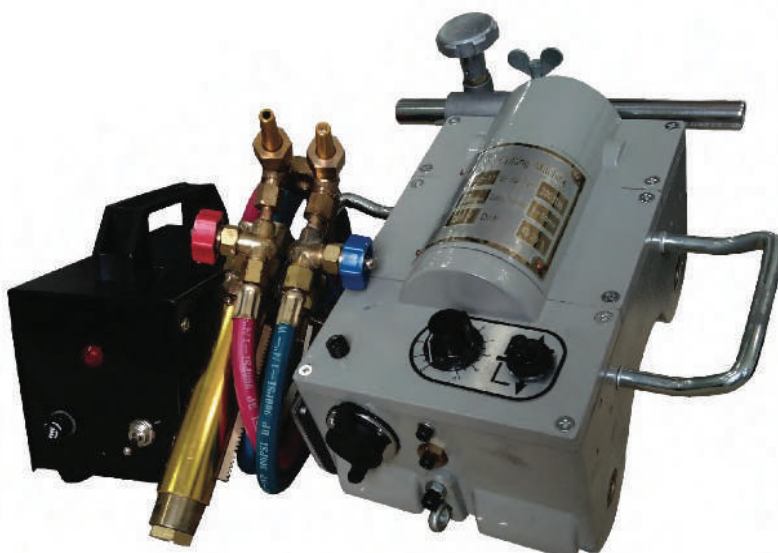


S-200 For Square, V, Y, or X-Bevel Cutting:

- Two torch model of S-100
- Standard pipe arm length: 600mm
- Balance weight attached.
- Bevel and parallel cutting possible

Model	S-100	S-200
Input Voltage	240V 50Hz	
Cutting Thickness	5-50 mm	
Cutting Speed Range	100-1,000 mm/min	
Cutting Edge Shape	Square Cutting V bevel 45°	
Dimension	310 x 450 x 300mm	
Weight (with track)	27 kg	31 kg

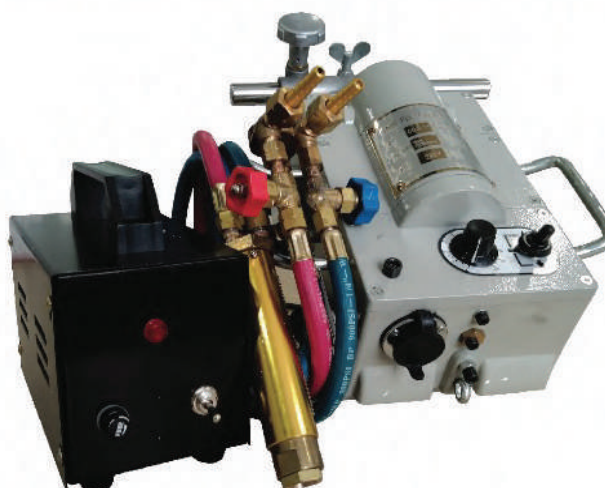
AUTO MAGNETIC PIPE CUTTER



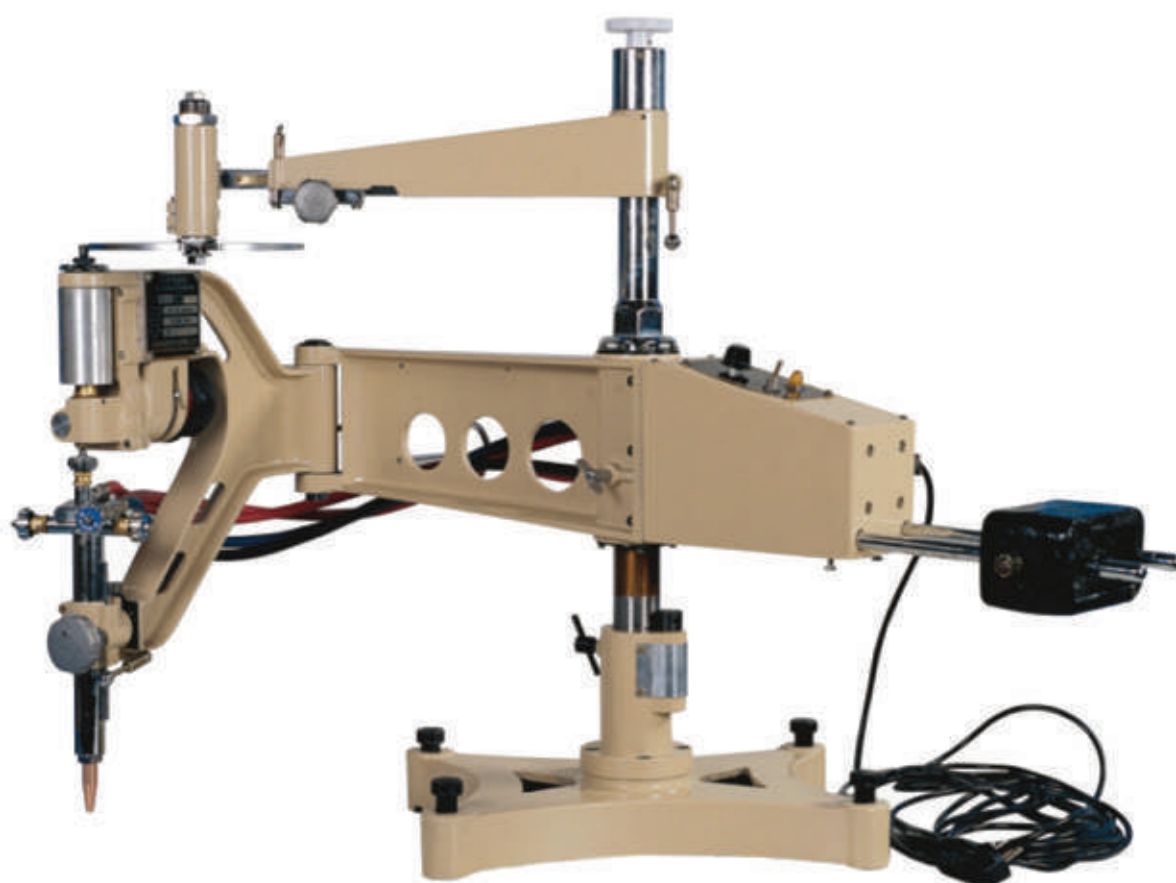
Feature:

1. Machine body is made of aluminium alloy
2. Compact structures.
3. It uses permanent magnet wheel absorbed on the steel tube to make creeping cutting horizontally, vertically or upwards.
4. This machines takes the advantages of extremely sound cutting circumference and easy operation etc. With groovesto 1. V 45
5. Widely used for the cutting of steel tubes in petroleum and chemical pipeline engineering.

Model	Auto Magnetic Pipe Cuter CG2-11
Voltage	AC 220V / 50HZ
Cutting Thickness	6~50mm
Cutting Speed	50~750/mm/min
Overall Dimension	350 x 240 x 220 mm
Weight	23.5kg
Dia of Circle Cutting	>108 mm











SHAPE CUTTER

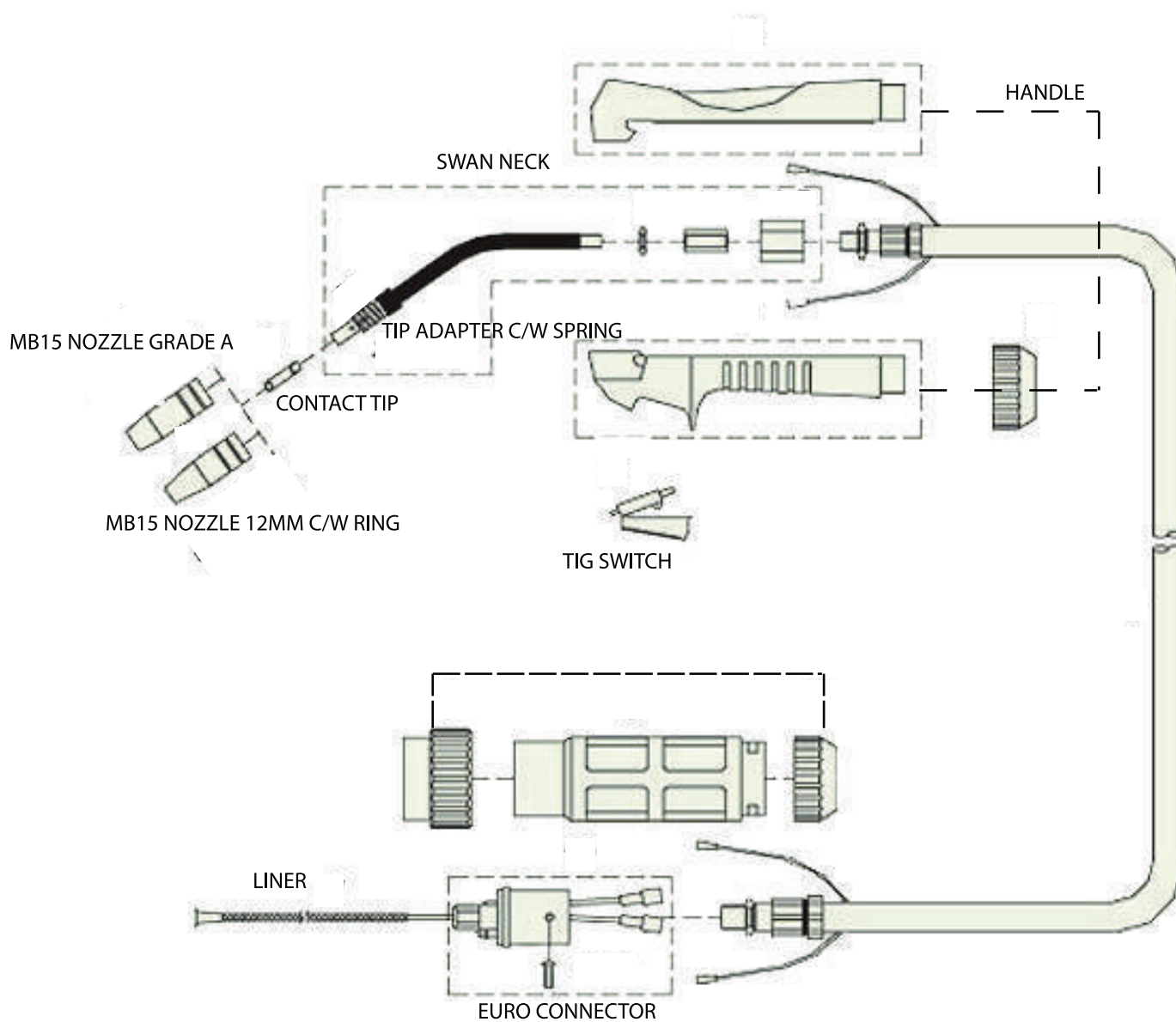


Model	Shape Cutter CG2-150 (220V)
Voltage	AC 240V
Cutting Thickness	5~100mm
Cutting speed	50~750/mm/min
Max. Straight Line Cutting	1200mm
Max. Diameter Circular Cutting	600mm
Max. Size For Rectangular Cutting	400mm×900mm, 450mm×750mm








MB15

	MB15 Complete Torch 3/4/5Meter
	MB15 Nozzle Grade A MB15 NOZZLE COPPER W/O CHROME
	CONTACT TIP M6 X 25 X 0.8MM/1.0MM/1.2MM
	MB15 Tip Adapter
	MB15 Swan Neck
	Liner Euro Fitting 3M, 4M, 5M Teflon Liner Japan Fitting Black 4.5M Teflon Liner Euro Fitting Black 4.5M
	MB15 Front Insulator
	MB15 Back Insulator

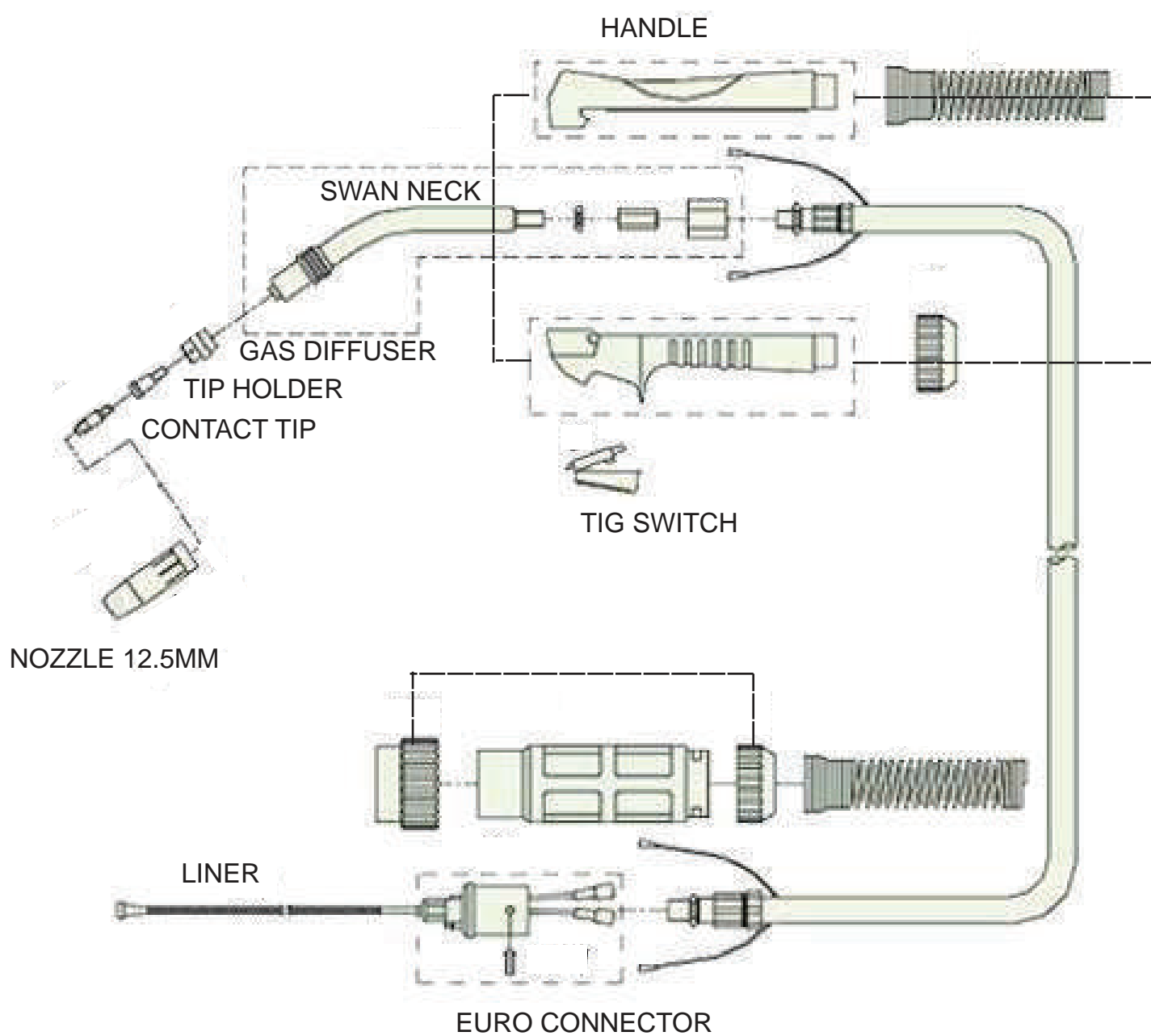
MB 15 MIG TORCH DIAGRAM





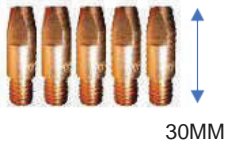





MB24

	MB24 Complete Torch 3/4/5Meter
 12.5MM	MB24 Nozzle 12.5MM
 28MM	Contact Tip M6 X 28 X 0.8MM/1.0MM/1.2MM
	MB24 Tip Adapter
	MB24 Swan Neck
	Gas Diffuser Ceramic Gas Diffuser 'DMC' Gas Diffuser Silicon Rubber
	Liner Euro Fitting 3M, 4M, 5M Teflon Liner JAPAN Fitting BLACK 4.5M Teflon Liner Euro Fitting Black 4.5M







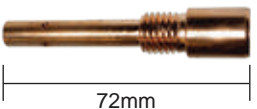






MB 24 MIG TORCH DIAGRAM



MB36

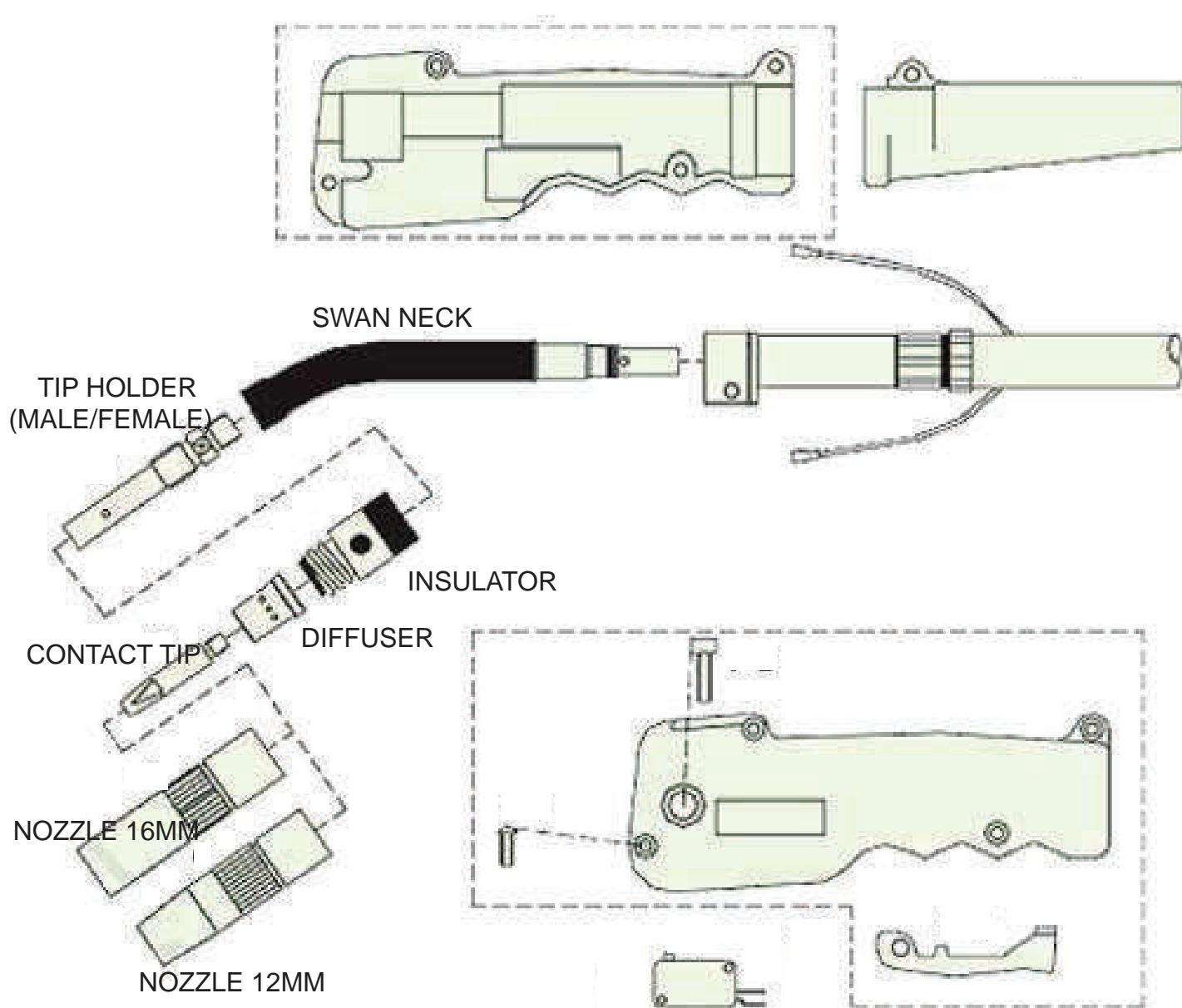
	MB36 Complete Torch 3/4/5Meter
	MB36 Nozzle
	Contact Tip M8 X 30 X1.0MM/1.2MM
	MB36 Tip Adapter (M8)
	MB36 Tip Adapter (M6)
	MB36 Swan Neck
	MB36 Ceramic Diffuser
	Liner Euro Fitting 3M, 4M, 5M Teflon Liner Japan Fitting Black 4.5M Teflon Liner Euro Fitting Black 4.5M

PANA TYPE 350A MIG LIST

	Pana 350A Mig Torch 3/4/5 Meter
	Pana 350A Nozzle 16mm
	Pana 350A Nozzle 12mm
	Contact Tip M6X 45 X 0.8/1.0/1.2/1.4/1.6 Contact Tip M6X 45 x 1.2/1.6 CUCRZR Contact Tip M6 X42 X 1.0//1.2
	Pana 350A Diffuser/ Orifice
	Pana 350A Tip Adapter Male
	Pana 350A Tip Adapter Female
	Pana 350A Swan Neck
	Pana 350A Insulator c/w ring
	Pana 350A/500A Liner Euro Fitting 4M/5M
	Pana 350A/500A Liner Japan Fitting 3M/ 4M/ 5M
	Teflon Liner Japan Fitting 4.5M (Black)
	Teflon Liner Euro Fitting 4.5M (Black)

PANA TYPE 350A MIG DIAGRAM

Available in Euro & Japan Fitting




EURO FITTING



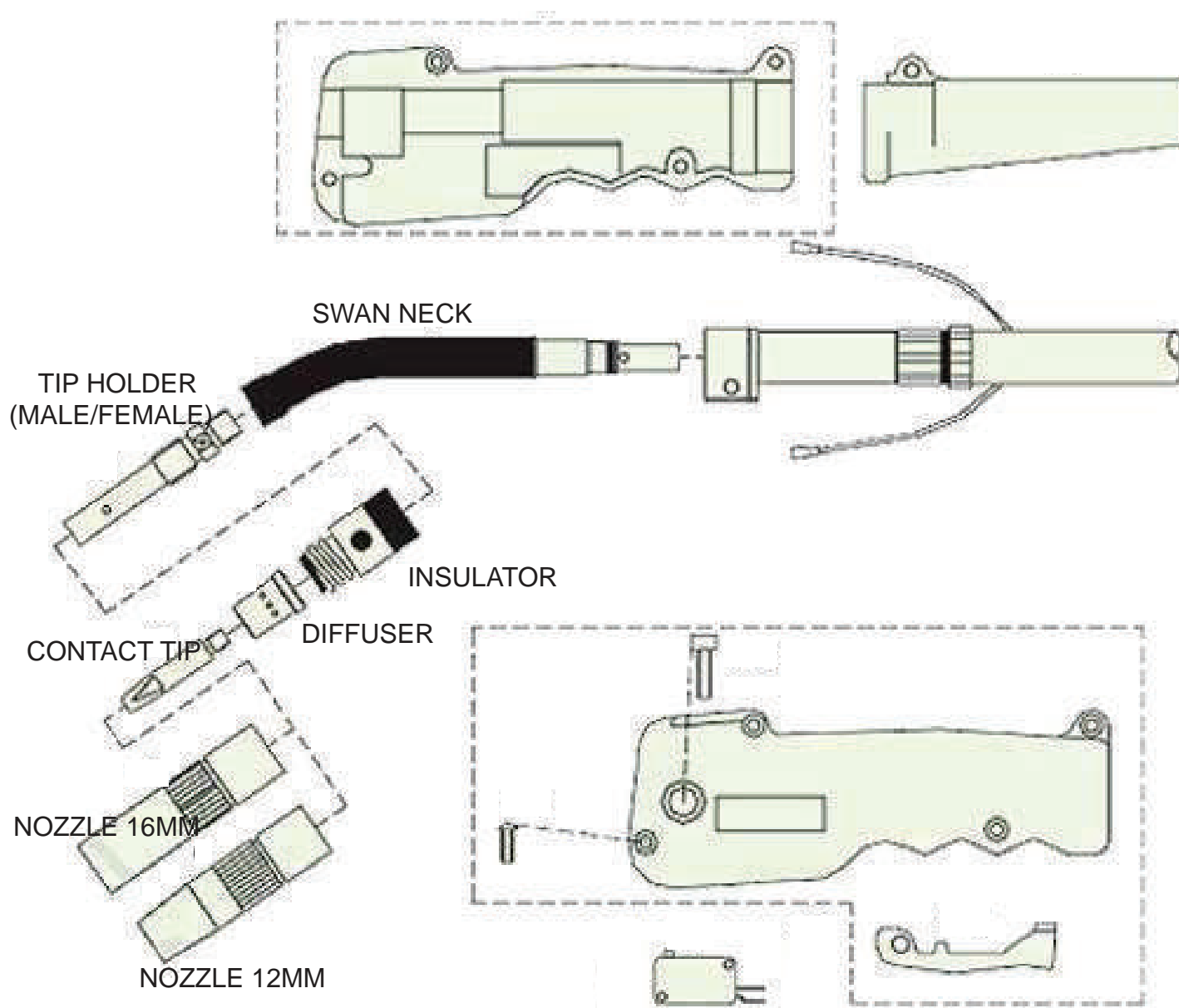
JAPAN FITTING

PANA TYPE 500A MIG LIST

	Pana 500A Mig Torch 3M/4M/5M
	Pana 500A Nozzle 19MM
	Pana 500A Contact Tip M6 X 45 X 0.8/1.0/1.2/1.4/1.6 Pana 500A Contact Tip M6 X 45 X 1.2/1.6 CUCRZR
	Pana 500A Diffuser/ Orifice
	Pana 500A Tip Adapter (MALE)
	Pana 500A Tip Adapter (FEMALE)
	Pana 500A Swan Neck
	Pana 500A Insulator
	Pana 350A/500A Liner Euro Fitting 4M/5M
	Pana 350A/500A Liner Japan Fitting 3M/ 4M/ 5M
	Teflon Liner Japan Fitting 4.5M (Black)
	Teflon Liner Euro Fitting 4.5M (Black)

PANA TYPE 500A MIG DIAGRAM

Available in Euro & Japan Fitting









EURO FITTING

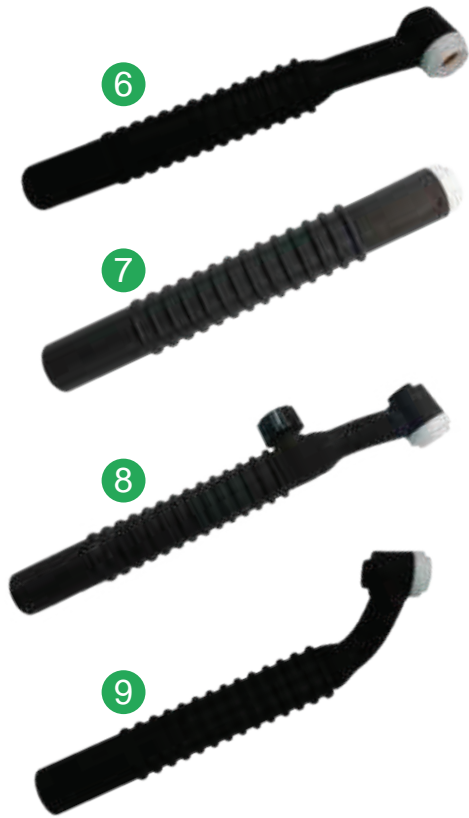


JAPAN FITTING

EURO CONNECTOR & Mig Red Handle

	<p>Euro Connector For Torch End (M10 x 1)</p>
	<p>Euro Connector For Machine</p>
	<p>Euro Converter From Japan Fitting</p>
	<p>Mig Red Handle</p>
	<p>Mig Trigger Switch "Red Handle"</p>
	<p>Mig Trigger Switch "Yellow Handle"</p>

WP9 Series 125Amps Air Cooled TIG Torches



NO:	DESCRIPTION	PART NUMBER	
1	WP9 Collet 1.6MM	13N22	
	WP9 Collet 2.4MM	13N23	
2	WP9 Collet Body 1.6MM	12N27	
	WP9 Collet Body 2.4MM	13N28	
3	WP9 Ceramic Cup #4	13N08	
	WP9 Ceramic Cup #5	13N09	
	WP9 Ceramic Cup #6	13N10	
	WP9 Ceramic Cup #7	13N11	
	WP9 Ceramic Cup #8	13N12	
4	WP9 Short Back Cap	41V33	
5	WP9 Medium Back Cap	41V35	
6	WP9 Torch Body c/w Handle		
7	WP9P Torch Body c/w Handle		
8	WP9V Torch Body c/w Handle		
9	WP9F Torch Body c/w Handle		
10	WP9F-2-25 Tig Torch Complete		
11	WP9-2-25 Tig Torch Complete		
12	Micro/Tig Switch		
13	Gas Len Ceramic Cup 53N59#5	53N59	
14	Gas Len Ceramic Cup 53N60#6	53N60	
15	Gas Len Ceramic Cup 53N61#7	53N61	
16	Gas Len Collet Body 45V44	45V44	



