

PRODUCT  
**CATALOGUE**

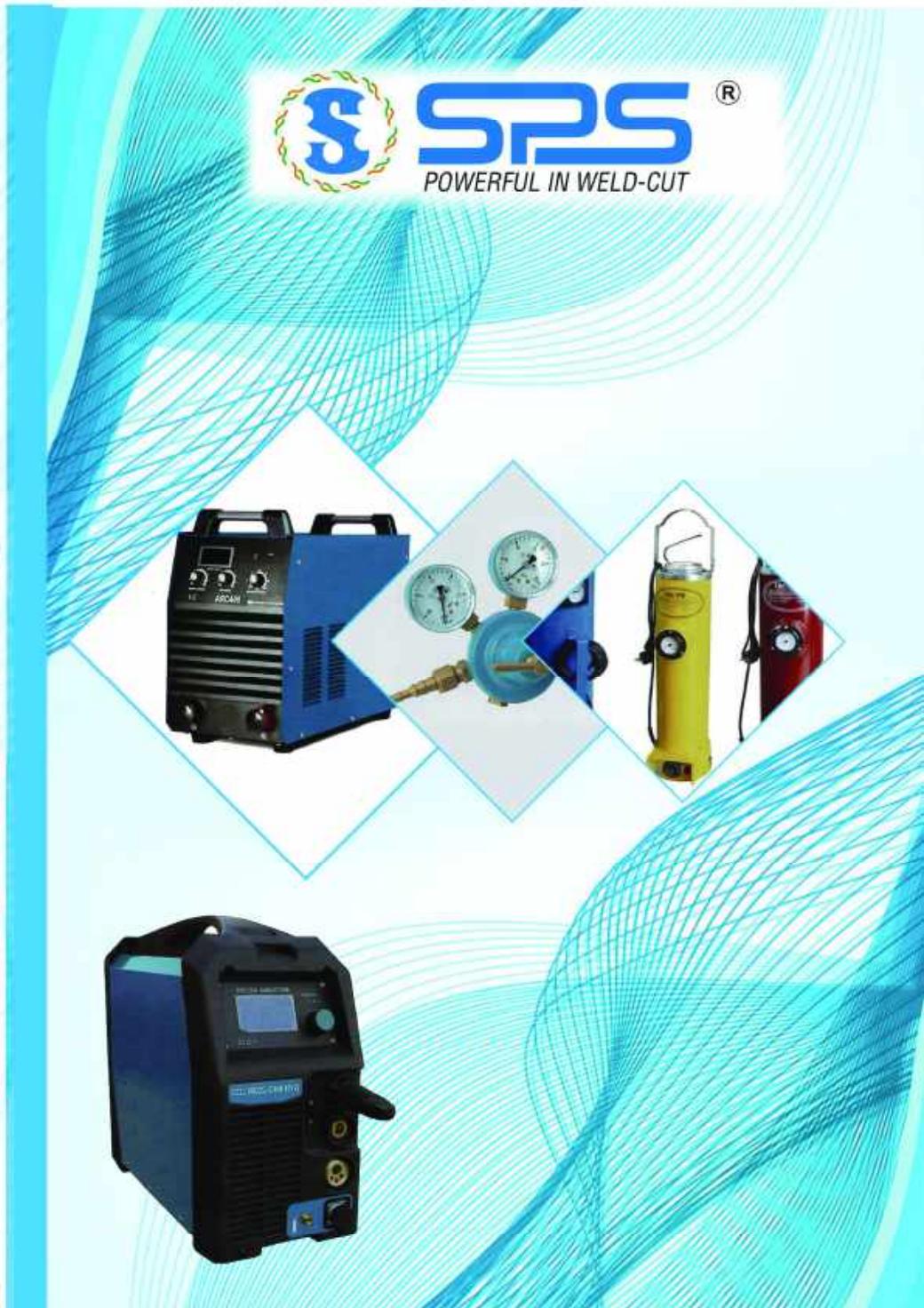
Complete Solutions For  
Welding & Cutting  
2016-2017



**SILICON POWER SOURCES**

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**SPS**



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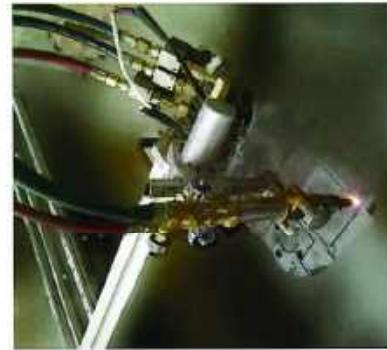
**GTS**

POWERFUL IN WELD-CUT



## PNC-1000, PNC-1250, PNC-1500

### Portable CNC Cutting Machine, Flame&Plasma



- The machine is an upgraded substitute for manual-cutting/semi-automatic cutting /profiling cutting machines.
- The Portable NC cutting machines(PNC series) can cut any shapes using flame and plasma cutting processes. These machines are economical, compact, lightweight and high precision, making them very portable and easy for an operator to carry the machine from job to job, for both indoor and outdoor cutting.
- Controller System: F21.00B
- Software: Fastcam Professional Version
- Torch Height Controller: SF-HC25G , only for plasma cutting

Model	PNC-1000	PNC-1250	PNC-1500
Input power voltage	Standard:220V±15% 50HZ; 110V 60HZ is optional		
Rated Power Supply		200W	
Modes of cutting	Flame/Plasma		
Beam Width(mm)	1500mm	1750mm	2000mm
Effective cutting width (X axis)	≤1000mm	≤1250mm	≤1500mm
Track Length(mm)	500mm longer than the effective cutting length(Y axis)		
Cutting thickness(Flame cutting)	6-150mm(select the suitable cutting nozzle)		
Cutting Thickness(Plasma cutting)	0.1-25mm(according to the plasma power source)		
Cutting Speed(Flame)	0.4000mm/min		
Cutting speed(Plasma)	according to the plasma power source		
Gas for flame cutting	Oxygen+Acetylene or Oxygen+Propane		
Plasma air	Compressed Air		
Fuel gas pressure	≤0.1Mpa		
Oxygen pressure	≤0.7Mpa		
Cutting Precision	0.2mm		
Control accuracy	±0.001 MM		

Remark:

- The plasma cutting thickness will be depended by the plasma power source/generator and the plasma torch,which are optional
- Standard configuration is with acetylene cutting nozzle if no special requirement.

## ■ GNC-2500 Light Gantry CNC Cutting Machine, Flame&Plasma



Model	GNC-2500
Input power voltage	Standard:220V±15% 50HZ ; 110V 60HZ is optional
Modes of cutting	Flame/Plasma
Beam Width(mm)	3000mm
Effective cutting width (X axis)	≤2500mm
Track Length(mm)	1500 mm longer than the effective cutting length(y axis)
Cutting thickness(Flame)	6-200mm(select the suitable cutting nozzle)
Cutting Thickness(Plasma)	0.1-25mm(according to the plasma power)
Cutting Speed(Flame)	50~700mm/min
Cutting speed(Plasma)	according to the plasma power source
Gas for flame cutting	Oxygen+Acetylene or Oxygen+Propane
Plasma air	Compressed Air
Fuel gas pressure	≤ 0.1Mpa
Oxygen pressure	≤ 0.7Mpa
Cutting Precision	0.2mm
Control accuracy	0.001 MM

## ■ GNC-3200, GNC-4200, GNC-5200, GNC-6200 Gantry CNC Cutting Machine



Model	GNC-3200	GNC-4200	GNC-5200	GNC-6200
Input power	380V±15% 50/60HZ			
Modes of cutting	Flame/Plasma			
Beam Width(mm)	4000mm	5000mm	6000mm	7000mm
Effective cutting width	3200mm	4200mm	5200mm	6200mm
Track length	2mx6			
Effective cutting length	10m(can be customized)			
Cutting speed(Flame)	80~1000mm/min			
Cutting Thickness (Flame)	6~150mm(select the cutting nozzle size)			
Cutting speed(Plasma)	According to the plasma power source			
Cutting Thickness (Plasma)	Oxygen + acetylene or Oxygen+propane			
cutting (Flame mode)	Compressed Air			
Plasma Air	Ra12.5			
Cutting precision	FastCAM standard version			
Cutting software				

## DNC-1325, DNC-1530

### Desktop CNC plasma cutting machine

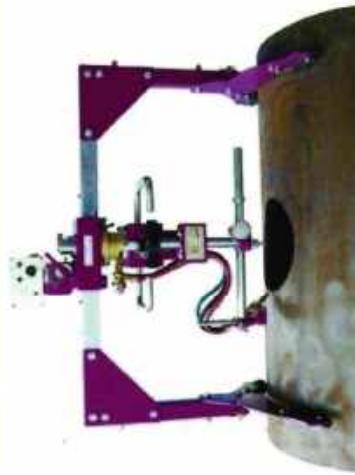


- Super-strong anti-interference ability of plasma
- Kerf can be automatically compensated
- Cutting can continue when power fails
- Continuous return can be done
- Positioning and cutting can be done randomly
- Off-line cutting can be done
- Long-distance remote control can control the machine to move forward, backward, left, right and cutting start, stop and so on (optional configuration).
- English, Russia, French, Portuguese, Spanish, Chinese Language switchable for the CNC system operation.

Model	DNC-1325	DNC-1530
Input power voltage	220V\380V±10%	
Mode of cutting	Plasma	
Effective cutting width	1300mm	1500mm
Effective cutting length	2500mm	3000mm
Effective cutting length	500mm less than the track length.	
Cutting Thickness	As per to the Plasma Power source& Plasma Torch	0.5-5MM
Cutting Speed (Plasma)	0.8000mm/min	
Drive Mode	bilateral drive	
Cutting precision	±0.5mm National standard JB/T10045.3-99	
Control accuracy	±0.01mm	
Working Temperature	-5~60 °C Relative Humidity, 0-95%	



## HK-600D, HK-1000D Auto Pipe Hole Gas Cutting Machine



- The cutter is used for high pressure container as well as heat-exchanger to be T shape jointed and also for plan hole operation and running stable.
- The height of the cutting torch is easy to set, the self-lock system for torch up/down is designed by triangle principle to insure the machine tracks the curve precisely.
- Use the infinitude rotating gas distributor make the hose no intertwist.
- Torch fixing with clutch, quick locating can be made by manual.

Model	HK-600D	HK-1000D
Input Voltage	220V/50HZ	220V/50HZ
Dia.of circle cutting(mm)	φ80-φ600	φ80-φ1000
Cutting Thickness(mm)	6-50	6-50
Cutting Curve Max.Height(mm)	96	96
Cutting Speed(R/min)	0.14-1.2	0.14-1.2
Motor	68W	68W
Rate of circular cutting diameter : Pipe Diameter	≥1:2	≥1:2
G.W/N.W	102kg/95kg	117kg/100kg

## ■ CG1-30/30B/30P/100/100B Portable Straight Line Gas Cutting Machine



Model	CG1-30	CG1-30B	CG1-30P	CG1-100	CG1-100B
Input power	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ
Modes of cutting	Gas cutting	Gas cutting	Plasma cutting	Gas cutting	Gas cutting
Track type	convex type	convex type	convex type	convex type	convex type
Cutting thickness	6-100mm	6-100mm	source	6-100mm	6-100mm
Cutting speed(mm/min)	50-750	50-750	50-4500	50-750	50-750
Diameter of circular cutting	Φ200-Φ2000mm	Φ200-Φ2000mm	Φ200-Φ2000mm	Φ200-Φ2000mm	Φ200-Φ2000mm



CG1-30 working site

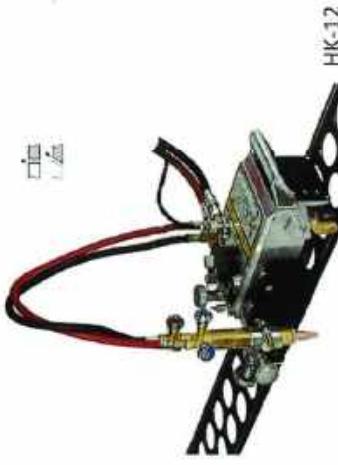
CG1-30P working site

CG1-30 working site

CG1-30P working site

## ■ HK-30, HK-12 Portable Bottle Straight Line Gas Cutting Machine

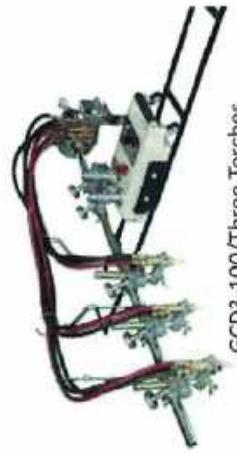
- The main body is made of aluminum alloy, produced precisely by die-casting.
- The speed is adjusted by controlled silicon unit.
- High quality oxygen and acetylene hoses.
- Mainly for straight line cutting and for circular cutting. Groove I, Y, V shape also.



Model	HK-30	HK-12
Input power	AC220/50HZ	AC220/50HZ
Cutting thickness	6-30mm	5-100mm
Cutting speed	50-750mm	50-800mm
Diameter of circular cutting	Φ50-Φ550mm	Φ290-Φ540mm
Weight	10kg	9.5kg

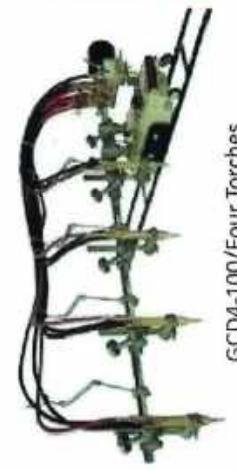
## ■ GCD3-100/GCD4-100 Portable Straight Line Gas Cutting Machine

- The speed is adjusted by controlled silicon unit.
- High quality oxygen and acetylene hoses.
- Mainly for straight line cutting and for circular cutting. Groove I, Y, V shape also.



GCD3-100/Three Torches

Model	GCD3-100	GCD4-100
Input power	AC220/50HZ	AC220/50HZ
Cutting thickness	5-50mm	5-50mm
Cutting speed	50-750mm	50-750mm
Weight	23kg	25kg



GCD4-100/Four Torches



GCD4-100/Four Torches

## ■ CG2-150/150A/150B/150C Profiling Gas Cutting Machine

- The CG2-150B is equipped with 1.8meters track.
- Volume production cutting of identical shape components can be cut by profiling the pattern.
- Adopt SCR technology control speed, moving steadily.
- Main body is made of high-strength diecasting aluminum.
- Oxygen and Acetylene hoses are made of high quality rubber.
- The machine is a low cost system for volume.



CG2-150



CG2-150A



CG2-150B



CG2-150C

Model	CG2-150A	CG2-150C	CG2-150B	CG2-150C
Input power	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ
Mode of cutting	Gas cutting	Gas cutting	Gas cutting	Gas cutting
Cutting thickness	5-100mm	5-100mm	5-100mm	5-100mm
Cutting speed(mm/min)	50-750	50-750	50-750	50-750
Length of straight-line cutting(mm)	1200mm	1650	2015	1200
Diameter of circular cutting	Φ20-Φ600mm	Φ30-Φ2200mm	Φ20-Φ600mm	Φ30-Φ2200mm
Max size of cutting square	500x500mm	1270x1270mm	1550x1550mm	500x500mm

**HK-54D, HK-54D-II**
**Profiling Gas Cutting Machine**

- This machine is the most advanced magnetic tracing type gas cutter and ensures operation ease.
- It features light and is made of stainless steel, which greatly reduces the weight.
- It is designed for cutting a heavy workpieces, and the rail length can be adjusted according to the workpiece.