3



4



5



2



1

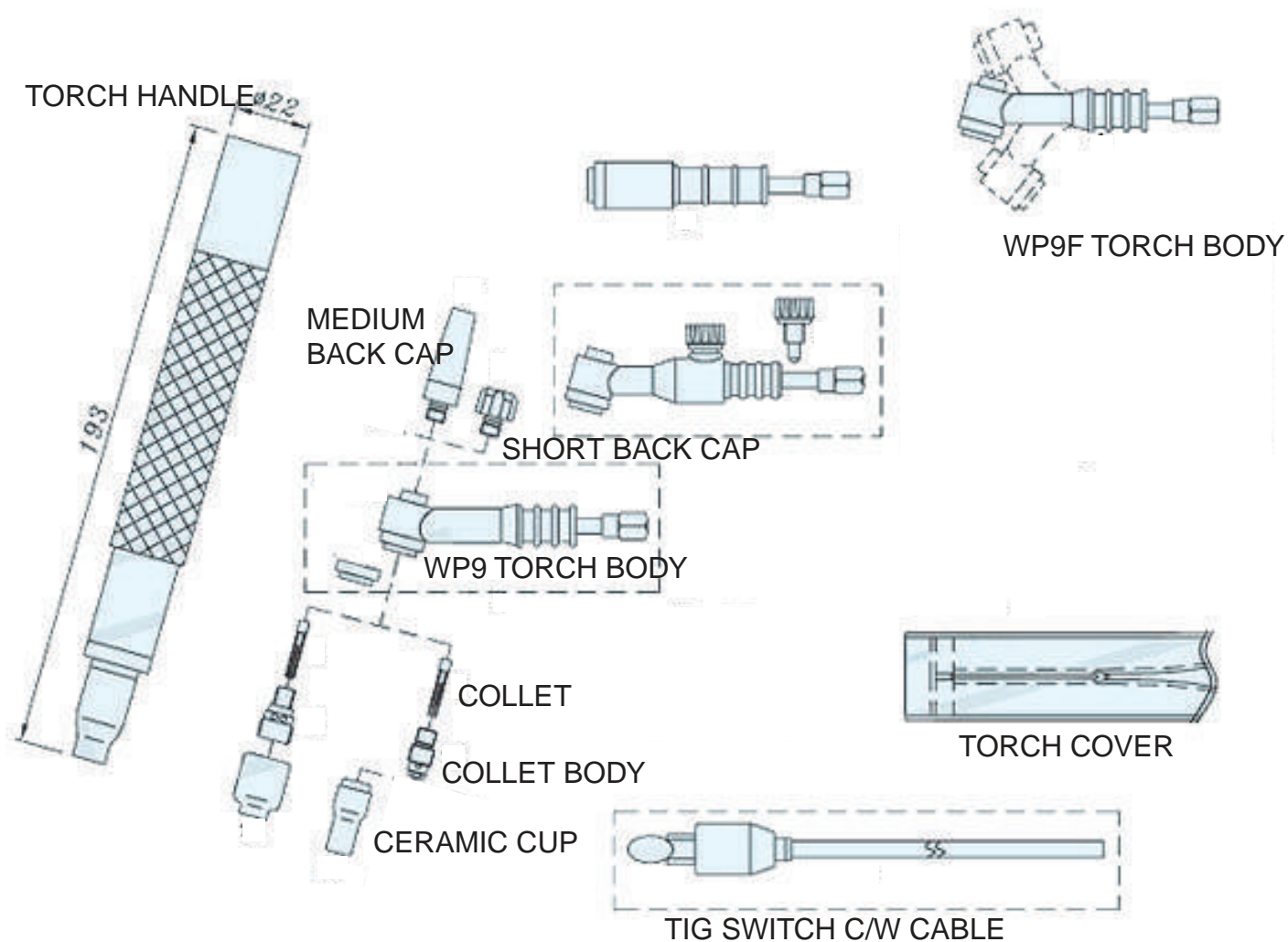


25MM



12

WP9 Series 125Amps Air Cooled TIG Torches



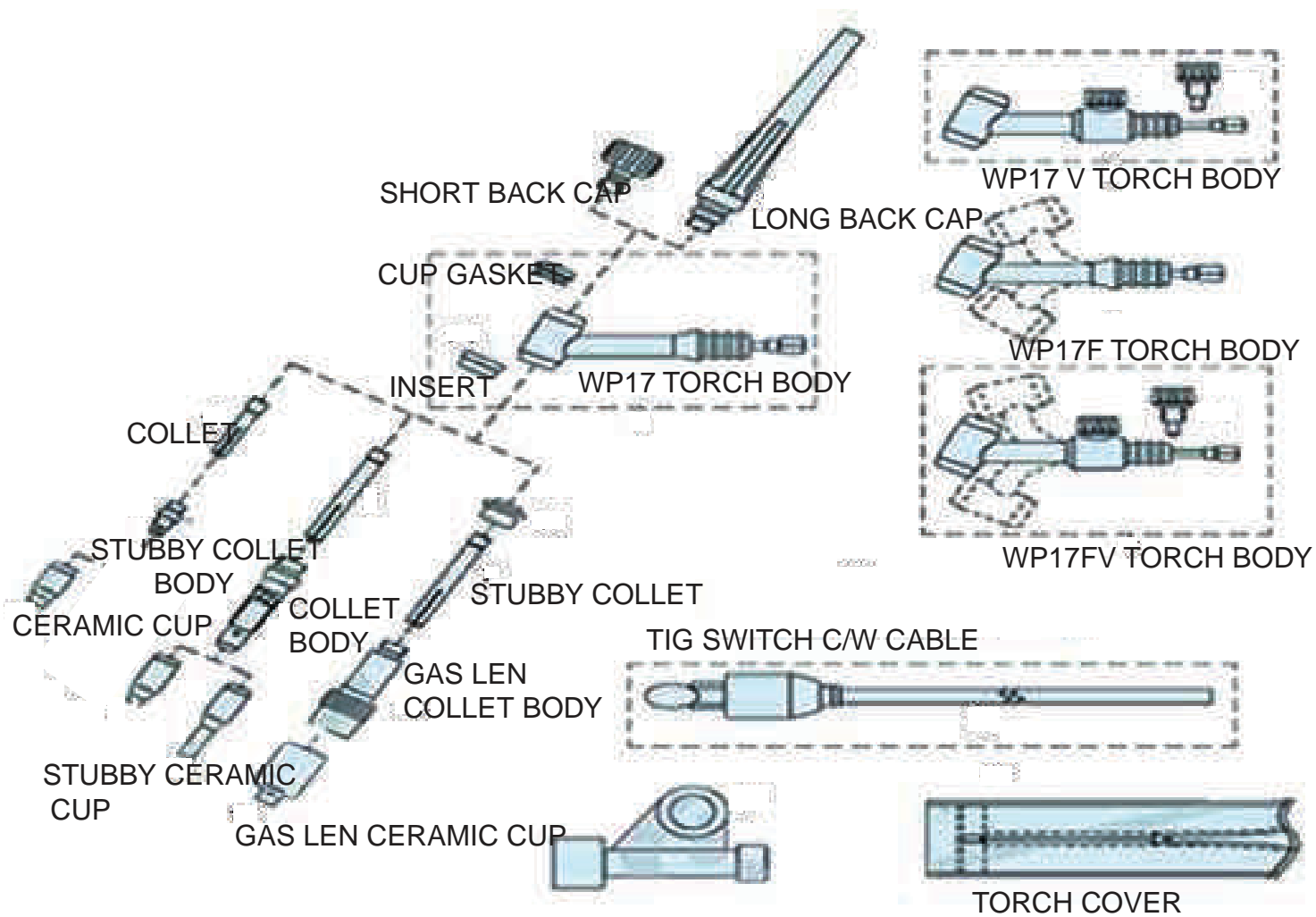
WP17 Series 150 Amps Air Cooled TIG Torches



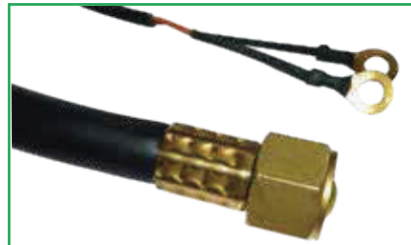
NO:	DESCRIPTION	PART NUMBER	
1	WP17 Torch Body C/W Handle		
2	WP17V Torch Body C/W Handle		
	WP17F Torch Body C/W Handle		
	WP17FV Torch Body C/W Handle		
3	WP17V Valve Stem VS-2		
4	WP17 Short Back Cap	57Y04	
5	WP17 Long Back Cap	57Y02	
5.1	WP17 Medium Back Cap	57Y03	
6.1	WP 17 CUP GASKET 18CG	57Y02	
6.2	WP17 Insert 18-7	57Y03	
7	WP17 Ceramic Cup #4 #5 #6 #7 #8 #10	10N50/ 49/ 48/ 47/ 46/ 45	
7.1	Long Ceramic Cup #5 #6	10N49L/ 48L	
8	WP17 Collet Body 1.0/1.6/2.4/3.2MM	10N30/ 31/ 32/ 28	
9	WP17 Collet 1.0/1.6/2.4/3.2MM	10N22/ 23/ 24/ 25	
10	Gas Lens Collet Body 1.6/2.4/3.2MM	45V25/ 26/ 27	
11	Gas Lens Ceramic Cup #5 #6 #7 #8	54N17/ 16/ 15/ 14	
11.1	Long Gas Lens Ceramic Cup #6 #7 #8	54N16L/ 15L/ 14L	
12	Stubby Ceramic Cup	13N Series	
13	Stubby Collet Body	17CB20	
14	Stubby Collet 1.6/ 2.4MM	10N23S/ 24S	
15	Micro/ Tig Switch		

DESCRIPTION	
WP17-25-2 Tig Torch Complete	
WP17-25-R Tig Torch Complete	
WP17V-25-2 Tig Torch Complete	
WP17V-25-R Tig Torch Complete	

WP17 Series 150 Amps Air Cooled TIG Torches Diagram



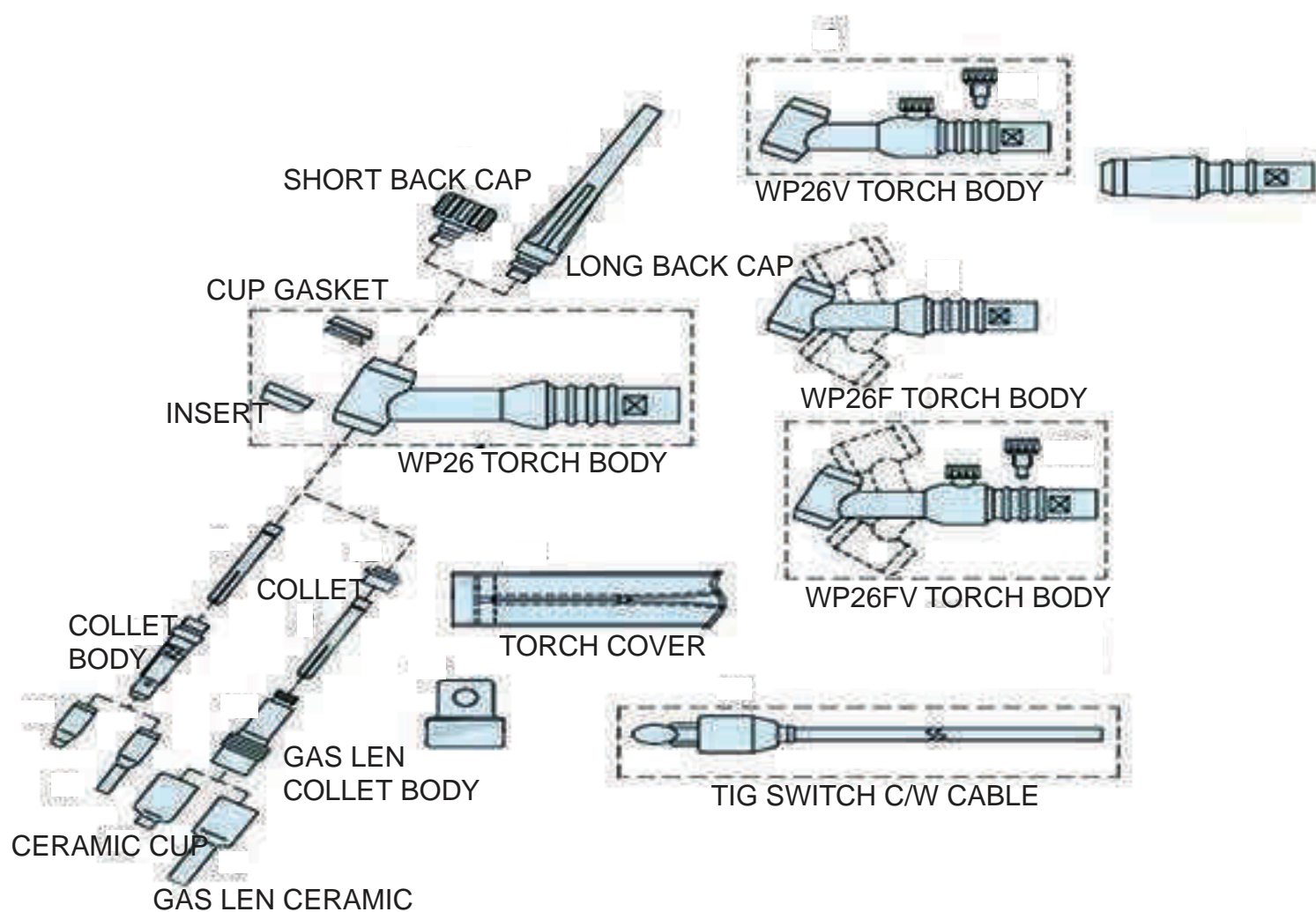
WP26 Series 200 Amps Air Cooled TIG Torches



NO:	DESCRIPTION	PART NUMBER	
1	WP26 Torch Body C/W Handle		
2	WP26V Torch Body C/W Handle		
	WP26F Torch Body C/W Handle		
	WP26FV Torch Body C/W Handle		
	WP26V Valve Stem	VS-1	
3	WP26 Short Back Cap	57Y04	
4	WP26 Long Back Cap	57Y02	
5.1	WP 26 CUP GASKET	18CG	
5.2	WP26 Insert	18-7	
6	WP26P Straight Torch Body		
7	WP26 Ceramic Cup #4 #5 #6 #7 #8 #10	10N50/49/48/47/46/45	
7.1	Long Ceramic Cup #5 #6	10N49L/48L	
8	WP26 Collet Body 1.0/1.6/2.4/3.2MM	10N30/31/32/28	
9	WP26 Collet 1.0/1.6/2.4/3.2MM	10N22/23/24/25	
10	Gas Lens Collet Body 1.6/2.4/3.2MM	45V25/26/27	
11	Gas Lens Ceramic Cup #5 #6 #7 #8	54N17/16/15/14	
11.1	Long Gas Lens Ceramic Cup #6 #7 #8	54N16L/15L/14L	
12	Stubby Ceramic Cup	13N Series	
13	Stubby Collet Body	17CB20	
14	Stubby Collet 1.6/2.4MM	10N23S	
15	Micro/Tig Switch		
16	54N01 Gas Lens Insulator		

DESCRIPTION	
WP26V-25-2 Tig Torch	
WP26-25-2 Tig Torch	
WP26-25-R Tig Torch	

WP26 Series 200 Amps Air Cooled TIG Torches Diagram



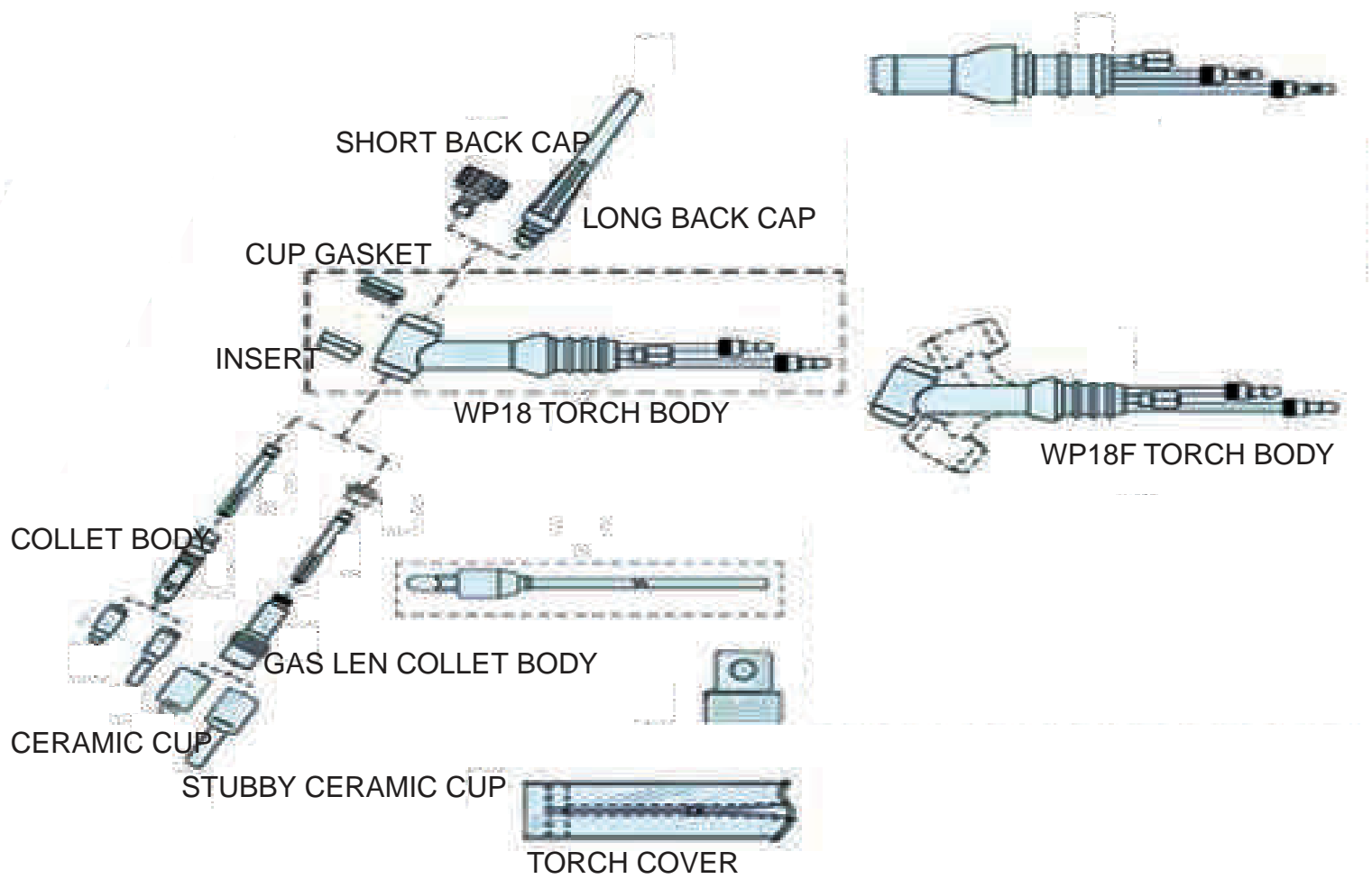
WP18 Series 350 Amps Water Cooled TIG Torches



NO:	DESCRIPTION	PART NUMBER	
1	WP18 Torch Body C/W Handle		
2	WP18F Torch Body C/W Handle		
3	WP18 Short Back Cap	57Y04	
4	WP18 Long Back Cap	57Y02	
5.1	WP18 CUP GASKET	18CG	
5.2	WP18 Insert	18-7	
6	WP18 Ceramic Cup #4 #5 #6 #7 #8 #10	10N50/49/48/47/46/45	
6.1	Long Ceramic Cup #5 #6	10N49L/48L	
7	WP18 Collet Body 1.0/1.6/2.4/3.2MM	10N30/31/32/28	
8	WP18 Collet 1.0/1.6/2.4/3.2MM	10N22/23/24/25	
9	Gas Lens Collet Body 1.6/2.4/3.2MM	45V25/26/27	
10	Gas Lens Ceramic Cup #5 #6 #7 #8	54N17/16/15/14	
10.1	Long Gas Lens Ceramic Cup #6 #7 #8	54N16L/15L/14L	
11	Stubby Ceramic Cup	13N Series	
12	Stubby Collet Body	17CB20	
13	Stubby Collet 1.6/2.4MM	10N23S	
14	Micro/Tig Switch		

DESCRIPTION	
WP18-25-R Tig Torch	
WP18F-25-R Tig Torch	

WP18 Series 350 Amps Water Cooled TIG Torches Diagram





WP17-2-25



WP17-R-25



**WP 18 WATER
DINSE PLUG**



WP26-2-25



WP26-R-25



WP26V-2-25



WP26 DINSE PLUG 35/50



WP9-2-25



WP9F-2-25

* Torch fitting can modified as per request with additional charges.

TUNGSTEN

2% Thoriated Red

Description :

2% Thoriated Tungsten contains a nominal 2 wt-% of thorium oxide (ThO_2) that is evenly dispersed throughout the entire length of the Tungsten. The most common type of Tungsten used today. provides excellent resistance from weld pool contamination while at the same time offers the welder easier arc starting capabilities and more stable arc. Generally used for DC electrode negative or straight polarity applications such as carbon & stainless steels, nickel alloys and titanium.

2% Lanthanated Blue / 1.5% Lanthanated Gold

Description :

2% Lanthanated or "rare earth" Tungsten contains a nominal 2wt-% Lanthanum oxide (LaO_3). This type of Tungsten is very similar to ceriated as it too is a non-radioactive material. Lanthanated electrodes operate at a slightly different arc voltage than Thoriated or Ceriated electrodes. Were developed around the same time as Ceriated Tungsten to help combat the increasing awareness of the radioactivity of Thoriated Tungsten. Generally used to weld carbon and stainless steels, nickel alloys and titanium.

Pure Tungsten Green

Description :

Pure Tungsten contains a minimum of 99.5wt-% Tungsten with no other alloying elements. This allows the tip to form a clean, balled end which provides good arc stability on AC. Pure can be used with DC but does not compare with Thoriated or Ceriated as far as ease of arc starting. More susceptible to weld contamination than Thoriated, Ceriated or Lanthanated. Usually the least expensive of all Tungsten. Pure Tungsten is generally used in the welding of aluminum and magnesium alloys (AC).

2% Ceriated Grey

Description :

2% Ceriated Tungsten contains a nominal 2wt-% of cerium oxide (CeO_2). Ceriated is different from Thoriated as it is not a radioactive material. Ceriated Tungsten also tends to last longer than Thoriated and can be used proficiently with AC or DC. In manual applications the Ceriated Tungsten will provide slightly different electrical characteristics than the Thoriated Tungsten but generally no difference will be seen by the operator. generally used to weld carbon & stainless steel, nickel alloy and titanium.

0.8% Tungsten White

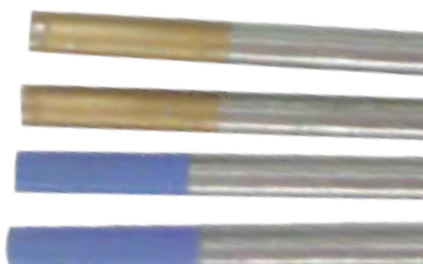
Description :

Principal Oxide: 0.7-0.9% Zirconium Oxide . Non-Radioactive. Best for use in alternating current (a/c) for aluminum alloys and magnesium alloys using inverter or transformer based constant current power sources. Balls well, handles higher amperage than pure tungsten with less spitting, better arc starts and arc stability than pure tungsten. Non alloy and low alloy steel, stainless steel, titanium alloy, nickel alloy, copper alloy, anode and cathode of the thermal spraying special light sources, etc.

E3 Tungsten Purple

Description :

Electrodes with rare earth (mixed oxides). In comparison to thoriated electrode is less harmful to the environment and not radioactive. the electrodes offer excellent ignition characteristics and consistent welding properties. They are universal and suitable for all applications in the whole range of DC and AC welding for non-alloyed and high-alloyed steel, aluminum, titanium, nickel, copper and magnesium alloys. Because of their great ignition properties they are also suitable for automated welding. Due to the low electrode temperature, they offer an increased current capacity and longer service life than thoriated electrodes.



TIG REPAIRING CATEGORIES



**WP26-2 CURRENT
NIPPLE AO-27700**



**WP26-2 CABLE
CONNECTOR FRONT
AO-27600**



**GAS NUT FOR TIG
HOSE AO-24300**



WP26-R DUMP IRON



WP17-2 DUMP IRON



**WP17-2 DUMP IRON
(NEW MODEL)**



**WP17 CURRENT
NIPPLE 57Y10
(SINGLE LINE)**



WP18 DUMP IRON



**ARGON GAS ADAPTER
AO-24300/AG-12700**



**WP26 POWER CABLE
ADAPTOR 45V62**



**TIG ADAPTOR
45V11**



**BRAIDED ARGON GAS
HOSE C/W FITTING**



**BRAIDED ARGON GAS
HOSE 100M/ROLL**



TORCH COVER JEANS

CERAMIC CUP / ALUMINA NOZZLE SIZE

PART NUMBER	PRODUCT DESCRIPTION	WHERE USED	SIZE	US	METRIC (MM)	LENGTH
10N50	Nozzle Alumina, #4(1/4")	17,17V,18,18P,18V,26,26P,26V	4	1/4"	6	1-27/32"
10N49	Nozzle Alumina, #5(5/16")	17,17V,18,18P,18V,26,26P,26V	5	5/16"	8	1-27/32"
10N48	Nozzle Alumina, #6(3/8")	17,17V,18,18P,18V,26,26P,26V	6	3/8"	10	1-27/32"
10N47	Nozzle Alumina, #7(7/16")	17,17V,18,18P,18V,26,26P,26V	7	7/16"	11	1-27/32"
10N46	Nozzle Alumina, #8(1/2")	17,17V,18,18P,18V,26,26P,26V	8	1/2"	12.5	1-27/32"
10N45	Nozzle Alumina, #10(5/8")	17,17V,18,18P,18V,26,26P,26V	10	5/8"	16	1-27/32"
10N44	Nozzle Alumina, #12(3/4")	17,17V,18,18P,18V,26,26P,26V	12	3/4"	19	1-27/32"



13N08	Nozzle Alumina, #4(1/4")	9,9V,20,20V,22,23,25,280	4	1/4"	6	1-5/32"
13N09	Nozzle Alumina, #5(5/16")	9,9V,20,20V,22,23,25,280	5	5/16"	8	1-5/32"
13N10	Nozzle Alumina, #6(3/8")	9,9V,20,20V,22,23,25,280	6	3/8"	10	1-5/32"
13N11	Nozzle Alumina, #7(7/16")	9,9V,20,20V,22,23,25,280	7	7/16"	11	1-5/32"
13N12	Nozzle Alumina, #8(1/2")	9,9V,20,20V,22,23,25,280	8	1/2"	12.5	1-5/32"
13N13	Nozzle Alumina, #10(5/8")	9,9V,20,20V,22,23,25,280	10	5/8"	16	1-5/32"



54N18	Nozzle Alumina, GL, #4(1/4")	17,17V,18,18SP,18V,26,26P,26V	4	1/4"	6	1-5/8"
54N17	Nozzle Alumina, GL, #5(5/16")	17,17V,18,18SP,18V,26,26P,26V	5	5/16"	8	1-5/8"
54N16	Nozzle Alumina, GL, #6(3/8")	17,17V,18,18SP,18V,26,26P,26V	6	3/8"	10	1-5/8"
54N15	Nozzle Alumina, GL, #7(7/16")	17,17V,18,18SP,18V,26,26P,26V	7	7/16"	11	1-5/8"
54N14	Nozzle Alumina, GL, #8(1/2")	17,17V,18,18SP,18V,26,26P,26V	8	1/2"	12.5	1-5/8"
54N19	Nozzle Alumina, GL, Short, #11(11/16")	17,17V,18,18SP,18V,26,26P,26V	11	11/16"	17	1-5/8"



10N49L	Nozzle Alumina, Long, #5L (5/16")	17,17V,18,18P,18V,26,26P,26V	5L	5/16"	8	3"
10N48L	Nozzle Alumina, Long, #6L (3/8")	17,17V,18,18P,18V,26,26P,26V	6L	3/8"	10	3"
10N47L	Nozzle Alumina, GL, Long, #7L (7/16")	17,17V,18,18P,18V,26,26P,26V	7L	7/16"	11	3"



54N17L	Nozzle Alumina, GL, Long, #5 (5/16")	17,17V,18,18SP,18V,26, 26V	5	5/16"	8	3"
54N16L	Nozzle Alumina, GL, Long, #6 (3/8")	17,17V,18,18SP,18V,26, 26V	6	3/8"	10	3"
54N15L	Nozzle Alumina, GL, Long, #7 (7/16")	17,17V,18,18SP,18V,26, 26V	7	7/16"	11	3"
54N14L	Nozzle Alumina, GL, Long, #8(1/2")	17,17V,18,18SP,18V,26, 26V	8	1/2"	12.5	3"



PT31 PLASMA



PT31 Plasma Complete Set



Plasma Torch Body



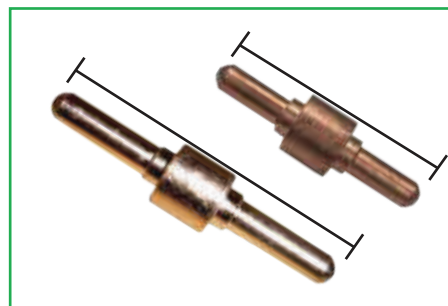
Plasma Shield Cap



Plasma Swirl Ring



**Plasma Nozzle Ex
Plasma Nozzle**



**Plasma Electrode EX
Plasma Electrode**

P50 Plasma



Plasma Complete Set



Plasma Torch Body



Plasma Shield Cap



Plasma Swirl Ring



Plasma Nozzle



Plasma Electrode

P80 PLASMA



Plasma Complete Set (8m)



Plasma Shield Cap



Plasma Roller Guide



Torch Body Black Bent



Torch Body Straight



Plasma Electrode



Plasma Nozzle

SP60 Plasma



Plasma Torch Body



Plasma Shield Cap



Plasma Nozzle



Plasma Electrode



Complete Torch

SG 51 PLASMA



PLASMA SHIELD CAP CERAMIC
PLASMA SHIELD CAP BLACK

SG 55 PLASMA / AG60



PLASMA TORCH



PLASMA NOZZLE



PLASMA SHEILD CAP



SWIRL RING



PLASMA NOZZLE TIP-1.0MM



PLASMA ELECTRODE



PLASMA ELECTRODE

ANTI SPATTER GEL



MIG NOZZLE GEL (400G)

For MIG Torch Nozzles and Contact Tips. Anti-spatter gel provides excellent protection against weld spatter build-up on MIG gun nozzles, tips, positioners, stud welding chunks and electrode holders on all semi and automatic welding apparatus.

Dipping of the hot MIG gun nozzle into gel creates a protective anti-spatter coating that eliminates spatter build-up during erratic operation. It will not cause porosity in the subject metal and helps eliminate electrode fusion to the contact tip during burn-back conditions.



For MIG Torch Nozzles and Contact Tips. Anti-spatter gel provides excellent protection against weld spatter build-up on MIG gun nozzles, tips, positioners, stud welding chunks and electrode holders on all semi and automatic welding apparatus.

Dipping of the hot MIG gun nozzle into gel creates a protective anti-spatter coating that eliminates spatter build-up during erratic operation. It will not cause porosity in the subject metal and helps eliminate electrode fusion to the contact tip during burn-back conditions.



ANTI SPATTER LIQUID

Water Based Weld-Spatter Agent

DESCRIPTION

Anti-Spatter liquid is a water based, paintable, cost effective and non-flammable agent for the prevention of weld-spatter adhering to metal surfaces during the welding process.

Anti-Spatter liquid has outstanding performance preventing spatter sticking to a wide range of steels, including mild steel, stainless, steels and aluminium.

Anti-Spatter liquid avoids the need for mechanical abrasion or grinding of weld spatter following welding. It contains corrosion inhibitors for base metal protection. It increases the life of torch components saving time and money. Eliminates spatter build up which results in poor gas flow causing pitting, porosity and burnbacks.

PHYSICAL PROPERTIES

Appearance	: Light red mixes freely with water
Boiling Point (Deg C)	: 100°C Specific Gravity : 1.008

BENEFITS

Reduces downtime for cleanup tasks	Non-toxic, biodegradable
No-flammable	Ozone safe
Uniform spray with no bubbles	Paintable, contains no silicones
User safe	Eliminates need for grinding unwanted spatter
Economical	Base Metal corrosion protection

DIRECTION FOR USE

Welding Torch

Spray Anti-Spatter liquid before welding in a thin and uniform film onto the areas to be protected. Hold spray can approximately 30 cm from the surface to be protected. Also use the spray to protect the interior and exterior of nozzles, the end and outer surface of contact tips, and all other potential areas which are subject to weld spatter. It may be advisable to spray diffusers and the base of the nozzle support as well.

Base Metal

Spray Anti-Spatter liquid hold spray can approximately 30 cm from surface to be protected. Spray a thin uniform coating. Do not over apply solution application may be detrimental to the weld quality.

Application Methods

Hand held spray applicator for welding torch components and base metal areas. Wiping and mopping may be used for base metal large areas.

NOTE

To remove Anti-Spatter liquid after use, clean the surface with Prosol Solvent Degreaser or equivalent steel compatible degreaser.

CAUTION

Avoid contact with eyes. Used in a well ventilated area.
Avoid prolonged skin contact (>24 hours).



ANTI-SPATTER NOZZEL & SHIELD

Water Based Weld-Spatter Agent

DESCRIPTION

Anti-Spatter liquid is a water based, paintable, cost effective and non-flammable agent for the prevention of weld-spatter adhering to metal surfaces during the welding process.

Anti-Spatter liquid has outstanding performance preventing spatter sticking to a wide range of steels, including mild steel, stainless, steels and aluminium.

Anti-Spatter liquid avoids the need for mechanical abrasion or grinding of weld spatter following welding. It contains corrosion inhibitors for base metal protection. It increases the life of torch components saving time and money. Eliminates spatter build up which results in poor gas flow causing pitting, porosity and burnbacks.



CAUTION

DIRECTION FOR USE

Welding Torch

Spray Anti-Spatter liquid before welding in a thin and uniform film onto the areas to be protected. Hold spray can approximately 30 cm from the surface to be protected. Also use the spray to protect the interior and exterior of nozzles, the end and outer surface of contact tips, and all other potential areas which are subject to weld spatter. It may be advisable to spray diffusers and the base of the nozzle support as well.

Base Metal

Spray Anti-Spatter liquid hold spray can approximately 30cm from surface to be protected. Spray a thin uniform coating. Do not over apply solution as excessive solution application may be detrimental to the weld quality.

Application Methods

Hand held spray applicator for welding torch components and base metal areas. Wiping and mopping may be used for base metal large areas.

NOTE

To remove Anti-Spatter liquid after use, clean the surface with Prosol Solvent Degreaser or equivalent steel compatible degreaser.

CAUTION

Avoid contact with eyes. Used in a well ventilated area.
Avoid prolonged skin contact (>24 hours).

FLOOR TYPE ELECTRODE OVEN designed for re-baking re-conditioning and holding of welding electrode for high quality weld. build in adjustable thermostat controlled with digital temperature display.

SPECIFICATION

- Drive Off Moisture & Get Better Weld.
- Beware Of Electrode Coating With More Than 20% Moisture, Welding Release
- Hydrogen, Hydrogen Promotes Cracking.
- **Stainless Steel Body** to Prevent Rust & Iron Contamination.
- Removable Shelving for Multi Usage.
- Build In Isolator for easy on/off.



Analogue Control with Digital

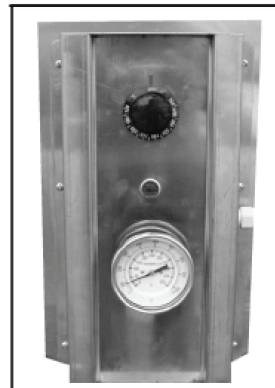
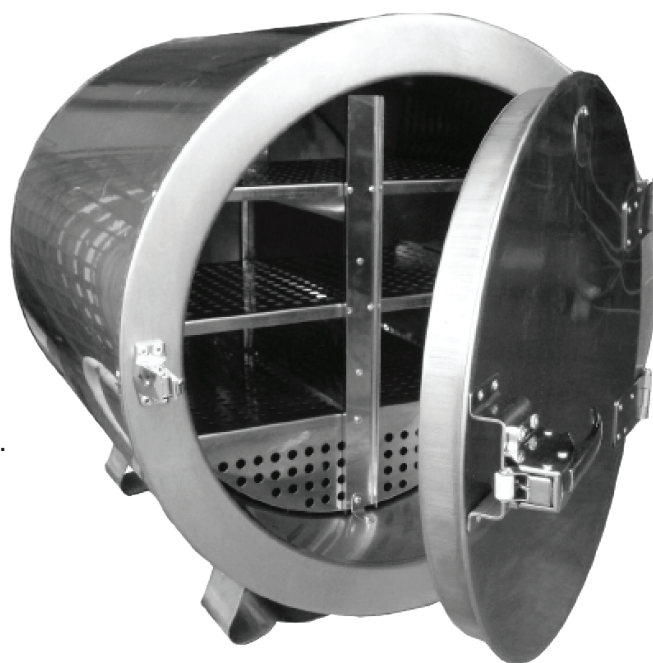


PRODUCT CODE	DESCRIPTION	LIST PRICE
E200S	FLOOR TYPE ELECTRODE OVEN (E200S)	
Capacity (Rod Lgth.450mm)	210 kgs (estimate)	
Temperature Range (Average Stabilized)	30° C ~ 400° C 86° F ~ 752° F	
Input Voltage AC- 50/60Hz	1ph, 190 ~ 240 V 2700 W	
External Dimension HxDxW	965 x 635 x 610mm 38"x 25"x 24"	
Internal Dimension HxDxW	560 x 560 x 510mm 22" x 22" x 20"	
Body Insulation (Ceramic wool)	50mm / 2"	
Net Weight	65 kgs / 143 lbs	

BENCH TYPE ELECTRODE OVEN designed for re-baking, re-conditioning and holding of welding electrode for high quality weld. With build in temperature gauge & adjustable thermostat control.

SPECIFICATION

- Drive off Moisture & Get Better Weld.
- Beware of Electrode Coating with more than 20% Moisture, Welding release Hydrogen.
- Hydrogen promotes cracking.
- Tubular twin Heating Element struts on bottom of Oven providing Circular shape heats interior evenly.
- **FULLY STAINLESS STEEL** to Prevent Rust & Iron Contamination.
- Removable Shelving for Multi Usage.
- Adjustable Temperature Control with Pilot light indicates Heat On.
- Build in Temperature Gauge for Temperature Reading.

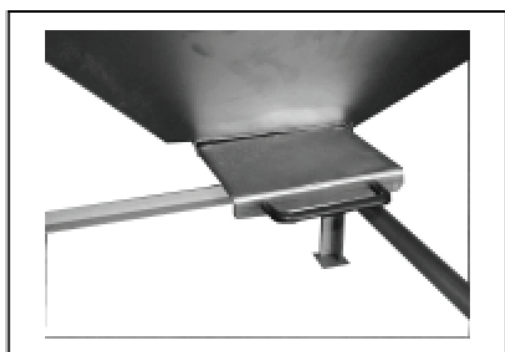


PRODUCT CODE	DESCRIPTION	LIST PRICE
BS151B	BENCH TYPE ELECTRODE OVEN (BS151B)	
Capacity (Rod Lgth.450mm)	150kgs (estimate)	
Temperature Range (Average Stabilized)	120° C ~ 440° C (248° F ~ 752° F)	
Input Voltage (Heating Element)	1ph, AC190 ~ 240 V-50/60hz (1800 W)	
External Dimension HxDxW	610 x 735 x 570mm 24" x 29" x 22.5"	
Internal Dimension HxDxW	455 x 520mm 18" x 20.5"	
Body Insulation (Rock wool)	50mm / 2"	
Net Weight	37kgs / 81 lbs	

VERTICAL TYPE FLUX OVEN designed for re-baking re-conditioning and holding of submerged arc flux for high quality weld and assist you in protecting your welding profits.

SPECIFICATION

- Drive off Moisture & Get Better Weld.
- Secure, Moisture-Proof Storage.
- **STAINLESS STEEL BODY** to Prevent Rust and Iron Contamination.
- Sloped Chamber for Gravity-Flow Dispensability.
- Adjustable Thermostatic Control with Pilot Light and Temperature Gauge for Temperature Setting and Reading.
- Insulated and Vented Hinged Top Cover for Loading Method.

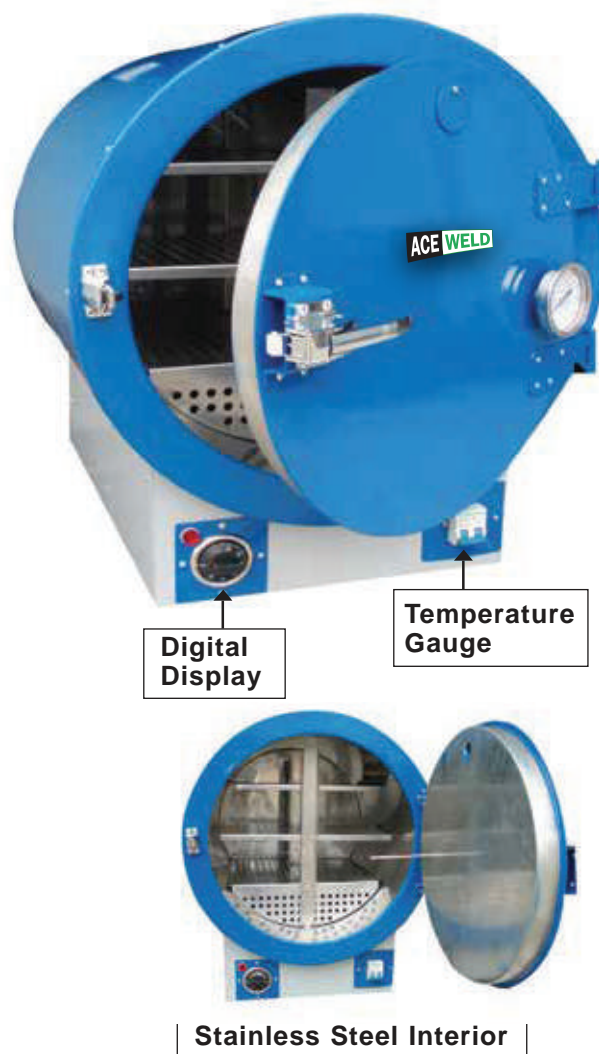


MODEL	F 100S	F 200S	F 300S
Capacity (estimate)	100 Liter (70kgs)	200 Liter (160kgs)	300 Liter (240kgs)
Temperature Range (Average Stabilized)	50° C ~ 300° C (122° F ~ 572° F)	50° C ~ 300° C (122° F ~ 572° F)	50° C ~ 300° C (122° F ~ 572° F)
Input Voltage AC - 50/60Hz	240 V	240 or 440 V (Specify one)	410 ~ 440 V (Specify one)
Heating Element	Tubular Type 1800 W	Tubular Type 2700 W	Tubular Type 3600 W
External Dimension H x D x W	1180 x 515 x 515 mm (46" x 20" x 20")	1250 x 610 x 610 mm (49" x 24" x 24")	1250 x 710 x 710 mm (49" x 28" x 28")
Body Insulation (Ceramic Wool)	50mm / 2"	50mm / 2"	50mm / 2"
Weight	53 kgs / 117 lbs	69 kgs / 152 lbs	86 kgs / 189 lbs

BENCH TYPE ELECTRODE OVEN designed for re-baking, re-conditioning and holding of welding electrode for high quality weld.with build in temperature gauge & adjustable thermostat control.

SPECIFICATION

- Drive off Moisture & get better Weld.
- Beware of Electrode Coating with more than 20% Moisture, Welding release Hydrogen, Hydrogen promotes cracking.
- Tubular twin Heating Element struts on bottom of Oven providing Circular shape heats interior evenly.
- **Stainless Steel interior** body Prevent Rust and Iron Free.
- Removable shelves for the drying of wire coil & pre-heat / post-heat of welded parts.
- Adjustable Temperature Control with Pilot light indicates Heat On.
- Build in Analog Control with Temperature Gauge or Digital Display.

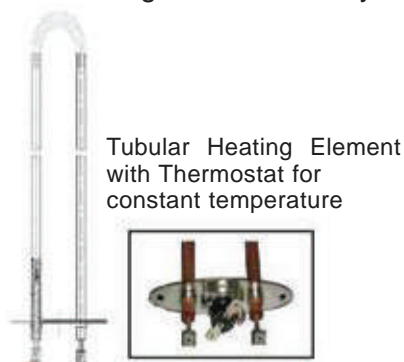


MODEL	BM 151H	BM151B
Capacity (Rod Lgth.450mm)	155kgs (estimate)	155kgs (estimate)
Temperature Range (Average Stabilized)	50 °C - 300°C (Analog) (122°F - 572°F)	30 °C - 400°C (Digital) (86°F - 752°F)
Input Voltage (Heating Element)	1ph,Ac 190 -240 V - 50/60hz(1800W)	1ph,Ac 190 -240 V - 50/60hz(2700W)
External Dimension	610 x 735 x 570mm (24" X 29"X22.5")	610 x 735 x 570mm (24" X 29"X22.5")
Internal Dimension dia. x deep	455 x 520mm (18" x 20.5")	455 x 520mm (18" x 20.5")
Body Insulation(Rock wool)	50mm/2"	50mm/2"
Net Weight	41Kgs (90lbs)	41Kgs (90lbs)

PORTABLE TYPE ELECTRODE OVEN design for holding of welding electrode for high quality welds with its constant temperature.

SPECIFICATION

- Drive Off Moisture & Get Better Weld.
- Beware Of Electrode Coating With More Than 20% Moisture, Welding Release
- Hydrogen, Hydrogen Promotes Cracking.
- Mild Steel interior Chamber coated with Heat Resistant paint for minimum heat loss.
- With its build in **Tubular Heating Element** it last longer and reliability than heating wire.



Ac only

PRODUCT CODE	DESCRIPTION	LIST PRICE
A5277000001 P05AC	PORTABLE TYPE ELECTRODE OVEN P 05A	
A5277000002 P10AC	PORTABLE TYPE ELECTRODE OVEN P 10A	
A5277000003 P05DC	PORTABLE TYPE ELECTRODE OVEN P 05D	
A5277000004 P10DC	PORTABLE TYPE ELECTRODE OVEN P 10D	

MODEL	P 05A	P 05D	P 10A	P 10D
Capacity(rod lght 450mm)	5kgs(estimate)	5kgs(estimate)	10kgs(estimate)	10kgs(estimate)
Input Voltage (+-10%)	AC 240V	DC 80V	AC 240V	DC 80V
Temperature (Approx)	150°C	150°C	150°C	150°C
Tubular Heating Element	135 W	115 W	135 W	115 W
Internal Dimension-mm	74 x 74 x 500	74 x 74 x 500	100 x 100 x 500	100 x 100 x 500
External Dimension-mm	145 x 150 x 625	145 x 150 x 625	180 x 180 x 625	180 x 180 x 625
Body Insulation(Rock wool)	25 mm / 1"	25 mm / 1"	25 mm / 1"	25 mm / 1"
Weight	5.3 kgs / 11.7 lbs	5.3 kgs / 11.7 lbs	6.3 kgs / 13.9 lbs	6.3 kgs / 13.9 lbs



MODEL : ACE WELD 5KG AC/DC ELECTRODE DRYER
AC/DC TYPE
AC230V-50HZ
DC60V-110V
450MM LENGTH ELECTRODE

MODEL : ACE WELD 10KG AC/DC ELECTRODE DRYER
AC/DC TYPE
AC230V-50HZ
DC60V-110V
450MM LENGTH ELECTRODE

STANDARD ACCESSORIES



DC CABLE ADAPTOR



AC CABLE ADAPTOR

LY600A

Filter function analysis

1. LCD
2. Sensor
3. Solar Battery
4. Welding/Grinding



Filter Model	LY600A	LY600B	LY600H
Filter Size	110mm x 90mm x 9mm		
Active Viewing Area	92.5mm x 42.5mm	100mm x 50mm	98mm x 43mm
Light Shade	DIN4		
Dark Shade	DIN9 ~ DIN13		
Way to shift Dark State	Outer Control, Stepless Shift		
Switching Time	≤ 3 / 10000S		
Sensitivity Adjustment	Stapless Control		
Delay Time	0.1S ~ 0.8S		
Power Supply	Lithium Battery & Solar Supply		
Rated Capacity of Lithium Battery	600mAH	420mAH	600mAH
Replaceable Lithium Battery	YES		
Operating Temperature	-20°C ~ +65°C		
Sensors to Weld Arc	2		
Protect Grade against UVB	DIN16		
Grind	YES		
Low Battery	YES		
Test	YES		

PRICE LIST

PRODUCT CODE	DESCRIPTION	PRICE (RM)
A8200701001	SOLAR HELMET BLUE EAGLE	
A8200701002	SOLAR HELMET RED EAGLE	
A8200701003	SOLAR HELMET SILVER EAGLE	
A8200701004	SOLAR HELMET SILVER	

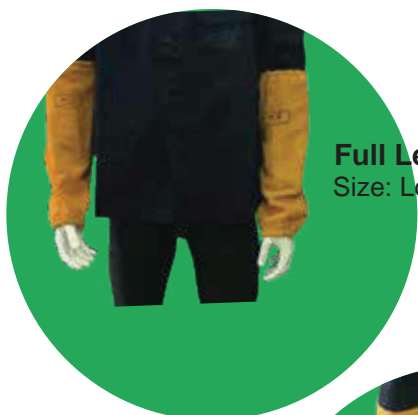


Golden Full Protective Hood
Size: High 39cm
Size: Perimeter 50cm



Leather Welding Apron

Size: L Width 67cm
Length 94cm
XL Width 70cm
Length 107cm



Full Leather Sleeves
Size: Long 40cm



Leather Sleeveless Welding Apron

Size: L Width 58cm - 68cm
Length 90cm - 94cm



Leather Leggings Spats
Size: Long 30cm



Leather Welding Jacket

Size:	Shoulder	Circumference	Length	Sleeve	Height
L	50cm	113cm	76cm	63cm	170cm below
XL	52cm	118cm	78cm	65cm	170-175cm

SAFETY GLOVE

Argon TIG Glove



Welding Leather Hand Glove 13"



Semi Leather Hand Glove 10.5"





Ace Weld DC gouging carbons are suitable for boring, cutting, removing of defects in welds and casts and fushing excess metal of the weld.

FEATURES

- Designed especially for the air cabon arc metal removal process, which melts metal with an electric arc, then blows it away with a jet of ordinary shop compressed air
- Contain a precisely formulated blend of carbon and graphite that produces the most efficient metal removal performance
- Excellent arc stability, superior metalremoval rates, resistance to breakage, heat and oxidation, uniform diameter and clean slag free grooves



Gouging Torch

Gouging Carbon DC, Pointed

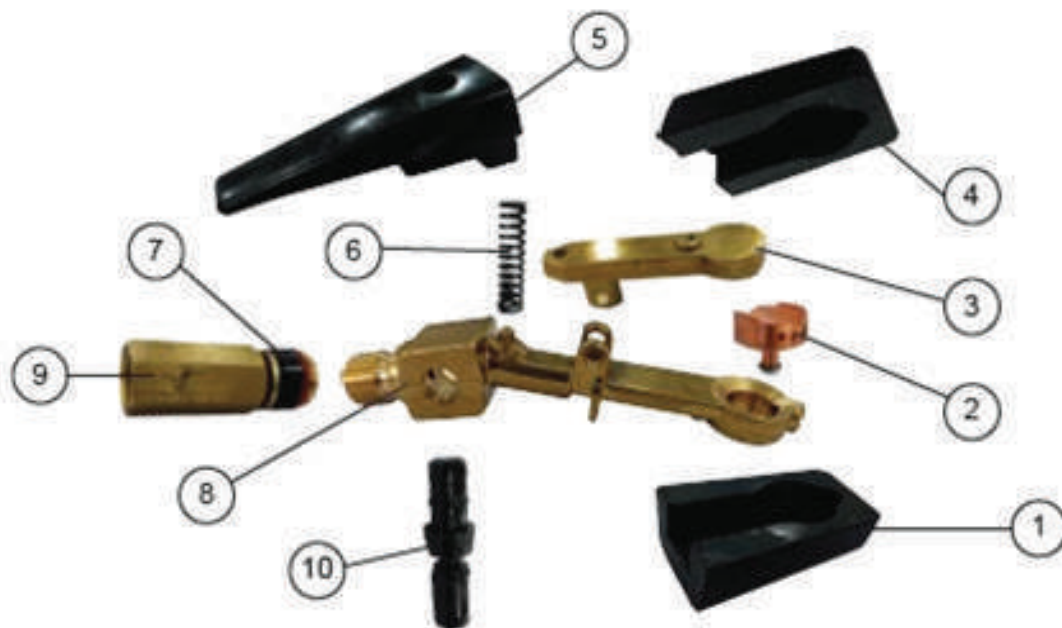
For general purpose grooving, cutting, welding inspection and removing over-welded parts

PRODUCT CODE	DESCRIPTION	PRICE (RM)
A5226074012	4.0mm x 305mm	
A5226075012	5.0mm x 305mm	
A5226076412	6.4mm x 305mm	
A5226078012	8.0mm x 305mm	
A5226079512	9.5mm x 305mm	
A5226071112	11.0mm x 305mm	
A5226071312	13.0mm x 305mm	
A5226040001	K4 Gouging Torch 2MTR	
A5226040002	K3 Gouging Torch 2MTR	

Angle-Arc K4000 Gouging Torch



Heavy duty 1000 amp(max) torch accepts 5/32" (4.0mm) to 1/2" (12.7mm) round electrode
3/8" (9.5mm) & 5/8" (15.9mm) flat electrodes



- 1. Insulation
- 2. Head Assy
- 3. Upper Arm
- 4. Insulation
- 5. Press Handle

- 6. Spring
- 7. Bonnet
- 8. Dump Arm
- 9. Connector
- 10. Spod Assy



PRODUCT	PRICE (RM)
Argon Gas (Ar)	



PRODUCT	PRICE (RM)
Oxygen Gas (O2)	



PRODUCT	PRICE (RM)
Carbon Dioxide (CO2)	



PRODUCT	PRICE (RM)
Nitrogen Gas (N2)	

10L Seamless Steel Cylinder c/w Handle

Cylinder Type	For O2, N2, Ar & CO2 Service	For DA Service c/w Porous Mass
Standard	ISO9809	ISO9809
Water Capacity	10L	10L
Nominal Outside Diameter	159mm	159mm
Wall Thickness	4.7mm	4.7mm
Nominal Height	680mm	680mm
Nominal Weight	14.3kg	14.3kg
Work Pressure	150bar	150bar
Test Pressure	250bar	250bar
Material	37Mn	37Mn



PRODUCT	PRICE (RM)
Acetylene Gas (DA)	

AW OXY – ACETY CUTTING SETS

- 10LITRE ACETYLENE CYLINDER
- 10LITRE OXYGEN CYLINDER
- AW ACETYLENE REGULATOR
- AW OXYGEN REGULATOR
- TWIN HOSE 10MTR
- AW CUTTING TORCH NM250(HEAVY DUTY)
- DOUBLE TWIN TROLLEY SMALL
- AW FLASHBACK ARRESTOR ACETYLENE FOR REGULATOR
- AW FLASHBACK ARRESTOR OXYGEN FOR REGULATOR



Portable Two Wheel Cylinder Trolley

- PORTABLE TWO-WHEEL CYLINDER TROLLEY ARE FITTED 6" SOLID RUBBER WHEELS TO ACCOMMODATE A 1.4M3 OXYGEN CYLINDER/1.5M3 ACETYLENE CYLINDER AND IS PORTABLE YET STABLE.

Industrial Two Wheel Cylinder Trolley

- INDUSTRIAL TWO WHEEL CYLINDER TROLLEY ARE FITTED WITH 8" SOLID RUBBER WHEELS TO ACCOMMODATE A 10.7M3 OXYGEN CYLINDER/ 6.3M3 ACETYLENE CYLINDER. STRONGLY WELDED AND A HIGHLY RECOMMENDED FOR ROUGH FLOOR, MEDIUM AND LARGE SHOP GARAGES.



IS168

Affordable, Portable, Reliable, Stable



Functions & Features

1. Auto Hot Start, Anti-stick, Arc Force
2. Intelligent Protection For Over-loading And Over-heating;
3. Micro Size, About 6500pcs/40HQ, 2600pcs/20GP.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
IS168	240V/1P/50-60HZ	140	30A	20-160	230*100*150	2.8kg

ARC3000 Premium

Affordable, Portable, Reliable, Stable



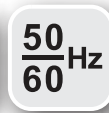
Functions & Features

- Advanced IGBT inverter technology
 - ◆ High inverter frequency greatly reduces the volume and weight of the welder.
 - ◆ Great reduction in magnetic and resistance loss obviously enhances the transformer efficiency and energy saving effect.
 - ◆ Working frequency is beyond audiorange, which almost eliminates noise pollution.
- Leading control mode
 - ◆ Advanced control technology meets various welding applications and greatly improves the welding performance.
 - ◆ It can be widely used in acid and basic electrode welding.
 - ◆ Easy arc starting, less spatter, stable current and good shaping.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
ARC3000 PREMIUM	240V/1P/50-60HZ	200	28.6A	10-300	400*155*275	11.8kg

MMA200E

Economical, Excellent, Affordable, Portable, Extremely Small Package



Functions & Features

Use the latest high grade IGBT technology.
Wide range input voltage: 220V±15%.
Intelligent protection for over-loading and over-heating.
Anti-stick function built-in, preventing against over loading the unit and easing removal of the electrode.
Non-stop welding for 2.5mm electrode, can welding 3.2mm diameter electrode.
Compact and portable (2Kg) with adjustable shoulder strap.
Suitable for home use, maintenance, installation, etc. requirements.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input at Rated Output	Output Range/OCV	Dimension (mm)	Weight (kg)
MMA 200E	220V/1P/50-60Hz	140A/25.6V/15% 55A/22.2V/100%	26.5A	30-140A/54V	204*87*146	2kg

ARC200GE II

Excellent, Professional, Reliable and Rugged



Features description

- Built-in Microprocessor.
- Use the latest high grade IGBT inverter technology.
- Wide range input voltage: 1P 220V± 15%.
- Can be used with matching generator.
- VRD adjustable by press the stand-by button for about 5S.
- Anti-sticking, Arc force and Hot start function built-in, providing excellent experience in welding.
- Fan as needed function, reduces noise and dust inside the machine.
- Non-stop welding for 2.5mm and 3.2mm diameter electrode.
- Intelligent protection for over-loading, over-voltage and over-heating.
- Widely used in acid and basic electrode welding.
- Compact and portable (3.4Kg) with adjustable shoulder strap and handle.
- Suitable for maintenance, installation, etc. indoor and outdoor requirements.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
ARC 200GE II	220V/ 1P/ 50-60HZ	140A/25.6V/20% 63A/22.5V/100%	25.5A@140A	40-140A/58V/17V(VRD)	290x123x216	3.4kg

Classic ARC250GE

Excellent, Professional, Reliable and Rugged



Features description

- Use 100 KHz inverter COOL- MOSFET technology.
- With plastic corner, sloping front panel.
- Adopt new techniques that maximizing thermal dissipation with 4 separated heat sinks.
- Greatly improved the welding performance and stability; easy striking under low voltage.
- Intelligent protection: over-voltage, over-loading and over-heating.
- Auto-Adaptive arc force and hot start current.
- Anti-stick function built-in.
- Energy-efficient: power factor more than 0.7, efficiency more than 85%.
- Generator set okay.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
ARC250GE	220V/1P/50-60HZ	200A/28V/20% @ 40°C 150A/26V/100% @ 40°C	42.8A @ 200A	30-200A/60V	402x160x300	6.5kg

NEW ARC200T

Excellent, Professional, Reliable and Rugged



Features description

- Use 100 KHz inverter COOL-MOSFET technology.
- With plastic corner, sloping front panel.
- Adopt new techniques that maximizing thermal dissipation with 4 separated heat sinks.
- Greatly improved the welding performance and stability; easy striking under low voltage.
- Intelligent protection: over-voltage, over-loading and over-heating.
- Auto-Adaptive arc force and hot start current.
- Anti-stick function built-in.
- VRD function built-in.
- Pass the high voltage 3750V AC dielectric strength test, safe for welder.
- Energy - efficient: power factor more than 0.7, efficiency more than 85%.
- Generator set okay.
- KJO-50 socket/plug, LED Display and machine appearance optional.



Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
ARC 200T	220V/1P/50-60Hz	160A/26.4/30%	35A @ 160A	30-160A/58V/18V(VRD)	402*160*300	6.5kg

Classic ARC200CT

Excellent, Professional, Reliable and Rugged



Features description

- Use 100 KHz inverter COOL-MOSFET technology.
- With plastic corner, sloping front panel.
- Adopt new techniques that maximizing thermal dissipation with 4 separated heat sinks.
- Greatly improved the welding performance and stability; easy striking under low voltage.
- Intelligent protection: over-voltage, over-loading and over-heating.
- Auto-Adaptive arc force and hot start current.
- Anti-stick function built-in.
- Energy-efficient: power factor more than 0.7, efficiency more than 85%.
- Generator set okay.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
ARC200CT	220V/1P/50-60HZ	170A/26.8V/20% @ 40°C 120A/24.8V/100% @ 40°C	34.8A @ 170A	30-170A/60V	402x160x300	6.2kg

Classic ARC250CT

Excellent, Professional, Reliable and Rugged



Features description

- Use 100 KHz inverter COOL- MOSFET technology.
- With plastic corner, sloping front panel.
- Adopt new techniques that maximizing thermal dissipation with 4 separated heat sinks.
- Greatly improved the welding performance and stability; easy striking under low voltage.
- Intelligent protection: over-voltage, over-loading and over-heating.
- Auto-Adaptive arc force and hot start current.
- Anti-stick function built-in.
- Energy-efficient: power factor more than 0.7, efficiency more than 85%.
- Generator set okay.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
ARC250CT	220V/1P/50-60HZ	200A/28V/20% @ 40°C 150A/26V/100% @ 40°C	42.8A @ 200A	30-200A/60V	402x160x300	6.5kg

ARC251C

Excellent, Professional, Reliable and Rugged



Features description

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- VRD adjustable.
- Arc force adjustable.
- Self-adaptive Hot start built-in, Anti-sticking.
- Recommend for 4.0mm and 5.0mm electrode.
- Suitable for acid electrode, basic electrode and cellulosic electrode.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
ARC 251C	220V/1P/50-60Hz	230A/29.2V/30% 160A/26.4V/100%	47A@230A	30-230A/65V/15V(VRD)	472*203*357	8.5

ARC315C

Powerful Output Current of 230A At Single Phase.



Features description

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- VRD adjustable.
- Arc force adjustable.
- Self-adaptive Hot start built-in, Anti-sticking.
- Recommend for 4.0mm and 5.0mm electrode.
- Suitable for acid electrode, basic electrode and cellulosic electrode.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
ARC 315C	415V/3P/50-60Hz	270A/30.8V/20% 170A/26.8V/100%	16.8A@270A	40-270A/63V	472*203*357	12.5

Heavy Industrial MMA400G

Dependable, Economical, Excellent, Basic Industrial Stick Welding



Features description

- IGBT technology, the core adopts advanced IGBT inverter device.
- Wide range for input voltage: 380V±15%.
- Digital meter to preset and display welding current.
- Dust-Free Cooling System can Upgraded Duty Cycle.
- Arc force and Hot start adjustable, easy to strike the arc.
- VRD function, it is safe for welders.
- Remote control function (optional), enlarge your welding Area, easy to operate.
- Energy Saving - More efficient compared with the traditional SCR machine.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MMA400G	415V/3P/50-60HZ	400A/36V/40% @ 40°C 315A/32.6V/100% @ 40°C	27.6A @ 400A	40-400A/68V/15V (VRD)	485x234x425(mm)	22kg

MMA500G

The Priority Selection for Industry.



Features description

- VRD adjustable.
- Arc force adjustable.
- Hot start adjustable.
- Recommend for 5.0mm electrode.
- Suitable for acid electrode, basic electrode and cellulosic electrode.
- Tri-proof air duct design.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input at Rated Output	Output Range/OCV	Dimension (mm)	Weight (kg)
MMA 500G	415V/3P/50-60Hz	480A/39.2V/40% 304A/32.2V/100%	36.2A @ 480A	40-480A/68V	515*262*468	26

ARC400IT

Reliable, Rugged, Heavy Duty Industrial Professional Choice



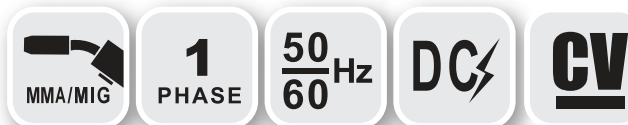
Features description

- Whatever 3.2mm, 4.0mm or 5.0mm diameter electrode, can be used casually.
- Hot start current adjustable, can fast ignite arc
- Arc force current adjustable, can effectively solve the small current sticky electrode.
- Equip with current and voltage meter, convenient for welding parameter monitoring.
- The standard with remote control socket, make it easy to adjust the welding current at long-distance.
- Wide range for input voltage (320-440V). Suitable for generator set.
- 200 meters and 35 square output cable; 4.0mm electrode can be 24 hours without interruption

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
ARC400IT	415V/3P/50-60HZ	400A/36V/60% @ 40°C	28.6A @ 400A	40-400A/62V/20V(VRD)	480x234x425(mm)	22kg

MIG135E

DIY, Compact, Pocket tool, No-gas Welder



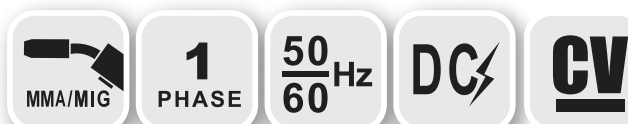
Features description

- Advanced IGBT inverter technology.
- Available to 1kg flux-cored self-shield wire, actually welding without gas.
- Synergy, greatly reduce difficult to adjustment, especially for new hand.
- Stable welding performance on small current around 40A, which enhance the capacity to weld thinner metal.
- Lower spatter than that of general flux-cored welding machine.
- Wire inching function act as you press the trigger about 3s under no load.
- Fan as needed, reduce noise and dust inside the machine.
- Intelligent protection: over-current, over-voltage, over heating protection.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MIG135E	230V/1P/50-60Hz	90A/18.5V/20% 45A/16.3V/100%	13.4A@100A	45-100A/58V	318*135*240	5.4KG

MIG251GE

Economical, Compact, Efficient, Gas and Gasless Welder



Features description

- Equipped with Riland's self-developed RICH1 chip and use the advanced IGBT inverter technology.
- Available to 5kg flux-cored self-shield wire, actually welding without gas and add hand welding function. High performance in GAS and GASLESS modes Expert parameters, unified adjustment. Parameters can be fine-tuned for better welding
- Synergy, greatly reduce difficult to adjustment, especially for new hand.
- Stable welding performance on small current around 40A, which enhance the capacity to weld thinner metal and 0.8mm sheet, spot welded without perforation
- Lower spatter than that of general flux-cored welding machine.
- Wire inching function act as you press the trigger about 3s under no load.
- Fan as needed, reduce noise and dust inside the machine.
- Intelligent protection: over-current, over-voltage, over heating protection.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MIG 251GE	230V/1P/50-60Hz	MIG: 160A/22V/20% 80A/18V/100% MMA: 140A/25.6V/20% 65A/22.6V/100%	MIG: 27A@160A MMA: 27.2A@140A	MIG: 50-160A/61V *MMA: 40-140A/61V	418*178*270	6KG

MIG200CT



Features description

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- Current, voltage and inductance adjustable.
- Wire diameter selectable.
- Polarity change.
- Compatible with 1kg(100mm) and 5kg(200mm) wire spool.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input at Rated Output	Output Range/OCV	Dimension (mm)	Weight (kg)
MIG 200CT	220V/1P/50-60Hz	MIG: 200A/24V/25% 130A/20.5V/100% MMA: 180A/27.2V/30% 110A/24.4V/100%	MIG: 36.5A@200A MMA: 36@180A	MIG: 40-200A/59V MMA: 20-180A/59V	467*203*476	14

MIG251

Compact, Portable, Professional, Excellent



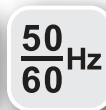
Features description

- Use 100KHz inverter MOSFET technology.
- Additional wire diameter selection of 0.8/1.0. Available to weld 0.8 and 1.0 wire by MIG251.
- Wire inching button near the wire feeder. Help you to push the wire quickly from wire feeder to MIG torch contact tip.
- Wide input voltage adaptive. Normal work under 187V - 253V.
- Polarity change function inside, weld with no gas protection in this function by using flux-cored self-shield wire.
- 1KG/5KG/15KG spool adaptive, enrich the choice of different spool.
- Intelligent protection: over-heating, over-current, over-voltage protection, convey for the welder to keep power.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage /Duty Cycle	Amps Input at Rated Output	Output Range/OCV	Dimension	Weight
MIG 251	220V/1P/50-60Hz	MIG: 220A/25V/30% 120A/20V/100% MMA: 180A/27.2V/30% 100A/24V/100%	MIG: 40A@220A MMA: 35.6A@180A	MIG: 40-220A/45V MMA: 20-180A/45V	475*200*447	12.5 KG

Power MIG271GW

Economical, Excellent, Flexible, Professional



Features description

- Advanced IGBT inverter technology.
- Dual welding process: MIG & MMA.
- Arc Trait (Inductance) adjustable.
- External wire feeder with voltage and current adjustable.
- Digital Meters - Voltage and Amperage preview and hold capability.
- Polarity change function to weld flux-cored self-shield wire as the front panel show.
- Auto-Adaptive arc force and hot start current. (For MMA function)
- Adapt to 15kg wire spool.
- Dust-Free cooling system, enhance higher Duty Cycle.
- Intelligent protection: over-voltage, over-loading and over-heating.
- Power source with protect corner, more durable.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
MIG271GW	220/1P/50-60Hz	MIG: 250A/26.5V/30% 140A/21V/100% MMA: 220A/28.8V/30% 120A/24.8V/100%	MIG: 50A@250A MMA: 48A@220A	MIG: 40-250A/60V MMA: 40-220A/60V	472*253*485	21kg

Power MIG250GS

Excellent, Dependable, Professional, Flexible, Simple and Rugged



Features description

- IGBT technology, the core adopts advanced IGBT inverter device.
- Infinite Voltage Control with optimized starting performance.
- Inductance Control for arc stability and spatter control.
- Digital Meters: Voltage and Amperage; Preview and Hold capability.
- Trigger Control: 4T (Latch) eliminates operator fatigue.
- Quick Change Polarity: Simple quick change polarity (no tools required) from the front of the power source.
- Thermal overload protection helps prevent machine damage.
- Easy to move: the gas cylinders with the power supply is convenient to move.