HK-54D

Model	HK-54D	HK-54D-II
Input Power	AC 220V/50	AC 220V/50
Cutting Thickness(mm)	3-100	3-100
Cutting Speed(mm)	100-1000	100-1000
Diameter of circular cutting	φ30-φ400mm	φ30-φ400mm
Max size of cutting square	30-600mm	30-300mm
Dia.of standard magnetic wheel	10mm	10mm
Weight(kg)	45	85

**CG2-200/600/600II/1000**
**Circular Cutting Machine**


CG2-200

Model	CG2-200	CG2-500	CG2-1000	CG2-600II
Input power	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ	220V±10% 50HZ
Modes of cutting	Gas cutting	Gas cutting	Gas cutting	Gas cutting
Cutting thickness	6-50mm	6-50mm	6-50mm	6-50mm
Cutting speed(mm/min)	50-750	50-750	50-750	50-750
Diameter of circular cutting	φ40-φ200mm	φ30-φ600mm	φ30-φ1000mm	outside φ20-φ600mm, inside φ 100-φ 500mm

- Application of cutting shapes of circular, circular hole, flange,etc.
- Adopt SCR technology control speed, moving steadily.
- Oxygen and Acetylene hoses are made of high quality rubber.
- Quick connectors for connecting the hoses.
- Widely applied to oil production, chemical industry, shipbuilding and metal structure process.
- Remarks: The CG2-600II is with two torches.



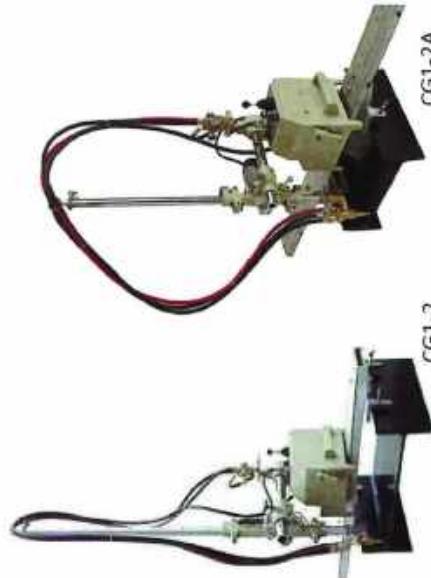
CG2-200 working site



CG2-600 working site

## ■ CG1-2, CG1-2A H-Beam Cutting Machine

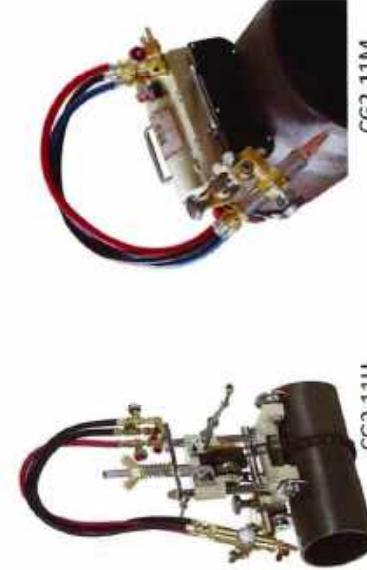
- Driven by DC servomotor.
- Specially used for cutting H-beam and Channel steel.
- The preheating gas can be adjusted and kept for continuous working.



Model	CG1-2	CG1-2A
Input Power	AC220V	AC220V
Cutting speed(mm/min)	50-750	50-750
Cutting Thickness(mm)	6-60	6-60
Width of the H-beam(mm)	150-800	150-1600
Height of the H-beam(mm)	150-400	150-800
Weight	30kg	37.5kg

## ■ CG2-11H/11M/11E Pipe Gas Cutting & Beveling Machine

- Can cut the pipe and bevel I,V shapes(45°).
- The length of the chain can be extended according to the diameter of the pipe.
- CG2-11H is a Handy controlled cutting speed by rotating chains.
- CG2-11M is a Magnetic clamping cutting machine.
- CG2-11E is a Electric controlled cutting machine.



Model	CG2-11H	CG2-11M	CG2-11E
Input Power	don't need electricity	AC220V	AC220V
Diameter of the pipe(O.D)	>Φ100mm	>Φ108mm	Φ50-Φ600mm
Wall thickness(mm)	5-50mm	5-50mm	5-50mm
Cutting speed(mm/min)	Manual controlled	50-750	50-1150
Chains	82burls/2.4meters	no chains	82burls/2.4meters
Weight	11kg	23.5kgs	13.5kgs

## ■ HK-55, HK-55D Handy Auto Cutting Machine



- Driven by DC servomotor.
- V Shape groove and curve can be processed by substituting parts.
- The HK-55D is with Auto-ignition system.



Model	HK-55 / HK-55D
Input Power	AC220V
Cutting speed(mm/min)	50-800
Dimension	500X200X150mm
Weight	15 kg/s

## ■ CG1-13 Multi-Direction Gas Cutting Machine



- The speed is adjusted by controlled silicon unit.
- It is easy to load or unload from the workpiece.
- Easy for operation to do vertical / horizontal cutting.

Model	CG1-13
Input Power	AC220V
Cutting speed(mm/min)	50-750
Cutting Thickness(mm)	6-30
Dimension	230X220X230mm
Weight	15kg



## ■ HK-72T Three-Dimensional Cutting Machine



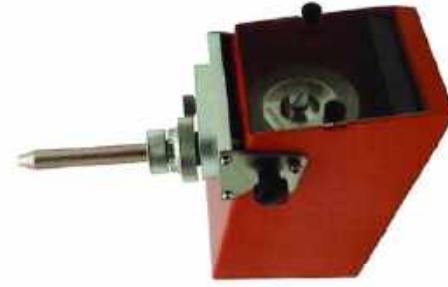
- Attached with angle gauge which can make torch turned precisely to bevel.
- Attached with clutch unit, loosing the handle of clutch, the machine can move along the rail steadily.
- Rail is made of hard rubber, which can be used for two/three dimension curve cutting.
- Specially used for cutting different shapes of steel such as profiled bar, boiler, shipbuilding and curve plate, etc .



## ■ Welding Water Cooler

Model	BT-10	BT-20
Input voltage	AC 220V	AC 220V
Rated Power	115W	140W
Rated water flow	3L/min	3L/min
Rated water capacity	10L	20L
Rated lift	30meter	30meter
Dimension(mm)	565x325x385	399x540x470
Weight	20kg	25kg

## ■ Tungsten Electrode Grinder



Model	TG-60
Voltage	AC220V
Frequency	50-60HZ
Power	60W
Disc Type	Sanding Disc
Disc Diameter	90mm
Disc rotating speed	5000r/min
Minimum grinding length	60mm
diameter	1.6-5.0mm
Tungsten Collet	Standard is 2.4mm. Other sizes are optional.
Grinding angle range	0"-60"
Dimension	230x170x200mm (W x L x H)
Weight	4KG

## ■ TIG Welding Wire Feeder



Model	ET-2106
Input Voltage	DC 220V, 50/60 Hz
Wire Spool Capacity	D300mm (1KG, 5KG, 10KG)
Applicable Wire Size(mm)	0.8 / 1.0 / 1.2 / 1.6
Feed Speed	0-800cm/min
Feed Delay time	0-10s
Withdraw Time	0-10s
Arc Delay Time	0-10s
Pulse Feed Time	0-10s
Pause Time	0-5s
2T / 4T	yes
Weight	17KG
Dimension(CM)	42x21x57

## ■ Electrode Oven

### American Type



PE-1

PE-1W

PE-1W/T

PE-1C

PE-2W/S

PF-2C

Model	PE-1	PE-1W	PE-1W/T	PE-2	PE-2T	PE-2W/S	PE-1C	PF-2C
Input voltage	AC240V AC/DC 60V-110V			AC240V AC/DC 60V-110V		AC 230V AC/DC 60-110V		
Rated power	270W/120W			360W/180W		260W/120W 360W/180W		
Max. temperature(°C)	150°C			150°C		150°C		
Electrode capacity(kg)	5kg			10kg		5kg		10kg
Electrode length(mm)	500mm			500mm		450mm		
Inner size of Cavity(mm)	Φ73*502			Φ98*502		Φ86*465H		Φ108*465H
Weight (kg)	3.8kg	3.9kg	4.0kg	5.3kg	5.4kg	5.4kg	3.8kg	4.8kg
Remark			Thermometer		Digital Display	Table		

Model	PE-5	PE-5T	PE-5A	PE-5A/T	PE-5A/S	PE-15B	PE-15A/T	PE-15B/S
Input voltage			AC240V AC/DC60V-110V				AC240 AC/CD 60V-110V	
Rated power			600W/300W				1000W	
Max. temperature(°C)			150°C				150 °C	
Electrode capacity(kg)			25kg				70kg	
Electrode length(mm)			500mm				500mm	
Weight (kg)	18.5kg	13.2kg		18.5kg		38.4kg	47.6kg	38.4kg
Remark			Thermometer		Digital Display	Table	Thermometer	Digital Display Table

## ■ Electrode Oven

### American Type



Model	TRC-5	TRC-5K/C	TRC-5W/C	TRC-5W/B	TRC-5W/T	TRC-10W/B	TRC-10W/T	TRC-5TC	TRC-10TC
Input voltage	AC230V AC/DC 60V-110V				AC 230V				
Rated power	260W/120W				260W/120W	360W/180W		260W	360W
Max. temperature(°C)	150°C				200°C			300°C	
Electrode capacity(kg)	5kg				5kg	10kg		5kg	
Electrode length(mm)	450mm				450mm			450mm	
Inner size of Cavity(mm)	Φ86*485H				Φ86*465H	Φ108*465H		Φ108*465H	
Weight (kg)	3.8kg	3.85kg	3.92kg	3.9kg	3.8kg	4.3kg	4.2kg	4.1kg	5.0kg
Remark	Anti-fall base								

### Eurasian Type



Model	ED-5	ED-10	ED-18B	ED-24B	ED-24
Input voltage		AC 220V AC/DC 60-110V			
Rated power	500W	600W	900W		1000W
Max. temperature(°C)		150°C			300°C
Electrode capacity(kg)	5kg	10kg	18kg		24kg
Electrode length(mm)			450mm		
Inner Size of cavity	Φ82*480	Φ108*480		Φ145*480	Φ178*480
Equipment(L*W*H) (mm)	Φ145*500	Φ166*500		Φ208*600	Φ274*600
Weight (kg)	4.6kg	5.5kg		7.1kg	14kg

## ■ Electrode Oven

### European Type



Model	SEE-1A	SEE-1A/B	SEE-1	SEE-1/B	SEE-2	SEE-2/B	SEE-4A
Input voltage		AC230V AC/DC60V-110V			AC230V AC/DC 60V-110V		AC230V
Rated power	300W	300W	500W	500W	600W	600W	800W
Max. temperature(°C)	150°C	200°C	150°C	200°C	150°C	200°C	350°C
Electrode capacity(kg)	5kg		5kg	14kg		20kg	20kg
Electrode length(mm)		450mm			450mm		10kg
Inner Size of cavity	φ90*487	φ90*487	φ128*487	φ128*487	143*135*487	114*40*487/2	
Weight (kg)	4.5kg	4.7kg	6.2kg	6.4kg	9.2kg	9.4kg	16.7kg



Model	SFT-1	SFT-1/TR	SFT-2	SFT-4	SFT-10
Input voltage	AC230V/60V-110V		AC230V/110V		AC230V
Rated power	300W		700W		800W
Max. temperature(°C)	150°C			300°C	
Electrode capacity(kg)	7kg		8.6kg	18kg	28kg
Electrode length(mm)			450 mm		
Inner Size of Cavity(mm)	80*80*470		90*40*470/2	140*60*470/2	240*108*470/2
Weight (kg)	5.4kg	6.3kg	14.2kg	19.5kg	30.5kg

## ■ Electrode Oven

### European Type


**EDO-2**
**EDO-5**
**EDO-2**

Model	EDO-2	EDO-2	EDO-5	EDO-5	EDO-12
Input voltage	EDO-2-110	EDO-2-180	EDO-5-300	EDO-12-350	EDO-12-350A
Rated power	80W	120W	450W	900W	3600W
Max. temperature(°C)	110°C	180°C	350°C	350°C	180°C
Electrode capacity(kg)			10kg	25kg	50kg
Electrode length(mm)				450mm	
Inner Size of Cavity(mm)	475*90*95		475*150*156		500*240*240
Weight (kg)	6kg	7kg	7kg	9kg	19kg
Remark	Inner liner with stainless steel material. Heating with stainless steel electric heating tube.				

### Japanese Type



Model	TRB-5KD	TRB-5K	TRB-5F	TRB-5A	TRB-5B	TRB-10E	TRB-5A	TRB-5B	TRB-5KB	TRB-5KB/T	TRB-10KB	TRB-5KB/T
Input voltage			AC 220V/230V	AC/DC 60-110V		600W 80W-240W		500W	500W	600W	600W	500W
Rated power			500W 50W-190W		150°C±15°C					200 °C		
Max. temperature(°C)	5kg	5kg	5kg	5kg	5kg	10kg	10kg	10kg	5kg	5kg	10kg	5kg
Electrode capacity(kg)						450mm						
Electrode length(mm)												
Weight (kg)	3.2kg	2.9kg	2.8kg	2.9kg	4.3kg	4.2kg	2.9kg	2.9kg	3kg	3kg	5.1kg	3.2kg

## ■ Electrode Oven

### Korean Type



Model	YCH-5K	YCH-5K/T	YCH-5B/700	YCH-5B/550	YCH-5B/700	YCH-5B/700	YCH-5B	YCH-5	YCH-5T
Input voltage	AC220V	AC/DC 60V-110V	AC220V AC/DC 110V	AC220V	AC220V	AC220V	AC220V AC/DC 110V		
Rated power(kW)	500W/220V	380W/60V-110V	500W/220V	380W/110V	500W	500W	500W/220V	380W/110V	
Max. temperature(°C)	200 °C		150 °C		200 °C	150 °C	150 °C		200 °C
Electrode capacity(kg)	5kg				5kg				5kg
Electrode length(mm)		700mm	550mm		700mm				450mm
Inner size of Cavity(mm)	Φ86*(425+40)	86*(680+40)			Φ86*718H				Φ86*468H
Weight (kg)	3.8kg	3.9kg	4.35kg	3.9kg	4.1kg	4.25kg	3.4kg	3.6kg	3.75kg

## ■ Electrode Oven

### South American Type



Model	CKPH-5K	CKPH-09K	CKPH-20K
Input voltage	AC220V	AC220V	AC220V
Rated power	200W	250W	650W
Max. temperature(°C)	150°C	150°C	200°C
Electrode capacity(kg)	5kg	9kg	20kg
Electrode length(mm)		450mm	
Inner Size of cavity(mm)	φ85*490	φ120*490	φ80*490
Weight (kg)	4.6kg	6.8kg	12kg

### Australian Type



Model	S-5F
Input voltage	AC220V /240V or 110V/120V
Rated power	450W
Max. temperature(°C)	180°C
Electrode capacity(kg)	5kg
Electrode length(mm)	450mm
Internal dimension(L *W *H) (mm)	φ85*470
Equipment(L *W *H) (mm)	590*180*220
Net Weight (kg)	6.6kg

## ■ Portable Welding Electrode Storage Container



Model	350 Type	450 Type
Electrode Capacity	4.5kg	6.5kg
Electrode Length	350mm	450mm
Dimension	970*570*381mm	970*970*483mm

350 type                          450 type

## ■ Industrial Electrode Dryer Cabinet (Oven)

### ZYH Series

Far-infrared radiation heating, automatic temperature controlling, digital display of temperature and time.



Model	ZYH-10	ZYH-20	ZYH-30	ZYH-40	ZYH-20	ZYH-30	ZYH-40	ZYH-60	ZYH-100
Input voltage	AC220V/50Hz								
Rated power(kW)	1.6kW	2.5kW	3kW	3kW	3kW	3kW	3.6kW	3.6kW	7.2kW
Max. temperature(°C)	500 °C								
Evenness of temperature(°C)	±10 °C								
Electrode capacity(kg)	10kg	20kg	30kg	40kg	60kg	60kg	100kg	100kg	100kg
Electrode length(mm)	450mm								
Weight (kg)	54kg	78kg	108kg	115kg	126kg	126kg	165kg	165kg	165kg

### ZYHC Series

Share the same features with ZYH, plus storage container.