Model	Input voltage/ Phase/ Frequency	Output current/ Voltage/ Duty cycle	Amps Input at Rated Output	Output range/ OCV	Dimension	Weight
MIG250GS	220V/1P/50-60HZ	MIG: 250A/26.5V/35% @ 40°C 180A/23V/100% @ 40°C MMA: 220A/28.8V/30% @ 40°C 160A/26.4V/100% @ 40°C	50A @ 250A	50-250A/56V	615x276x760(mm)	45kg

Power MIG300GS

Integrated, Efficient, Premium Welding Solution



Features description

- IGBT technology, the core adopts advanced IGBT inverter device.
- Infinite Voltage Control with optimized starting performance.
- Inductance Control for arc stability and spatter control.
- Digital Meters - Voltage and Amperage; Preview and Hold capability.
- Trigger Control - 4T (Latch) eliminates operator fatigue.
- Quick Change Polarity - easing and quickly change polarity (no tools required) from the front of the power source.
- Thermal overload protection helps prevent machine damage.
- Easy to move: the gas cylinders with the power supply is convenient to move.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MIG300GS	220V/3P/50-60HZ 220V/1P/50-60HZ	3P:MIG: 300A/29V/35%@40°C 250A/26.5V/100%@40°C MMA:300A/32V/35%@40°C 250A/30V/100%@40°C 1P:MIG: 250A/26.5V/35%@40°C 200A/24V/100%@40°C MMA:250A/30V/35%@40°C 200A/28V/100%@40°C	29.1A@300A(3P) 47.2A@250A(1P)	60-300A/56V(3P) 40-250A/56V(1P)	995x460x950(mm)	60kg

Power MIG350GF

Economical, Excellent, Flexible, Professional



Features description

- IGBT technology, the core adopts advanced IGBT inverter device.
- Infinite Voltage Control with optimized starting performance.
- Inductance Control for arc stability and spatter control.
- Digital Meters - Voltage and Amperage; Preview and Hold capability.
- Wire size and type selection, Help you match the welding parameters quickly.
- Dust-Free cooling system, Enhance higher Duty Cycle.
- Trigger Control - 4T (Latch) eliminates operator fatigue.
- Overload Protection - Shuts down the power source to protect the internal electrical components from overheating.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MIG350GF	415V/3P/50-60HZ	MIG: 350A/31.5V/35%@40°C 250A/26.5V/100%@40°C MMA:350A/34V/30%@40°C 250/30V/100%@40°C	25.8A@350A	60-350A/61V	515x262x468(mm)	30kg

Power MIG500GF

Economical, Excellent, Flexible, Professional



Features description

- IGBT technology, the core adopts advanced IGBT inverter device.
- Infinite Voltage Control with optimized starting performance.
- Inductance Control for arc stability and spatter control.
- Digital Meters - Voltage and Amperage; Preview and Hold capability.
- Wire size and type selection, Help you match the welding parameters quickly.
- Dust-Free cooling system, Enhance higher Duty Cycle.
- Trigger Control - 4T (Latch) eliminates operator fatigue.
- Overload Protection - Shuts down the power source to protect the internal electrical components from overheating.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MIG500GF	415V/3P/50-60HZ	MIG: 450A/36.5V/40% @ 40°C 3 55A/31.7V/100% @ 40°C MMA: 450A/38V/40% @ 40°C 3 55A/34.2V/100% @ 40°C	31.8A @ 450A	60-450A/61V	515x262x468(mm)	30kg

Rugged MIG500I

Powerful, Reliable, Rugged, Industrial DC MIG Welder



Features description

- Advanced IGBT Module technology, Tri-proof air tube design, high duty cycle, more reliable under the poor environment.
- Infinite Voltage Control with optimized starting performance.
- Inductance Control for arc stability and spatter control.
- Digital Meters - Voltage and Amperage; Preview and Hold capability.
- Wire size and type selection, Help you match the welding parameters quickly, Dust-Free cooling system, Enhance higher Duty Cycle.
- Trigger Control - 4T (Latch) eliminates operator fatigue.
- Thermal overload protection helps prevent machine damage.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
MIG500I	415V/3P/50-60HZ	MIG: 500A/39V/60% @ 40°C 387A/33.3V/100% @ 40°C MMA: 500A/40V/60% @ 40°C 387A/35.3V/100% @ 40°C	37.5A @ 500A (MIG) 38.4A @ 500A (MMA)	50-500A/60V (MIG) 50-500A/60V (MMA)	670x320x640(mm)	42kg

TIG200SE

Devoted In Welding Stainless Steel



Functions & Features

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- Post-gas adjustable.
- The success rate of arc striking is up to more than 99%.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
TIG 200 E	220V/1P/50-60Hz	190A/17.6V/30% 160A/16.4V/100%	26A@190A	10-190A/45V	402*160*300	6.5

TIG250CE

Devoted In Welding Stainless Steel



Functions & Features

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- Post-gas adjustable.
- The success rate of arc striking is up to more than 99%.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
TIG 250CE	220V/1P/50-60Hz	220A/18.8V/25% 170A/16.8V/100%	31.5A@220A	10-220A/45V	402*160*300	6.5

TIG250CT



Functions & Features

- New generation of MOSFET inverter welding machine.
- Dual function: HF-TIG and MMA.
- The whole machine is stable and reliable.
- Wide range for input voltage.
- With 100% success ignition rate.
- The post time of gas adjustable (0.5-10s).
- No fake on the output current of machine.
- Excellent welding performance for thin sheet metal.
- Very low cost of use.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage /Duty Cycle	Amps Input at Rated Output	Output Range/OCV	Dimension	Weight
TIG 250CT	220V(±15%)/1P/50-60Hz	MMA:190A/27.6V/30% @40°C TIG:230A/19.2V/30% @40°C	MMA:40.8A@ 190A TIG:34.4A@ 230A	10-190A/65V(MMA) 10-230A/65V(TIG)	402×160×300(mm)	7.5KG

TIG300A

Industrial, Classical, DC



Functions & Features

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- 2T/4T.
- Post-flow adjustable.
- Up-slope and down-slope adjustable.
- Arc force adjustable.
- The success rate of arc striking is up to more than 99%.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
TIG 300A	220V/1P/50-60Hz	TIG: 300A/22V/30% 164A/16.5V/100% MMA: 230A/29.2V/30% 125A/25V/100%	TIG: 52A@300A MMA: 49A@230A	TIG: 10-300A/15V MMA: 20-230A/60V	472*203*357	12.5

New TIG200PAC/DC

Excellent, Precise, Professional, Reliable and Rugged



Functions & Features

- The mature MOSFET inverter technology.
- Multi-function, TIG and MMA.
- Current and gas post time adjustable, enrich controlling ways of welding shape.
- 2T/4T function, abundant modes to service various welding demands.
- Arc striking current/ peak current/ base current adjustable, all for welding with better performance.
- Current upslope time/ current downslope time adjustable, the reliable protection for welding shape.
- Pulse frequency adjustable, different pulse frequency lead to different welding shape to meet demands.
- Pulse duty ratio/ pulse width clean/ post gas adjustable, abundant ways to control welding process.
- Intelligent protection: over -heating, over-current, over-voltage protection, convoy for the welder to keep power.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage /Duty Cycle	Amps Input at Rated Output	Output Range/OCV	Dimension	Weight
TIG 200PAC/DC	220V/1P/50-60Hz	TIG: 190A/17.6V/30% 104A/14.2V/100% MMA: 150A/26V/30% 82A/23.3V/100%	TIG:30A@190A MMA:30@150A	TIG: 10-190A/45V MMA: 10-150A/45V	476*340*402	14.2KG

TIG250PAC/DC

Full Function and Expert In Welding Aluminum



Functions & Features

- AC/DC selectable.
- Pulse frequency and pulse width adjustable.
- AC balance adjustable.
- 2T/4T.
- Post-gas adjustable.
- Down-slope adjustable.
- Arc-striking current and arc-extinction current adjustable.
- Tri-proof air duct design.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
TIG 250PAC/DC	220V/1P/50-60Hz	TIG: 210A/18.4V/30%@40°C 150A/16V/100%@40°C MMA: 160A/26.4V/30%@40°C 120A/24.8V/100%@40°C	TIG: 36.5A@210A MMA: 35.4A@160A	TIG: 10-210A/96V(AC)/68V(DC) MMA: 10-160A/60V	476*340*402	20

Pulse TIG315BPAC/DC

Multi-Process, Precision, Premium Welding Solution



Functions & Features

- Advanced inverter technology delivers superior TIG performance.
- Untouch Start DC TIG operation allows you to strike the arc easily with high frequency, and makes it easy to establish an arc under a variety of conditions.
- Pulse Width, Pulse Frequency, AC Balance, Up Slope and Down Slope Function Adjustable.
- Automatic Hot Start boosts the current during the beginning of making an arc striking easier.
- 2T/4T and Repeat Function Selectable on the front panel.
- Remote Control Function Ready! - Remotely control your current level with a foot controller.
- Auto-Protection against over-voltage, over-current and over-heated.
- Energy Saving - More efficient compared with the traditional TIG machine.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
TIG315BPAC/DC	415V/3P/50-60HZ	TIG: 315A/22.6V/60%@25°C 245A/19.8V/100%@25°C MMA: 250A/30V/60%@25°C 195A/27.8V/100%@25°C	15A@315A(TIG) 14A@250A(MMA)	10-315A/56V(TIG) 30-250A/56V(MMA)	616×326×620(mm)	39kg

New TIG400PAC/DC Digital

Excellent, Precise, Professional, Reliable and Rugged



Functions & Features

- The mature IGBT tube inverter technology.
- Multi-function, TIG and MMA.
- Current and gas post time adjustable, enrich controlling ways of welding shape.
- 2T/4T function, abundant modes to service various welding demands.
- Arc striking current / peak current / base current adjustable, all for welding with better performance.
- Current upslope time / current downslope time adjustable, the reliable protection for welding shape.
- Pulse frequency adjustable, different pulse frequency lead to different welding shape to meet demands.
- Pulse duty ratio / pulse width clean / post gas adjustable, abundant ways to control welding process.
- Intelligent protection: over-heating, over-current, over-voltage protection, convey for the welder to keep power.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage /Duty Cycle	Amps Input at Rated Output	Output Range/OCV	Dimension	Weight
TIG 400PAC/DC	380V/3P/50-60Hz	TIG: 400A/26V/40% 253A/20.1V/100% MMA: 310A/32.4V/60% 240A/29.6V/100%	TIG: 20.8A@400A MMA: 20.1A@310A	TIG: 12-400A/60V MMA: 30-310A-60V	670*320*640	40kg

Precision DC TIG400GT

Excellent, Professional, Reliable, Rugged, Basic Industrial TIG Welding



Functions & Features

- Advanced IGBT inverter technology delivers superior TIG performance.
- Dual welding process: HF TIG and MMA.
- 2T/4T function selectable, which is convenient for welder.
- Untouch start DC TIG operation allows you to strike the arc easily with high frequency, and makes it easy to establish an arc under a variety of conditions.
- Arc force, up slope and down slope function adjustable.
- Pass the high voltage 375V AC dielectric strength test bringing you reliable quality.
- Energy-efficient: power factor more than 0.9, efficiency more than 80%.
- Intelligent protection: prevent over-voltage, over-loading and over-heating, low-voltage protection.
- Energy Saving - More efficient compared with the traditional TIG machine.

Model	Input voltage/Phase/Frequency	Output current/Voltage/Duty cycle	Amps Input at Rated Output	Output range/OCV	Dimension	Weight
TIG400GT	415V/3P/50-60HZ	TIG: 400A/26V/40%@40°C 310A/22.4V/100%@40°C MMA:380A/35.2V/40%@40°C 253A/30.1V/100%@40°C	22A @ 400A(TIG) 26.6A @ 380A(MMA)	10-380A/60V(TIG) 30-320A/60V(MMA)	508x244x423(mm)	25kg

CUT40CT



Functions & Features

- New generation of MOSFET inverter plasma cutting machine.
- The post time of gas adjustable (5-20s).
- With 100% success ignition rate, quality narrow cutting and excellent travel speed.
- Recommended thickness(Carbon Steel):10mm.
- More compact and portable.
- The Most Cost-effective

Model	Input Voltage/Phase/Frequency	Output Current/Voltage /Duty Cycle	Amps Input at Rated Output	Output Range/OCV	Dimension	Weight
CUT 40CT	220V(±15%)/1P/50-60Hz	40A/92V/30% @40°C	28.6A@ 40A	15-40A/300V	402×160×300(mm)	7KG

CUT60CT

The Priority Selection For General Industrial Demand



Functions & Features

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- Quality cut up to 10mm thickness carbon steel, max cut up to 16mm thickness carbon steel.
- Post-flow adjustable.
- Easy arc ignition with high frequency.
- Smooth and neat cutting surface.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
CUT 60CT	220V/1P/50-60Hz	60A/104V/40% 40A/96V/100%	40.9A@60A	20-60A/300V	472*203*357	14

CUT60C

The Priority Selection For General Industrial Demand



Functions & Features

- New technology to maximizing thermal dissipation with 4 separated heat sinks.
- Flash cutting for 10mm thickness carbon steel, recommend for 16mm thickness carbon steel.
- Post-gas adjustable.
- Easy arc ignition with high frequency.
- Smooth and neat cutting surface.
- Tri-proof air duct design.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
CUT 60C	415V/3P/50-60Hz	60A/104V/40% 40A/96V/100%	13.7A@60A	20-60A/300V	472*203*357	14

CUT80GT

CNC Leads To Technological Innovation



Functions & Features

- CNC connector greatly enrich capacity
- Flash cutting for 10/15/20mm thickness carbon steel, recommend for 16/25/30mm thickness carbon steel.
- 2T/4T.
- Gas pressure meter
- Post-gas adjustable.
- Easy arc ignition with high frequency
- Smooth and neat cutting surface.
- Tri-proof air duct design.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
CUT 80GT	415V/3P/50-60Hz	80A/112V/40% 46A/98.4V/100%	17.6A@80A	20-80A/300V	508*244*423	21.7

CUT100GT

CNC Leads To Technological Innovation



Functions & Features

- CNC connector greatly enrich capacity
- Flash cutting for 10/15/20mm thickness carbon steel, recommend for 16/25/30mm thickness carbon steel.
- 2T/4T .
- Gas pressure meter
- Post-gas adjustable.
- Easy arc ignition with high frequency
- Smooth and neat cutting surface.
- Tri-proof air duct design.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
CUT 100GT	415V/3P/50-60Hz	100A/120V/40% 70A/108V/100%	23A@100A	20-100A/300V	526*272*468	25.6

Bardiche CUT125I

Focused, Heavy Duty, Industrial, Professional Excellect, Reliable



Functions & Features

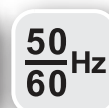
- The advanced IGBT module inverter technology.
- Industrial assistor for cutting middle thickness steel with stable performance.
- Digital display of cutting current on the panel.
- Current and post-gas time adjustable, extend the life of consumable parts.
- Plasma gouging and cutting function selectable.
- 2T/4T function, abundant modes to service various cutting demands.
- Standard signal output socket for CNC on the back panel.
- Gas check; make sure the air flow fluently before working.
- Intelligent protection: over-heating, over-current, over-voltage protection, convoy for the welder to keep power.



Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
CUT 125I	380V/3P/50-60Hz	120A/128V/60% 100A/120V/100%	32A@120A	30-120A/295V	550*280*545	34kg

Bardiche CUT165I

Focused, Heavy Duty, Industrial, Professional Excellect, Reliable



Functions & Features

- The advanced IGBT module inverter technology.
- Industrial assistor for cutting middle thickness steel with stable performance.
- Digital display of cutting current on the panel.
- Current and post-gas time adjustable, extend the life of consumable parts.
- Plasma gouging and cutting function selectable.
- 2T/4T function, abundant modes to service various cutting demands.
- Standard signal output socket for CNC on the back panel.
- Gas check; make sure the air flow fluently before working.
- Intelligent protection: over-heating, over-current, over-voltage protection, convoy for the welder to keep power.

Model	Input Voltage/Phase/Frequency	Output Current/Voltage/Duty Cycle (40°C)	Amps Input At Rated Output	Output Range/ OCV	Dimension (mm)	Weight (kg)
CUT 1651	380V/3P/50-60Hz	160A/144V/60% 125A/130V/100%	49A@160A	40-160A/370V	670*320*640	45kg

B® Paintstik®

As Markal's most versatile and economic marker, the original B Paintstik solid paint marker combines the durability of paint with the convenience of crayons. The real paint formula has superior marking performance on oily, icy, wet, dry or cold surfaces and is weather and UV-resistant. This Paintstik works on rough, rusty, smooth, or dirty surfaces.

Features & Benefits

- Real paint for long-lasting, highly visible marks
- Superior marking on rough, rusty, or dirty surfaces
- Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity
- Weather- and UV-resistant for long-lasting marks
- Marking range: -50°F to 150°F (-46°C to 66°C)

Industry Uses

Steel mills and warehouse
Forge and casting foundries
Ship building and repair
Metal fabrication
Tire repair and retreading
Lumber/timber
Construction

Surface Uses

Steel and iron
Pipes and tubes
Rubber and tires
Lumber/timber
Plastic
Glass
Concrete, stone

Details	144 Case	Details	48 Case	B-3/8	144 Case	B-1"	144 Case
Mark Size	11/16" (17mm)	Mark Size	11/16" (17mm)	Mark Size	3/8" (9.5mm)	Mark Size	1" (25.4mm)
80220	White*	80810	White*	80420	White*	80260	White*
80221	Yellow	80811	Yellow	80421	Yellow		
80222	Red	80812	Red				
80223	Black	80813	Black				
80224	Orange	80814	Orange				
80225	Blue	80815	Blue				
80226	Green						
80227	Pink						
80228	Purple						
80229	Brown						
80230	Gray						
80231	Gold						
80232	Aluminum						
80281	Florescent Yellow						



Valve Action® Paint Marker - Low Corrosion Colors

Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
Dura-Nib medium bullet tip resists wear to provide long marking life
Durable metal barrel and clip-cap reduce breakage and store easily in pocket
Marking range: -50°F to 150° (-46°C to 66°C)

Features & Benefits

- Fast-drying paint formula is safe for use on stainless steel and eliminates concerns regarding corrosion, degradation, or pitting.
Confirmed using a typical analysis to contain:
- 200 ppm chlorides and total halogens
 - 250 ppm each low melting point metals
 - 250 ppm sulfur

Industry Uses

Power generation facilities
Oil refineries
Ship building and repair
Aviation and aerospace

Surface Uses

Stainless steel
Alloy and superalloy metals



Thermomelt® HEAT-STIK®

Thermomelt HEAT-STIK markers are a quick, low-cost method to accurately measure surface temperatures of various metals and equipment. Available in 88 Fahrenheit temperatures, the stick-in-holder design provides convenience and durability for long-lasting use in the workshop or in the field

Features & Benefits

- When the stick melts, the precise temperature is reached
- Long-lasting stick is 33% bigger than competition
- Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated temperatures; no need for sensor calibration
- Ideal for: pre-heating, post-weld heat treating, interpass temperature monitoring, stress-relieving and annealing
- Protective holder, shirt-clip and adjustment ring prevents breakaway and improves handling
- Meets welding codes: AWS D1.1, ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, III, and VII, NIST Traceable

Industry Uses

Welding
Ship building and repair
Bridge fabrication
Metal fabrication
Forge and casting foundries
Railroad
Steel mills

Surface Uses

Steel and iron

	F	C
86400	100°F	38°C
86409	109°F	43°C
86418	113°F	45°C
86418	113°F	45°C
86427	119°F	48°C
86436*	125°F	52°C
86445	131°F	55°C
86454	138°F	59°C
86463*	150°F	66°C
86472	163°F	73°C
86481*	175°F	79°C
86490	182°F	83°C
86499	188°F	87°C
86508	194°F	90°C
86517*	200°F	93°C
86522	206°F	97°C
86526	213°F	101°C
86535	219°F	104°C
86544*	225°F	107°C
86553	238°F	114°C
86562*	250°F	121°C
86569	256°F	124°C
86571	263°F	128°C
86580	269°F	132°C
86589*	275°F	135°C
86598	282°F	139°C
86607	288°F	142°C
86616	294°F	146°C
86625*	300°F	149°C
86634	306°F	152°C
86643	313°F	156°C
86652	319°F	159°C
86661*	325°F	163°C
86670	331°F	166°C
86679	338°F	170°C
86688	344°F	173°C
86697*	350°F	177°C
86706	363°F	184°C
86715*	375°F	191°C
86724	388°F	198°C
86733*	400°F	204°C
86742	413°F	212°C
86751*	425°F	218°C
86760	438°F	225°C
86769*	450°F	232°C

86778	463°F	239°C
86787*	475°F	246°C
86796	488°F	253°C
86805*	500°F	260°C
86814*	525°F	274°C
86823*	550°F	288°C
86832	575°F	302°C
86841	600°F	316°C
86850	625°F	339°C
86859*	650°F	343°C
86868	700°F	371°C
86877	750°F	399°C
86886	800°F	427°C
86895	850°F	454°C
86904	900°F	482°C
86922	950°F	510°C
86931	1000°F	538°C
86940	1022°F	550°C
86949	1050°F	565°C
86958	1100°F	593°C
86967	1150°F	621°C
86976	1200°F	649°C
86985	1250°F	677°C
86994	1300°F	704°C
87003	1350°F	732°C
87012	1400°F	760°C
87021	1425°F	774°C
87030	1450°F	788°C
87039	1480°F	804°C
87048	1500°F	816°C
87057	1550°F	843°C
87066	1600°F	871°C
87075	1650°F	899°C
87084	1700°F	927°C
87093	1750°F	954°C
87102	1800°F	982°C
87111	1850°F	1010°C
87120	1900°F	1038°C
87129	1950°F	1066°C
87138	2000°F	1093°C
87147	2050°F	1121°C
87156	2100°F	1149°C
87165	2150°F	1177°C
87174	2200°F	1204°C



* Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements


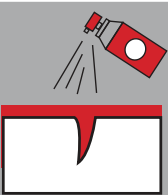
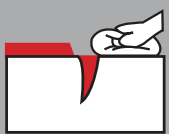
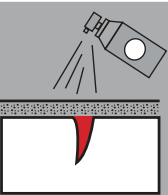
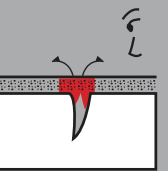
TASETO COLOR CHECK

DESCRIPTION	LIST PRICE (RM)
COLOR CHECK – REMOVER / CLEANER (BLUE) NO.2	
COLOR CHECK – DEVELOPER (WHITE) NO.3	
COLOR CHECK – PENETRANT (RED) NO. 1	





TASETO COLOR CHECK is a Penetrant testing material which is widely used in the inspecting of surface discontinuities of Welds, Forgings, Pressure Vessels, Casting, General Metal Work, Power Plant Construction and Leak Testing.

Pre-cleaning	Penetrant Application	Removal of Excess penetrant	Developing	Interpretation
 <p>Remove oil, grease and dirt off the test surface with the remover to let flaws open, and then dry the surface well.</p>	 <p>Apply the penetrant Over test surface. Dwelling time is the Range of 5 to 60 Minutes.</p>	 <p>Wipe off excess Penetrant with a cloth dampened with the remover. If you used the Water washable Penetrant, spray Shower water.</p>	 <p>Apply a thin coat of the well agitated developer to the test area. Development time is between 10 to 30 minutes.</p>	 <p>Find flaw indication after the developer has dried</p>

MAGNETIC PARTICLE INSPECTION

TASETO Contrast Paint (for magnetic particle inspection) forms a thin film on specimen surface, providing a white background to enhance visible magnetic particle indications.

FEATURE ● Provide high contrast on the specimen surface for visible magnetic particle indications, to make the indications easy to see. ● Very quick drying. ● Easy to remove by acetone, or wire brush after use. ● Non-Chlorinate and Non-CFC.

TYPICAL PROPERTIES

APPEARANCE	WHITE DISPERSION LIQUID
Specific Gravity	0.97

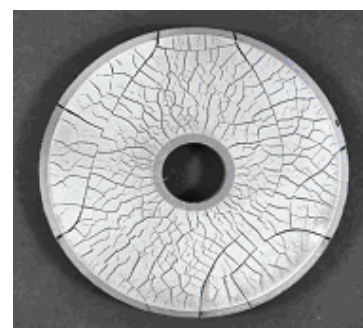
PACKING UNIT

420ml Aerosol Can
(12 Bottles in one carton box)



- METHOD OF USE**
1. Inspection area should be cleaned and dried prior to testing.
 2. Shake aerosol can thoroughly until agitator rattles.
 3. Keep aerosol can 10 ~ 20cm away from surface, apply a uniform thin film to the inspection area, wait about one minute to allow the film to dry.
 4. Magnetize the inspection area and apply magnetic particle dispersion.
 5. Removal it by acetone after use.

- PRECAUTION FOR USE**
1. Aerosol propellant contains LPG, which is very inflammable, please does not use it near fire.
 2. Avoid direct sunlight, high temperature, and high humidity.



TASETO JIKI Check B-200 (Aerosol type) is a magnetic particle inspection agent, which is composed of black magnetic powder suspended in mineral oil with high flash point.

Spray it to the magnetized inspection area, a black magnetic particle indication will appear upon the surface of defective regions.

FEATURE ● Easy to detect very fine flaw. ● Dispersion oil has less smell, and the flash point (more than 80°C). ● Have good wettability over inspection surface.

TYPICAL PROPERTIES

COLOR	BLACK
Net Weight	300g
Setting Volume	About 1.5ml / 60 Minutes
Temperature Limit	36° ~ 140°F
Particle Size	0.3 ~ 0.6μm

- METHOD OF USE**
1. Before use, shake a can well.
 2. Keep the aerosol can away from surface 10 ~ 20cm, spray uniformly.

PRECAUTION FOR USE

1. Aerosol propellant is LPG, which is very inflammable, please does not use it near fire.
2. Please avoid direct sunshine, high temperature and humidity for the storage



PACKING UNIT

420ml Aerosol Can (12 Bottles in one carton box)

AVESTA CLASSIC MOLY-DROP

The Original molybden test

Avesta Classic Moly-Drop test 960

Features

Avesta Moly-Drop test 960 is an easy to use chemical test that helps differentiate 304 grade stainless steel from 316 grade.

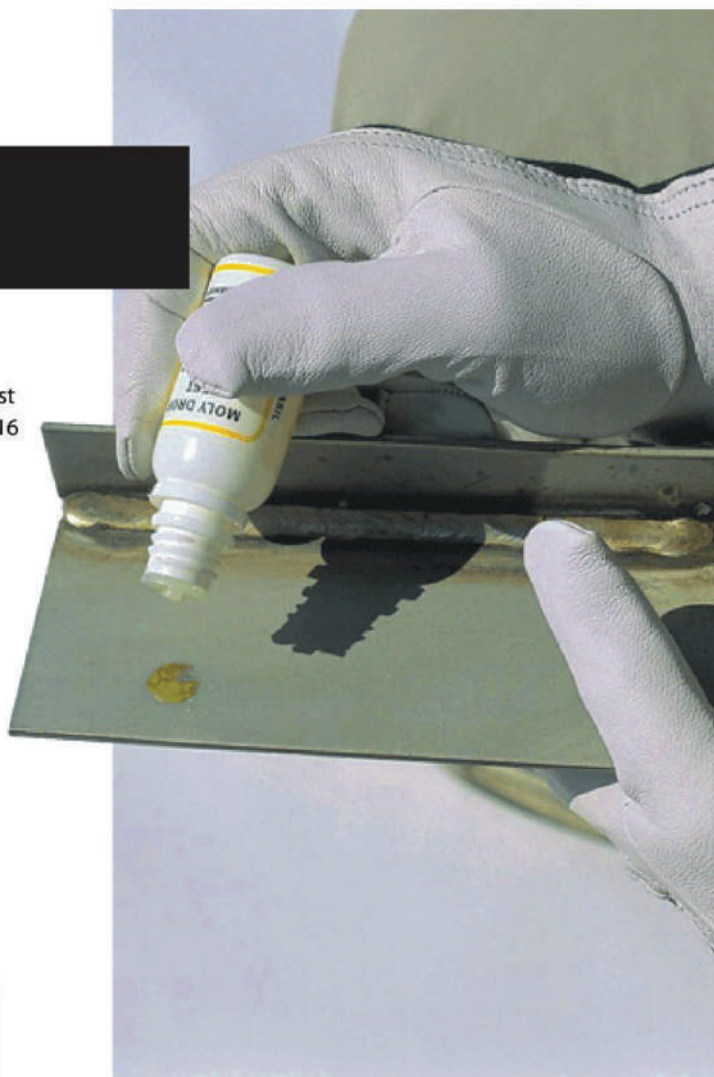
With this simple chemical test you can check if your stock piece or scrap of stainless steel is 304 or 316. The test will identify the grade within 5-10 minutes through a colour change.

General characteristics

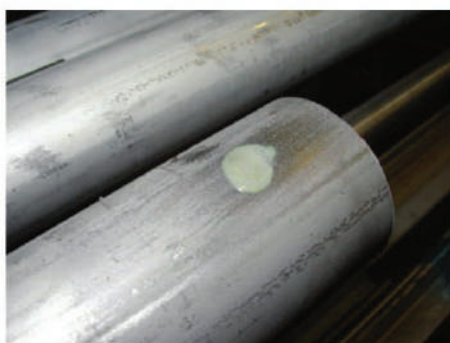
Can be used on stainless steel 300 series material to test presence of Molybdenum to differentiate grade 304 (no moly) from 316 (with moly).

Chemical properties

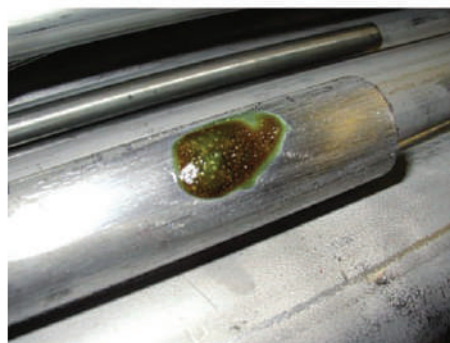
Composition:	Hydrochloric acid (HCl)
Form:	Yellow liquid
Density:	1.3 kg/lit
pH:	0



Identifying stainless steel grade with Avesta Moly-Drop test 960.



Testing 304 (EN 1.4301)



Testing 316 (EN 1.4436)

AVESTA FINISHONE™ PASSIVATOR 630

Improved safety when passivating

Avesta FinishOne™ Passivator 630

An acid-free passivator !

Flash clouds or smut, seen as brown staining, can occasionally appear on any stainless steel surface after pickling.

Passivating with Avesta FinishOne™ Passivator 630 eliminates these spots with ease, restoring the surface.

Avesta FinishOne™ Passivator 630 is aimed for a wide-range of industrial passivating applications. It offers a good general passivating result on stainless steel surfaces.

It is suitable for applications such as:

- Passivation after pickling
- Passivation after mechanical treatments such as grinding, brushing, blasting etc
- Removal of free iron (smut)
- Reducing the formation of toxic nitric fumes during pickling
- Preventing water staining caused by poor rinse water.

Avesta FinishOne™ Passivator 630

- Restores the passivation layer on stainless steel surfaces that have been damaged during fabrication or usage.
- Further improves the result after pickling and diminishes the risk of discoloured surfaces caused by flash clouds or smut.
- Reduces the formation of toxic nitric fumes during rinsing after pickling.
- Creates no hazardous waste, contains no nitric acid.
- Is easy to handle, classified as non-dangerous goods.



Avesta FinishOne™ Passivator 630- efficient and environmentally safe.



Avesta FinishOne™ Passivator 630- removes free iron (the brown staining seen on the photo).

AVESTA CLASSIC PICKLING GEL 122

The original Pickling Gel

Avesta Classic Pickling Gel 122

Cleaning of weld seams

Avesta Classic Pickling Gel 122 is used to treat stainless steel surfaces that have been damaged by working operations such as welding, forming, cutting and blasting. It removes welding oxides, the underlying chromium-depleted layer, micro-slag particles and other contaminants that may cause local corrosion.

This gel is specifically intended for standard brush pickling of weld seams and smaller surfaces.

The free-flowing pickling gel

Avesta Classic Pickling Gel 122 is more free-flowing than a pickling paste to facilitate the application and to give a high coverage. It can hence be used to clean with a good result not only weld seams but also smaller stainless steel surfaces.

Avesta Classic Pickling Gel 122

- Standard and more high-alloyed steel grades such as 304, 316, 904 L
- Cold and hot rolled plates
- MIG/FCW/stick electrode welds
- Brush pickling of weld seams and smaller surfaces
- Use and storage in warmer climates (the gel is heat-stable up to +45°C).

Avesta Pickling
Gel 122



Scan here



Scan here



Avesta Classic Pickling Gel 122 - for brush pickling of welds and surfaces.



Avesta Classic Pickling Gel 122 - easy to apply thanks to its free-flowing consistency.

BLUEMETALS TOTAL PERFORMANCE PICKLING PASTE

DESCRIPTION AND APPLICATIONS

The corrosion resistance of stainless steel depends on thier ability to form a protective, invisible chromium oxide layer on the surface. Operations such as welding, forming, coarse grinding or handling with carbon steel tools damage this layer, reducing its protective capacity. The use of **BLUEMETALS PICKLING PASTE** will help obtain a clean surface neutralizes, passivates and restores to its original corrosion resistance properties of stainless steel after welding, brazing or grinding. Remove discoloration or oxide films on stainless steel.



CAUTION

- **BLUEMETALS PICKLING PASTE** is highly blended acid. Direct contact causes burns of eye, skin and cloth. It is harmful if swallowed or inhaled. Wear safety goggles, rubber gloves and wash after handling.
- Use with adequate vent and avoid breathing vapor (Do not take internally).
- First aid if contact;
 - Flush immediately with water. Flush eyes with water for more than 10 minutes for eye to get prompt medical attention.
 - If swallowed, wash mouth thoroughly with water. Drink plenty of water or milk.
 - Contact physician.

STORAGE ● Keep out of each of children.

- Keep out of direct sunlight and away from heat. Always keep container closed.
- Before opening the container, loosen slowly to remove any pressure build-up.

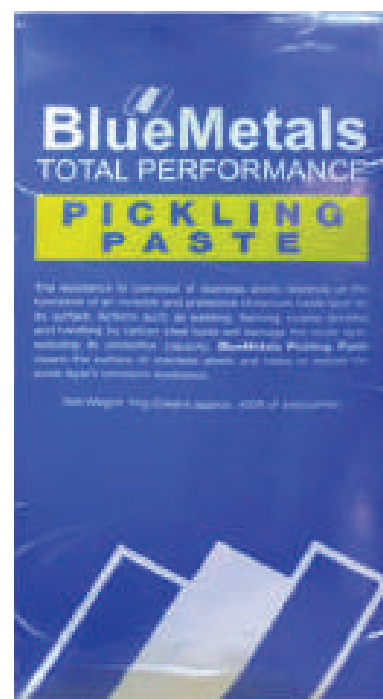
DIRECTION FOR USAGE

1. Clean off slag and brush the weld with stainless steel brush.
2. Stir **BLUEMETALS PICKLING PASTE** with wooden rod before use.
3. Apply generous layer of **BLUEMETALS PICKLING PASTE** with a plastic brush or wooden spatula.
4. Soak for 20-30 minutes.
5. Use plenty of water to rinse.



Net weight : 1 (one) Kg. (This cleans approx. 400 ft of weld joint.)

PRICE LIST		
PRODUCT CODE	DESCRIPTION	PRICE 1KG/BTL
B5890000102	BLUE METALS PICKLING GEL	



WELDBRITE PICKLING PASTE



a thick
ADHESION GEL



Effectively
REMOVES FREE IRON



is a strong **ASTMA380**
COMPLIANT FORMULATION



provides **FAST ACTIN**
one step **DESCALING**



completely
WATER SOLUBLE



supplied with
APPLICATION BRUS

WELDBRITE

THE PROFESSIONALS CHOICE
FOR STAINLESS STEEL SURFACE TREATMENT

Callington Haven Pty is an Australian owned and operate company that has served the global markets for over 30 years, exporting to 37 countries. Our stainless steel surface treatment products are used incountries worldwode and provide a high standard of quality and reliability.

DESCRIPTION

Pickling Gel

STANDARD PACKAGE

2.5kg



- All In One Chemical Solution -

Scale Removal & Pickling & Passivation For Stainless Steel





NSC SUS CLEAN #300 SERIES

Since its launch in 1972, SUS CLEAN has been favoured all over Japan. It promises to help you!



Description: **#300E**

#300E Pickling Paste is a milky white paste for treatment of corroded, heated or welded austenitic stainless steel or welding seams.

Description: **#300S**

Ideal for removing oxidized scales, welding scales, heat scales, etc. on smaller items. Dip type allows you to pickle batches of small item simultaneously.

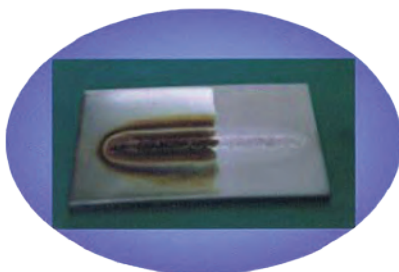
Austenite Stainless Steel: SS 304, SS 304L, SS 321, SS 316, SS 316L, SS 301, SS 302, SS 309S, SS 310S, SS 347

Applications: NSC Sus Clean #300E Pickling Paste is used for pickling of welding seams and surface of austenitic stainless steel in any kind of construction, such as: tanks, pipe, etc.

Directions For Use: **PRETREATMENT**

1. The surface should be pre-cleaned by degreasing.
2. Please read the Safety Data Sheet before use.
3. Apply the paste onto the surface and weld, allow the pickling paste to act for 30 minutes.
4. Rinse thoroughly with plenty of water after pickling.

Example of NSC SUS CLEAN Usage



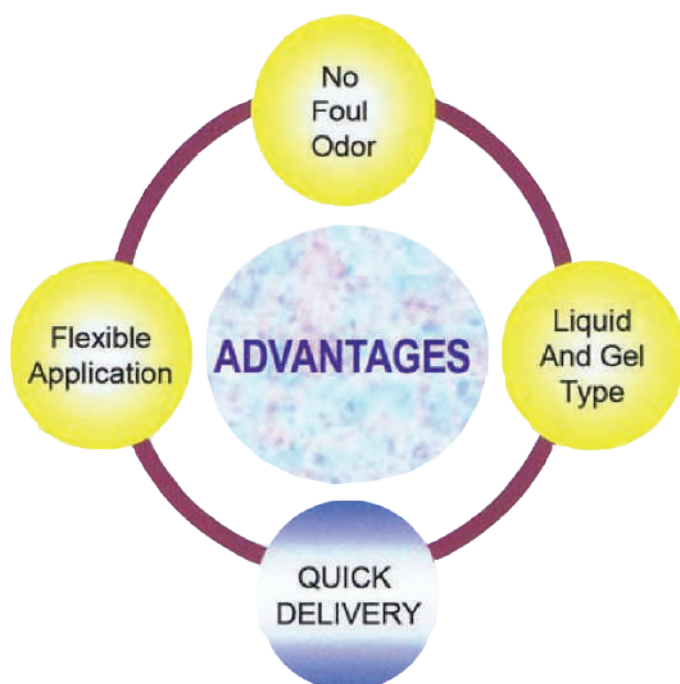
Passivation: A protective chromium oxide layer will be formed on the stainless steel only if Oxidizing are present. We recommend passivation with **NSC AD Passive**, particularly if the stainless Steel is exposed to corrosive condition after pickling.

Category	Product Name	Application	Advantages	Packaging
Pickling (Stainless Steel)	NSC SUS Clean #300E	Gel Type (Brush Application)	1. Shorter descaling time 2. Less Fume generating 3. Less damage to material	2kg / 20kg
	NSC SUS Clean #300S	Liquid Type	1. Less fume generation by splized agent 2. Less corrosion and/or damage to the material surface	2kg / 20kg



NSC AD PASSIVE SERIES

Since its launch in 1972, SUS CLEAN has been favoured all over Japan. It promises to help you!



Description: NSC AD Passive provides austenitic stainless steel with a protective chromium oxide layer after pickling. NSC AD Passive will aid and accelerate the passivation process after pickling.

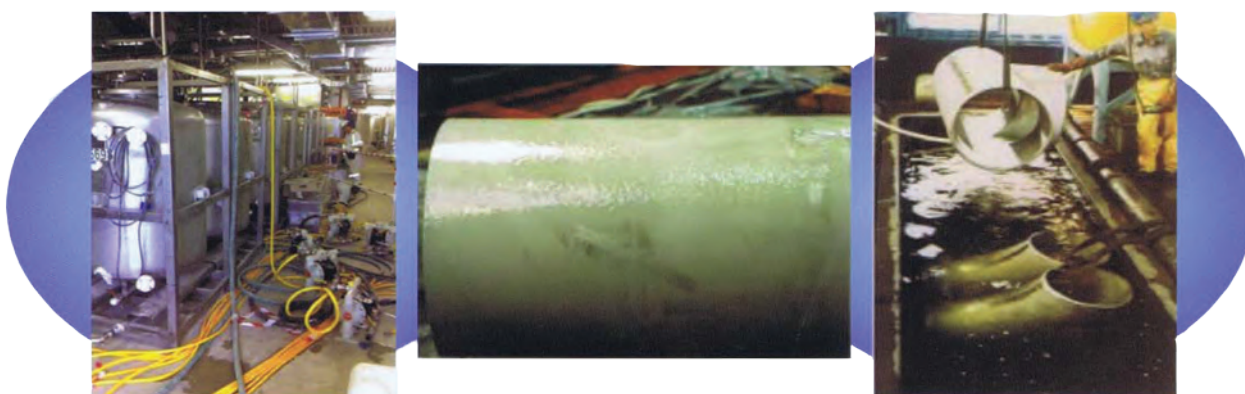
Applications: NSC AD Passive is mainly used for passivation of austenitic stainless steel in any kind of construction, such as: tanks, pipe, etc. It can be used by means of circulation, spraying or in immersion baths.

Austenite Stainless Steel: SS 304, SS 304L, SS 321, SS 316, SS 316L, SS 301, SS 302, SS 309S, SS 310S, SS 347

Directions For Use:

1. Please read the Safety Data Sheet before use.
2. Apply the paste or soak into the tank, allow the treatment approx. 2 hours.
3. Rinse thoroughly with plenty of water after passivation.
4. Circulation method, applying gel type, soaking bath.

Example of NSC AD Passive Usage



Passivation Check: After drying test the Passivity of the stainless steel using our **Ferro Check**.

Category	Product Name	Application	Advantages	Packaging
Passivation (Stainless Steel)	NSC AD Passive E	Gel Type (Brush Application)	1. Application for Austenite, Ferrite, Martensite metal. 2. Application for ferro-rust removal (Food/Medical/plant)	2kg
	NSC AD Passive S	Liquid Type		20kg / 200kg



FERRO CHECK

**Handy Ferrous Bivalent Ion Detector**

The Ultimate Ferrous Ion Detector for Metal Surfaces.
Makes the 'Mechanically & Visually Impossible'
A quick & easy Procedure.
A Great Contribution to Quality Control.

Functions:

Simple & Easy Detection Test for Ferrous Bivalent Ion
Determination Check of Passivation Condition
Effective Inspection for Plating Defects on Ferrous Metals
Provisional Check on Corrosion due to insufficient
cleaning of Buff Residue

Passivation Check

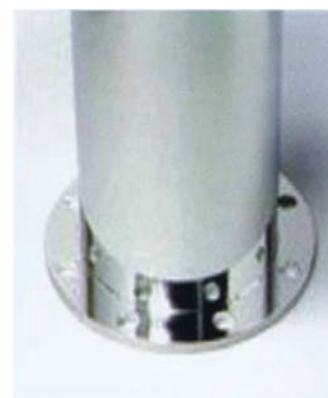
No Passivation
(Buffing Only)



Passivation
(Buffing + Pickling Acid)



No Passivation
(Buffing Only)



Passivation
(Pickling + Electro Polishing)

Characteristics:**Safe**

Unlike "Ferroxyle Tester" for Pit Occurrence Degree on Plating Surface, "Ferro Check" does NOT contain the toxic substances such as Potassium Ferrocyanide and/or Ferricyanide Compounds.

Fast

Unlike "Salt Water Spray Method" for Inspection of Plating Defects, "Ferro Check" does NOT require such long waiting time for reaction. "Ferro Check" only requires 1 ~ 3 minutes and can largely shorten the testing time.

Easy

Unlike the "Electrical Potential Pit Measurement Method", "Ferro Check" does NOT require special measuring device or test pieces. "Ferro Check" can be applied by Spraying or Dripping for the immediate effect.

Practical

Where "Salt Water Spray Method" may cause corrosion on the test piece, and "Electrical Potential Pit Measurement Method" can only measure small items, "Ferro Check" can be applied to small to big items without any corrosion.

Precise

Because of the clear indication of "Ferro Check's" instinctive Orange-Red Colour, the Test Result is 100% Obvious.

COMPANY INTRODUCTION

Chem-Grow Pte Ltd a subsidiary of Heatec Jietong provides a wide range of specialized service to the marine and petroleum industries. By understanding the needs of our customers and maintain a good relationship with them, we are able to provide the highest level of services in this industry.

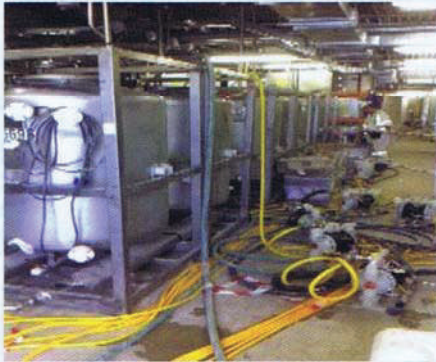
We value our customers as the foundation of our business. Our relationships with customers and suppliers are customer needs based on principles of respect and mutual benefits. We aim to develop profitable and last relationships. We want to build on what we do well and to innovate to meet change

Our Services – Workshop or On-site

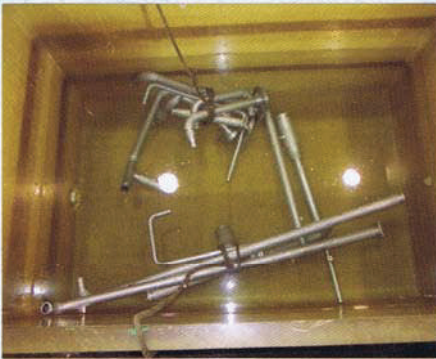
- Piping System – Fabrication and installation of all types of piping
- Hot Oil Flushing – Up to NAS / ISO standard for pipeline / oil
- Pressure Testing – Up to 700 Bars
- Contamination Test – Oil / Water / etc
- Pigging for pipe line or Hose
- Chemical Cleaning
 1. Boilers – Degreasing, Alkaline-Boil out, Descaling and Passivation.
 2. Pipeline – Degreasing, Descaling and Passivation
 3. Cooler – Ultrasonic for the Fin Side and Chemical Cleaning for the Tube Side
 4. Tanks – Super chlorination of Fresh Water Tank
 5. Manual Cleaning and Degreasing of Tank
- Stainless steel Passivation On Site
- Sales of Chemical



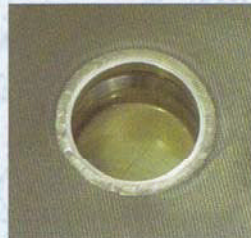
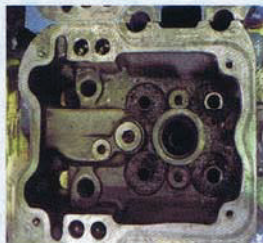
On Site Cleaning & Passivation



Workshop Cleaning & Passivation



Before & After



For more service information, please contact :

Chem-Grow Pte Ltd
No. 15 Tuas Link 3 Singapore 638529
Tel : (+65) 6265 8751
Fax : (+65) 6863 3052

Email : chemgrow@chemgrow.com
Website : www.chemgrow.com

SUPER SERIES – FLAWCHEK

Liquid Dye Penetrant Inspection System

- ★ Will locate surface discontinuities or other indications on all non – porous materials (Metals, Plastics, Ceramics.....):-
 - Cracks
 - Seams
 - Porosity
 - Laps
 - Laminations
 - Cold Shuts
- ★ Used to detect welding, casting & forging defects, cracks & leaks in new – components and fatigue cracks on in – service components.
- ★ Will detect wide spectrum of flaw sizes regardless of flaw orientation, up to 1 microns to 30 micron depth on standard Ni – Cr test panel.
- ★ Superior capillary action, Non – Toxic, Non – Corrosive..... Free from halides & sulfides.....
- ★ Confirms to MIL-1-25135, MILSTD 271, IS: 3658 – 1981 “Code of practice for liquid penetrant flaw detection “.
- ★ Three part system



1. SUPER CLEANER :

- a) Non – Chlorinated solvent.
- b) Fast drying.
- c) % Volatile by volume – 100%.
- d) Specific Gravity < 1.
- e) Non – toxic formulation.

2. SUPER PENETRANT :

- a) Red ultra high penetration dye.
- b) Specific Gravity < 1.
- c) % Volatile by volume – NA
- d) Non – toxic formulation.

3. SUPER DEVELOPER :

- a) % Volatile by volume: 94%.
- b) Specific Gravity < 1.
- c) Vapour Pressure – 45-55 Psig.
- d) Non-toxic formulation.

APPLICATION :

Evaluation of micro surface defects & flaws in weld deposits, wrought & cast products of both Ferrous & Non – Ferrous metals, powder metallurgy parts, ceramics, plastics & Glass objects.

Perfect for examining Stress corrosion and Fatigue cracks – Cranes, Bridges, Vessels, Piping, Railway's..... So as to prevent breakdowns, injuries or loss of life.

SHELF LIFE : 18 Months warranty.



“ Pipe Joint Dye Penetrant Inspection ”



“ Valve Dye Penetration Inspection ”

SUPER SERIES FLAWCHEK

LIQUID DYE PENETRANT INSPECTION SYSTEM

DESCRIPTION

Designed to locate surface discontinuities or other indications on all non-porous materials (Metals, Plastics, Ceramics), Cracks, Seams, Porosity, Laps, Laminations, Cold Shuts. Used to detect welding, casting & forging defects, cracks & leaks in new - components and fatigue cracks on in - service components.

KEY FEATURES

- Will detect wide spectrum of flaw sizes regardless of flaw orientation up to 1 micron to 30 microns depth on standard Ni - Cr test panel
- Superior capillary action, Non - Toxic, Non - Corrosive, Free from halides & sulfides
- Confirms to MIL-1-25135, MILSTD 271, IS: 3658 - 198 'Code of practice for liquid penetrant flaw detection'
- CFC Free formulation



1. SUPER DEVELOPER:

- a) % Volatile by volume: 94%
- b) Specific Gravity < 1
- c) Vapour Pressure 45-55 Psig
- d) Non - toxic formulation



2. SUPER PENETRANT:

- a) Red ultra high penetration dye
- b) Specific Gravity < 1
- c) %Volatile by volume - NA
- d) Non - toxic formulation



3. SUPER CLEANER:

- a) Non-Chlorinated solvent
- b) Fast drying
- c) % Volatile by volume - 100%
- d) Specific Gravity < 1
- e) Non-toxic formulation

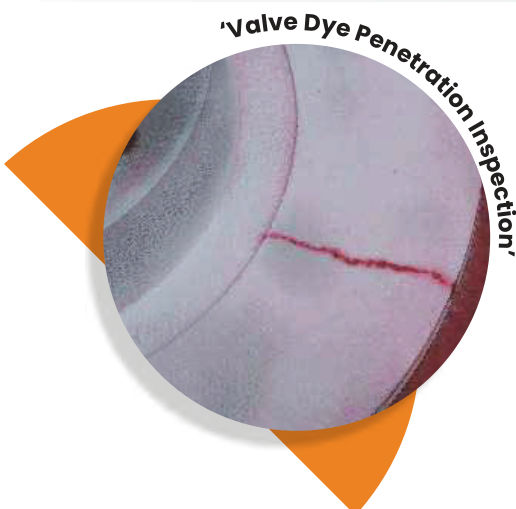
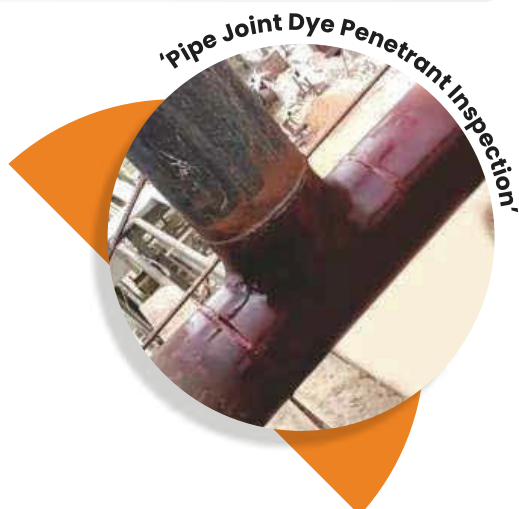
APPLICATION

Evaluation of micro surface defects & flaws in weld deposits, wrought & cast products of both Ferrous & Non-Ferrous metals, powder metallurgy parts, ceramics, plastics & Glass objects.

Perfect for examining Stress corrosion and Fatigue cracks - Cranes, Bridges, Vessels, Piping, Railways. So as to prevent breakdowns, injuries or loss of life.

SHELF LIFE

- Super Cleaner & Super Penetrant - 24 Months from the date of manufacture
- Super Developer - 18 Months from the date of manufacture
- The stated Shelf life period shall be achieved only under recommended storage conditions.





POWERWELD S-12

AWS A5.1	: E6013
EN ISO 2560-A	: E 38 0 R 11
EN ISO 2560-B	: E 43 13 A
JIS Z3211	: E4313



Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	2kg/5kg/20kg	300mm	1000kg
2.6mm	2kg/5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg



Applications

Universal all position mild steel electrode. Good operability and easy slag removal- suitable to weld at low OCV welding power source.

Applied in metal constructions, for piping systems, tanks, black-smithing, craft works. Construction steels for General use, Tube steels, Ship Steels.



Lloyd's
Register



POWERWELD G-13

AWS A5.1 : E6013
EN ISO 2560-A : E 38 0 R 11
EN ISO 2560-B : E 43 13 A
JIS Z3211 : E4313



POWERWELD
G-13



Scan here

Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	2kg/5kg/20kg	300mm	1000kg
2.6mm	2kg/5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg



Applications

Smooth running, rutile type of electrode for all position welding. Superb arc starting, low spatters levels and self-releasing slag for greater welder appeal. Suitable for welding mild steel, galvanized pipes and plates and structures which require Galvanized after welding.



ABS



Lloyd's
Register

**POWERWELD G-200**

POWERWELD G-200

AWSA5.1	: E6019
EN ISO 2560-A	: E38 2 RA 12
EN ISO 2560-B	: E43 19 A U
JIS Z3211	: E6019

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg

**Applications**

Welding of heavy structures and thick plate of steels such as boilers, chemical machinery and slup building work in genaral.



NICHIA SK-260-M

AWS A5.1	: E6013
EN ISO 2560-A	: E 38 0 R 11
EN ISO 2560-B	: E 43 13 A
JIS Z3211	: E4313

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	2kg/5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg



We export to Middle East, Saudi, Qatar, UAE, Kuwait, Jordan, Thailand, Indonesia, etc



Applications

Excellent usability in all positions including vertical downward. Outside plate of vehicles, blowers, cultivating machines, pipes light gauge constructions, finish welding on structural works of steel plates and high duty structures.



BLUEARC 6010

AWSA5.1 : E6010
ENISO 2560-A : E 38 0 C 22
ENISO 2560-B : E 43 10 A
JIS Z3211 : E4310

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	350mm	1000kg
4.8mm	5kg/20kg	350mm	1000kg

Applications

High cellulose all-position designed for deep penetration on root and filler layers of butt or fillet welding. It is used for welding mild steel in pipeline, storage tank, pressure vessels and heavy construction work.



BLUEARC 7010

AWS A5.5 : E7010
EN ISO 2560-A : E 42 0 C 22
EN ISO 2560-B : E 49 10 A
JIS Z3211 : 4910

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	350mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	350mm	1000kg

Applications

High cellulose all-position designed for deep penetration on root and filler layers of butt or fillet welding. It is used for welding mild steel in pipeline, storage tank, pressure vessels and heavy construction work.

Designed for welding long distance pipe lines. Also designed for use on carbon moly piping used in high pressure, high temperature steam service, structure or plates where the molybdenum content is approx 0.50%.



GOLDEN BRIDGE J506

AWS A5.1: E7016

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg



Applications

J506 is low hydrogen potassium type electrode which presents deposited metal with excellent mechanical properties. The product is widely use on medium carbon steel and low alloy steel structure welding work, such as pressure container fabrication, bridge construction industry, shipbuilding industry. AC/DCEP power source.



GOLDEN BRIDGE J506FE

AWS A5.1: E7018

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg



Applications

Low hydrogen potassium type carbon steel electrode which as higher deposition rates due to iron powder formula coating. Permitted for all positions welding with AC/DC power source.



GOLDEN BRIDGE J38.12

AWS A5.1: E6013

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg



Applications

J38.12 has excellent performance on low carbon steel fabrication process which present superior roughness bead appearance for plate or structure welding work.



GOLDEN BRIDGE J502

AWS A5.1: E5003

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg



Applications

J502 is Lime-Titania type carbon steel electrode designed for all positions welding work. The product is widely used in key structure fabrication work such for vehicle manufacture, mechanical fabrication and building industry, etc. AC/DC power source.



GOLDEN BRIDGE J507

AWS A5.1: E7015

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg



Applications

E7015 is low hydrogen sodium type carbon steel electrode. The product is designed for all positions welding work which present excellent welding performance with smooth arc, low spatter level and effortless slag removal ability. The deposited metal has superior mechanical properties including good anti-cracking ability and high impact toughness under low temperature. DCRP power source.



CASTARC 50N

JIS Z3252 : DFCFe

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	1kg/2.5kg	300mm	1000kg
3.2mm	1kg/2.5kg	350mm	1000kg
4.0mm	1kg/2.5kg	350mm	1000kg

Description and Application

CASTARC 50N is a graphite electrode using mild steel rod. Its weld metal shows high carbon content. Then it results high hardness, so it is suitable for welding the parts where machining is unnecessary. Its fusibility with cast iron is excellent.

CASTARC 100N

AWS A5.15 : ENi-CI
EN ISO 1071 : E C Ni-CI 1
JIS Z3252 : DFCNi

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	1kg/2.5kg	300mm	1000kg
3.2mm	1kg/2.5kg	350mm	1000kg
4.0mm	1kg/2.5kg	350mm	1000kg

CASTARC 150N

AWS A5.15 : ENiFe-CI
EN ISO 1071 : E C NiFe-CI 1
JIS Z3252 : DFCNiFe

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	1kg/2.5kg	300mm	1000kg
3.2mm	1kg/2.5kg	350mm	1000kg
4.0mm	1kg/2.5kg	350mm	1000kg

Applications

Graphite basis coated electrode with a Fe-Ni alloy deposit and repairing cast iron products. Deposit is highly resistant against cracks. Good bonding and flow of the weld metal.





STABLEARC 18



AWS A5.1 : E7018
EN ISO 2560-A : E 42 3 B 32 H10
EN ISO 2560-B : E 49 18 A u H10
JIS Z 3211 : E4918

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	400mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg



Applications

Steelwork, Shipbuilding, Railways, Boilers, Pressure Vessels. Recommended for pipe soldering.

General Purpose Structural Steels:	S235JRG2, S355J2G3, S355J2G4, S335K2G3, S355K2G4
Steels for Boilers and Pressure Vessels:	P235H, 265H, 295H, 355-GH
Fine Grain Steels:	P275, P355N, S255N, S355-N, S420N
Steel for Tubes:	P265, P295, L415Nb, L290MB, L415MB, X42-X60
Steel for Shipbuilding	Grades A-B-D-E
Cast Steels and Heat Treatment Steels:	GS-38, GS-45, GS-52 / C35-C40-C45

STABLEARC 18



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ABS



Lloyd's
Register



STABLEARC 24

AWS A5.1 : E7024
 EN ISO 2560-A : E 42 A RR 53
 EN ISO 2560-B : E49 24 A
 JIS Z3211 : E4924

Diameter	Standard Package	Standard Length	Standard Pallet
3.2mm	5kg/20kg	450mm	1000kg
4.0mm	5kg/20kg	450mm	1000kg
5.0mm	5kg/20kg	450mm	1000kg



Applications

High metal recovery rutile electrode (180%) with a high deposition rate. Applied for long beads and a uniform weld seams required. Soft fusion self releasing slag.

Frequently used for butt- welding plates with heavy thickness and for fillet welds. Construction steels for General use, Tube steels, Ship steels.



Base Materials

EN-Designation	Ship Steels	ASTM
S185 - S355	Quality A and B	A285 Gr.C
P235 - P355		A442 Gr. 55,60
L210 - L360		A414 Gr. C,D,E,F



BLUEARC 16

AWS A5.1	: E7016
EN ISO 2560-A	: E38 3 B 12 H10
EN ISO 2560-B	: E43 16 A U H10
JIS Z3211	: E4316

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	1000kg
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg



Applications

Construction steels for general use, Tube steels, Ship steels, Steels for Boiler and Pressure Vessels, High strength steels, Heat resisting steels, Cold tough steels.
Also recommended for root passes and fit up joint.