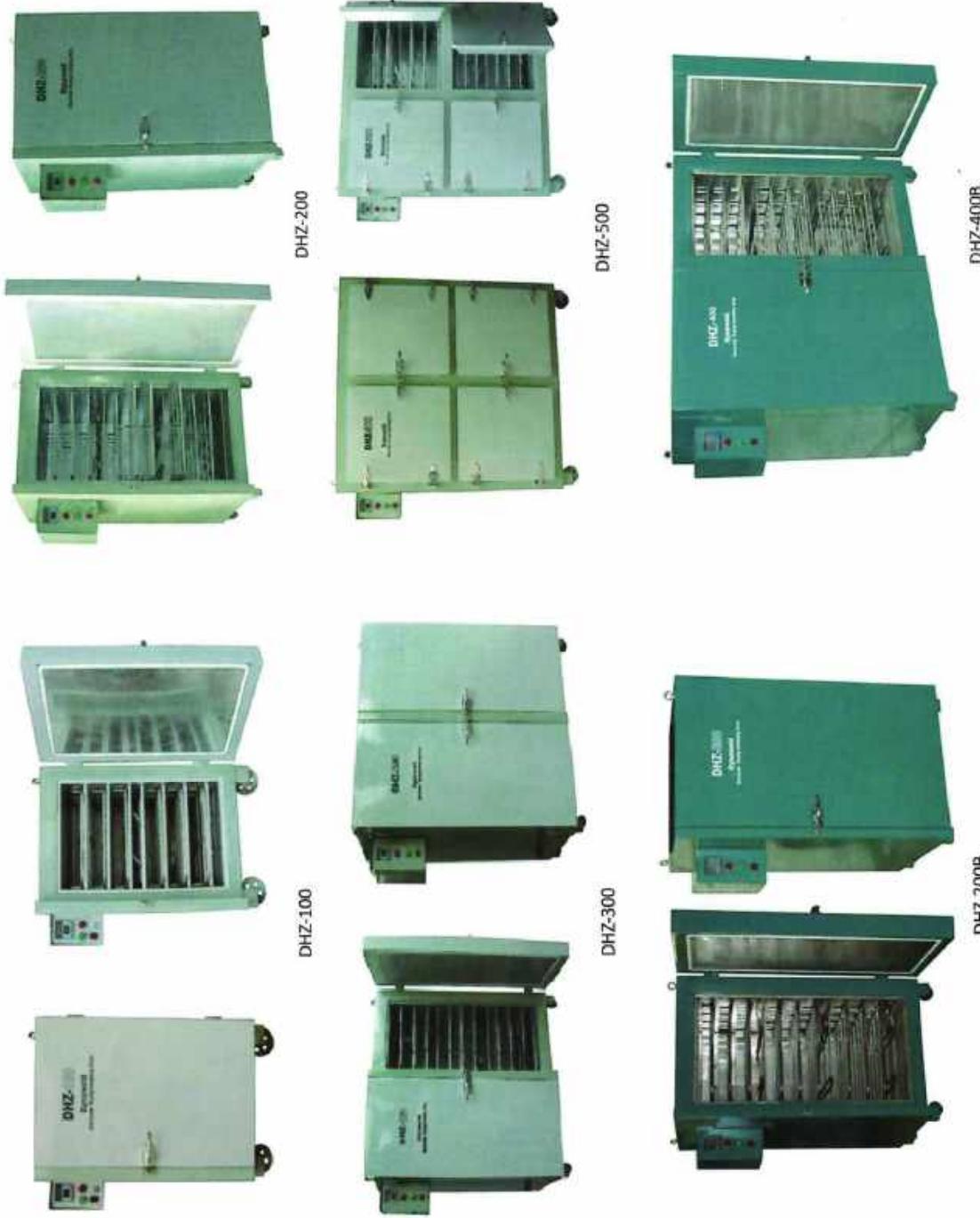


Model	ZYHC-20	ZYHC-30	ZYHC-40	ZYHC-60	ZYHC-100
Input voltage	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz
Rated power(kW)	3.3kW	3.8kW	3.8kW	4.6kW	4.6kW
Max. temperature(°C)	500 °C				
Evenness of temperature(°C)	±10 °C				
Electrode capacity(kg)	20kg	30kg	40kg	60kg	60kg
Electrode length(mm)	450mm	450mm	450mm	450mm	450mm
Weight (kg)	106kg	140kg	150kg	172kg	290kg

## ■ Industrial Electrode Dryer Cabinet (Oven)

### DHZ Series

Heating by electric heating tube, automatic temperature controlling, inner-liner of zinc plated material.



Model	DHZ-100	DHZ-200	DHZ-300	DHZ-500	AC380V/415V	DHZ-200B	DHZ-400B
Input voltage	AC220V /380V						
Rated power(KW)	4.8KW	6.0KW	9.0KW	14.4KW			
Max. temperature(°C)	5	9	18	20			
Layer Number of drawer					500 °C		500 °C
Electrode capacity(kg)	100kg	200kg	300kg	500kg		200kg	400kg
Electrode length(mm)	460*500*5	500*530*1030	*530*1030mm(2 ca 0 *595 **595/4 cav	505*505 *1035		450mm	450mm
Internal dimension(L*W*H) (mm)	130kg	179.5kg	265kg	379.5 kg		240kg	440kg
Net Weight (kg)							

## ■ Industrial Electrode Dryer Cabinet (Oven)

### DHE Series

Heating by electric heating tube, automatic temperature controlling, inner-liner of zinc plated material.



Model	DHE-50	DHE-100
Input voltage	AC220V/380V	AC220V/380V
Rated power(KW)	3KW	4.5KW
Max. temperature(°C)	500 °C	500 °C
Layer Number of drawer	3	6
Electrode capacity(kg)	50kg	100kg
Electrode length(mm)	450mm	450mm
Internal dimension(L*W*H) (mm)	400*470*540	400*470*900
Net Weight (kg)	91.4kg	125.1kg

### DYH Series

Oven made with annular structure, which lead to heating efficiency, large capacity, even temperature, easy operation and energy saving.



Model	DYH-30	DYH-60	DYH-100
Input voltage	AC220V	AC220V	AC220V
Rated power(KW)	1.6KW	1.6KW	3.2KW
Max. temperature(°C)	500 °C	500 °C	500 °C
Shelfed compartments	2	4	6
Electrode capacity(kg)	30kg	60kg	100kg
Electrode length(mm)	450mm	450mm	450mm
Size of inner cavity(mm)	φ245*550	φ350*550	φ460*550
Net Weight (kg)	40kg	70kg	75kg

## MIG/MAG Welding Carriage

### Portable Horizontal Fillet Welding Carriage



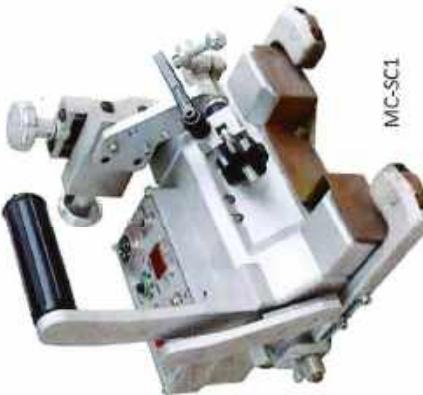
MC-HF1



- Small Volume, Light Weight, and easy for movement and installation.
- Two torches can be installed for back welding and surface welding.
- The magnetic force can be adjusted by setting the height of the bottom case.
- Optional track and caster can be available for vertical welding.
- The carriage can be powered by 220V input power or wire feeder.
- Widely applied to Ship, Bridge, Engine, Steel structure work, etc.

Model	MC-HF1
Weight	6.8kg
Input Voltage	19-100V or 220V
Rated Power	10W
Drive Method	4-wheels-Chain-Driver Motor
Traction Power	30kg
Traveling Speed	150-800 (mm/min)
Tracking Mode	Guide Wheel
X, Y Slider Stroke ( Torch )	X( L& R): 0-40mm Y(Up&Down): 0-40mm
Ajustable Angle of the torch	Rough Adjust: 0-90 ° Fine Adjust: 0-16 °

## Fillet Stitch and Continuous Welding Carriage



MC-SC1

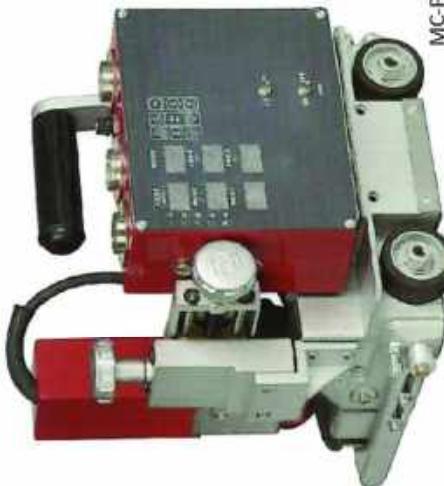


- High-performance magnetic increases the reliability of profile welding and ensures the stability of smooth operation.
- During welding process, the carriage can stop automatically when impeded. Multiple-track is available at one time.
- Welding interval and non-welding path are changeable which meets special welding process.
- The magnet release lever can be easily operated for installation.
- Optional track and caster can be available for vertical welding and horizontal welding by side magnetic absorption.

Model	MC-SC1
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traction Power	20kg
Traveling Speed	35-930 (mm/min)
Tracking Mode	Guide Wheel
Height of Guide Wheel	3 Options
X, Y Slider Stroke ( Torch )	X( L&R): 0-40mm Y(Up&Down): 0-40mm
Ajustable Angle of torch	Horizontal Angle:40°-55°
Suitable Torch	Straight-head Torch or Goose-head Torch
Unreachable Beam Length	137 mm at front and rear side
Auto-stop Function	Achieved by two limit switches on both sides

## MIG/MAG Welding Carriage

### Portable Horizontal Fillet Welding Carriage


**MC-F1**

- The carriage has several different weaving modes for torch weaving.
- High-performance magnetic increases the reliability of profile welding and ensures the stability of smooth operation.
- It can meet the requirement of wide seam and groove welding on the bottom and surface of the thick work piece.
- The magnet release lever can be easily operated for installation.
- Optional track and caster can be available for vertical welding and horizontal welding by side magnetic absorption.
- It has the arc-extinguish function for the torch, with extinguish cycle adjustable range from 0 to 7 seconds.

Model	MC-F1 Oscillator:
Weight	11kg
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traction Power	20kg
Traveling Speed	35-930 (mm/min)
Weaving Angle	±15°
Weaving Speed	0-40 cycle/ Minute
Shifting Distance setting	0 – ±10°
Tracking Mode	Guide Wheel
Height of Guide Wheel	3 Options
X, Y Slider Stroke ( Torch )	X (L&R) : 0-40mm    Y (Up&Down): 0-40mm
Ajustable Angle of the torch	Horizontal Angle:40° – 55°
Suitable Torch	Straight-head Torch or Goose-head Torch
Unreachable Beam Length	137 mm at front and rear side
Auto-stop Function	Achieved by two limit switches on both sides

### No Blind Distance Horizontal Fillet Welding Carriage

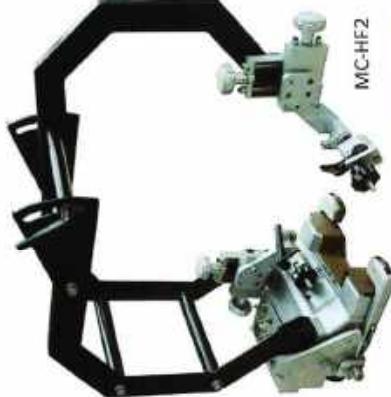

**MC-HF1N**

- The carriage is light and mini sized for easy operation.
- The carriage can complete the fillet welding by weaving the torch when it reaches the blind zone after the carriage stops travelling.
- Control system is based on MCU for easy operation and stable performance.
- The carriage benefits from the high-performance magnet, profiling castor and four-wheel drive mode, and finally achieves reliable travelling.

Model	MC-HF1N
Weight	7.5kg
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traction Power	8kg
Traveling Speed	160-990 (mm/min)
Tracking Mode	Guide Wheel
X, Y Slider Stroke ( Torch )	X (L & R) : 0-40mm    Y (Up&Down): 0-40mm
Ajustable Angle of the torch	Horizontal Angle:40° – 50°
Suitable Torch	Straight-head Torch
Unreachable Beam Length	7 mm at front and rear side
Auto-stop Function	Achieved by two limit switches on both sides

## MIG/MAG Welding Carriage

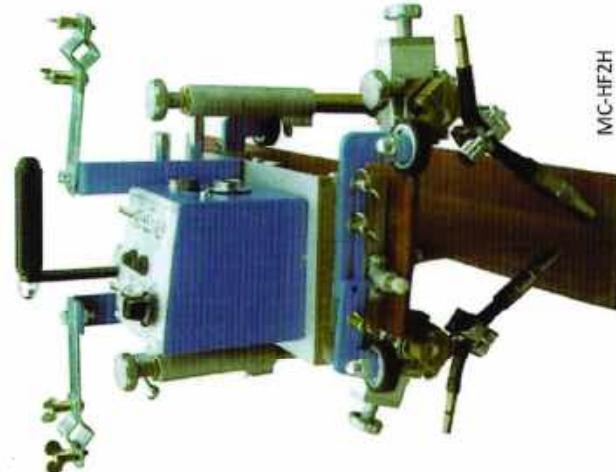
### Horizontal Dual Side Fillet WeldingCarriage



- Dual side welding can be achieved by holding the two torches.
- Automatically stop if there cause any failure.
- High-performance magnetic increases the reliability of profile welding and ensures the stability of smooth operation.
- The magnet release lever can be easily operated for installation.
- Applied for I-beam, reinforcing plate and T-beam.

Model	MC-HF2
Weight	14kg
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traction Power	20kg
Traveling Speed	100-650 (mm/min)
Tracking Mode	Guide Wheel
X, Y Slider Stroke ( Torch )	X ( L & R ) : 0-40mm Y (Up&Down) : 0-40mm
Adjustable Angle of the torch	Horizontal Angle:40° ~55°
Suitable Torch	Straight-head Torch or Goose-head Torch
Auto-stop Function	Achieved by two limit switches on both sides

### H-Rib Horizontal Fillet Welding Carriage, Dual Side Torch



- Dual side welding can be achieved by holding the two torches.
- Automatically stop if there cause any failure.
- High-performance magnetic increases the reliability of profile welding and ensures the stability of smooth operation.
- Applied for I-beam welding.

Model	MC-HF2H
Weight	18kg
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traveling Speed	0-1000 (mm/min)
Tracking Mode	Guide Wheel
X, Y Slider Stroke ( Torch )	X ( L&R ) -0-10mm Y (Up&Down) : 0-60mm
Work Angle	360°
Processing Angle	±10°
Suitable Torch	Straight-head Torch or Goose-head Torch

## MIG/MAG Welding Carriage

### U-Rib Horizontal Fillet Welding Carriage, Dual Side Torch



- Dual side welding can be achieved by holding the two torches.
- Automatically stop if there cause any failure.
- High-performance magnetic increases the reliability of profile welding and ensures the stability of smooth operation.
- Applied for U-shape welding.