Base Materials

EN-Designation	Ship Steels	ASTM
S185 - S355	Quality A ,B,C and D	A285 Gr.C
P235 - P355		A442 Gr. 55,60
GP240R		A414 Gr. C,D,E,F
P235GH - P355		A515 Gr. 55, 60, 65
L210 - L360		A516 Gr.55,60,65,70





1.6mm and 2.0mm electrode size
also available in 1kg/2kg package

STAINARC 308L-16



AWS A5.4 : E308L-16
EN ISO 3581-A : E 19 9 L R 12
EN ISO 3581-B : ES308L-16
JIS Z3221 : ES308L-16

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	1kg/2.5kg/20kg	250mm	1000kg
2.0mm	1kg/2.5kg/20kg	300mm	1000kg
2.6mm	1kg/2.5kg/20kg	300mm	1000kg
3.2mm	1kg/2.5kg/20kg	350mm	1000kg
4.0mm	1kg/2.5kg/20kg	350mm	1000kg
5.0mm	1kg/2.5kg/20kg	350mm	1000kg

STAINARC 308L-16



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STAINARC 309L-16

AWS A5.4 : E309L-16
 EN ISO 3581-A : E 23 12 L R 12
 EN ISO 3581-B : ES309L-16
 JIS Z3221 : ES309L-16

Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	1kg/2.5kg/20kg	300mm	1000kg
2.6mm	1kg/2.5kg/20kg	300mm	1000kg
3.2mm	1kg/2.5kg/20kg	350mm	1000kg
4.0mm	1kg/2.5kg/20kg	350mm	1000kg



STAINARC 316L-16

AWS A5.4 : E316L-16
 EN ISO 3581-A : E 19 12 3 L R 12
 EN ISO 3581-B : ES316L-16
 JIS Z3221 : ES316L-16

Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	1kg/2.5kg/20kg	300mm	1000kg
2.6mm	1kg/2.5kg/20kg	300mm	1000kg
3.2mm	1kg/2.5kg/20kg	350mm	1000kg
4.0mm	1kg/2.5kg/20kg	350mm	1000kg





STAINARE 307

AWS A5.4 : E307-16
 EN ISO 3581-A : E 18 9 Mn Mo R 12
 EN ISO 3581-B : ES307-16
 JIS Z3221 : ES307-16

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	2.5kg/20kg	300mm	1000kg
3.2mm	2.5kg/20kg	350mm	1000kg
4.0mm	2.5kg/20kg	350mm	1000kg

STAINARC 310

AWS A5.4 : E310-16
 EN ISO 3581-A : E 25 20 R 12
 EN ISO 3581-B : ES310-16
 JIS Z3221 : ES310-16

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	2.5kg/20kg	300mm	1000kg
3.2mm	2.5kg/20kg	350mm	1000kg
4.0mm	2.5kg/20kg	350mm	1000kg

STAINARC 312

AWS A5.4 : E312-16
 EN ISO 3581-A : E 29 9 R 12
 EN ISO 3581-B : ES312-16
 JIS Z3221 : ES312-16

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	2.5kg/20kg	300mm	1000kg
3.2mm	2.5kg/20kg	350mm	1000kg
4.0mm	2.5kg/20kg	350mm	1000kg



STAINARC 316L-17



AWS A5.4 : E316L-17
 EN ISO 3581-A : E 19 12 3 L R 12
 EN ISO 3581-B : ES 316L-17
 JIS Z3221 : ES 316L-17

Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	2.5kg/20kg	300mm	1000kg
2.6mm	2.5kg/20kg	350mm	1000kg
3.2mm	2.5kg/20kg	350mm	1000kg
4.0mm	2.5kg/20kg	350mm	1000kg



STAINARC 309L-17



AWS A5.4 : E309L-17
 EN ISO 3581-A : E 23 12 LR 12
 EN ISO 3581-B : ES309L-17
 JIS Z3221 : ES309L-17

Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	1kg/2.5kg/20kg	300mm	1000kg
2.6mm	1kg/2.5kg/20kg	300mm	1000kg
3.2mm	1kg/2.5kg/20kg	350mm	1000kg
4.0mm	1kg/2.5kg/20kg	350mm	1000kg
5.0mm	1kg/2.5kg/20kg	350mm	1000kg

STAINARC 308L-17



AWS A5.4 : E308L-17
 EN ISO 3581-A : E 19 9 L R 12
 EN ISO 3581-B : ES 308L-17
 JIS Z3221 : ES308L-17

Diameter	Standard Package	Standard Length	Standard Pallet
2.0mm	1kg/2.5kg/20kg	300mm	1000kg
2.6mm	1kg/2.5kg/20kg	300mm	1000kg
3.2mm	1kg/2.5kg/20kg	350mm	1000kg
4.0mm	1kg/2.5kg/20kg	350mm	1000kg
5.0mm	1kg/2.5kg/20kg	350mm	1000kg



HARDFACING 350R

RUTILE ELECTRODE FOR HARDFACING
 EN 14700 : E Fe1
 JIS Z3251 : DF2A-350R

Diameter	Standard Package	Standard Length	Standard Pallet
3.2mm	5kg/20kg	400mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS

Single Layer on Mild Steel	Typical Hardness 28 - 32 HRC
Multi-Layer	Typical Hardness 35 - 38 HRC

Single layer deposit hardness may vary depending on the base metal type and degree of dilution.



HARDFACING 700R

RUTILE ELECTRODE FOR HARDFACING
 EN 14700 : E Fe3
 JIS Z3251 : DF2B-600R

Diameter	Standard Package	Standard Length	Standard Pallet
3.2mm	5kg/20kg	400mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS

Single Layer on Mild Steel	Typical Hardness 53 - 56 HRC
Multi-Layer	Typical Hardness 55 - 60 HRC

Single layer deposit hardness may vary depending on the base metal type and degree of dilution.





HARDFACING ARC 33

CHROME CARBIDE HARDFACING ELECTRODE
EN 14700 : E Z Fe14

Diameter	Standard Package	Standard Length	Standard Pallet
32mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS	
Single Layer on Mild Steel	Typical Hardness 53-58 HRC
Multi-Layer	Typical Hardness 60-65 HRC

Single layer deposit hardness may vary depending on the base metal type and degree of dilution.



HARDFACING ARC 43

CHROME CARBIDE 60HRC
EN 14700 : E Z Fe15



Diameter	Standard Package	Standard Length	Standard Pallet
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS	
Single Layer on Mild Steel	Typical Hardness 53-56 HRC
Multi-Layer	Typical Hardness 55-60 HRC

Single layer deposit hardness may vary depending on the base metal type and degree of dilution.



HARDFACING ARC 9

CHROME CARBIDE HARDFACING ELECTRODE
EN 14700 : E Z Feb



Diameter	Standard Package	Standard Length	Standard Pallet
3.2 mm	5kg/20kg	350mm	1000kg
4.0 mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS

Single Layer on Mild Steel	44-49HRC
Multi-Layer as Welded	36-45HRC
Multi-Layer Work Hardened	48-53HRC

Single layer deposit hardness may vary depending on the base metal type and degree of dilution.

HARDFACING ARC 65T

Hardfacing Electrode Against High Abrasives
EN 14700: E Fe16



Diameter	Standard Package	Standard Length	Standard Pallet
.2 mm	5kg/20kg	350mm	1000kg
4.0 mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS

SINGLE-LAYER ONTO MILD STEEL	TYPICAL HARDNESS 56-61 HRC
MULTI-LAYER AS WELDED	TYPICAL HARDNESS 60-65 HRC

Hardness 50 to 55HRC @ 600°C

Single layer deposit hardness may vary dependings in the base metal type and degree of dilution.

HARDFACING TC

EN 14700 : EFe4

Hard, Shock Resistance Cr-Mo Deposit. Ideal for surfacing and Repairing High Speed Tool Steels. Suitable for repairing cutting edges, shear blades, punches, dies and lathe tools



Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	5kg/20kg	300mm	
3.2mm	5kg/20kg	350mm	
4.0mm	5kg/20kg	400mm	

DEPOSIT HARDNESS ^{1000kg}

Single Layer On Mild Steel	54-58 HRC
Multi-Layer, As Welded	56-60 HRC
Multi-Layer, Heat Treated	60-65HRC

Single layer deposit hardness may vary dependings in the base metal type and degree of dilution.

HARDFACING Mn-Ni

Rebuilding 11%-14% Mn Steel

EN 14700 : EFe9

Tough, work hardenable manganese steel deposit. For rebuilding 11%- 14% manganese steels. Deposited welds are machinable



Diameter	Standard Package	Standard Length	Standard Pallet
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	400mm	1000kg
5.0mm	5kg/20kg	400mm	1000kg

DEPOSIT HARDNESS

Multi-Layer, As Welded	Typical Hardness 18-24HRC
Multi-Layer, Work Hardened	Typical Hardness 40-45HRC

Single layer deposit hardness may vary dependings in the base metal type and degree of dilution.



TUBUROD 33 (58-62HRC)

Hardfacing Tubular Electrode

EN 14700 : E Fe9

OPERATIONAL AND PACKAGING DATA				
ELECTRODE SIZE (mm)	ELECTRODE LENGTH (mm)	WELDING CURRENT RANGE (amps)	Packaging	
			PKT	CTN
6.0	450	140 - 160	5	20
8.0	450	150 - 180	5	20

Characteristics

Tubular electrode filled with chromium carbide powder. Deposit highly resistant to abrasion and mineral erosion. High amount of Cr carbides in an austenitic matrix, very compact. To consume with very low current. Agreeable melting. No slag. Deposit not machinable. Possibility to increase deposition by introducing a second electrode in the arc (double the recommended current). Surfacing of all austenitic and Mn steels types, grey cast iron (without any preheating), tool steels or high alloyed steels (in this case, carry out a cushion layer with E307 electrodes).

Applications

Principally designed for Agriculture, Cement industries, Quarries, Brickyards, Civil engineering, for Screws of Brick press, for Excavating jars,....



POWERWELD Cu 112

AWS A5.6: ECuSn-C

DIN 1733: EL-CuSn7

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	1kg/5kg/20kg	300mm	1000kg
3.2mm	1kg/5kg/20kg	350mm	1000kg
4.0mm	1kg/5kg/20kg	400mm	1000kg

UNS	DIN	Material N
C50700	CuSn2	2.1010
C51100	CuSn4	2.1016
C51900	CuSn6	2.1020
C52100	CuSn8	2.1030
	CuSn6Zn	2.1080
C52400	G-CuSn10	2.1050

For Welding Bronze and Brass, as well as galvanised. Also suitable for Dissimilar Copper to Steel / Cast Iron Joint. AC/DC Electrode.



POWERWELD C & G

CUTTING & GOUGING

Diameter	Standard Package	Standard Length	Standard Pallet
3.2mm	5kg/20kg	350mm	1000kg
4.0mm	5kg/20kg	350mm	1000kg

Applications

POWERWELD C & G electrodes are specially designed for powerfully effective cutting and grooving which can also be used for gouging and hole-piercing . It gives a concentrated forceful arc capable of penetrating plates up to 2.5mm in thickness.



POWERWELD AL5

AWS A5.3 : E4043
DIN 1732 : EL-Al Si5
EN 573-3 : E AlSi5

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	1kg/6g	350mm	1000kg
3.2mm	1kg/6g	350mm	1000kg
4.0mm	1kg/6g	350mm	1000kg



Applications

Aluminium electrode with 5% Si for welding and repairing aluminium or aluminium alloy pieces (AlSi, AlCuSiMn, AlZnMg). For joints between aluminium and aluminium alloys. Can also used as a torch brazing alloy, for engine blocks, cylinder heads, tanks, containers, frames & lorry tipper.

DIN	Material N
G-AlSi6Cu4	3.2151
AlMgSiI	3.2314
G-AlSi5Mg	3.2341
G-AlSi7Mg	3.2371
AlMgSiO,5	3.3206
AlMgSiO,7	3.3210
AlMgISiCu	3.3211

POWERWELD AL12

AWS A5.3 : E4047
DIN 1732 : E AlSi12
EN 573-3 : EL-Al Si12

Diameter	Standard Package	Standard Length	Standard Pallet
2.6mm	1kg/6g	350mm	1000kg
3.2mm	1kg/6g	350mm	1000kg
4.0mm	1kg/6g	350mm	1000kg



Applications

Aluminium electrode with 12.1% Si for welding and repairing aluminium or aluminium alloy pieces (AlSi, AlCuSiMn, AlZnMg). For joint between aluminium and aluminium alloys. Can also be used as a torch brazing alloy, for engine blocks, cylinder heads, tanks, containers,

DIN	Material N
G-AlSi9Mg	3.2373
G-AlSi10Mg	3.2381
G-AlSi10MgCu	3.2383
G-AlSi 12	3.2581
G-AlSi 12Cu	3.2583



COREMAX SF308LN

COREMAX SF308LN
AWS A5.22 : E308LT0-3

Diameter	Standard Package	Standard Pallet
0.8mm	1kg/5kg spool	1000kg
1.0mm	1kg/5kg spool	1000kg

Racking for 1kg and 0.5kg of Electrode, Mig Wire, Tig Rod and Brazing Rod.

COREMAX 308LN is a self-shield rutile type flux cored wire, gas free, flat position welding support. It provides same function as conventional 308L. It mainly applied for welding thin plate base materials, some places like house repair, outdoor welding including island, dessert, or place that unable to provide gas cylinder easily and instead or smaller size stainless steel welding electrode, like size 1.6mm and 2.0mm.



D100 Spool is available upon inquires for MIG wire products

SIZE AVAILABLE : 0.8mm, 0.9mm, 1.0mm, 1.2mm

SOLID MIG WIRE 1KG

POWERMIG ES-4 | AWS A5.18 : ER70S-4
POWERMIG ES-6 | AWS A5.18 : ER70S-6

FLUX CORED WIRE 1KG

COREMAX 71 | AWS A5.20 : E71T-1C
GASLESS | AWS A5.20 : E71T-GS

STAINLESS STEEL SOLID MIG WIRE 1KG

MC-307M		AWS A5.9 : ER307	MC-312M		AWS A5.9 : ER312
MC-309LSiM		AWS A5.9 : ER309LSi	MC-316LSiM		AWS A5.9 : ER316LSi
MC-309MoLM		AWS A5.9 : ER309LMo	MC-410M		AWS A5.9 : ER410
MC-310M		AWS A5.9 : ER310	MC-308LSiM		AWS A5.9 : ER308LSi

ALUMINIUM SOLID MIG WIRE 0.5KG

MC-1100M		AWS A5.10 : ER1100
MC-4043M		AWS A5.10 : ER4043
MC-4047M		AWS A5.10 : ER4047
MC-5183M		AWS A5.10 : ER5183
MC-5356M		AWS A5.10 : ER5356





RECOMMENDED

Recommended for furniture manufacturing Industry with excellent wire feedability. Also recommended for thin plate application.

POWERMIG ES-G

AWS A5.18 : ER70S-G
 EN ISO 14341-A : G 46 2 C1 Z
 EN ISO 14341 : G 46 2 M21 Z
 EN ISO 14341-B : G 49A 2 C1 S11
 EN ISO 14341 : G 49A 2 M21 S11
 JIS Z3312 : YGW11

Diameter	Standard Package	Standard Pallet
0.8mm	1kg	1000kg
0.8mm	5kg	1000kg
0.8mm	15kg	1000kg



POWERMIG ES-6

- AWS A5.18 : ER70S-6
- EN ISO 14341-A : G 42 3 C1 3Si1
- EN ISO 14341-A : G 42 3 M21 3Si1
- EN ISO 14341-B : G 49A 3 C1 S6
- EN ISO 14341-B : G 49A 3 M21 S6
- JIS Z3312 : YGW12

POWERMIG ES-6



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Diameter	Standard Package	Standard Pallet
0.6mm	5kg Spool	1080kg
0.6mm	15kg Spool	200kg
0.8mm	1kg Spool	1000kg
0.8mm	5kg Spool	1080kg
0.8mm	15kg Spool	1080kg
0.8mm	250kg Pail Spool	1080kg
1.0mm	15kg Spool	1080kg
1.0mm	250kg Pail Spool	1080kg
1.2mm	15kg Spool	1080kg
1.2mm	250kg Pail Spool	1080kg
1.6mm	15kg Spool	1080kg

*0.6mm MIG wire also available in 5kg and 15kg spool.



MC-307M

AWS A5.9 : ER307
EN ISO 14343-A : W 18 8 Mn
JIS Z3321 : Y307

Diameter	Standard Package	Standard Pallet
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg

MC-309MoLM

AWS A5.9 : ER309LMo
EN ISO 14343 A : W 23 12 2 L
ENISO 14343-B : SS309LMo
JIS Z3321 : YS309LMo

Diameter	Standard Package	Standard Pallet
0.8mm	12.5kg Spool	1000kg
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg



MC-309LSiM

AWS A5.9 : ER309LSi
EN ISO 14343-A : G23 12 L Si
EN ISO 14343 B : SS 309LSi
JIS Z3321 : YS309LSi

Diameter	Standard Package	Standard Pallet
0.8mm	5kg Spool	1000kg
0.8mm	12.5kg Spool	1000kg
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg



MC-310M

AWS A5.9 : ER310
 EN ISO 14343-A : G 25 20
 EN ISO 14343 B : SS 310
 JIS Z3321 : YS310

Diameter	Standard Package	Standard Pallet
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg



MC-312M

AWS A5.9 : ER312
 EN ISO 14343-A : SS 312
 EN ISO 14343 B : SS 312
 JIS Z3321 : YS312

Diameter	Standard Package	Standard Pallet
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg





MC-410M

AWS A5.9 : ER410

EN ISO 14343-A : G 13

EN ISO 14343-B : SS410

JIS Z3321 : YS410

Diameter	Standard Package	Standard Pallet
0.8mm	12.5kg Spool	1000kg
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg

MC-316LSiM



AWS A5.9 : ER316LSi

EN ISO 14343 A : G 19 12 3 L Si

EN ISO 14343 B : SS 316LSi

JIS Z 3321 : YS316LSi

Diameter	Standard Package	Standard Pallet
0.8mm	1kg	1000kg
0.8mm	5kg	1000kg
0.8mm	12.5kg	1000kg
0.9mm	12.5kg	1000kg
1.0mm	12.5kg	1000kg
1.2mm	12.5kg	1000kg
1.6mm	12.5kg	1000kg





MC-308LSiM

AWS A5.9 : ER308LSi
 EN ISO 14343 A : G 19 9 L Si
 EN ISO 14343 B : SS 308LSi
 JIS Z3321 : Y308LSi

Diameter	Standard Package	Standard Pallet
0.6mm	5kg	
0.8mm	1kg	
0.8mm	5kg	
0.8mm	12.5kg	
0.9mm	5kg	
0.9mm	12.5kg	
1.0mm	12.5kg	
1.2mm	12.5kg	
1.6mm	12.5kg	

*0.6mm also available in 5kg and 12.5kg spool.



MC-Ni 55%

FOR WELDING DUCTILE PIPE
AND CAST IRON BASE METAL

Diameter	Standard Package	Standard Pallet
1.2mm	12.5kg/15kg Spool/D300	1000kg

Applications

High strength Fe-Ni alloy for welding of cast iron and for joining cast-iron to steel. Also suitable for welding ductile iron and pipe of which strength is required.

MC-1100M

AWS A5.10 : ER1100
EN ISO 18273 : S AI 1100 (AI99, 0Cu)

Diameter	Standard Package	Standard Pallet
0.8mm	500g Spool/D100	200kg
0.8mm	2kg Spool/D200	200kg
0.8mm	7kg Spool/D300	840kg
1.0mm	7kg Spool/D300	840kg
1.2mm	7kg Spool/D300	840kg



Applications

For welding unalloyed aluminium, pure aluminium AL 99.5. Suitable for base materials such as 1050A, 1070A, 1100 and 1200.



MC-4043M

AWS A5.10 : ER4043
EN ISO 18273 : S AI 4043 (AISI5)

Diameter	Standard Package	Standard Pallet
0.8mm	500g Spool/D100	200kg
0.8mm	2kg Spool/D200	200kg
0.8mm	7kg Spool/D300	840kg
1.0mm	7kg Spool/D300	840kg
1.2mm	7kg Spool/D300	840kg



Applications

For welding of AISi and AlMgSi alloys containing up to 7% Si. Suitable for base materials such as 3003, 3103, 3004, 4005, 6013, 6060 and 6082.



MC-4047M

AWS A5.10 : ER4047
EN ISO 18273 : S AI 4047 (AISI 12)

Diameter	Standard Package	Standard Pallet
0.8mm	500g Spool/D100	200kg
0.8mm	2kg Spool/D200	200kg
0.8mm	7kg Spool/D300	840kg
1.0mm	7kg Spool/D300	840kg
1.2mm	7kg Spool/D300	840kg



Applications

For welding of AISi and AlMgSi alloys containing up to 12% Si. Suitable for base materials such as 3003 and 4045.





MC-5183M

AWS A5.10 : ER5183
EN ISO 18273 : S Al 5183 (AlMg4, 5Mn0, 7)

Diameter	Standard Package	Standard Pallet
1.0 mm	7kg Spool/D300	840kg
1.2mm	7kg Spool/D300	840kg



Applications

For base material 5083, 5086, 5454, 5754 and 7020.

MC-5356M

AWS a5.10 : ER5356
EN ISO 18273 : S Al 55356 (AlMg5Cr)

Diameter	Standard Package	Standard Pallet
0.8mm	500g Spool/D100	200kg
0.8mm	2kg Spool/D200	200kg
0.8mm	7kg Spool/D300	840kg
1.0mm	7kg Spool/D300	840kg
1.2mm	7kg Spool/D300	840kg
1.6mm	7kg Spool/D300	840kg



Applications

AlSi and AlMgSi alloys containing a magnesium-alloyed AlMg5 wires for welding od seawater corrosion resistance AlMg5 wires for welding of seawater corrosion resistance AlMg alloys with up to 5% Mg. Suitable for base material such as 5005, 5019, 5050, 5052, 5086, 6013, 6060, 6061, 6063, 6082, 7005, 7021, 7029, 7039 and 7050.

MC-CuM

AWS A5.7 : ERCu

ISO 24373 : S Cu 1898 (CuSn1)

Diameter	Standard Package	Standard Pallet
0.8mm	15kg Spool	1080kg
1.0mm	15kg Spool	1080kg
1.2mm	15kg Spool	1080kg



Applications

For welding pure copper base material.



MC-CuAlM

AWS A5.7 : ERCuAl-A2

EN ISO 2437 : S Cu 6180 (CuAl10Fe)

JIS Z 3341 : YCuAl

Diameter	Standard Package	Standard Pallet
0.8mm	15kg Spool	1080kg
1.0mm	15kg Spool	1080kg
1.2mm	15kg Spool	1080kg



Applications

Welding of aluminium bronze piping resistant to Seawater corrosion, erosion and cavitation.



MC-CuSiM

AWS A5.7 : ERCuSi-A

ISO 24373 : S Cu 6560 (CuSi3Mn1)

JIS Z 3341 : Y CuSi B

Diameter	Standard Package	Standard Pallet
0.8mm	15kg Spool	1080kg
1.0mm	15kg Spool	1080kg
1.2mm	15kg Spool	1080kg
1.6mm	15kg Spool	1080kg



Applications

Recommended for welding bronzes, brass and MIG-brazing of galvanized sheets.





SOREX SFC-309L

AWS A5.22 : E309LT1-1/4
EN ISO 17633-A : T 23 12 L P C/M2
JIS Z3323 : TS309L-FB1

Diameter	Standard Package	Standard Pallet
0.9mm	5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg
1.6mm	12.5kg Spool	1000kg

SOREX SFC-316L

AWS A5.22 : E316LT1-1/4
EN ISO 17633-A : T 19 12 3 L P C/M2
JIS Z3323 : TS316L-FB1

Diameter	Standard Package	Standard Pallet
0.9mm	5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg
1.6mm	12.5kg Spool	1000kg

SOREX SFC-308L

AWS A5.22 : E308LT1-1/4
EN ISO 17633-A : T 19 9 L P C/M2
JIS Z3323 : TS308L-FB1

Diameter	Standard Package	Standard Pallet
0.9mm	5kg Spool	1000kg
1.0mm	12.5kg Spool	1000kg
1.2mm	12.5kg Spool	1000kg
1.6mm	12.5kg Spool	1000kg



COREMAX 71

AWS A5.20 : E71T-IC
 AWS A5.36 : E71T-CIAO-CSI-H8
 EN ISO 17632-A : T42 0 P CI I H10
 EN ISO 17632-B : T49 0 TI-ICIA-U H10
 JIS Z 3313 : T49 0 TI-ICA-U H10

Diameter	Standard Package	Standard Pallet
1.0mm	15kg Spool	1080kg
1.2mm	15kg Spool	1080kg
1.6mm	15kg Spool	1080kg

*Also available in 5kg D200 spool packing.



Applications

MC-71T is a gas shielded, general purpose, flux cored welding wire designed for all position welding of mild steel in applications requiring moderate levels of strength and very good notch toughness. Stable arc good slag removal and excellent X-ray quality. Suitable for butt and fillet welding of hulls, storage tanks, mechanical and constructional steel structure and bridge..



COREMAX 71L-T

AWS A5.20 : E71T-9C
 AWS A5.36 : E71TI-CIA2-CSI-H4
 EN ISO 17632-A : T42 2 P CI I H5
 EN ISO 17632-B : T49 3 TI-ICIA H5
 JIS Z 3313 : T43 3 TI-ICA H5

Diameter	Standard Package	Standard Pallet
1.0mm	15kg Spool	1080kg
1.2mm	15kg Spool	1080kg
1.6mm	15kg Spool	1080kg



Applications

MC-71T is a gas shielded, general purpose, flux cored welding wire designed for all position welding of mild steel in applications requiring moderate levels of strength and very good notch toughness. Stable arc good slag removal and excellent X-ray quality. Suitable for butt and fillet welding of hulls, storage tanks, mechanical and constructional steel structure and bridge..



SOREX SFC- 71

AWS A5.20 : E71T1-1C/M

Diameter	Standard Package	Standard Pallet
.2mm	15kg Spool	1080kg
1.6mm	15kg Spool	1080kg



Applications

All-positional rutile flux cored wire designed to be used with CO₂ or Ar/CO₂ gas mixture. It can be used on all positional welds with both single and multiple pass welds for mild steel and low alloy steels. It is widely used for shipbuilding, storage vessels, structural fabrication, machinery and piping, etc.



COREMAX 71 - GS

AWS A5.20 : E71T-GS

Diameter	Standard Package	Standard Pallet
0.8mm	1kg/D100	1000kg
0.8mm	5kg/D200	1000kg
0.9mm	1kg/D100	1000kg
0.9mm	5kg/D200	1000kg
1.0mm	1kg/D100	1000kg
1.0mm	5kg/D200	1000kg



Applications

Self-shielded flux cored wire for general purpose use and welding in all positions. It's especially suited for single pass and thin-gauge and galvanized steel.



COREMAX H33

CHROME CARBIDE 57 to 62 HRC
 EN ISO 14700 : TZ Fe14
 JIS Z3326 : YFCrA-C-700

Diameter	Standard Package	Standard Pallet
1.6mm	15kg Spool	1080kg



Applications

Hard alloyed chromium cabide deposit for single layer welding very resistant to abrasion but very limited resistance to impact. The weld metal cracks to relieve cooling stresses. Ideal for application such as dredge pump component, wear plates, mixer blades, etc.



COREMAX H350

28 to 33 HRC
 EN ISO 14700 : TFe1
 JIS Z3326 : YF2A-C-350

Diameter	Standard Package	Standard Pallet
1.2mm	15kg Spool	1080kg
1.6mm	15kg Spool	1080kg



Applications

Hard surfacing of parts which is suitable for intermetallic abrasion and soil abrasion with light impact. Ideal for applications such as various wheels, shafts, gears, steel casting rollers and part of bulldozer, etc.

COREMAX H600

55 to 60 HRC
 EN ISO 14700 : TFe2
 JIS Z3326 : YF3B-C-600

Diameter	Standard Package	Standard Pallet
1.2mm	15kg Spool	1080kg
1.6mm	15kg Spool	1080kg



Applications

Hard surfacing of parts which is suitable for stronger intermetallic and soil abrasion with light impact. Ideal for applications such as various wheels bucket edges, sprockets and dipper teeth.



MILD AND CARBON STEEL SAW WIRE



POWERWELD S-2

AWS A5.17 : EM-12K

Diameter	Standard Package	Standard Pallet
2.0mm	30kg Coil	1080kg
2.4mm	30kg Coil	1080kg
3.2mm	30kg Coil	1080kg
4.0mm	30kg Coil	1080kg
4.8mm	30kg Coil	1080kg



Characteristics

450kg/700kg/1000kg in Bulk Reel and without Reel also available.

POWERWELD S-1

AWS A5.17 : EL 12

Diameter	Standard Package	Standard Pallet
2.0mm	30kg Coil	200kg
2.4mm	30kg Coil/450kg/700kg	200kg
3.2mm	30kg Coil/450kg/700kg	840kg
4.0mm	30kg Coil/450kg/700kg	840kg



Characteristics

450kg/700kg/1000kg in Bulk Reel and without Reel also available.



Applications

POWERWELD S1 is a copper coated, nominal 0.5% Mn solid steel wire, suitable for a whole range of submerged arc fillet / butt welding and hard surfacing application. POWERWELD S1 wire is very low in deoxidant, must be used with agglomerated saw flux.

POWERWELD S-308L

AWS A5.9: ER 308L

Diameter	Standard Package	Standard Pallet
2.4mm	25kg Coil	1000kg
3.2mm	25kg Coil	1000kg
4.0mm	25kg Coil	1000kg

Applications

It is an extra low carbon stainless wire used for common austenitic stainless steels referred to as "18% Cr- 8% Ni" steels. Typical for steels arc 302, 304 and 304L.



POWERWELD S-309L

AWS A5.9: ER 309L

Diameter	Standard Package	Standard Pallet
2.4mm	25kg Coil	1000kg
3.2mm	25kg Coil	1000kg
4.0mm	25kg Coil	1000kg

Applications

It is an extra low carbon stainless wire used for cladding and joining of dissimilar steels such as "18% Cr- 8% Ni" to mild steel. Also suitable for underlaying on ferritic steel for overlaying stainless steel weld metal.

POWERWELD S-316L

AWS A5.9: ER 316L

Diameter	Standard Package	Standard Pallet
2.4mm	25kg Coil	1000kg
3.2mm	25kg Coil	1000kg
4.0mm	25kg Coil	1000kg

Applications

It is an extra low carbon stainless wire used for joining and cladding of 316 and 316L stainless steel. Can be used on "18% Cr 8% Ni" steels.



POWERWELD SSF-12

Flux for mild steel and 490MPa Steel

Standard Package

Standard
Pallet

25kg

1000kg



BLUEFLUX 200 (-40 C)

Flux for mild steel and 490MPa Steel

Standard Package

Standard
Pallet

25kg

1000kg



POWERWELD SF-30

FLUX For STAINLESS STEEL

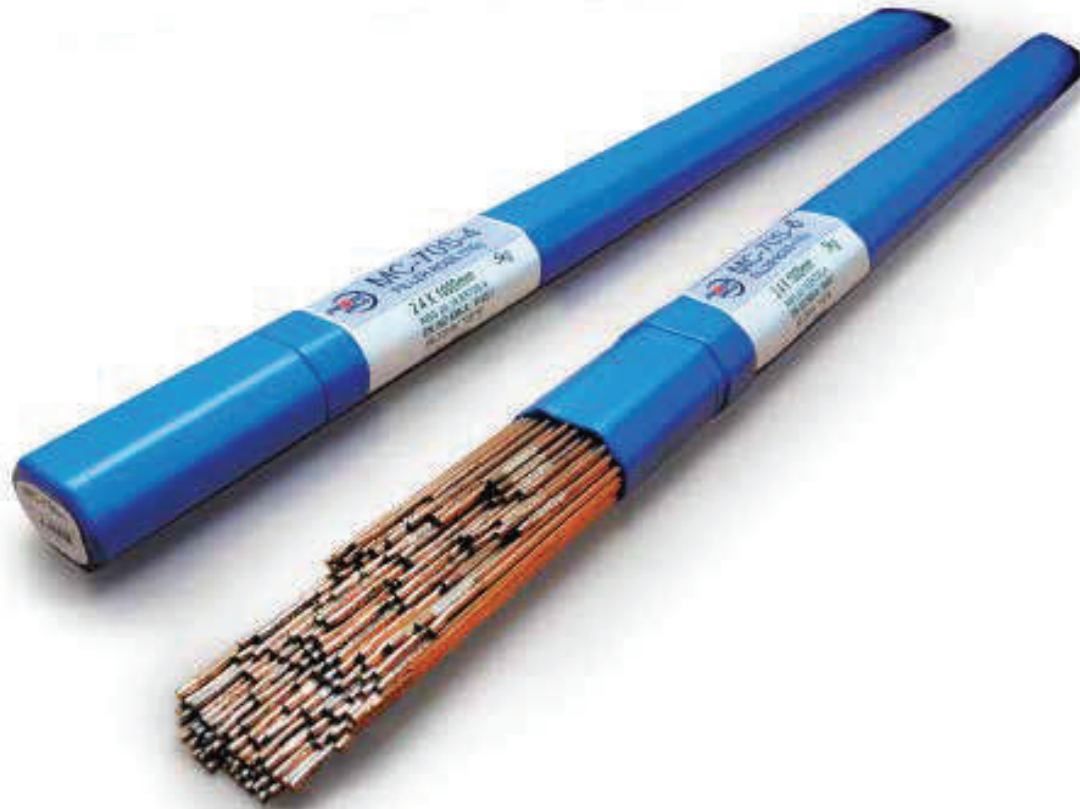
Standard Package

Standard
Pallet

25kg

1000kg





MC 70S-6

AWS A5.18 : ER70S-6
 EN ISO 636-A : W 46 3 3Si1
 EN ISO 636-B : W 49A 3U 6
 JIS Z3316 : W 49 A 3U 6

Diameter	Standard Package	Standard Length	Standard Pallet
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

MC 70S-4

AWS A5.18 : ER70S-4
 EN ISO 636-A : W 46 3 2Si1
 EN ISO 636-B : W 49A 3U 4
 JIS Z3316 : W 49 A 3U 4

Diameter	Standard Package	Standard Length	Standard Pallet
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



MC 4047R

AWS A5.10 : ER4047
EN ISO 18273 : S Al 4047 (AlSi 12)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



Applications

For welding of AlSi and AlMgSi alloys containing up to 12% Si. Suitable for base materials such as 3003 and 4045.

MC-5356R

AWS A5.10 : ER5356
EN ISO 18273 : S Al 5356 (AlMg 5Cr)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



Applications

AlSi and AlMgSi alloys containing a magnesium-alloyed AlMg 5 wires for welding of seawater corrosion resistance AlMg alloys with up to 5% Mg. Suitable for base material such as 5005, 5019, 5050, 5052, 5086, 6013, 6060, 6061, 6063, 6082, 7005, 7021, 7029, 7039 and 7050.



MC-1100R

AWS A5.10 : ER1100
EN ISO 18273 : S Al 1100(Al99, 0Cu)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

Applications

For welding unalloyed aluminium AL 99.5. Suitable for base material such as 1050A, 1070A, 1100 and 1200.

MC-4043R

AWS A5.10 : ER1100
EN ISO 18273 : S Al 1100(Al99, 0Cu)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

Applications

For welding of AlSi and AlMgSi alloys containing up to 7 % Si. Suitable for base materials such as 3003, 3103, 3004, 4005, 6013, 6060 and 6082.

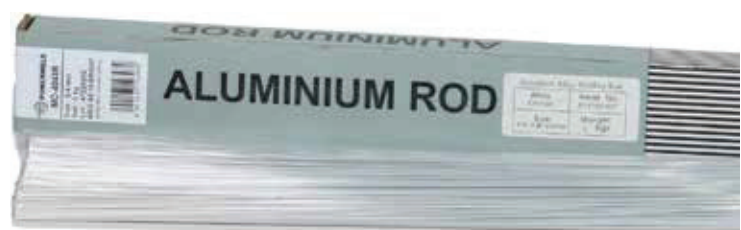
MC-5183R

AWS A5.10 : ER5183
EN ISO 18273 : S Al 5183(AlMg4, 5Mn0, 7)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

Applications

Solid rod for gas protected welding of aluminium-magnesium alloys if similar composition the deposit shows due to the addition of Mn superior mechanical resistance compared to AlMg5. Suitable for base material such as 5083, 5086 and 5454.





MC-Ni100R

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	1kg / 5kg	1000mm	1000kg
2.4mm	1kg / 5kg	1000mm	1000kg

Applications

Weld deposit easy to machine. Repairing of engine blocks, gearboxes, valve and pump bodies.

MC-Ni55R

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	1kg / 5kg	1000mm	1000kg
2.4mm	1kg / 5kg	1000mm	1000kg

Applications

Used in welding and repairing of cast iron either cold or after moderate heating. Weld deposit can be machined.



MC-308LR

AWS A5.9 : ER308L
 EN ISO 14343 A : G 19 9 L
 EN ISO 14343 B : SS 308L
 JIS Z3321 : Y308L

Diameter	Standard Package	Standard Length	Standard Pallet
1.0mm	5kg	1000mm	1000kg
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

MC-308LSiR

AWS A5.9 : ER308LSi
 EN ISO 14343 A : G 19 9 L Si
 EN ISO 14343 B : SS 308LSi
 JIS Z3321 : Y308LSi

Diameter	Standard Package	Standard Length	Standard Pallet
1.0mm	5kg	1000mm	1000kg
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



MC-309MoLR

AWS A5.9 : ER309LMo
 EN ISO 14343-A : W 23 12 2 L
 EN ISO 14343-B : SS 309LMo
 JIS Z3321 : YS309LMo

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000
2.4mm	5kg	1000mm	1000kg

MC-309LR

AWS A5.9 : ER309L
 EN ISO 14343-A : W23 12 L
 EN ISO 14343-B : SS 309L
 JIS Z3321 : Y309L

Diameter	Standard Package	Standard Length	Standard Pallet
1.0mm	5kg	1000mm	1000kg
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

MC-309LSiR

AWS A5.9 : ER309LSi
 EN ISO 14343-A : W 23 12 L Si
 EN ISO 14343-B : SS 309LSi
 JIS Z3321 : YS309LSi

Diameter	Standard Package	Standard Length	Standard Pallet
1.0mm	5kg	1000mm	1000kg
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



MC-310R

AWS A5.9 : ER310
 EN ISO 14343-A : W 25 20
 EN ISO 14343-B : SS 310
 JIS Z3321 : YS310

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg

MC-307R

AWS A5.9 : ER307
 EN ISO 14343-A : W 18 8 Mn
 JIS Z3321 : Y307

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg

MC-312R

AWS A5.9 : ER312
 EN ISO 14343-A : W 29 9
 EN ISO 14343 B : SS 312
 JIS Z3321 : YS312

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg



MC-410R

AWS A5.9 : ER410
 EN ISO 14343-A : W 13
 EN ISO 14343-B : SS410
 JIS Z3321 : YS410

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg



MC-316LR

AWS A5.9 : ER316L
 EN ISO 14343-A : W 19 12 3 L
 EN ISO 14343-B : SS 316L
 JIS Z3321 : YS316L

Diameter	Standard Package	Standard Length	Standard Pallet
1.0mm	5kg	1000mm	1000kg
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

MC-316LSiR

AWS A5.9 : ER316LSi
 EN ISO 14343 A : G 19 12 3 L Si
 EN ISO 14343 B : SS 316LSi
 JIS Z3321 : YS316LSi

Diameter	Standard Package	Standard Length	Standard Pallet
1.0mm	5kg	1000mm	1000kg
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



MC-TIG C01

AWS A5.21 : ERCoCr-C
 EN 14700 : S Co3
 DIN 8555 : WSG-20-G0-55-CSTZ

Cobalt Base continues cast hardfacing rod for TIG and oxy-acetylene welding. Very good resistance to metal-metal wear, abrasion and corrosion and heat up to 900°C. Excellent gliding characteristics, good to polish. Only machinable with tungsten carbide tools or by grinding.

Main applications: Cutting tools, shredding tools, mixing and drilling tools, hot working tools without thermal shock, extrusion screws.

Diameter	Standard Package	Standard Length	Standard Pallet
2.7mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg
4.0mm	5kg	1000mm	1000kg

MC-TIG C06

AWS A5.21 : ERCoCr-A
 EN 14700 : S Co2
 DIN 8555 : WSG-20-G0-40-CTZ

Cobalt Base continues cast hardfacing rod for TIG and oxy-acetylene welding. Very good resistance to metal-metal wear, cavitation and corrosion as well as heat up to 900°C. Excellent gliding characteristics, good to polish, non-magnetic. Machinable with tungsten carbide tools or by grinding.

Main applications: Valves, valve seats and other sealing faces, hot press tools, pump parts, extrusion screws.

Diameter	Standard Package	Standard Length	Standard Pallet
2.7mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg
4.0mm	5kg	1000mm	1000kg



MC-CuR

AWS A5.7 : ERCu

EN ISO 24373 : S Cu 1898 (CuSn1)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



Applications

For welding copper where high electrical conductivity is required.

MC-CUAlR

VVAWS A5.7 : ERCuAl-A2

EN ISO 24373 : S Cu 6180 (CuAl10Fe)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg



Applications

Use for welding of aluminium- bronze piping resistance to seawater corrosion and erosion.

MC-CuSiR

AWS A5.7 : ERCuSi-A

EN ISO 24373 : S Cu 6560 (CuSi3Mn1)

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg



Applications

It is used in welding of galvanized sheets and also for welding bronze and brass.



POWERWELD MSS ROD

UNCOPPER COATED ROD

Diameter	Standard Package	Standard Length	Standard Pallet
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.6mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

POWERWELD OSS-11

COPPER COATED ROD

Diameter	Standard Package	Standard Length	Standard Pallet
1.2mm	5kg	1000mm	1000kg
1.6mm	5kg	1000mm	1000kg
2.0mm	5kg	1000mm	1000kg
2.6mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg

POWERWELD S-222

LOW FUME BRONZE ROD

Diameter	Standard Package	Standard Length	Standard Pallet
1.6mm	5kg	1000mm	1000kg
2.4mm	5kg	1000mm	1000kg
3.2mm	5kg	1000mm	1000kg



TRANSFORMER ARC WELDING MACHINE / COPPER COIL

AC-315



The **AC-315** is mostly widely be used in welding field, AC arc welding machine. Widely be used in welding low carbon steel, low alloy steel. 35% rated duty cycle, overloading protection. Transformer is rolled around, with H level material, high welding efficiency, long using lifetime.

Specifications

Input Voltage	415V 2ph 50HZ
NO-load Voltage	70A
Rated Output Current	315A
Output Current Range	70-315A
Duty Cycle	35% 315A / 100%185A
Rated Input Capacity	21KVA
Cooling mode	Air-cooling
Weight	72KG
Insulation	H
Protection Class	IP21S



AC-400

The **AC-400** is mostly widely be used in welding field, AC arc welding machine. Widely be used in welding low carbon steel, low alloy steel. 35% rated duty cycle, overloading protection. Transformer is rolled around, with H level material, high welding efficiency, long using lifetime.

Specifications

Input Voltage	415V 2ph 50HZ
NO-load Voltage	72A
Rated Output Current	400A
Output Current Range	85-400A
Duty Cycle	35% 400A / 100%236A
Rated Input Capacity	32.5KVA
Cooling mode	Wind-cooling
Weight	78KG
Insulation	IP21S
Protection Class	H



AC-500

The **AC-500** is mostly widely be used in welding field, AC arc welding machine. Widely be used in welding low carbon steel, low alloy steel. 35% rated duty cycle, overloading protection. Transformer is rolled around, with H level material, high welding efficiency, long using lifetime.

Specifications

Input Voltage	415V 2ph 50HZ
NO-load Voltage	70A
Rated Output Current	500A
Output Current Range	105-500A
Duty Cycle	35% 500A / 100%295A
Rated Input Capacity	42KVA
Cooling mode	Wind-cooling
Weight	96KG
Insulation	IP21S
Protection Class	H



PRICE ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE & EXCLUDE 6% GST



BK-660R

Diameter	Standard Package	Standard Length
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg



For base material SKD 11.

CENA-R

Diameter	Standard Package	Standard Length
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg



For base material CENA 1.

BKD-61R

Diameter	Standard Package	Standard Length
0.8mm	1kg/5kg	1000kg
1.0mm	1kg/5kg	1000kg
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg
2.4mm	1kg/5kg	1000kg



For base material ASSAB 8407, SKD 61, CALMAX, DAC, FDAC, HDS-1, DHA 1 and DHZF.



NSM-R

Diameter	Standard Package	Standard Length
1.6mm	1kg/5kg	1000kg

Applications

For base material managing steel.

BKD-11R

Diameter	Standard Package	Standard Length
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg
2.0mm	1kg/5kg	1000kg
2.4mm	1kg/5kg	1000kg
3.2mm	1kg/5kg	1000kg

Applications

For base material SKD 11, XW-41, PD 613, HPM 31 and XW-10.

CM-3R

Diameter	Standard Package	Standard Length
0.8mm	5kg	1000mm
1.0mm	5kg	1000mm
1.2mm	5kg	1000mm
1.6mm	5kg	1000mm
2.4mm	5kg	1000mm

Applications

Build-up repairing if sun steel plastic needed ,
For base material KP-4, PDS3, HIT 82 Assab
718, MUM and SD61.



NINAK-R

Diameter	Standard Package	Standard Length
0.9mm	1kg/5kg	1000kg
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg



Applications

For base material Nak-55, Nak-80, HPM 1 and HPM 50.

NTX-50R

Diameter	Standard Package	Standard Length
0.8mm	1kg/5kg	1000kg
1.0mm	1kg/5kg	1000kg
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg
2.4mm	1kg/5kg	1000kg



Applications

For base material ASSAB 760,S45C and S50C

BKH-13R

Diameter	Standard Package	Standard Length
0.8mm	1kg/5kg	1000kg
1.0mm	1kg/5kg	1000kg
1.2mm	1kg/5kg	1000kg
1.6mm	1kg/5kg	1000kg
2.4mm	1kg/5kg	1000kg



Applications

For base material STAVAX, RAMAX, HPM 38 and PD555.



Diameter	Size	Application and Description	Hardness
NTG-M	0.3mm	For joining mild and high tensile steel. Also suitable for buffer layer and weld metal crack repairing. Suitable for base metal Awsab 7660, S45C, S48C, S50C, etc.	Hardness; ~200HB
	0.4mm		
	0.6mm		
CM-3M	0.2mm	Build up repairing for SCM carbon steels mould and plastic mould. Also suitable for KP-4, HPM 17, PDS-3, HB, ASSAB 718.	Hardness; 28 to 31 HRC
	0.3mm		
	0.4mm		
	0.5mm		
	0.6mm		
BKH-13M	0.2mm	Build up for various mould such as plastic precision mould, die casting mould, forging mould, hot forging dies etc. Also suitable for PD 555, HPM 38, STAVAX etc.	Hardness; 48 to 53 HRC
	0.3mm		
	0.4mm		
	0.5mm		
	0.6mm		
BKD-11M	0.6mm	Build up repairing of SKD 11 tool steel mould. Also suitable for PD613, HPM31, XW-10, XW-41, STD 11.	Hardness; 35 to 38 HRC Hardening & 200C Tempering; 58 to 62 HRC
	0.7mm		
BKD-61M	0.2mm	Hard surfacing for forging moulds or SKD-61 tool steels mould. Also suitable for ASSAB 8407, QRO 90, H13, DHA1.	Hardness; 51 to 55 HRC
	0.3mm		
	0.4mm		
	0.5mm		
	0.6mm		
NAK-80M	0.2mm	Build up repairing for NAK-50, NAK-80 and Cr Mo tool Steel moulds. Also suitable for HPM 50, KMS1, HP-70 and ASSAB 718 HI Hard.	Hardness; 51 to 55 HRC
	0.3mm		
	0.4mm		
	0.5mm		
	0.6mm		
AL-4043M	0.3mm	For welding aluminium alloys 6061, 6063, 5050, 5154, 3003 and 2024.	
AL-5356M	0.3mm	For welding aluminium 5005, 5050, 5052 and 5086.	
HE-500M	0.3mm	For welding problem steels, high carbon steels, high alloy steels, tool steels etc. Also suitable for buffering on problem steels.	Hardness; 20 to 23 HRC
	0.4mm		

UNDER WATER CUTTING

水中切断棒

酸素アーク切断は、操作が簡単で安価な器具で行える事から、長きにわたり行われてきた方法ですが、使用する電極棒の価格（高価）やフラックスの保護（水中での剥離）等に問題がありました。そこで弊社は、約30年前に特殊鋼管に二重コーティングを施した画期的な水中切断電極棒を開発し、フラックスの剥離や電撃からの危険性が無くなりました。

W-7・SC9-5W・SC8-5W等の水中切断電極棒は、現在の海洋開発時代に自動器具にも負けない作業の高効率と経済性で皆様に認めて戴いている商品です。

UnderWater Welding &
Cutting Electrode & Torch

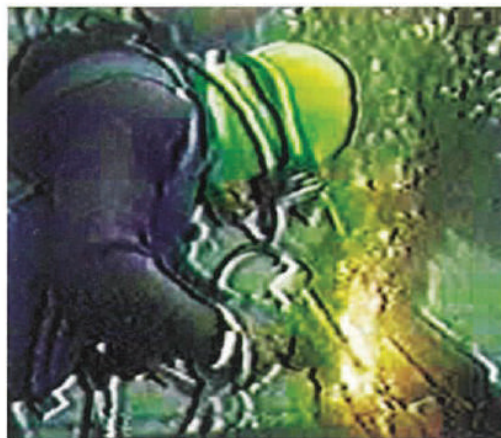


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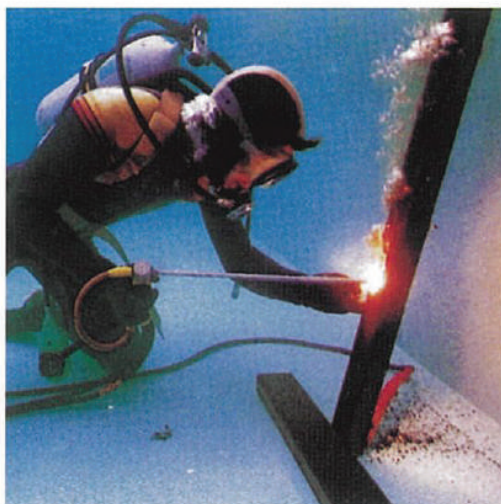
UNDER WATER CUTTING

Oxygen Arc Cutting has been popular a long time because of easy operation and economical equipment, but there are some problems in price of electrodes, protect of flux, etc. Now, the Special Under-Water Cutting Electrodes with double coating on the special tube is developed, and there is no trouble in falling- out of coating on flux and electric strike.

The type of “SC9-5W” and “SC8-5W”, “W-7” may realize the high efficient and economical under-water cutting in the age of sea-development even for automatic equipments.



Under water cutting
水中切断

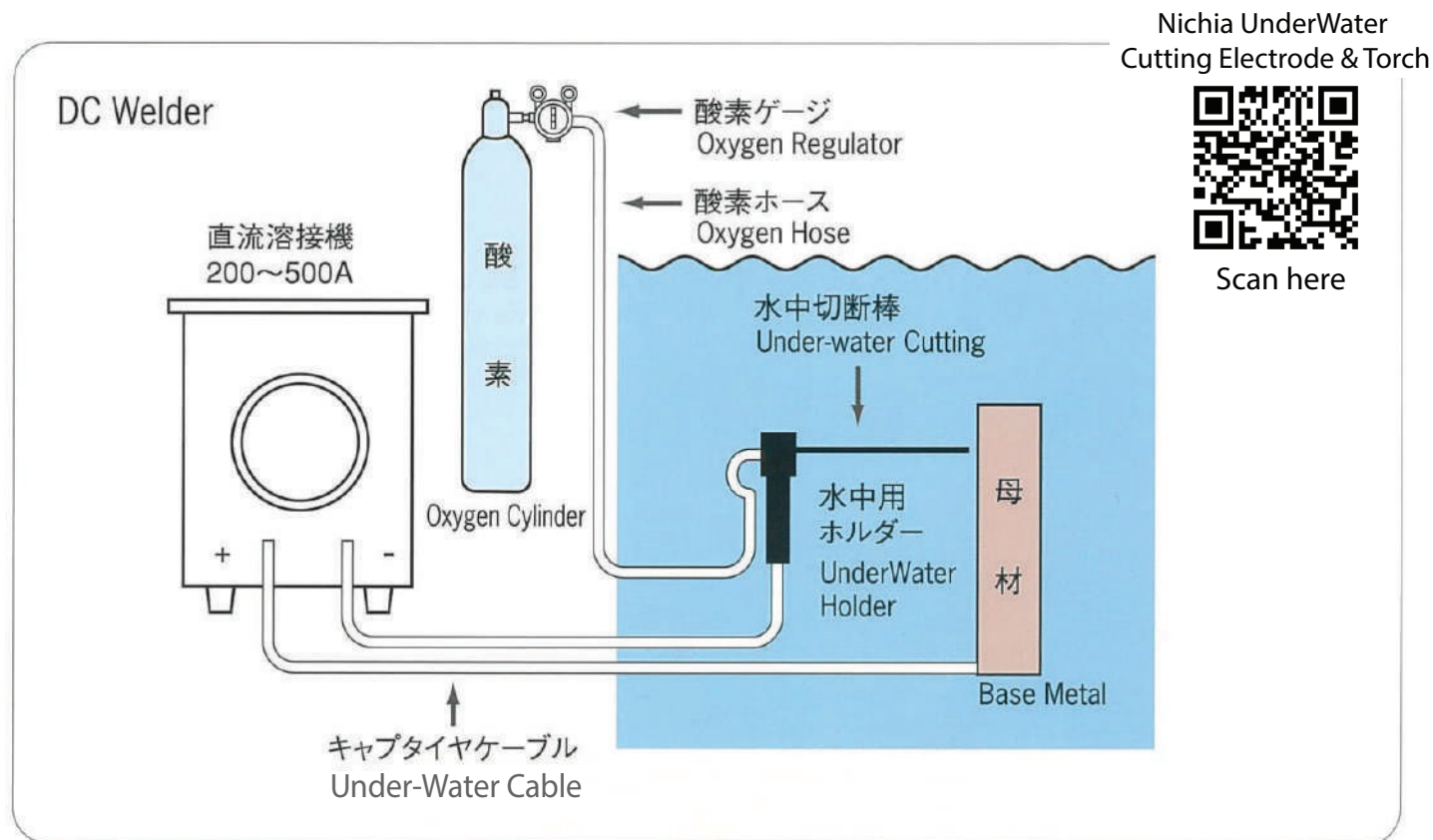


Under water cutting
水中切断





Under water weldomg
水中溶接

UNDER WATER CUTTING



仕様および規格 Specification

商品名 MODEL NO.	断面 CROSS SECTION	外径 (mm) O.D. (mm)	全長 (mm) LENGTH (mm)	重量 (kg/個) WEIGHT (kg/pcs)	酸素圧力 (MPa) OXYGEN PRESSURE (MPa)	目的・用途 PURPOSE/APPLICATIONS
W-7		7.3	500	0.16	0.39 ~ 0.59	矢板の水中切断、 鋼管とH形鋼 Under-water Cutting of sheet pile, steel-pipe & H-shape steel
SC8-5W		8.0	600	0.21		
SC9-5W		9.0	600	0.25	0.49 ~ 0.69	

UNDER WATER CUTTING

*1 特殊仕様品 The Oxy-Arc Electrodes of especially order.

水中切断時の注意

Cautions in Underwater Cutting

- 溶接機は必ず直流溶接機を使用
● For the welding machine, use a direct current welding machine without fail.
- 電源の入切りは水面下にホルダー及び潜水士が入っている時に行う
● ON-OFF of the power supply must be done when the holder and the diver are in the state under the water.
- キャブタイヤケーブル、酸素ホース、切断棒の取り付けは確実に
● Make assuredly the mounting of cable, oxygen hose and cutting bar.
- 水圧に応じて酸素圧、電流を調整する
● Adjust the oxygen pressure and the electric current in proportion to the hydraulic pressure.



Nichia UnderWater
Welding Electrode & Torch



Scan here

水中溶接・水中切断



*1 特殊仕様品 The Holder is especially order.
他にも、ご希望により特殊な形状及び長さのホルダーを製作致します。
It is possible to product various shape & length.

ELECTRODES

For Welding Cast Iron

PRODUCT GOLD : 410



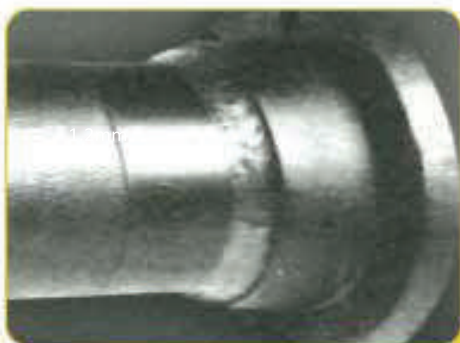
Description	Technical Details	Ømm
Electrode for cold repair welding of most different rtpes of cast Iron. Use for welding and rebuilding of frames, gear box, machine and pump housings, engine blocks, casting defects, pulleys, compressors. Excellent machinability. Weld metal composition : Ni>95, Fe Mn, C, Si	Rm (Mpa): 350	2.6
	Hardness: ~180HB	3.2
		4.0

PRODUCT GOLD : 420



Description	Technical Details	Ømm
High strength Fe Ni Alloy electrode for cold welding of different Cast Irons such as grey cast iron nodular cast iron and for joining cast iron to steel. Electrode will not overheat and has exceptional good mechanical properties. Can also be used as a bonding layer on dirty or oily cast iron. Weld metal composition: Ni, Fe, Mn, C, Si Base Metal: Grey cast iron ASTM A48 class 25 B-60 B, A536 Grade 60-80 DIN GG15-GG40, GGG40 TO 60, GTS 35 to 65	Rm (Mpa): 550	2.6
	Re (Mpa): 350	3.2
	A5(%): 15	4.0
	Hardness: 200~220HB	

PRODUCT GOLD : 707



Description	Technical Details	Ømm
Economy type Nickel base Electrode for repair and fabrication of cast iron components. Recommended for welding gray, nodular and malleable cast iron and for joining cast iron to steel. GOLD 707 is one of the most economic electrodes for welding of cast-iron.	Rm (Mpa): 420	2.6
	Re (Mpa): 350	3.2
	A5(%): 15	4.0
	Hardness: 200~220HB	

ELECTRODES

For High Temperature & Special Applications

PRODUCT GOLD : 520

Description	Technical Details	Ømm
<p>Universal high nickerl maintenance electrode for welding nickel alloys, dissimilaar steels, high temperature steel, (Incoloy 800) cryogenic stainless steels tool steel etc.</p> <p>520 is the most versatile electrodes for all difficult weld repairs.</p> <p>For weld repairs in Power stations, steelworks, chemical industries.</p>	Rm (Mpa): 680	3.2
	Re (Mpa): 420	4.0
	A5 (%): 40	
	Hardness: ~220,240HB	
	Temperature Resistance: >1200°C	



ELECTRODES

For Non Ferrous Metal Overlaying-Pre stools

PRODUCT GOLD : 610

Description	Technical Details	Ømm
<p>ELECTRODE FOR ALUMINIUM</p> <p>Use for repairs and joining of Al Plates, sheets, pipes, extrusions etc.</p> <p>Applications include al, engine blocks, cylinder heads, boats construction, housings, pumps, tanks, moulds, frames, truck bodies, bus bars etc.</p>	Rm (Mpa): 180	2.6
	Re (Mpa): 80	3.2
	A5 (%): 6	4.0
	Weld metal compositions: AL+Si	



PRODUCT GOLD : 620

Description	Technical Details	Ømm
<p>Maintenance electrode with a complex Cu-bronze deposit for joining and surfacing of copper-alloys, steel and cast iron also for dissimilar joints between copper alloys and steels.</p> <p>The deposit is corrosion, seawater and cavitations resistant with a low coefficient of friction.</p> <p>Used in ship building, for pumps impellers, propellers, screws, for surfacing of shafts, bearings, hydraulic piston heads, cable guides and machinery parts, automotive forming dies etc.</p> <p>Excellent for protection of parts against metal-metal wear.</p> <p>As a overlay for deep drawing of mild steel, stainless steel, aluminium and titanium</p>	Rm (Mpa): 660	2.6
	Re (Mpa): 420	3.2
	A5 (%): 22	4.0
	Weld metal compositions: Cu, Mn, Ni, Al	



ANTI-WEAR PROTECTION

Against Pressure and Impact Using Gold Electrodes

PRODUCT GOLD : 1015



Description	Technical Details	Ømm
Especially for rebuilding edges of cutting tools, knives, shear blades, drills, punching dies, press tools, forging hammers, and other parts subjected to metal to metal wear up to 550°C. Weld Deposit is machinable.	Hardness: ~45-50 HRC Weld Metal Analyse: Cr, V, W	2.6
		3.2

PRODUCT GOLD : 740



Description	Technical Details	Ømm
Manganese alloy electrode for overlays which are subjected to extreme impact. The overlay has a strong work hardening tendency, is highly crack resistant and the thickness is not limited. One or two final layers with Gold 750 increase the abrasion resistance.	Hardness: ~250HB After work hardening ~480 HB Weld Metal Analyse: Mn, Cr, Ni, Fe, Si	3.2
		4.0

ELECTRODES

For Abrasion, Heat, Metal/ Metal Wear-Corrosion Tools and Dies

FOR HIGH TEMPERATURE COMBINED WEAR

PRODUCT GOLD : 1045 (770)



Description	Technical Details	Ømm
Electrode with a complex Co-Cr composition alloyed with W for surfacing of parts which are subjected to a combination of metal / metal wear, corrosion and heat up to 800°C and shortly up to 1000°C. For valve seats, hot forging tools, screws...	Hardness: ~42-45 HRC at 20oC 38 HRC at 60oC Weld Metal : Cobalt Base, Tungsten Chrome, Iron	3.2
		4.0

ELECTRODES

For Mineral Abrasion

PRODUCT GOLD : 750 (1033)



Description	Technical Details	Ømm
<p>Stick electrode for hard facing of parts subject to mineral abrasion.</p> <p>For anti rear protection in cement works, earthmoving, quarries, steelworks, foundaries, and sugar industries.</p> <p>Use to protect buckets, bulldozer blades, crusher rollers, impellers, screw conveyors, mixer blades, fans etc.</p>	<p>Hardness: ~58-62 HRC</p> <p>Weld Metal : Chromium Carbide</p>	3.2
		4.0

PRODUCT GOLD : 760



Description	Technical Details	Ømm
<p>For hard facing of parts subject to extreme mineral abrasion and heat. Use to protect buckets, bulldozer blades, crusher rollers, impellers, screw conveyors, mixer blades, dredger teeth, fans etc.</p>	<p>Hardness: ~64 HRC</p> <p>Weld Metal : Chromium, Niobium, Molybdenum</p>	3.2
		4.0



SELECTARC INOX 308B

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.04	Low carbon stainless steel electrode, basic type coating. Excellent in all position and especially on bad prepared joints. Very good mechanical properties. Used on 18/8 stainless steels for service temperatures from -196°C up to +350°C.	Rm(MPa)	>560	2.5 x 300	70A	= +
~E308 -15	Mn	0.6		Rp0,2(MPa)	>380	3.2 x 350	90A	
EN1600	Si	0.4		A5(%)	>35	4.0 x 350	120A	
ISO 3581-A	Ni	9.5		KV(J)	+20°C → >90			
E 19 9 L B 4 2	Cr	19.0			-196°C → >30			
	Fe	Rem.						



SELECTARC 25/20R

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	0.1	Rutile-basic electrode with a high temperature resistant austenitic stainless steel deposit. Resistant to corrosion and oxidation up to 1200°C, good resistant against hot cracking, easy slag removal and nice bead aspect. Construction of steam boilers, chemical installations, gas industry, ovens, thermal equipment.	Rm(MPa)	>550	2.0 x 300	45A	= + ~70 V
~E310-16	Mn	2.0		Rp0,2(MPa)	>400	2.5 x 300	70A	
EN1600	Si	0.9		A5(%)	>30	3.2 x 350	100A	
ISO 3581-A	Ni	20.5		KV(J)	+20°C → >60	4.0 x 350	135A	
E 25 20 R 3	Cr	25.5				5.0 x 450	180A	
	Fe	Rem.						



SELECTARC 29/9

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	0.1	Rutile-basic electrode with an austenitic-ferritic stainless steel deposit, adapted for welding dissimilar steels (stainless steels with low alloyed steels) and steels difficult to weld as tool steels, Mn steels, spring steels...	Rm(MPa)	700-850	1.6 x 250	35A	= + ~50 V
~E312-16	Mn	0.6		Rp0,2(MPa)	>500	2.0 x 300	45A	
EN1600	Si	1.0		A5(%)	>20	2.5 x 300	70A	
ISO 3581-A	Ni	9.5		KV(J)	--	3.2 x 350	110A	
E 29 9 R 32	Cr	29.0		Hardness	~240 HB	4.0 x 350	135A	
	Mo	0.5	Weld deposits highly resistant to cracks, suitable for buffer layers before hardfacing and for building up cutting tools. Soft fusion, smooth and fine ripple beads.			5.0 x 450	180A	
	Fe	Rem.						



SELECTARC INOX 316NG

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.04	Low carbon basic coated stainless steel electrode. For welding and cladding on austenitic Cr-Ni-Mo stainless steels and clad plates. Good behavior in positional welding and especially on bad prepared joints. Applied for service temperatures from -196 c up to +350 c.	Rm(MPa)	>560	2.5 x 300	70A	= +
~E316L-15	Mn	1.6		Rp0,2(MPa)	>380	3.2 x 350	90A	
EN1600	Si	0.4		A5(%)	>35	4.0 x 350	120A	
ISO 3581-A	Ni	12.0		KV(J)	+20 c → >80			
E 19 12 3 L B 2	Cr	18.0			-120 c → >50			
	Mo	2.7	Chemical and petrochemical, refineries and in shipbuilding to weld pipes, tanks, heat exchangers... smooth and fine ripple beads.					
	Fe	Rem.						