Model	MC-HF2U
Weight	18kg
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traveling Speed	0-1000 (mm/min)
Tracking Mode	Guide Wheel
X, Y Slider Stroke (Torch)	X (L&R) : 0-10mm Y (Up&Down): 0-60mm
Work Angle	360°
Processing Angle	±10°
Suitable Torch	Straight-head Torch or Goose-head Torch
Dimensions(L X W X H)	680 X 350 X 350 mm

### All Position Welding Carriage with Oscillator



- Carriage rail can be connected together. Control box can realize remote control of the carriage.
- Optional horizontal welding torch holder can perform inclined oscillation in horizontal and fillet welding, no droplet from molten pool, good appearance.
- Applicable to medium and thick plates welding, high efficiency, perfect craftsmanship.
- It can be applied to all positions welding, such as flat welding, fillet welding, vertical welding, horizontal welding, overhead welding, etc.
- Applicable Industry: Steel structure, shipbuilding, bridge, vehicle manufacturing, chemistry, pipeline, etc.

Model	MC-AP1
Weight	12kg
Input Voltage	AC 220V
Rated Voltage for Weaving Motor	DC 24V
Drive Method	4-wheels-Chain-Driver Motor
Traveling Speed	0-700 (mm/min)
Tracking Mode	Guide Wheel (Soft or Hard)
X, Y Slider Stroke (Torch)	X (L&R) : 0-50mm Y (Up&Down): 0-50mm
Work Angle	360°
Processing Angle	±10°
Suitable Torch	Straight-head Torch or Goose-head Torch

## Pipe Cold Beveling Machine

## Inside Clamping Type

- Cold Beveling improves safety, fast, precision, on-site Beveling.
- Light weight and compact design, easy set-up & operation.
- Electric or Pneumatic, and the two motors can be switched.
- Electric Drive (AC 220V, 50/60HZ, 0.8-1.5Kw). Pneumatic Drive (Air pressure 0.6-1.5Mpa, Air Consuming Flux:900-1500L/Min).
- Advantages of pneumatic driven: Steady move and low noise, specially suitable for inflammable and explosive places. Easy to maintenance and occasionally overload won't burn. Advantage of electric driven: Convenient to use and powerful than pneumatic type.



ICE-28T/Pneumatic



ICE-351



ICE-630



ICP-150B



ICP-250-II/351-II/630-II



STANDARD TOOLS

Electric drive	Pneumatic drive	Working range(I.D/mm)	Wall thickness/mm	Dimension(mm)	Net weight (kg)	Gross weight(kg)
ICE-28T	ICP-28T	16-28	≤10	480x350x130	10	16
ICE-80T	ICP-80T	28-76	≤15	480x350x130	10.5	17
ICE-150B	ICP-150B	65-159	≤20	670x300x200	23	30
ICE-250B	ICP-250B	80-240	≤20	670x350x230	31	46
ICE-351	ICP-351	150-330	≤20	750x440x350	49	71
ICE-630	ICP-630	300-600	≤20	900x680x420	89	135
ICE-250-II	ICP-250-II	80-240	≤75	670x350x230	38	53
ICE-351-II	ICP-351-II	150-330	≤75	830x560x320	54	76
ICE-630-II	ICP-630-II	300-600	≤75	950x750x420	74	120
ICE-850-II	ICP-850-II	500-850	≤75	1250x1000x950	266	310

Remarks:

- The B type machines: Tool feeding by an ratchet handle, easy operation and labour-saving;
- The II type machines: Automatic tool feeding system. Specially used for beveling heavily thickness pipes up to 75mm.
- Definition: Inside Clamping Electric(ICP) Inside Clamping Pneumatic(ICP)

- The Outside Clamping type pipe beveling&cutting machines is a split frame design, allows it to separate and mount around the OD of in-line pipe or fittings for strong and stable clamping. It performs precise in-line cut or simultaneous cut/bevel operation, as well as weld end preparation on open ended pipe.
- OCE series are equipped with METABO motor.
- The OCH series attached with a Hydraulic Unit (size:1100x750x100mm, weight:320kgs).
- Definition: Outside Clamping Electric (OCE), Outside Clamping Pneumatic (OCP), Outside Clamping Hydraulic (OCH)


**OCE Series**

Electric Driven AC220V 50HZ  
Power: 1-2.5kW

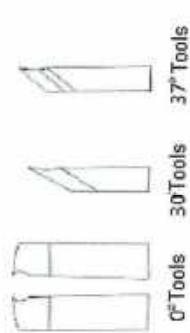

**OCP Series**

Pneumatic Driven  
Air working pressure: 0.6-1.5mpa  
Air Consumption:1500-2000l/min


**OCH Series**

Hydraulic Driven  
Rated pressure: P=16Mpa/cm<sup>2</sup>  
Rated flow Q=25L/min  
Hydraulic motor speed n=120r/min

#### STANDARD TOOLS



Ø" Tools      30 Tools      37" Tools



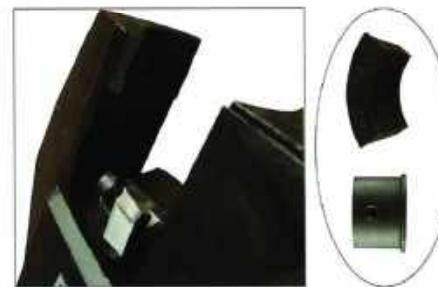
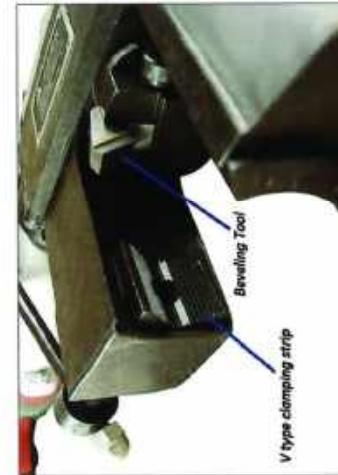
Electric driven	Pneumatic driven	Hydraulic driven	Working range O.D/inch/mm	Wall thickness(mm)	Dimensions(mm)	N.W/kg	G.W/kg
OCE 1-6	OCP 1-6	OCH 1-6	1"-6"	25.4-168.3	560x500x200	47	69
OCE 2-8	OCP 2-8	OCH 2-8	2"-8"	50.8-219	560x500x200	54	79
OCE 4-10	OCP 4-10	OCH 4-10	4"-10"	114.3-273	750x600x250	63	94
OCE 6-12	OCP 6-12	OCH 6-12	6"-12"	168.3-323	750x600x250	78	113
OCE 8-14	OCP 8-14	OCH 8-14	8"-14"	219-377	850x700x250	83	119
OCE 10-16	OCP 10-16	OCH 10-16	10"-16"	254-406.4	850x700x250	85	122
OCE 12-18	OCP 12-18	OCH 12-18	12"-18"	323.9-457.2	850x700x250	93	130
OCE 14-20	OCP 14-20	OCH 14-20	14"-20"	355-508	850x700x250	115	158
OCE 16-22	OCP 16-22	OCH 16-22	16"-22"	323.9-457.2	850x700x250	115	158
OCE 18-24	OCP 18-24	OCH 18-24	18"-24"	457.2-609.6	850x930x270	128	174
OCE 20-26	OCP 20-26	OCH 20-26	20"-26"	508-660	850x930x270	160	195
OCE 22-28	OCP 22-28	OCH 22-28	22"-28"	550-715	1150x1150x270	165	208
OCE 24-30	OCP 24-30	OCH 24-30	24"-30"	609.6-762	1150x1150x270	170	212
OCE 26-32	OCP 26-32	OCH 26-32	26"-32"	660-813	1300x1300x270	195	238
OCE 30-36	OCP 30-36	OCH 30-36	30"-36"	770-914.4	1300x1300x270	210	256
OCE 36-42	OCP 36-42	OCH 36-42	36"-42"	914.4-1066.8	1450x1450x270	258	282
OCE 42-48	OCP 42-48	OCH 42-48	42"-48"	1066.8-1220	1600x1600x270	288	342

## O.D Mounted Pipe Beveling Machine YG Series



- High-quality beveling tools which can process different grades of carbon steels, alloyed steels, stainless steels, etc.
- An outside caliper is fixed in proper position, simple and light, precise centering, steady mount and convenient operation.
- It is equipped with exclusive motor made by Germany Metabo Company, with excellent performance and durable use.
- Driven Type: Electrical 220V, 50HZ/60HZ

Model	Working Range(O.D in mm)	Wall Thickness/mm
YG-38	14-38	≤ 12
YG-45	25-45	≤ 12
YG-63	32-63	≤ 12
YG-76	51-76	≤ 12
YG-89	63-89	≤ 12
YG-114	89-114	≤ 12
YG-159	114-159	≤ 12
YG-180	133-180	≤ 12



Every model has 6 sets block. Please choose suitable block for different size (O.D) Pipes.

## ■ O.D Mounted Pipe Beveling Machine



ISC-63/89



TSC-63/89



- The machine is designed for pipe end beveling of small diameter, pipe out-mounted compact installation. It's used in inflammable and dangerous operation places. It's used for process: narrow space of on-site repair and large scale of repairing.
- An outside caliper is fixed in proper position, simple and light, precise centering, steady mount and convenient operation.
- The electric model adopts exclusive motor to drive, Voltage 220V, Frequency 50-60Hz, Power 1.40kW. The pneumatic model adopts pneumatic motor to drive, air working pressure 0.8-1.5Mpa, air consuming flux 1000-1500L/min.

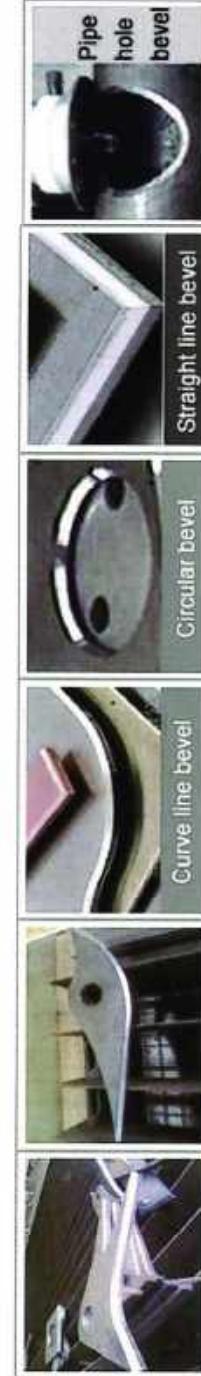
Electric Driven	Pneumatic Driven	Working Range(O.D. in mm)	Wall Thickness(mm)	Rotating Speed(RPM)
ISC-63	TSC-63	38-63	≤ 12	52
ISC-89	TSC-89	63-89	≤ 12	50

## ■ Portable Plate Beveling Machine



ATS-18

Model	ATS-18
Input Voltage	220V
Rated Power	2.2KW
No-load speed	8500RPM(adjustable)
Chamfering Range	1-15mm
Chamfering Angle	45°(30° can be customized)
Chamfering Speed	1.0-1.5m/min



- The machine is a manual operate electrical tool. It applies to preparation before welding.

Not only can process pipe inside beveling, but also plate and burring. The multifunction and flexibility can improve efficiency and make it be an attractive machine. The compact construction can work in narrowness.

- For preparing K, V, X and Y-shaped welding grooves. Creating visible edges in plant and mechanical engineering work.

## ■ Portable Plate Beveling Machine



SKF-15

- The machine is a handy and flexible unit for the preparation of welding, beveling, deburring of materials.
- Can bevel K,V,X and Y types of welding joint.
- The working efficiency can increase 30-50 times than common grinding machine.
- Low weight, easy and safe operation.
- Smooth and flat beveling face.



Model	SKF-15
Motor	3-380V, 50HZ
Rated Power	1.1kW
Rotation Speed	2870 RPM
Max Bevel Width	20mm
Bevel Angle	30°-60°
Net Weight	18KGs

## ■ Automatic Edge Milling Machine / Plate Beveling Machine



XB-900

- The device is based on the basic principle of the milling cutter installed on the use of different materials carbide. Tools for milling. It performs a good surface finish.
- Can bevel the stainless steel, carbon steel plate.
- Easy to operate and low price, but performs high quality beveling work.
- If plate is short, you can fix the beveling machine and the plate will be automatically feeding and beveling. If plate is long, then you can fix the plate and move the machine to bevel the plate.

Model	XB-900
Input Voltage (Main motor)	380V
Rated Power(Main motor)	2*2.2KW
No-load speed(Main motor)	1410RPM
Input Voltage ( Feed motor)	380V/220V
Rated Power(Feed motor)	200W
No-load speed(Feed motor)	1380RPM
Max. Bevel Width(W)	max 15mm/single working (can be adjustable)
Beveling Width	0-46mm
Beveling Angle( $\alpha$ )	25°-60°
Beveling Speed	0-1.0m/min
Plate Thickness(T)	5-60mm
Beveling surface finish	Ra3.0-12



## Automatic Walking Type Plate Beveling Machine



BT-20B/28B


 BT-20B/28BR  
Rotary Type


BT-20B/28B



BT-20B/28BR

It can bevel the two sides of the plate (X) by rotating beveling tools system, and don't need to rotate the plate.

- The device is based on the basic principle of the rolling cut to bevel the plate.
- Suitable for high-volume centralized production, flexible to use in every place of workshop.
- A small investment, no limit working length and high working flexibility.
- During processing, it automatically feeds along the edge of plate with high feeding speed and high Efficiency. Without any change of plate shape and plate metallurgy.
- Suitable for the cutting of ordinary carbon steel, medium carbon steel, stainless steel, aluminum alloy and other materials.
- Meanwhile, an operator can take care of several devices, working condition is simple.

Model	BT-20B/BT-20BR	BT-28B/BT-28BR
Input Voltage(main motor)	380V	380V
Rated Power	1.5KW	2.2KW
No-load speed	1450RPM	1450RPM
Max. Bevel Width(W)	max 12mm/single beveling work max 18mm/several beveling work	max 16mm/single beveling work max 28mm/several beveling work
Plate Width Requirement	≥75mm	≥115mm ≥200mm
Dia. of the Circular plate	≥110mm	≥110mm ≥200mm
Beveling Angle(α)	25°-45° (The angle is adjustable)	25°-45° (The angle is adjustable)
Beveling Speed	≥2.0m/min	≥2.0m/min
Plate Thickness(T)	6-30mm	8-45mm
Net Weight	175/270kgs	212/310kgs

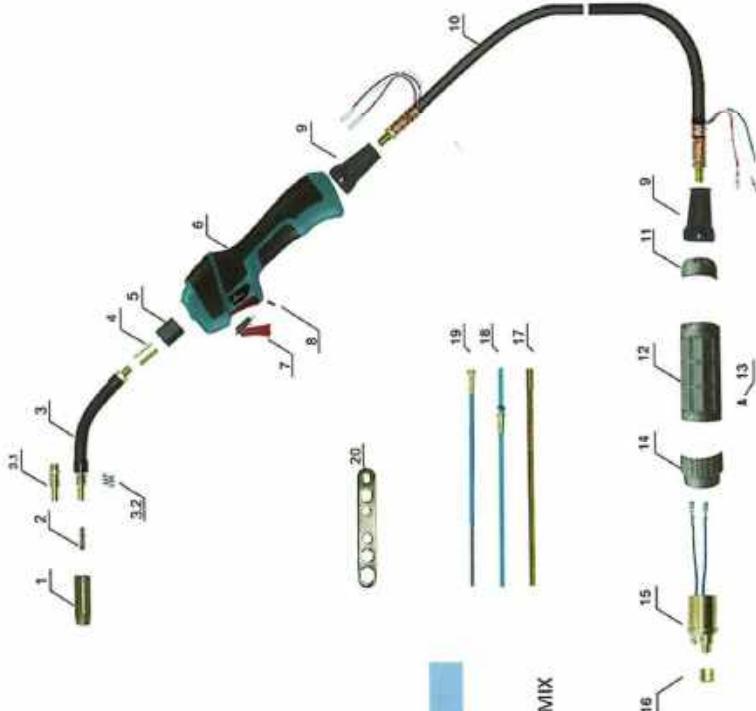
## BZL Series

### MIG 15



#### Technical data

Cooling	Gas Cooled
Duty Cycle	60%
Rating	180A CO <sub>2</sub> , 150A MIX
Wire Size	0.6-1.0mm

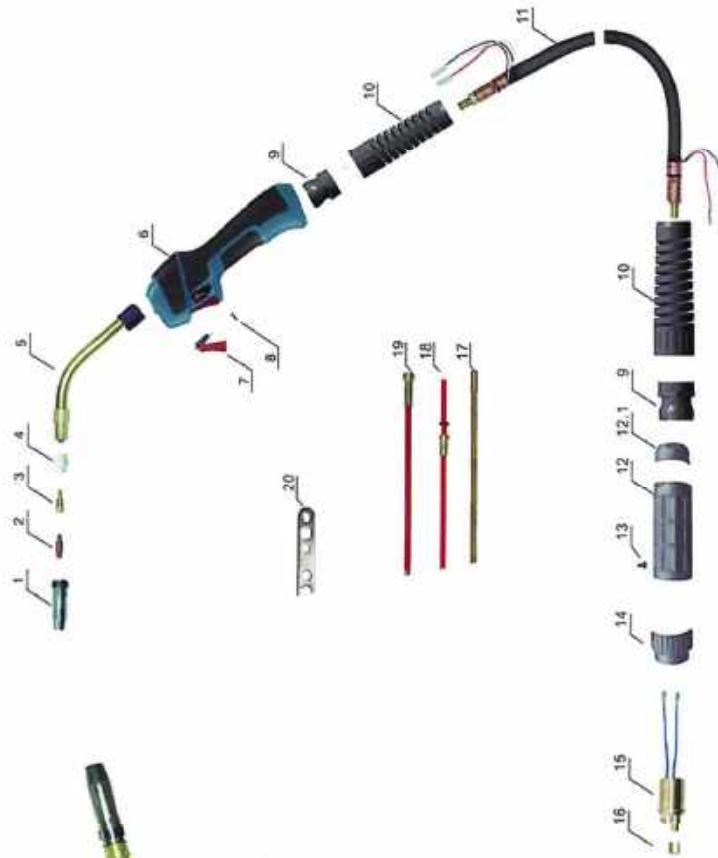


No.	Part No.	Description	No.	Part No.	Description
002.0449	002.0449	MIG 15 Torch, 3M	8	MIGSC008	Screw M3X10
002.0450	002.0450	MIG 15 Torch, 4M	9	MIGT009	Joint
002.0451	002.0451	MIG 15 Torch, 5M	10	MIG15003	Coaxial cable, 3M
1	145.0123	Tapered Nozzle Ø9.5mm	11	MIG15004	Coaxial cable, 4M
	145.0075*	Conical Nozzle Ø12mm	12	MIG15005	Coaxial cable, 5M
	145.0441	Cylindrical Nozzle Ø16mm	13	MIGH012	Housing for handle
2	140.0008	Contact Tip M6x25mm Ø0.6 Ecu	14	MIGBB012	Back box
	140.0059*	Contact Tip M6x25mm Ø0.8 Ecu	15	MIGSC013	Screw M4x6
	140.0177	Contact Tip M6x25mm Ø0.9 Ecu	16	501.00213	Adaptor nut
	140.0253	Contact Tip M6x25mm Ø1.0 Ecu	17	501.0003	Euro central adaptor
	140.0855	Contact Tip M6x25mm Ø0.6 CuCRZr	18	501.0082	Liner nut
	140.0062	Contact Tip M6x25mm Ø0.8 CuCRZr	19	MIG15017	Brass Liner Ø2.0XΦ4.0mm/0.35m
	140.0256	Contact Tip M6x25mm Ø1.0 CuCRZr	20	126.0005	Teflon liner Blue 3.4M
3	002.0009	Swan Neck	21	126.0008	Teflon liner Blue 4.4M
	002.0078	Gas Diffuser	22	126.0011	Teflon liner Blue 5.4M
3.2	002.0058	Spring	23	124.0011*	Blue Liner 3.4M
4	001.0009	Hexagonal fitting	24	124.0012	Blue Liner 4.4M
5	400.0044	Plastic body	25	124.0015	Blue Liner 5.4M
6	MIGTC006	MIG handle	26	MIGSP020	Spanner
7	185.0031	Trigger			

## BZL Series

## MIG 24

Technical data	
Cooling	Gas Cooled
Duty Cycle	60%
Rating	250A CO <sub>2</sub> , 220A MIX
Wire Size	0.8-1.2mm



No.	Part No.	Description	No.	Part No.	Description
-	012.0103	MIG 24 Torch, 3M	8	MIGSC008	Screw M3x10
-	012.0104	MIG 24 Torch, 4M	9	MIGTO09	Joint
-	012.0105	MIG 24 Torch, 5M	10	400.1010	Spring for cable support
1	145.0128	Tapered Nozzle Ø10mm	11	MIG24003	Coaxial cable, 3M
	145.0080*	Conical Nozzle Ø12.5mm		MIG24004	Coaxial cable, 4M
	145.0047	Cylindrical Nozzle Ø17mm		MIG24005	Coaxial cable, 5M
2	140.005	Contact Tip M6x28mm Ø0.6 Ecu	12	MIGBB012	Back box
	140.0051	Contact Tip M6x28mm Ø0.8 Ecu	12.1	MIGHH012	Housing for handle
	140.0242*	Contact Tip M6x28mm Ø1.0 Ecu	13	MIGSC013	Screw M4x6
	140.0379	Contact Tip M6x28mm Ø1.2 Ecu	14	500.0213	Adaptor nut
	141.0001	Contact Tip M6x28mm Ø0.8 Ecu Al	15	201.0003	Euro central adaptor
	141.0006	Contact Tip M6x28mm Ø1.0 Ecu Al	16	501.0082	Liner nut
	141.0010	Contact Tip M6x28mm Ø1.2 Ecu Al	17	MIG15017	Brass Liner Ø2.0xØ4.0mm/0.35m
	140.0054	Contact Tip M6x28mm Ø0.8 CuCrZr	18	126.0021	Teflon liner Red 3.4M
	140.0245	Contact Tip M6x28mm Ø1.0 CuCrZr		126.0026	Teflon liner Red 4.4M
	140.0382	Contact Tip M6x28mm Ø1.2 CuCrZr		126.0028	Teflon liner Red 5.4M
3	142.0003	Contact Tip Holder M6x26	19	124.0026*	Red Liner 3.4M
4	012.0183	Ceramic Gas Diffuser white		124.0031	Red Liner 4.4M
5	012.0001	Swan Neck		124.0035	Red Liner 5.4M
6	MIGTC006	MIG handle	20	MIGSP020	Spanner
7	185.0031	Trigger			

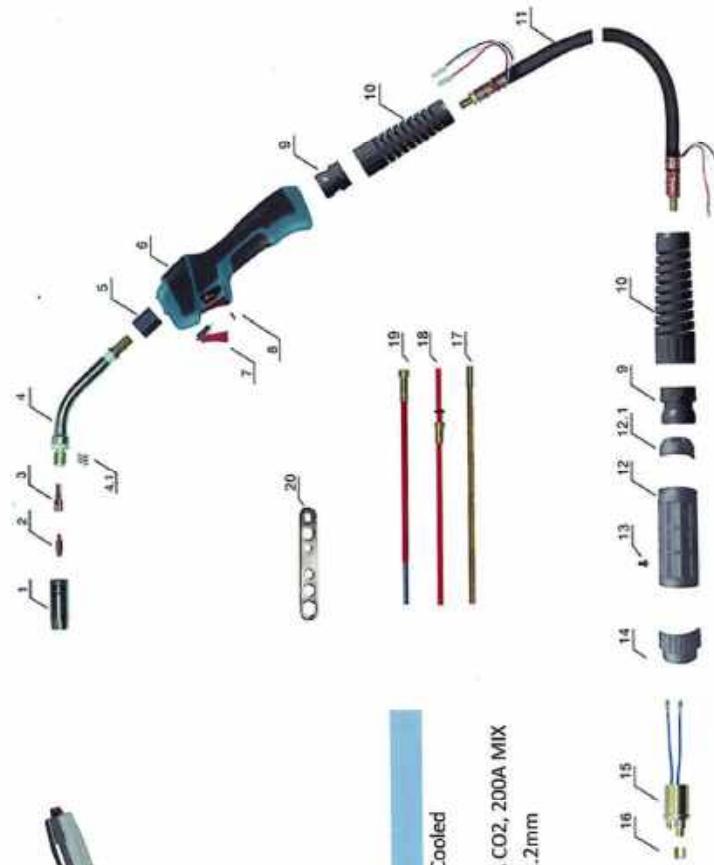
## BZL Series

### MIG 25



#### Technical data

Cooling Gas Cooled  
 Duty Cycle 60%  
 Rating 230A CO<sub>2</sub>, 200A MIX  
 Wire Size 0.8-1.2mm



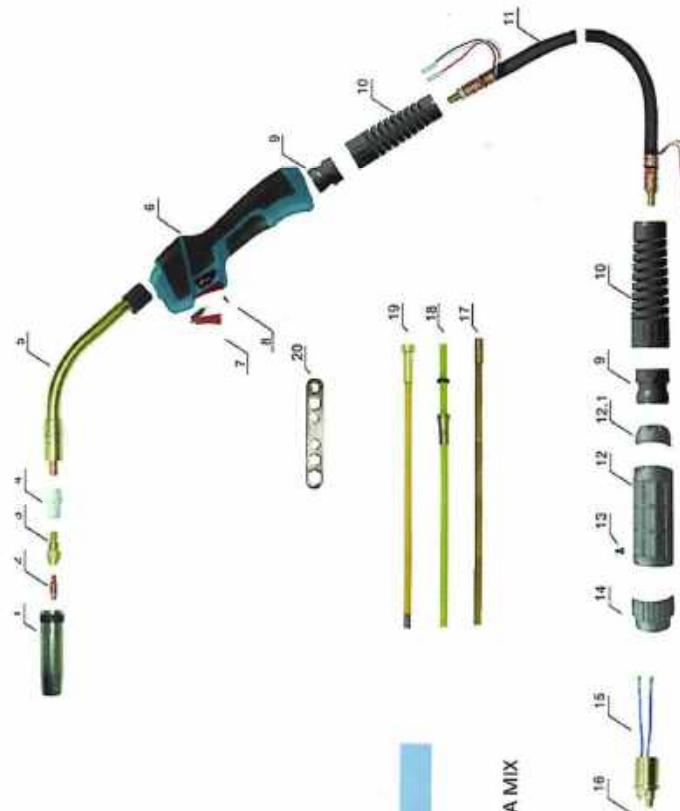
No.	Part No.	Description	No.	Part No.	Description
004.0312	MIG 25 Torch, 3M		8	MIGSC008	Screw M3X10
004.0313	MIG 25 Torch, 4M		9	MIGIT009	Joint
004.0314	MIG 25 Torch, 5M		10	400.1010	Spring for cable support
1	145.0124	Tapered Nozzle Ø11mm	11	MIG25003	Coaxial cable, 3M
	145.0076*	Conical Nozzle Ø15mm	12	MIG25004	Coaxial cable, 4M
	145.0042	Cylindrical Nozzle Ø18mm	13	MIG25005	Coaxial cable, 5M
2	140.0051	Contact Tip M6x28mm Ø0.8 Ecu	14	MIGBB012	Back box
	140.0242*	Contact Tip M6x28mm Ø1.0 Ecu	15	MIGHH012	Housing for handle
	140.0379	Contact Tip M6x28mm Ø1.2 Ecu	16	MIGSC013	Screw M4x6
	141.0001	Contact Tip M6x28mm Ø0.8 Ecu AL	17	MIG15017	Adaptor nut
	141.0006	Contact Tip M6x28mm Ø1.0 Ecu AL	18	201.0003	Euro central adaptor
	141.0010	Contact Tip M6x28mm Ø1.2 Ecu AL	19	501.0082	Liner nut
	140.0054	Contact Tip M6x28mm Ø0.8 CuCRZr	20	500.0213	Adaptor nut
	140.0245	Contact Tip M6x28mm Ø1.0 CuCRZr	21	126.0021	Teflon liner Red 3.4M
	140.0382	Contact Tip M6x28mm Ø1.2 CuCRZr	22	126.0026	Teflon liner Red 4.4M
3	142.0001	Contact Tip Holder	23	126.0028	Teflon liner Red 5.4M
4	004.0012	Swan Neck	24	124.0026*	Red Liner 3.4M
4.1	003.0013	Spring	25	124.0031	Red Liner 4.4M
5	400.0004	Plastic body	26	124.0035	Red Liner 5.4M
6	MIGT006	MIG handle	27	MIGSP020	Spanner
7	185.0031	Trigger			

## BZL Series



### Technical data

Cooling	Gas Cooled
Duty Cycle	60%
Rating	340A CO <sub>2</sub> , 300A MIX
Wire Size	0.8-1.6mm



No.	Part No.	Description	No.	Part No.	Description
014.0143	MIG 36 Torch, 3M	4	014.0023	Ceramic Gas Diffuser	
014.0144	MIG 36 Torch, 4M	5	014.0006	Swan Neck	
014.0145	MIG 36 Torch, 5M	6	MIGTC006	MIG handle	
1	145.0126	Tapered Nozzle Ø12mm	7	185.0031	Trigger
145.0078*	Conical Nozzle Ø16mm	8	MIGSC008	Screw M3X10	
145.0045	Cylindrical Nozzle Ø19mm	9	MIGJT009	Joint	
2	140.0051	Contact Tip M6x28mm Ø0.8 Ecu	10	400.1010	Spring for cable support
140.0242	Contact Tip M6x28mm Ø1.0 Ecu	11	MIG36003	Coaxial cable, 3M	
140.0379*	Contact Tip M6x28mm Ø1.2 Ecu	12	MIG36004	Coaxial cable, 4M	
141.0001	Contact Tip M6x28mm Ø0.8 Ecu AL	13	MIG36005	Coaxial cable, 5M	
141.0006	Contact Tip M6x28mm Ø1.0 Ecu AL	12	MIGBB012	Back box	
141.0010	Contact Tip M6x28mm Ø1.2 Ecu AL	12.1	MIGH012	Housing for handle	
141.0020	Contact Tip M6x28mm Ø1.6 Ecu AL	13	MIGSC013	Screw M4x6	
140.0054	Contact Tip M6x28mm Ø0.8 CuCRZr	14	500.0213	Adaptor nut	
140.0245	Contact Tip M6x28mm Ø1.0 CuCRZr	15	201.0003	Euro central adaptor	
140.0382	Contact Tip M6x28mm Ø1.6 CuCRZr	16	501.0082	Liner nut	
140.0558	Contact Tip M8x30mm Ø1.0 Ecu	18	126.0021	Teflon liner Red 3.4M	
140.0114	Contact Tip M8x30mm Ø0.8 Ecu	17	MIG15017	Brass Liner Ø3.0xØ4.5mm/0.35m	
140.0313	Contact Tip M8x30mm Ø1.0 Ecu	126.0026		Teflon liner Red 4.4M	
140.0442	Contact Tip M8x30mm Ø1.2 Ecu	126.0028		Teflon liner Red 5.4M	
141.0003	Contact Tip M8x30mm Ø0.8 Ecu AL	126.0039		Teflon liner Yellow 3.4M	
141.0008	Contact Tip M8x30mm Ø1.0 Ecu AL	126.0042		Teflon liner Yellow 4.4M	
141.0015	Contact Tip M8x30mm Ø1.2 Ecu AL	126.0045		Teflon liner Yellow 5.4M	
141.0022	Contact Tip M8x30mm Ø1.6 Ecu AL	19	124.0026*	Red Liner 3.4M	
140.0117	Contact Tip M8x30mm Ø0.8 CuCRZr	124.0031		Red Liner 4.4M	
140.0316	Contact Tip M8x30mm Ø1.0 CuCRZr	124.0035		Red Liner 5.4M	
140.0445	Contact Tip M8x30mm Ø1.2 CuCRZr	124.0041		Yellow Liner 3.4M	
140.0590	Contact Tip M8x30mm Ø1.6 CuCRZr	124.0042		Yellow Liner 4.4M	
3	142.0005	Contact Tip Holder M6X28	124.0044	Yellow Liner 5.4M	
142.0011*	Contact Tip Holder M6X32	20	MIGSP020	Spanner	
142.0020	Contact Tip Holder M8X28				
142.0024	Contact Tip Holder M8X34				