SELECTARC INOX 385

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.03	Rutile-basic coated electrode for welding fully austenitic highly corrosion resistant stainless steels (904L, B6). Due to its alloy composition, high Mo-content and Cu, the weld metal is resistant against attacks by phosphoric and sulphuric acids, it shows a high resistance against pitting and stress corrosion in chloride containing media. Can be used at operating temperatures up to 400 C.	Rm(MPa)	>570	2.5 x 300	50-70A	= + ~70 V
~E385-16	Mn	1.4		Rp0,2(MPa)	>370	3.2 x 350	70-100A	
EN1600	Si	0.8		A5(%)	>35	4.0 x 350	90-130A	
ISO 3581-A	Ni	25.0		KV(J)	+20 c → >70			
E 20 25 5 Cu L R 2	Cr	20.5						
	Mo	4.5	Chemical and petrochemical, refineries and in shipbuilding to weld pipes, tanks, heat exchangers... smooth and fine ripple beads.					
	Fe	1.5						
		Rem.						



SELECTARC INOX 308B

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.04	Low carbon stainless steel electrode, basic type coating. Excellent in all position and especially on bad prepared joints. Very good mechanical properties. Used on 18/8 stainless steels for service temperatures from -196°C up to +350°C.	Rm(MPa)	>560	2.5 x 300	70A	= +
~E308 -15	Mn	0.6		Rp0,2(MPa)	>380	3.2 x 350	90A	
EN1600	Si	0.4		A5(%)	>35	4.0 x 350	120A	
ISO 3581-A	Ni	9.5		KV(J)	+20°C → >90			
E 19 9 L B 4 2	Cr	19.0			-196°C → >30			
	Fe	Rem.						



SELECTARC 25/20R

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	0.1	Rutile-basic electrode with a high temperature resistant austenitic stainless steel deposit. Resistant to corrosion and oxidation up to 1200°C, good resistant against hot cracking, easy slag removal and nice bead aspect. Construction of steam boilers, chemical installations, gas industry, ovens, thermal equipment.	Rm(MPa)	>550	2.0 x 300	45A	= + ~70 V
~E310-16	Mn	2.0		Rp0,2(MPa)	>400	2.5 x 300	70A	
EN1600	Si	0.9		A5(%)	>30	3.2 x 350	100A	
ISO 3581-A	Ni	20.5		KV(J)	+20°C → >60	4.0 x 350	135A	
E 25 20 R 2	Cr	25.5				5.0 x 450	180A	
	Fe	Rem.						



SELECTARC 29/9

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	0.1	Rutile-basic electrode with an austenitic-ferritic stainless steel deposit, adapted for welding dissimilar steels (stainless steels with low alloyed steels) and steels difficult to weld as tool steels, Mn steels, spring steels...	Rm(MPa)	700-850	1.6 x 250	35A	
~E312-16	Mn	0.6		Rp0,2(MPa)	>500	2.0 x 300	45A	= +
EN1600	Si	1.0		A5(%)	>20	2.5 x 300	70A	
ISO 3581-A	Ni	9.5		KV(J)	--	3.2 x 350	110A	~50 V
E 29 9 R 32	Cr	29.0		Hardness	~240 HB	4.0 x 350	135A	
	Mo	0.5	Weld deposits highly resistant to cracks, suitable for buffer layers before hardfacing and for building up cutting tools. Soft fusion, smooth and fine ripple beads.			5.0 x 450	180A	
	Fe	Rem.						



SELECTARC INOX 316NG

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.04	Low carbon basic coated stainless steel electrode. For welding and cladding on austenitic Cr-Ni-Mo stainless steels and clad plates. Good behavior in positional welding and especially on bad prepared joints. Applied for service temperatures from -196 c up to +350 c.	Rm(MPa)	>560	2.5 x 300	70A	
~E316L-15	Mn	1.6		Rp0,2(MPa)	>380	3.2 x 350	90A	= +
EN1600	Si	0.4		A5(%)	>35	4.0 x 350	120A	
ISO 3581-A	Ni	12.0		KV(J)	+20 c → >80			
E 19 12 3 L B 4	Cr	18.0			-120 c → >50			
	Mo	2.7	Chemical and petrochemical, refineries and in shipbuilding to weld pipes, tanks, heat exchangers... smooth and fine ripple beads.					
	Fe	Rem.						



SELECTARC INOX 385

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.03	Rutile-basic coated electrode for welding fully austenitic highly corrosion resistant stainless steels (904L, B6). Due to its alloy composition, high Mo-content and Cu, the weld metal is resistant against attacks by phosphoric and sulphuric acids, it shows a high resistance against pitting and stress corrosion in chloride containing media. Can be used at operating temperatures up to 400 C	Rm(MPa)	>570	2.5 x 300	50-70A	
~E385-16	Mn	1.4		Rp0,2(MPa)	>370	3.2 x 350	70-100A	= +
EN1600	Si	0.8		A5(%)	>35	4.0 x 350	90-130A	~70 V
ISO 3581-A	Ni	25.0		KV(J)	+20 c → >70			
E 20 25 5 Cu L R 2	Cr	20.5						
	Mo	4.5	Chemical and petrochemical, refineries and in shipbuilding to weld pipes, tanks, heat exchangers... smooth and fine ripple beads.					
	Fe	1.5						
		Rem.						



SELECTARC AI 112

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.3	Si	12.0	Aluminium electrode with 12% Si for welding and repairing aluminium or aluminium alloy pieces (AISi, AlCuSiMn, AlSiMg,...) Specially designed for welding cast or extruded aluminium alloys with Si levels higher than 7%. Dissimilar joints between aluminium and aluminium alloys.	Rm(MPa)	180	2.5 x 300	60A	= + ~70 V
~E4047	Mn	<0.5		Rp0,2(MPa)	80	3.2 x 350	90A	
DIN 1732	Fe	<0.5		A5(%)	>5	4.0 x 350	120A	
EL-AISi12	Al	Rem.		KV(J)	-			
				Hardness	~50 HB			

SELECTARC INOX 2209

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.03	Rutile-basic electrode with an austenitic-ferritic microstructure (duplex). Stable arc, regular drop transfer, easy slag removal. For operation temperatures up to 250°C and resistant in chloride containing media against pitting corrosion as well as crevice and stress corrosion. For butt welding and cladding of steel and castings with an austenitic-ferritic structure of a similar composition. For pumps, vessels, piping systems... attacked by chloride containing solutions. But also for impellers and other components which require strength combined with corrosion attack.	Rm(MPa)	>700	2.5 x 300	50-75A	= + ~70 V
E2209-17	Mn	0.9		Rp0,2(MPa)	>550	3.2 x 350	70-100A	
EN 1600	Si	0.9		A5(%)	>22	4.0 x 350	90-150A	
ISO 3581-A	Ni	9.0		KV(J)	+20°C >50 -40°C >37			
E 22 9 3 N L R 32	Cr	22.5						
	Mo	3.0						
	N	0.18						
	Fe	Rem.						

SELECTARC INOX 2209B

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.4	C	<0.03	Basic coated electrode with an austenitic- ferritic microstructure (duplex). The weld deposit is characterised by a high resistance against pitting, crevice and stress corrosion in chloride containing media, like sea water, combined with a very high tensile strength. For operation temperatures up to 250 C. For butt welding and cladding of steels and castings with an austenitic- ferritic structure, of a similar composition. For pumps, vessels, piping systems... attacked by chloride containing solutions.	Rm(MPa)	>810	2.5 x 300	50-75A	= +
E2209-15	Mn	1.0		Rp0,2(MPa)	>620	3.2 x 350	70-100A	
EN 1600	Si	0.5		A5(%)	>25	4.0 x 350	90-150A	
ISO 3581-A	Ni	9.0		KV(J)	+20°C → >100 -40°C → >45			
E 22 9 3 N L B 42	Cr	22.5						
	Mo	3.0						
	N	0.18						
	Fe	Rem.						

SELECTARC B60

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters	
AWS A5.5	C	<0.1	Low hydrogen basic coated electrode with Mo for welding creep resisting steels used at temperatures up to 500°C. Good resistance to hydrogen attack (chemical installations). Used for piping systems, vessels...	Rm(MPa)	>550	2.5 x 350	80A	= +
E7018-A1	Mn	0.8		Re(MPa)	>450	3.2 x 350	115A	
ISO 3580-A	Si	0.4		A5(%)	>22	4.0 x 450	150A	
E Mo B 4 2 H5	Mo	0.5		KV(J)	+20°C → >100	5.0 x 450	190A	
	S	<0.025		After heat treatment at 650°C/1h.				
	P	<0.025						
	Fe	Rem.						



SELECTARC HB14Mn

Parameters

Classification	Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters
-	<p>Rutile-basic coated electrode suitable to surface all pieces subject to high impact. Allows to build up and then to apply final layer, using HBA or HB63. The deposit is austenitic and is exceptionally resistant to impact and wear.</p> <p>Repairing of used pieces or preventive protection of new pieces. Used for railway applications (rails, switches, crossings, tongues) in quarries and mines (crusher jaws, excavator and grab teeth, mill hammers, rock crusher).</p>	As Welded	200-250HB	3.2 x 450	120A
				4.0 x 450	160A
				5.0 x 450	200A
		Work hardened	400-500HB		
					<div>= + -</div> <div>~65 V</div>

SELECTARC Cu114

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters
AWS A5.6	Mn	0.8	Basic coated tin bronze electrode for welding copper tin bronzes (Cu-Sn 6-8%) and bronzes (Cu-Zn). Also used for dissimilar joints. For repairing wrought bronzes (Cu-Sn), for surfacing on bronzes, steels and cast iron. The weld deposit is resistant to salt water corrosion.	Rm(MPa)	300	2.5 x 350	70-90A
E CuSn-A	Fe	0.1		Rp0,2(MPa)	120	3.2 x 350	90-110A
DIN 1733	Sn	6.0		A5(%)	>20	4.0 x 350	110-130A
EL-CuSn7	P	0.1		KV(J)	-		
	Cu	Rem.	This electrode is especially designed to weld with alternative current, but it can also be used either on DC + or -. Naval constructions and installations for sea water desalination, repair works.	Hardness	100HB		
							<div>= + -</div> <div>~60 V</div>

SELECTARC Cu116

Classification	Weld metal Composition(%)		Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters
AWS A5.6	Mn	1.0	Basic coated aluminium bronze electrode for joining and surfacing on aluminium bronzes with up to 10%Al and for dissimilar joints between steels and CuAl-bronzes. Also recommended for overlays on cast iron, steels and copper alloys. Excellent weldability, stable arc, low spatters, easy slag removal.	Rm(MPa)	420	2.5 x 350	80-100A
~E CuAl-A2	Fe	0.7		Rp0,2(MPa)	180	3.2 x 350	90-120A
DIN 1733	Al	8.0		A5(%)	>20	4.0 x 350	120-140A
EL-CuA9	Cu	Rem.		KV(J)	-		
			Shipbuilding, sea water applications, desalination plants, chemical industry, pump parts which are attacked by salt water (propellers, bearings, ...).	Hardness	180HB		
							<div>= +</div>

SELECTARC HMn

Classification	Characteristic and Applications	Mechanical Properties		Ø x L (mm)	Parameters
-	<p>Rutile-basic coated electrode suitable to surface all pieces subject to high impact. Allows to build up and then to apply final layer, using HBA or HB63. The deposit is austenitic and is exceptionally resistant to impact and wear.</p> <p>Repairing of used pieces or preventive protection of new pieces. Used for railway applications (rails, switches, crossings, tongues) in quarries and mines (crusher jaws, excavator and grab teeth, mill hammers, rock crusher).</p>	As Welded	200-250HB	3.2 x 450	120A
				4.0 x 450	150A
				5.0 x 450	200A
		Work hardened	400-500HB		
					<div>= + -</div> <div>~65 V</div>



SELECTARC D22-09

Classification			Weld metal composition (%)										Mechanical Properties			
AWS A5.9	ISO 14343-A		C	Si	Mn	Cr	Mo	Ni	N	P	S	Fe	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
ER2209	W 22 9 3 N L		0.012	0.5	1.7	23.0	3.2	8.8	0.14	<0.02	<0.01	Balance	600	780	26	+20°C→ 150 -50°C→ 100

DESCRIPTION: Low carbon filler metal used for Duplex welding steels (austenitic-ferritic) such as Uranus 45N, 2205, 2304. Resistant to severe corrosive environments (inter crystalline attack, pitting corrosion, crevice, stress corrosion).

APPLICATION: Pumps, vessels, pumping systems attacked by chloride containing solutions (sea water).

SELECTARC 20/25CU

Classification			Weld metal composition (%)										Mechanical Properties			
AWS A5.9	ISO 14343-A		C	Si	Mn	Cr	Mo	Cu	Ni	P	S	Fe	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
ER385	W 20 25 5 CuL G	20 25 5 CuL	0.01	0.4	1.8	20.0	4.5	1.5	25.0	<0.02	<0.01	Balance	350	550	36	+20°C→ 120 -196°C→ 80

DESCRIPTION: Filler metal used for welding fully austenitic steels type 904L, such as Uranus B6. Very good resistance to corrosion by sulfuric, hydrochloric or phosphoric acids.

APPLICATION: Chemical and petrochemical industry, agriculture.

SELECTARC 20/10C

Classification			Weld metal composition (%)										Mechanical Properties			
AWS A5.9	ISO 14343-A		C	Si	Mn	Cr	Ni	P	S	Fe	FN	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)	
ER308H	W 19 9 H	G 19 9 H	0.01	0.4	1.8	20.0	4.5	<0.02	<0.01	Balance	6	380	580	35	+20°C→ 100	

DESCRIPTION: Filler metal used for welding 304H stainless steels with higher carbon content (0.04% to 0.08%).

APPLICATION: Parts to have creep resistance and resistance to temperature oxidation (400°C-750°C): piping systems, pressure vessels.

SELECTARC D25/09

Classification			Weld metal composition (%)										Mechanical Properties			
AWS A5.9	ISO 14343-A		C	Si	Mn	Cr	Mo	Ni	N	P	S	Fe	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
ER2594	W 25 9 4 N L	G 25 9 4 N L	0.012	0.5	0.6	25.5	4.0	9.2	0.25	<0.03	<0.015	Balance	630	820	25	+20°C→ 130 -40°C→ 90

DESCRIPTION: Low carbon filler metal used for Super Duplex welding steels (austenitic-ferritic) such as Uranus 52N, 52N+, 70N. Resistant to severe corrosive environments (inter crystalline attack, pitting corrosion, crevice, stress corrosion).

APPLICATION: Pumps, vessels, pumping systems attacked by chloride containing solutions (sea water).



SELECTARC 21/10Ma

Classification		Weld metal composition (%)										Mechanical Properties			
AWS A5.9	ISO 14343-A	C	Si	Mn	Cr	Ni	N	P	S	Fe		Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
--	W Z 21 10 N H	0.08	1.5	0.5	21.0	10.0	0.15	<0.02	<0.01	Balance		450	650	38	+20°C → 120

DESCRIPTION: Filler metal used for welding steels of similar compositions 253MA kind. Temperature resistance up to over 1000°C, high creep resistance.

APPLICATION: Oven, petrochemical, refinery.

SELECTARC NI82

Classification		Weld metal composition (%)										Mechanical Properties			
AWS A5.14	ISO 18274	C	Si	Mn	Cr	Nb	Ti	Fe	P	S	Ni	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
ERNiCr-3	S-Ni 6082 (NiCr20Mn3Nb)	0.03	0.2	3.2	20.5	2.3	0.3	2.0	<0.01	<0.01	Balance	430	670	42	+20°C → 200 -196°C → 100

DESCRIPTION: Filler metal used for welding high Nickel content alloys such as Inconel 600, 800 Incolloy. Used for dissimilar joining: low alloy steel with stainless steel or Nickel base.

APPLICATION: Cryogenics (5% base and 9% Nickel), equipment subject to acid at very high temperatures, repair of difficult to weld steels, buffer layer.

SELECTARC NI625

Classification			Weld metal composition (%)										Mechanical Properties			
AWS A5.14	ISO 18274	AMS	C	Si	Mn	Cr	Mo	Fe	Nb	P	S	Ni	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
ERNiCrMo-3	S-Ni 6625 (NiCr22Mo9Nb)	5837	0.01	0.15	0.1	22.0	8.7	0.3	3.6	<0.01	<0.01	Balance	520	790	40	+20°C → 160 -196°C → 10

DESCRIPTION: Filler metal used for welding high Nickel content alloys like Inconel 625, stainless steel super alloyed or heterogeneous welding low alloy steel and stainless steel or Nickel base. Good resistance to various types of corrosion.

APPLICATION: Cryogenics (9% Ni steels), device under oxidizing or corrosive attacks, aeronautics.



SELECTARC NI276

Classification			Weld metal composition (%)								Mechanical Properties			
AWS A5.14	ISO 18274		C	Si	Mn	Cr	Mo	Fe	W	Ni	Rp0.2(MPa)	Rm(MPa)	A5(%)	KV (J)
ERNiCrMo-4	S-Ni 6276 (NiMo16Cr15Fe6W4)		0.01	0.05	0.4	16.0	16.0	6.0	3.5	Balance	480	780	35	+20°C → 100

DESCRIPTION: Filler metal used for welding high Nickel content alloys, such as Alloy C 276, NiMo16Cr15W, Hastelloy 276. Excellent resistance to oxides, chlorides, acids and saline environment.

APPLICATION: Piping systems or main part equipment used in the chemical industry or cleaning pollution units (gas desulfurization).

SELECTARC AZ92A

Classification			Weld metal composition (%)								Mechanical Properties		
AWS A5.19	AFNOR	AMS	Al	Si	Mn	Cu	Fe	Zn	Be	Mg	Rp0.2(MPa)	Rm(MPa)	A5(%)
ERAZ92A	Mg Al9	4395	9.0	0.01	0.3	0.001	0.002	1.8	0.0005	Balance	--		

DESCRIPTION: Filler metal used for the welding of most magnesium alloys.

APPLICATION: Welding of AM100A, aerospace.

SELECTARC T40

Classification			Weld metal composition (%)							Mechanical Properties		
AWS A5.19	ISO 24034	AMS	C	N	H	O	Fe	Ti		Rp0.2(MPa)	Rm(MPa)	A5(%)
ERTi-2	Ti 0120 (Ti 99,6)	4951	<0.03	<0.015	<0.008	0.08-0.16	<0.12	Balance		290	390 -540	20

DESCRIPTION: Filler metal used for the welding of pure Titanium Grade 2 type.

APPLICATION: Aeronautics, navy, chemical industry.



PHOSBRAZ M73

COPPER PHOSPHOROUS BRAZING ALLOY

Size	Standard Package	Standard Length
3.2mm X 1.2mm	5kg	500mm

Characteristics

PHOSBRAZ M73 Alloy with a higher fluidity, specially made for strong brazing of fitting, pipes and Fit up, with average joint gaps. It's Phosphorus alloy with self-fluxing properties. The corrosion resistance this alloy is comparable to that of copper excepts when the joint is exposed to sulphur containing gas or at elevated temperatures as in a cooking range. Under these conditions, it is expected that, this alloy will undergo progressive deterioration as other copper phosphorus alloy with Silver or without silver.

Applications

PHOSBRAZ M73 joining copper to copper it is act a self-fluxing alloy and does not required additional flux It can be used on cuprous alloys (bronze, brass) with Phosbraz flux, electrical industry and Plumbing trade This brazing alloy is not recommended to be used for the media having sulphur. Also it is not allowed to use for joining steels (Fe) or materials containing Iron (Fe), Nickel (Ni), Cobalt (Co) as it will form brittle phase in the joint. In Air conditioning and refrigeration application, PHOSBRAZ M73 can be used for the service temperature between +150oC (without loss in strength) upto -20oC. This alloy can be used for flame... Maximum short service joint operation

PHOSBRAZ AG20

CuP-Ag 2% Manual brazing

Size	Standard Package	Standard Length
1.5mm	5kg	500mm
2.0mm	5kg	500mm
2.5mm	5kg	500mm

Characteristics

PHOSBRAZ AG20 is CuP alloy with Silver, which lowers the liquidus point, refines the alloy, improves electrical conductivity and increasing ductility. Also increase its resistance to vibration and cyclic pressure. Polyvalent alloy suitable for copper brazing, without need of using a flux, Good fluidity when brazing sleeves/ tubes and copper connections, machine junctions, and so forth, which produce strong leak proof joints. This alloy has good gap filling properties and is well suited to bridge wide gaps. Its low melting temperature gives very good resistance.

This brazing alloy is not recommended to be used for the media having sulphur. Also it is not allowed to use for joining steels (Fe) or materials containing Iron (Fe), Nickel (Ni), Cobalt (Co) as it will form brittle phase in the joint. The corrosion resistance of this alloy is comparable to that of copper excepts, when the joint is exposed to sulphur containing gas or at elevated temperatures. Under these conditions, it is expected that, this alloy will undergo progressive deterioration as other copper phosphorus alloy with Silver

Applications

PHOSBRAZ AG20 It is mainly used in Plumbing, Electrical components, Refrigeration and Heating/Ventilation. An economical alloy used in joining copper to copper. It can also use to join copper to low zinc brasses with Phosbraz flux. In Air conditioning and refrigeration application, PHOSBRAZ AG20 can be used for the service temperature between +150oC (without loss in strength) to -20oC. This alloy can be used with flame.



PHOSBRAZ AG150

CuP-Ag 15% Manual brazing

Size	Standard Package	Standard Length
1.5mm	5kg	500mm
2.0mm	5kg	500mm
2.5mm	1kg	500mm

Characteristics

PHOSBRAZ AG50 is CuP alloy with Silver and lowers the liquids point, refines the alloy, improving electrical conductivity and increasing ductility due to high % of Ag. Also increase its resistance to vibration and cyclic pressure Polyvalent alloy suitable for copper brazing, without need of using a flux, Good fluidity when brazing sleeves/tubes and copper connections, machine junctions, and so forth, which produce strong leak proof joints. This alloy has good gap filling properties and is well suited to bridge wide gaps. Its low melting temperature gives very good resistance.

This brazing alloy is not allowed to use for joining steels (Fe) or materials containing Iron (Fe), Nickel (Ni), Cobalt (Co) as it will form brittle phase in the joint. The corrosion resistance of this alloy is comparable to that of copper excepts, when the joint is exposed to sulphur containing gas or at elevated temperatures. Under these conditions, it is expected that, this alloy will undergo progressive deterioration as other copper phosphorus alloy with Silver or without Silver.

Applications

PHOSBRAZ AG50 is mainly used in Plumbing, Electrical components, Refridgeration and Heating/Ventilation. An economical alloy used in joining copper to copper. It can also use to join copper to low zinc brasses with Phosbraz flux. In the electric and electromechanic Industry in Air conditioning and refridgeration application, PHOSBRAZ AG150 can be used for the service temperature between +150°C (without loss in strength) to-70°C. This alloy can be used with flame.

PHOSBRAZ AG50

CuP-Ag 5% Manual brazing

Size	Standard Package	Standard Length
1.5mm	1kg	500mm
2.0mm	1kg	500mm
2.5mm	1kg	500mm

Characteristics

PHOSBRAZ AG50 is CuP alloy with Silver and lowers the liquids point, the greater the ductility of the brazed joint. This addition also refines the alloy, increasing the brazed joints mechanical characteristics and improving electrical conductivity. This is special alloy for high strength capillary brazing.

This brazing alloy is not recommended to be used for the media having sulphur. Also it is noy allowed to use for joining steels (Fe) or materials containing Iron (Fe), Nickel (Ni), Cobalt (Co) as it is expected that, this alloy will undergo progressive deterioration as other copper phosphorus alloy with Silver or without Silver.

Applications

PHOSBRAZ AG50 is recommended for hard brazing of copper and optionally copper brass pipes of combustible installations. As well as all low temperature applications. In Air conditioning and refrigeration application, PHOSBRAZ AG 50 can be used for the service temperature between +150oc (without loss in strength) to-50oC. This alloy can be used with flame.



BRAZARGENT 5034

BARE RODS

Cadmium Free Silver (34%) Brazing Alloy

Size	Standard Package	Standard Length
1.5mm	5kg	500mm
2.0mm	5kg	500mm
2.5mm	1kg	500mm



Characteristics

BRAZARGENT 5034 is a very widely used Cd free alloy which main elements are: Copper, Zinc, Silver (34%) and Ti. Silver and Tin contents lowers the melting point, increases fluidity and exhibits good wetting properties.

BRAZARGENT 5056

BARE RODS / COATED RODS / TBW

Cadmium Free Silver (56%) Brazing Alloy

Size	Standard Package	Standard Length
1.5mm	5kg	500mm
2.0mm	5kg	500mm
2.5mm	1kg	500mm



Characteristics

BRAZARGENT 5056 is a widely used Cd free alloy which main elements are: Copper, Zinc, high Silver (56%) and Tin content (5%). Silver and Tin contents lowers the melting point, increases fluidity and exhibits good wetting properties. Its excellent fluidity makes it suitable in closely fitting joints as able to penetrate very tight gaps

BRAZARGENT 5045

BARE RODS / COATED RODS

Cadmium Free Silver (45%) Brazing Alloy

Size	Standard Package	Standard Length
1.5mm	5kg	500mm
2.0mm	5kg	500mm
2.5mm	1kg	500mm



Characteristics

BRAZARGENT 5045 is a widely used Cd free alloy which main elements are: Copper, Zinc, Silver (34%) and Tin. Silver and Tin. Silver and Tin contents lowers the melting point, increases fluidity and exhibits good wetting properties.



ZINAL 4 TBW

Seamless Flux Cored Soldering Wire
Joining Cu-Ai

ZINAL 4 TBW



Scan here

Size	Standard Package	Standard Length
1.6mm	1kg	500mm
2.0mm	1kg	500mm

Applications

ZINAL A TBW is used for joining aluminium alloys of 100, 3000, 6000 series. It can also be used for joining Aluminium to Copper, Aluminium to brass, and Aluminium to stainless steel joints. For dissimilar metal application the long term galvanic corrosion potential should be considered. Also its main usages are in the field of heat-exchangers, air-conditioners and condensers and automotive refrigeration systems.

Characteristics

ZINAL A TBW Seamless tubular soldering wire of alloy of Zn-Al (98:2) with non-corrosive flux at the core of the wire. No External flux required. This wire is adaptable for joining of grades of aluminium without magnesium Alloy. Being low melting alloy it reduce the possibility of overheating of the parts. Flux being non-corrosive nature, no need of post brazing cleaning. Give very strong joints. No separate flux to apply. No need flux handling systems or corrosive flux to apply. Product does not fume.



SELECTARC FCW D29/09-APFCW 2209P

AWS A5-22 : E2209T1-1/4

Size	Standard Package	Standard Length
1.2mm	15kg	1080kg

SELECTARC 253 MA-AP

Size	Standard Package	Standard Length
1.2mm	15kg	1080kg

In Stock Welding Alloys

MIG & TIG

Nickel Alloys

Alloy C-276	(ERNiCrMo-4)
Alloy 59	(ERNiCrMo-13)
Alloy 60	(ERNiCu-7)
Alloy 61	(ERNi-1)
Alloy 67	(ERCuNi)
Alloy 82	(ERNiCr-3)
Alloy 617	(ERNiCrCoMo-1)
Alloy 622	(ERNiCrMo-10)
Alloy 625	(ERNiCrMo-3)
Alloy 718	(ERNiFeCr-2)
Alloy 825	(ERNiFeCr-1)

Stainless Steel

ER308H	ER316LSi
ER308L	ER317L
ER308LSi	ER320LR
ER309	ER330
ER309L	ER347
ER309LSi	ER385 (904L)
ER309LMO	ER410
ER310	ER410NiMo
ER312	ER420
ER316H	ER630 (17-4PH)
ER316L	ER16-8-2

Duplex & Super Duplex

ER2209	ER2594
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Chrome Moly

ER80S-B2	ER90S-B3
ER80S-B6	ER90S-B9
ER80S-B8	

Mild Steel

❖ ER70S-2	❖ ER80S-D2
❖ ER70S-3	❖ ER80S-Ni1
❖ ER70S-6	❖ ER80S-Ni2

Aluminum

ER4043	ER5356
ER5183	

Titanium & Zirconium

ERTi-1	ERTi-7
ERTi-2	ERZr-2
ERTi-5	

Bronze Alloys

Alum Bronze A-2	(ERCuAl-A2)
Deox Copper	(ERCu)
Low Fuming Bronze	(RBCuZn-C)
Silicon Bronze	(ERCuSi-A)

COATED ELECTRODES

Nickel Alloys

Alloy A	(ENiCrFe-2)
Alloy C-276	(ENiCrMo-4)
Alloy 55	(ENiFe-Cl)
Alloy 59	(ENiCrMo-13)
Alloy 99	(ENi-Cl)
Alloy 112	(ENiCrMo-3)
Alloy 117	(ENiCrCoMo-1)
Alloy 122	(ENiCrMo-10)
Alloy 141	(ENi-1)
Alloy 182	(ENiCrFe-3)
Alloy 187	(ECuNi)
Alloy 190	(ENiCu-7)

Stainless Steel

E308H-16	E317L-16
E308L-16	E320LR-16
E309H-16	E330-16
E309L-16	E347-16
E309LMO-16	E385-16 (904L)
E310-16	E410-16
E312-16	E410NiMo-16
E316H-16	E630-16 (17-4PH)
E316L-16	

Duplex & Super Duplex

E2209-16	E2594-16
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Chrome Moly

E8018-B2	E9015-B9
E8018-B6	E9018-B3
E8018-B8	

Mild Steel

❖ E7018	❖ E7018-A1
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FLUX CORED

Nickel Alloys

82T-1	(ENiCr3Ti-1/4)
625T-1	(ENiCrMo3Ti-1/4)

Stainless Steel

E308HT1-1/4	E316LT0-1/4
E308LT0-1/4	E316LT1-1/4
E308LT1-1/4	E317LT0-1/4
E309LT0-1/4	E317LT1-1/4
E309LT1-1/4	❖ E347T0-1/4
	❖ E347T1-1/4

Duplex & Super Duplex

E2209T1-1/4	E2594T1-1/4
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Chrome Moly

❖ E81T1-B2	❖ E91T1-B3
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Mild Steel

❖ E71T1-1M

SAW & FLUX

Nickel Alloys

Alloy 60	(ERNiCu-7)
Alloy 82	(ERNiCr-3)
Alloy 625	(ERNiCr-Mo-3)

Stainless Steel

ER308H	ER316L
ER308L	ER317L
ER309L	ER347
ER309LMO	

Duplex & Super Duplex

ER2209	ER2594
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Chrome Moly

❖ EB2	❖ EB6
❖ EB3	❖ EB8

Flux

NI Flux	OXF300 Flux
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❖ Stock in USA only

Packaging & Dimensions										
Product Form	USA Packaging Specifications				Asia Pacific Packaging Specifications					
Coated Electrodes	Hermetically Sealed Tube • AWS Marking									
	Dia Inch	Length Inch	Tube QTY Lbs	Carton QTY Lbs	Dia mm	Length mm	Tube QTY Kgs	Carton QTY Kgs		
	3/32	12	10	30	2.6	300	4	12		
	1/8	14	10	30	3.2	350	5	15		
	5/32	14	10	30	4.0	350	5	15		
	3/16	14	10	30	5.0	350	5	15		
TIG Wire	Plastic Tube • Imprinted with AWS, Diameter, Heat Number									
	Dia Inch	Length Inch	Tube QTY Lbs	Carton QTY Lbs	Dia mm	Length mm	Tube QTY Kgs	Carton QTY Kgs		
	1/16	36	10	40	1.6	914	5	20		
	5/64	36	10	40	2.0	914	5	20		
	3/32	36	10	40	2.4	914	5	20		
	1/8	36	10	40	3.2	914	5	20		
	5/32	36	10	40	4.0	914	5	20		
MIG & FCW Wire	Precision Layer Wound • Precise Cast & Helix									
	Spool DIM	\$100 inch	\$200 inch	\$300 inch	\$350 inch	Spool DIM	\$100 mm	\$200 mm	\$300 mm	\$350 mm
	Flange O.D.	4	8	12	14	Flange O.D.	102	203	305	355
	Hub I.D.	0.63	2.03	2.03	2.03	Hub I.D.	16.5	50.5	50.5	50.5
	Outer Width	1.75	2.16	4.0	4.0	Outer Width	45	55	103	103
	STD QTY	1 lbs	10 lbs	33 lbs	55 lbs	STD QTY	1Kgs	5 Kgs	15 Kgs	25 Kgs
SAW Wire & Flux	Superior Feedability									
	Coil DIM inch		Flux		Coil DIM mm		Flux			
	Flange O.D.		16		Flange O.D.		400			
	Hub I.D.		12		Hub I.D.		300			
	Outer Width		4		Outer Width		100			
	STD QTY		55 lbs		STD QTY		25 kgs			

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966334-H

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