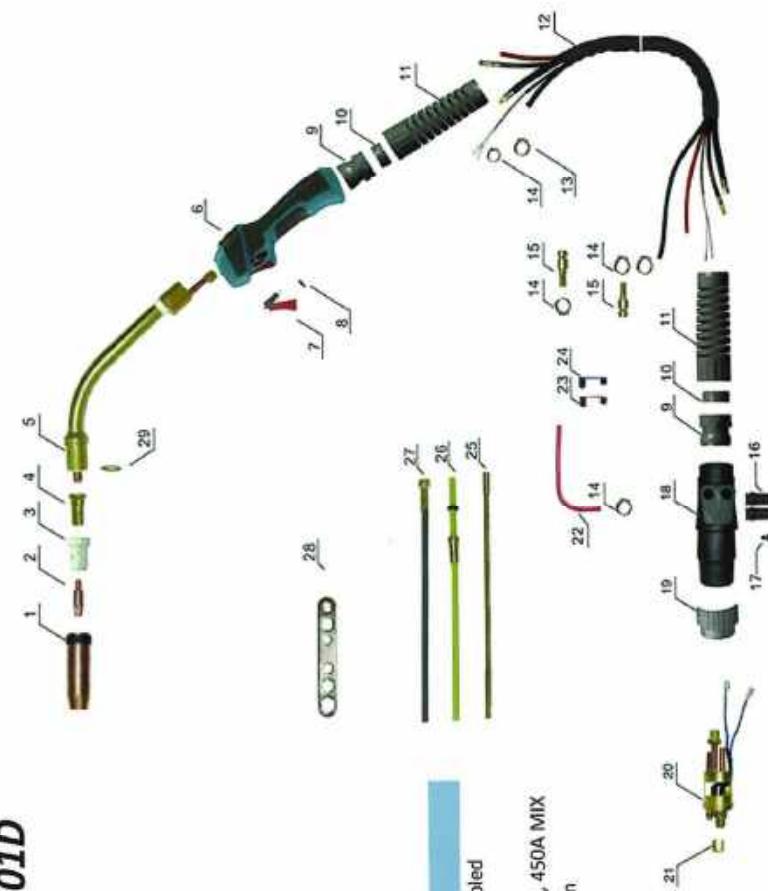
## BZL Series

## MIG 501D



### Technical data

Cooling	Water Cooled
Duty Cycle	100%
Rating	500A CO <sub>2</sub> , 450A MIX
Wire Size	1.0-1.6mm



No.	Part No.	Description	No.	Part No.	Description
034.0160	MIG 501D Torch, 3M	13 173.0001 Clamp Ø9.5			
034.0161	MIG 501D Torch, 4M	14 171.0002 Clamp Ø8.7			
034.0162	MIG 501D Torch, 5M	15 501.0114 Quick water Connector Ø6.0			
1	145.0132 Tapered Nozzle Ø14mm	16 MIG501006 Hose support for water cooled rear box			
	145.0085* Conical Nozzle Ø16mm	17 MIGSC013 Screw M4x6			
	145.0051 Cylindrical Nozzle Ø19mm	18 MIGBB012 Back box			
2	140.0114 Contact Tip M8x30mm Ø0.8 Ecu	19 500.0213 Adaptor nut			
140.0313	Contact Tip M8x30mm Ø1.0 Ecu	20 501.0015 Euro central adaptor for water cooling			
140.0442*	Contact Tip M8x30mm Ø1.2 Ecu	21 501.0082 Liner nut			
140.0587	Contact Tip M8x30mm Ø1.6 Ecu	22 103.0108 Output water tube M5x8mm 0.8m red			
141.0003	Contact Tip M8x30mm Ø0.8 Ecu AL	23 MIG501008 Plastic support Red			
141.0008	Contact Tip M8x30mm Ø1.0 Ecu AL	24 MIG501009 Plastic support Blue			
141.0015	Contact Tip M8x30mm Ø1.2 Ecu AL	25 MIG150017 Brass Liner Ø3.0xØ4.5mm/0.35m			
141.0022	Contact Tip M8x30mm Ø1.6 Ecu AL	26 126.0021 Teflon liner Red 3.4M			
140.0117	Contact Tip M8x30mm Ø0.8 CUCR2R	126.0026 Teflon liner Red 4.4M			
140.0316	Contact Tip M8x30mm Ø1.0 CUCR2R	126.0028 Teflon liner Red 5.4M			
140.0445	Contact Tip M8x30mm Ø1.2 CUCR2R	126.0039 Teflon liner Yellow 3.4M			
140.0590	Contact Tip M8x30mm Ø1.6 CUCR2R	126.0042 Teflon liner Yellow 4.4M			
3	030.0190 Ceramic Gas Diffuser White	126.0045 Teflon liner Yellow 5.4M			
4	142.0022* Contact Tip Holder M8x25	27 124.0026 Red Liner 3.4M			
	142.0027 Contact Tip Holder M8x29	124.0031 Red Liner 4.4M			
5	034.0001 Swan Neck	124.0035 Red Liner 5.4M			
6	MIGTC007 MIG handle	124.0041 Yellow Liner 3.4M			
7	185.0031 Trigger	124.0042 Yellow Liner 4.4M			
8	MIGSC008 Screw M3x10	124.0044 Yellow Liner 5.4M			
9	MIGT009 Joint	28 MIGSP020 Spanner			
10	MIGHH012 Housing for handle	29 MIGIS029 Insulator			
11	400.1010 Spring for cable support				
12	MIG501003 Coaxial cable, 3M				
	MIG501004 Coaxial cable, 4M				
	MIG501005 Coaxial cable, 5M				

## BND Series

## BND200E / 300E / 400E

Model	BND200E	BND300E	BND400E
Rating(CO <sub>2</sub> )	200A	300A	400A
Rating(Mixed Gas)	150A	200A	320A
Duty Cycle	60%	60%	60%
Wire Size(mm)	0.8-1.2	0.8-1.2	0.8-1.6



European terminal : B0-Euro



American terminal : B1-Tweco



American terminal : B2-Miller



Complete Torch c/w Euro Fitting

10ft	12ft	15ft
200E 4E210AE	4E212AE	4E215AM
300E 4E310AE	4E312AE	4E315AM
400E 4E410AE	4E412AE	4E415AM

Complete Torch c/w Tweco Fitting

10ft	12ft	15ft
200E 4E210AT	4E212AT	4E215AM
300E 4E310AT	4E312AT	4E315AM
400E 4E410AT	4E412AT	4E415AM

Complete Torch c/w Miller Fitting

10ft	12ft	15ft
200E 4E210AM	4E212AM	4E215AM
300E 4E310AM	4E312AM	4E315AM
400E 4E410AM	4E412AM	4E415AM

## BND Series

## BND200E / 300E / 400E

No.	Description	BND 200	BND 300	BND 400	No. Part No.	Description
70	Insulator for 200/300	4323R	4323R	4423R	1 4786	Swan neck fit for 200A
80	Gas diffuser	4335*	4435*	4435*	2 4790	Swan neck fit for 300A/400A
	Gas diffuser	4235	4235	4635	3 1840057	Insulator for hexagonal nut
	Gas diffuser	4235-116	4235-116	4635-116	4 R4305	End fitting
90	Contact tip.. 023"	1597	1597	5	175.0022	Cone nut
	Contact tip.. 030"	1588	1588	5	175.0022	Trigger Terminal
	Contact tip.. 035"	1589	1589	5	17800006	Handle
	Contact tip.. 039"	1596	1596	7	21.0-706R	Clamp
	Contact tip.. 045"	1590	1590	8	25200442	Spring
	Contact tip.. 052"	1598	1598	9	4261TE	Cable assembly X 10ft, 200A
	Contact tip.. 1/16"	1591	1591	9	4262TE	Cable assembly X 12ft, 200A
	Contact tip.. 5/64"	1592	1592	9	4265TE	Cable assembly X 15ft, 200A
	Contact tip.. 3/32"	1593	1593	9	4361TE	Cable assembly X 10ft, 300A
	Contact tip.. 7/64"	1594	1594	9	4362TE	Cable assembly X 12ft, 300A
	Contact tip.. 1/8"	1595	1595	9	4365TE	Cable assembly X 15ft, 300A
91	Contact tip tapered.. 023"	4284	4284	10	4461TE	Cable assembly X 10ft, 400A
	Contact tip tapered.. 030"	4285	4285	10	4462TE	Cable assembly X 12ft, 400A
	Contact tip tapered.. 035"	4281	4281	10	4465TE	Cable assembly X 15ft, 400A
	Contact tip tapered.. 039"	4299	4299	10	175.0004	Trigger connection male
	Contact tip tapered.. 045"	4282	4282	11	5662A	Trigger switch
	Contact tip tapered.. 052"	4283	4283	11	5662	Trigger switch
	Contact tip tapered.. 1/16"	4280	4280	12	4238	Hanger
93	Contact tip.. 023"	7497	7497	13	4209	Screw
	Contact tip.. 030"	7488	7488	14	4207	Nut
	Contact tip.. 035"	7489	7489	15	BND200A-05-1-A	Cable connector
	Contact tip.. 039"	7496	7496	16	25200441	Spring
	Contact tip.. 045"	7490*	7490*	17	2520073-1	Housing
	Contact tip.. 052"	7498	7498	18	4207L	Nut
	Contact tip.. 1/16"	7491	7491	19	2520073-2	Bushing(USA)
	Contact tip.. 5/64"	7492	7492	20	2520073-2-A	Bushing(EURO)
	Contact tip.. 3/32"	7493	7493	21	EA0018	Screw
	Contact tip.. 7/64"	7494	7494	22	BW0020	Machine nut
	Contact tip.. 039"	7495	7495	23	5050	Euro-Quick connector assembly
100-104	Brass nozzle 3/8"	4295	4295	24	431 SERIES	Liners(BO B2)
	Brass nozzle 5/8"	4391*	4391*	25	431 SERIES	Liners(B1)
	Brass nozzle 1/2"	4392	4392	26	A AK354-B	Terminal
	Brass nozzle 3/4"			27	B BND200USA-05-3	Coonector for Tweco®
	Brass nozzle 17/32"			28	C MSAK354-B	Terminal
	Copper nozzle 5/8"	4393	4393	29	D R174-MN	Nipple for Miller® connection
	Copper nozzle 1/2"	4394	4394	30	E BND400USA-05-2	Connector for Miller®
	Copper nozzle 3/8"					
	Copper nozzle 3/4"					
	Copper nozzle 17/32"					
110	Copper nozzle 1/2"					
111	Copper nozzle 5/8"					
112	Copper nozzle 3/4"					
120	Insulator					
Steel	10FT 023"-030"	43010	43010			
	15FT 023"-030"	43015	43015			
	10FT 030"-045"	43110*	43110*			
	15FT 030"-045"	43115	43115			
	10FT 045""-1/16"					
	15FT 045""-1/16"					
Teflon	15FT 035"-045"	43115X	43115X			
	15FT 045""-1/16"	44215X	44215X			

## ESB Series

## BTPSF250/305/405/505/410W/510W



Model	OEM p/n	Description	Model	OEM p/n	Description
BTPSF250	368 100 882	3.0M c/w Euro Fitting	BTPSF505	458 401 884	3.0M c/w Euro Fitting
	368 100 883	4.5M c/w Euro Fitting		458 401 885	4.5M c/w Euro Fitting
BTPSF305	458 401 880	3.0M c/w Euro Fitting	BTPSF410W	458 400 882	3.0M c/w Euro Fitting
	458 401 881	4.5M c/w Euro Fitting		458 400 883	4.5M c/w Euro Fitting
BTPSF405	458 401 882	3.0M c/w Euro Fitting	BTPSF510W	458 400 884	3.0M c/w Euro Fitting
	458 401 883	4.5M c/w Euro Fitting		458 400 885	4.5M c/w Euro Fitting

Wear Parts	Welding Torch	BTPSF 160	BTPSF 250	BTPSF 305/410W	BTPSF 405/510W	BTPSF 505
SWAN NECK Self cooled PSF 160 - 505	Acc. 0 Std. 45 Acc. 60	0366 324 880	0469 329 880 0366 315 880 0467 985 880	0469 333 880 0366 388 880 0467 988 881	0469 334 880 0366 389 880 0467 988 880	0469 335 880 0366 390 880 0467 989 880
SWAN NECK Water cooled PSF 410W - 510W	Acc. 0 Std. 45 Acc. 60			0458 403 886 0458 403 884	0458 403 887 0458 403 882	
GAS NOZZLE Self / water cooled Threaded	Tapered Std. Straight	0458 465 880 0458 464 880	0458 465 881 0458 464 881 0458 470 881	0458 465 882 0458 464 882 0458 470 882	0458 465 883 0458 464 883 0458 470 883	0458 465 884 0459 464 884 0458 470 884
SPATTER PROTECTION Self / water cooled gas nozzle		0458 471 001	0458 471 002	0458 471 003	0458 471 004	0458 471 005
SPOT WELDING ACCESSORY Self and water cooled		0366 643 880	0366 643 881	0366 643 882	0366 643 883	0366 643 884
TIP ADAPTOR Self-cooled	M6 M8 M7 HELIX™ M6	0469 249 001 - - -	0366 314 001 0368 310 001 0366 364 002	0366 394 001 0368 394 002 0366 394 002	0366 394 001 0368 311 001 0366 394 002	0366 395 001 0368 312 001 0366 395 001
CO <sub>2</sub> Mix/Ar	0.8 - 0.6 0.8 0.9 1.0 0.9 1.2 1.0 1.2 1.4 1.2 1.6 - 1.6 - 2.0 2.0 2.4	0468 500 001 0468 500 002 0468 500 003* 0468 500 004 0468 500 005* 0468 500 007* 0468 500 007* 0468 500 008* 0468 500 009 0468 500 010	0468 500 001 0468 500 002 0468 500 003* 0468 500 004 0468 500 005* 0468 500 007* 0468 500 007* 0468 500 008* 0468 500 009 0468 500 010	0468 500 001 0468 500 002 0468 500 003* 0468 500 004 0468 500 005* 0468 500 007* 0468 500 007* 0468 500 008* 0468 500 009 0468 500 010	0468 502 003* 0468 502 004 0468 502 005* 0468 502 007* 0468 502 008* 0468 502 009 0468 502 010 0468 502 011 0468 502 012	0468 502 003* 0468 502 004 0468 502 005* 0468 502 007* 0468 502 008* 0468 502 009 0468 502 010 0468 502 011 0468 502 012
CONTACT TIP M6 x 27 CuCrZr Shielding gas	0.8 - 0.6 0.8 0.9 1.0 0.9 1.2 1.0 1.2 1.4 1.2 1.6 - 1.6 - 2.0 2.0 2.4	3 m/4.5 m	3 m/4.5 m	3 m/4.5 m	3 m/4.5 m	3 m/4.5 m
CONTACT TIP M8 x 37 CuCrZr Shielding gas	0.9 - 0.8 0.9 1.0 1.2 1.0 1.4 1.2 1.6 1.6 - 1.6 - 2.0 2.0 2.4	0366 549 882/883	0366 549 882/883 0366 549 884/885 0366 549 886/887 0366 549 888/889 0366 549 890/891	0366 549 882/883 0366 549 884/885 0366 549 886/887 0366 549 888/889 0366 549 890/891	0366 549 882/883 0366 549 884/885 0366 549 886/887 0366 549 888/889 0366 549 890/891	0366 549 882/883 0366 549 884/885 0366 549 886/887 0366 549 888/889 0366 549 890/891
LINER Steel liner for non-alloyed and coated wires	0.6 - 0.8 0.9 - 1.0 1.2 1.4 1.6 1.8 - 2.0 2.4	0366 550 880/881	0366 550 880/881	0366 550 882/883 0366 550 884/885 0366 550 886/887 0366 550 888/889 0366 550 890/891 0366 550 892/893	0366 550 882/883 0366 550 884/885 0366 550 886/887 0366 550 888/889 0366 550 890/891 0366 550 892/893	0366 550 882/883 0366 550 884/885 0366 550 886/887 0366 550 888/889 0366 550 890/891 0366 550 892/893
LINER Teflon liner for Fe, Ss, Al	0.6 0.8 0.9 - 1.0 1.2 1.4 1.6 1.8 2.0 2.4	-	-	-	0366 550 884/895	0366 549 894/895
When welding Aluminium the wear insert should be changed to a carbon-tellfons type.	0.6 - 0.8 1.0 - 1.2 1.4 - 1.6	0457 969 880/881 0457 969 882/883 0457 969 884/885	0457 969 880/881 0457 969 882/883 0457 969 884/885	0457 969 880/881 0457 969 882/883 0457 969 884/885	0457 969 882/883 0457 969 884/885	0457 969 882/883 0457 969 884/885

## TWC Series

### No.1

Rating: 180A/CO<sub>2</sub>, 125A/Mixed Gas, Duty Cycle: 60%, Wire Diameter: 0.6-1.2mm



Complete Torch

10ft	12ft	15ft	Description
TWC1-10E	TWC1-12E	TWC1-15E	c/w Euro Fitting
TWC1-10T	TWC1-12T	TWC1-15T	c/w Tweco Fitting

Part No.	Description (Wear parts)
A 21-37	Nozzle Self insulated 3/8" mm Bore
21-50*	Nozzle Self insulated 1/2" mm Bore
21-62	Nozzle Self insulated 5/8" mm Bore
B 11-23	Contact Tips .023" mm Ecu
11-30*	Contact Tips .030" mm Ecu
11-40	Contact Tips .040" mm Ecu
11-45	Contact Tips .045" mm Ecu
C 42-3035-15*	Liner Conduit .030"-.035" 15ft
42N-3035-15	Nylon Conduit .030"-.035" 15ft
42-4045-15	Liner Conduit .040"-.045" 15ft

No.	Part No.	Description
1	51*	Gas Diffuser for .030"-.035" wire
2	51-23	Gas Diffuser for .023" wire
2	61-45	45° Conductor Tube
2	61-60*	60° Conductor Tube
3	71	Insulation Sleeve
4	61R	Retaining Nut
5	101	Cable Connector
6	T5044	Hose Clamp 18.5
7	T8011S	Spring Cable Support
8	T1521	Control Wire Terminals
9	100-10E	Cable Assembly x10ft Euro fitting
10	100-12E	Cable Assembly x12ft Euro fitting
11	100-15E	Cable Assembly x15ft Euro fitting
12	100-10	Cable Assembly x10ft Tweco fitting
13	100-12	Cable Assembly x12ft Tweco fitting
14	100-15	Cable Assembly x15ft Tweco fitting
10	81	Black Handle Caps
11	91C	Switch Blades
12	91	Trigger c/w switch blades
13	122FM	Screw Kit
14	T1522	Cable Terminal Male
15	T1542	Lock Nut
16	T2841	Spring Cable Support
17	X6RC	Gun Plug Housing c/w Nut
18	4M-5	Gun Plug Screw
19	174X-2	Gun plug Nut c/w Insert
20	35-350-1	Cable Terminal female
21	174EX-1	Euro Gun Plug Body
	T1575	Tweco Gun Plug Body

**TWC Series**
**No.2**

 Rating: 200A/CO<sub>2</sub>, 150A/Mixed Gas, Duty Cycle: 60%, Wire Diameter: 0.6-1.2mm

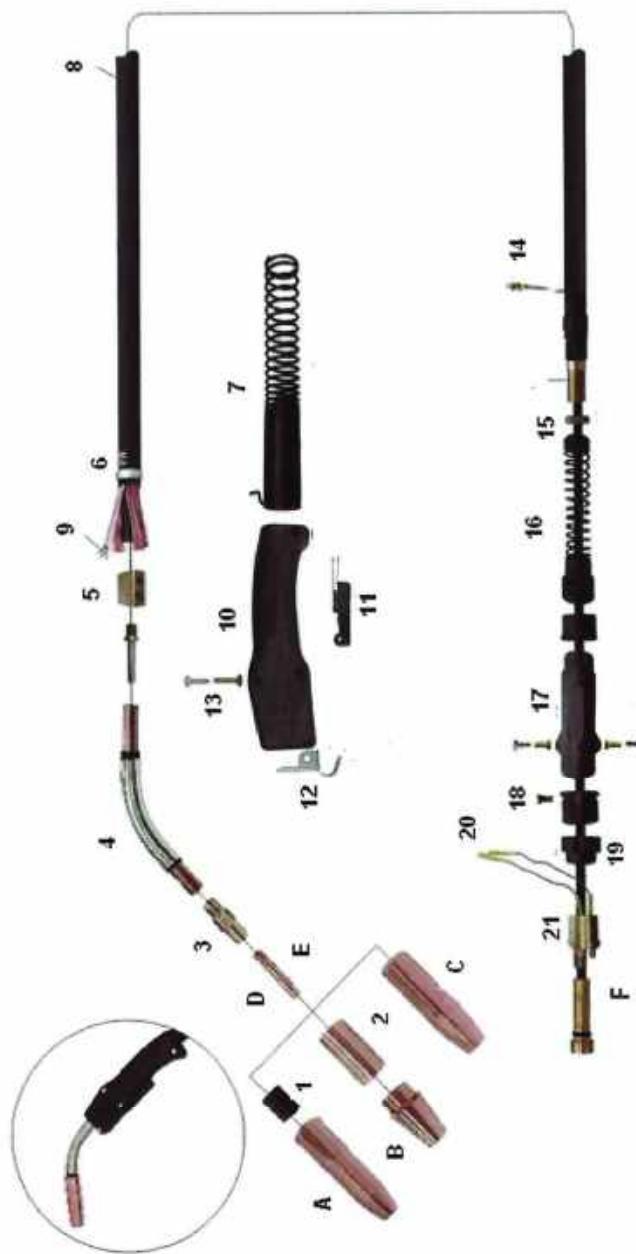

Complete Torch		
10ft	12ft	15ft
TWC2-10E	TWC2-12E	TWC2-15E
TWC2-10T	TWC2-12T	TWC2-15T

Description		
10ft	12ft	15ft
c/w Euro Fitting	c/w Euro Fitting	c/w Tweco Fitting
TWC2-10T	TWC2-12T	TWC2-15T

No.	Part No.	Description
1	32*	Adjustable Nozzle Insulator
2	34CT	Nozzle Insulator Coarse Thread
3	52*	Gas Diffuser
4	52FN	Gas Diffuser for Coarse Thread Nozzle Insulator
5	62A4S	45° Conductor Tube
6	6260	60° Conductor Tube
7	102	Black c/w spacer&screws
8	T8011S	Spring Calibe Support
9	244T	Control wire terminals
10	20-10E	Cable Assembly 10ft Euro fitting
11	20-12E	Cable Assembly 12ft Euro fitting
12	20-15E	Cable Assembly 15ft Euro fitting
13	20-10E	Cable Assembly 10ft Tweco fitting
14	20-12	Cable Assembly 12ft Tweco fitting
15	20-15	Cable Assembly 15ft Tweco fitting
16	B82BJ	Handle c/w screws
17	B92	Trigger Switch
18	152	Hanger Hook
19	12FMS	Screw Kit
20	T1522	Cable Terminal Male
21	T1542	Lock Nut
22	T2841	Spring Cable Support
23	X6RC	Gun Plug Housing c/w Nut
24	4M-S	Gun Plug Screw
25	174X-2	Gun plug Nut c/w Insert
26	35-350-1	Cable Terminal female
27	174EX-1	Euro Gun Plug Body
28	T1575	Tweco Gun Plug Body

## TWC Series No.3

Rating: 300A/CO<sub>2</sub>, 250A/Mixed Gas, Duty Cycle: 60%, Wire Diameter: 0.8-1.6mm



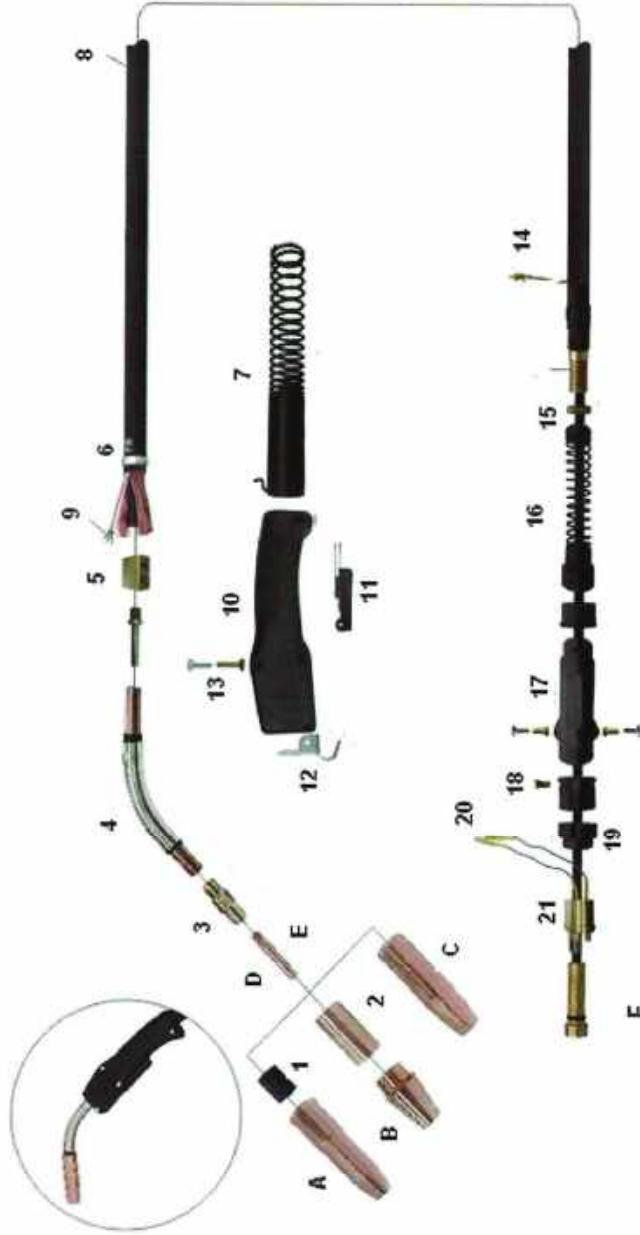
### Complete Torch

Part No.	Description	Part No.	Description
10ft 12ft 15ft	15ft Description	1 34A*	Ajustable Nozzle Insulator
TWC3-10E TWC3-12E	TWC3-15E c/w Euro Fitting	2 34CT	Nozzle Insulator Coarse Thread
TWC3-10T TWC3-12T	TWC3-15T c/w Tweeco Fitting	3 54A*	Gas Diffuser
		4 6345	45° Conductor Tube
		63360*	60° Conductor Tube
		5 102	Black c/w spacer &screws
		6 132-12	Cable Clamp
		7 T80115	Spring Calbe Support
		8 300-10E	Cable Assemblyx10ft Euro fitting
		9 300-12E	Cable Assemblyx12ft Euro fitting
		10 300-15E	Cable Assemblyx15ft Euro fitting
		11 300-10E	Cable Assemblyx10ft Tweeco fitting
		12 300-12	Cable Assemblyx12ft Tweeco fitting
		13 300-15	Cable Assemblyx15ft Tweeco fitting
		14 244T	Control wire Terminals
		15 882B1	Handle c/w screws
		16 892	Trigger Switch
		17 152	Hanger Hook
		18 122FM	Screw Kit
		19 T1522	Cable Terminal Male
		20 T1542	Lock Nut
		21 T8026	Spring Cable Support
		22 X6RC	Gun Plug Housing c/w Nut
		23 4M-5	Gun Plug Screw
		24 174X-2	Gun plug Nut c/w Insert
		25 35-350-1	Cable Terminal Female
		26 174EX-1	Euro Gun Plug Body
		27 T1575	Tweeco Gun Plug Body
		28 44N-116-15	Nylon Conduit 045° 15ft
		29 44N-3545-15	Nylon Conduit 1/16" 15ft
		30 44N-116-15	Nylon Conduit 1/16" 15ft

## TWC Series

## No.4

Rating: 400A/CO<sub>2</sub>, 350A/Mixed Gas, Duty Cycle: 60%, Wire Diameter: 0.8-2.0mm



### Complete Torch

10ft 12ft 15ft Description

TWC4-10E	TWC4-12E	TWC4-15E	c/w Euro Fitting
TWC4-10T	TWC4-12T	TWC4-15T	c/w Tweco Fitting

No. Part No. Description

1	34A*	Ajustable Nozzle Insulator
2	34CT	Nozzle insulator Coarse Thread
3	5AA*	Gas Diffuser
4	6A45	45° Conductor Tube
5	6A160*	60° Conductor Tube
6	102	Black c/w spacer&screws
7	132-12	Cable Clamp
8	78019S	Spring Cable Support
9	400-10E	Cable Assemblyx1.0ft Euro fitting
10	400-12E	Cable Assemblyx1.2ft Euro fitting
11	400-15E	Cable Assemblyx1.5ft Euro fitting
12	400-10F	Cable Assemblyx1.0ft Tweco fitting
13	400-12	Cable Assemblyx1.2ft Tweco fitting
14	400-15	Cable Assemblyx1.5ft Tweco fitting
15	24T	Control wire Terminals
16	B82BJ	Handle c/w screws
17	B92	Trigger Switch
18	154	Hanger Hook
19	122FM	Screw Kit
20	T1522	Cable Terminal Male
21	T1542	Lock Nut
22	T8026	Spring Cable Support
23	X6RC	Gun Plug Housing c/w Nut
24	4M-S	Gun Plug Screw
25	174X-2	Gun plug Nut c/w Insert
26	35-350-1	Cable Terminal female
27	174EX-1	Euro Gun Plug Body
28	T1575	Tweco Gun Plug Body

## TWC Series

### No.5

Rating: 500A/CO<sub>2</sub>, 400A/Mixed Gas, Duty Cycle: 60%, Wire Diameter: 1.0-2.4mm



#### Complete Torch

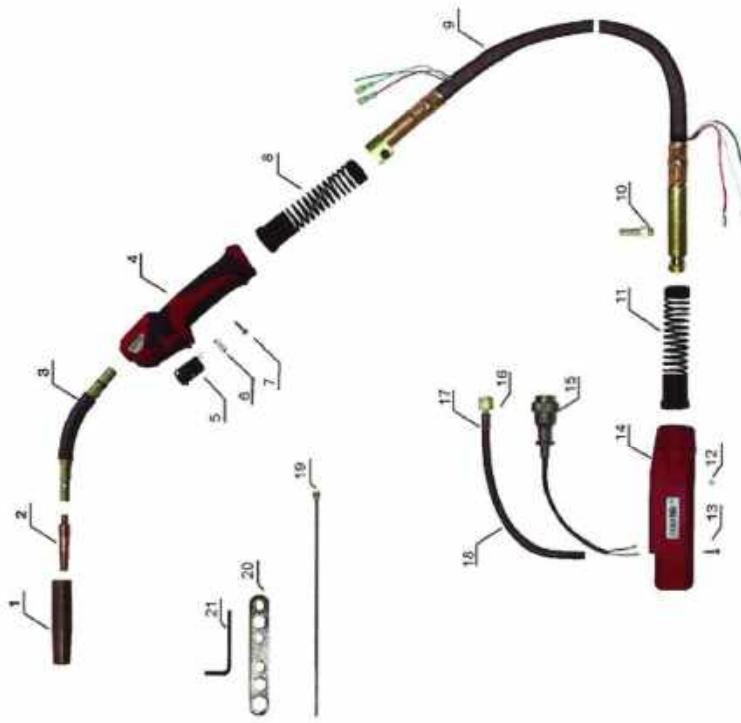
Part No.	Description
A 25CT-50	Fixed Coarse Thread 1/2"mm Bore
25CT-62*	Fixed Coarse Thread 5/8"mm Bore
25CT-75	Fixed Coarse Thread 3/4"mm Bore
B 15H-40	Contact Tips .040"mm Ecu
15H-45	Contact Tips .045"mm Ecu
15H-52	Contact Tips .052"mm Ecu
15H-116*	Contact Tips 1/16"mm Ecu
15H-564	Contact Tips 5/64"mm Ecu
15H-332	Contact Tips 3/32"mm Ecu
15HFC-40	Contact Tips .040"mm Ecu Flux Cored
15HFC-45	Contact Tips .045"mm Ecu Flux Cored
15HFC-116	Contact Tips 1/16"mm Ecu Flux Cored
15HFC-564	Contact Tips 5/64"mm Ecu Flux Cored
C 44-3545-15	Liner Conduit .035"-.045" 15ft
44-116-15*	Liner Conduit 1/16" 15ft
44-564-15	Liner Conduit 5/64" 15ft
44N-3545-15	Nylon Conduit 045" 15ft
44N-116-15*	Nylon Conduit 1/16" 15ft
45-3545-15	Liner Conduit .035"-.045" 15ft
45-116-15*	Liner Conduit 1/16" 15ft Tweco End
45-564-15	Liner Conduit 5/64" 15ft Tweco End
45-332-15	Liner Conduit 3/32" 15ft Tweco End

No. Part No.	Description
1 35CT*	Nozzle insulator Coarse Thread
2 55SW*	Gas Diffuser 5/64"
55	Gas Diffuser 3/32"
55H	Gas Diffuser 1/16"
3 65J45	45° Conductor Tube
65J60*	60° Conductor Tube
4 104	Black c/w spacer&screws
5 T549	Cable Clamp
6 T8019S	Spring Cable Support
7 244T	Control Wire Terminals
8 500-10E	Cable Assemblyx10ft Euro fitting
500-12E	Cable Assemblyx12ft Euro fitting
500-15E	Cable Assemblyx15ft Euro fitting
500-10E	Cable Assemblyx10ft Tweco fitting
500-12	Cable Assemblyx12ft Tweco fitting
500-15	Cable Assemblyx15ft Tweco fitting
9 B828J	Handle c/w screws
10 B92	Trigger Switch
11 154	Hanger Hook
12 122FM	Screw Kit
13 T1522	Cable Terminal Male
14 T1542	Lock Nut
15 T8026	Spring Cable Support
16 X6RC	Gun Plug Housing c/w Nut
17 4M-S	Gun Plug Screw
18 174X-2	Gun plug Nut c/w Insert
19 35-350-1	Cable Terminal female
20 174EX-1	Euro Gun Plug Body
T1575	Tweco Gun Plug Body

## PNA Series

## P180

Technical data	
Cooling	Gas Cooled
Rating	180A CO <sub>2</sub> , 150A Mix Gas
Duty Cycle	60%
Wire Dia.	0.6-10mm

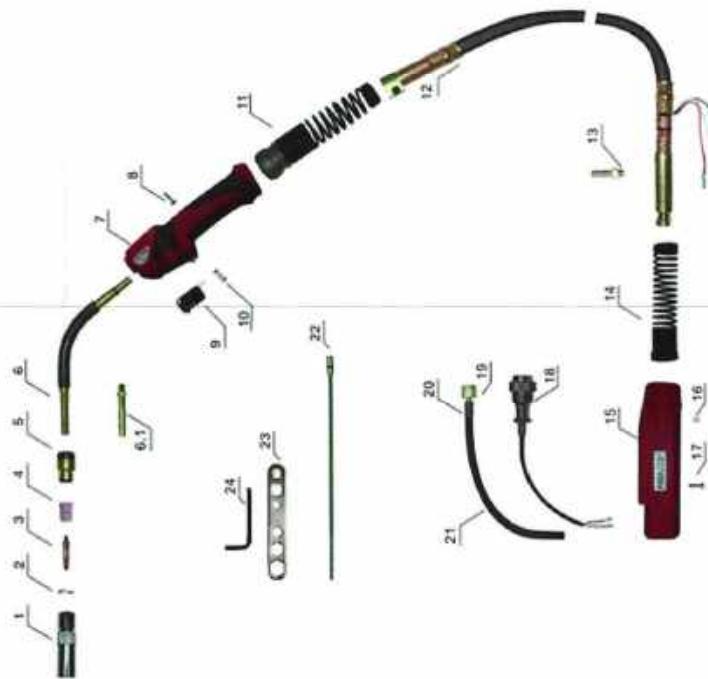
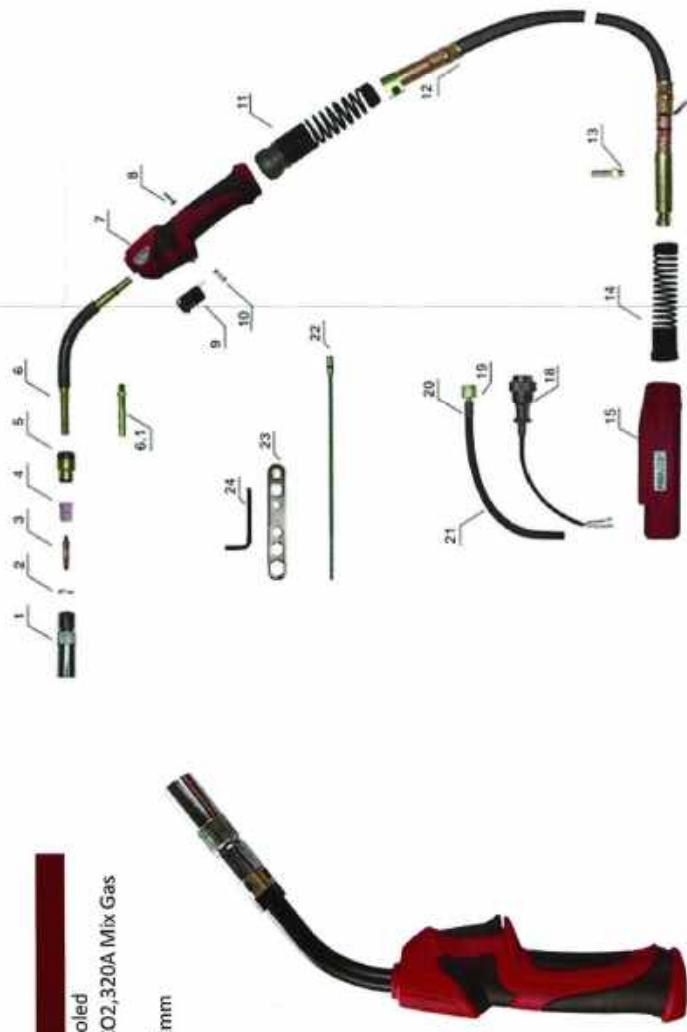


No.	Code	Description	No.	Code	Description
P18030	P180 torch 3m	8	P9041	Spring cable support	
P18040	P180 torch 4m	9	PC18030	Coaxial cable assembling/3m,P180	
P18050	P180 torch 5m		PC18040	Coaxial cable assembling/4m,P180	
1	TGN01208	Conical Nozzle P180	PC18050	Coaxial cable assembling/5m,P180	
2	TE00624E	Contact tip Ø0.6mm/M6x45mm,ECU	10	P9021	Gas connector for MIG torch
TE00841E*	Contact tip Ø0.8mm/M6x45mm,ECU	11	P9022	Spring cable support	
TE00958E	Contact tip Ø0.9mm/M6x45mm,ECU	12	P9023	Nut M4	
TE01054E	Contact tip Ø1.0mm/M6x45mm,ECU	13	P9024	Screw M4x20	
TE01266E	Contact tip Ø1.2mm/M6x45mm,ECU	14	P9025	Back box for torch	
TE00624C	Contact tip Ø0.6mm/M6x45mm,CuCrZr	15	P9026	Connector 2 holes/with connectors	
TE00841C	Contact tip Ø0.8mm/M6x45mm,CuCrZr	16	P9027	Connector with hexagonal nut9/16-18	
TE00958C	Contact tip Ø0.9mm/M6x45mm,CuCrZr	17	P9028	Spring for gas tube	
TE01054C	Contact tip Ø1.0mm/M6x45mm,CuCrZr	18	P9029	EPDM tube 5x10 300mm	
TE01266C	Contact tip Ø1.2mm/M6x45mm,CuCrZr	19	PL18030	Insulated steel line 0.8-1.0 3.4m	
3	TCU2011	Swan Neck P180	PL18040	Insulated steel liner 0.8-1.0 4.4m	
4	P1809001	MIG handle P180	PL18050	Insulated steel liner 0.8-1.0 5.4m	
5	P9055	Switch for P180	20	P9031	Spanner for MIG torches
6	P9051	Spring for switch	21	P9032	Spanner for MIG torches
7	P9031	Screw M3x10mm			

## PNA Series

### P350

Technical data	
Cooling	Gas Cooled
Rating	350A CO <sub>2</sub> ,320A Mix Gas
Duty Cycle	60%
Wire Dia.	0.8-1.2mm



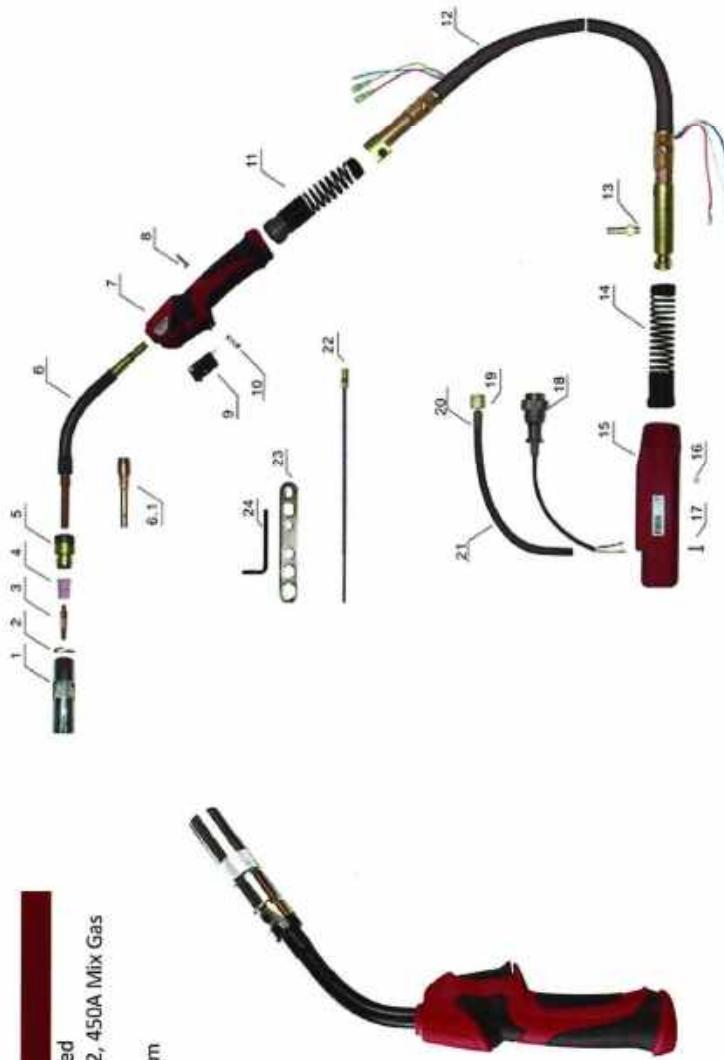
No.	Code	Description	No.	Code	Description
P35030	P350 torch 3m	9	P9055	Switch for MIG/PAN	
P35040	P350 torch 4m	10	P9051	Spring for switch/PAN	
P35050	P350 torch 5m	11	P9041	Joint with spring	
1	TGN01610	Cylindrical Nozzle P350	12	PC35030	Coaxial cable assembling/3m,P350
2	P35001	Grover M21mm	PC35040	Coaxial cable assembling/4m,P350	
3	TE00841E	Contact tip Φ0.8mm/M6x45mm,ECU	PC35050	Coaxial cable assembling/5m,P350	
	TE00958E	Contact tip Φ0.9mm/M6x45mm,ECU	13	P9021	Gas connector for MIG torch/PAN
	TE01054E*	Contact tip Φ1.0mm/M6x45mm,ECU	14	P9022	Spring cable support
	TE01266E	Contact tip Φ1.2mm/M6x45mm,ECU	15	P9025	Back box
	TE00841C	Contact tip Φ0.8mm/M6x45mm,CuCrZr	16	P9023	Nut M4
	TE00958C	Contact tip Φ0.9mm/M6x45mm,CuCrZr	17	P9024	Screw M4x22mm
	TE01054C	Contact tip Φ1.0mm/M6x45mm,CuCrZr	18	P9026	Connector 2 holes
	TE01266C	Contact tip Φ1.2mm/M6x45mm,CuCrZr	19	P9027	Connector with hexagonal nut 9/16-18
4	TRG01001	Ceramic diffuser P350	20	P9028	Spring for gas tube
5	TF235101	Insulator P350	21	P9029	EPDM tube φ5x10mm 300mm
6	TCU35022	Swan Neck P350,Complete type	22	P35030	Steel liner Φ1.0-1.2mm/3m
	TSM06357	Swan Neck P350,Separate type	P35040	Steel liner Φ1.0-1.2mm/4m	
6.1	P35002	Swan Neck front part P350	P35050	Steel liner Φ1.0-1.2mm/5m	
7	P359004	MIG handle P350/500	23	P9031	Spanner for MIG torches
8	P9031	Screw M3x10mm	24	P9032	Spanner for PAN torch

## PNA Series

## P500

Technical data:

Cooling	Gas Cooled
Rating	SODA CO <sub>2</sub> , 450A Mix Gas
Duty Cycle	60%
Wire Dia.	0.8-1.6mm



No.	Code	Description	No.	Code	Description
P50030		P500 torch 3m	9	P9055	Switch for MIG/PAN
P50040		P500 torch 4m	10	P9051	Spring for switch/PAN
P50050		P500 torch 5m	11	P9041	Joint with spring
1	TGN00014	Cylindrical Nozzle P500	12	PC50030	Coaxial cable assembling/3m,P500
2	P50001	Grower M25mm	PC50040		Coaxial cable assembling/4m,P500
3	TET01054E	Contact tip φ1.0mm/M6x45mm,ECU	PC50050		Coaxial cable assembling/5m,P500
TET01266E*		Contact tip φ1.2mm/M6x45mm,ECU	13	P9021	Gas connector for MIG torch/PAN
TET01433E		Contact tip φ1.4mm/M6x45mm,ECU	14	P9022	Spring cable support
TET01676E		Contact tip φ1.6mm/M6x45mm,ECU	15	P9025	Back box
TET01054C		Contact tip φ1.0mm/M6x45mm,CuCrZr	16	P9023	Nut M4
TET01266C		Contact tip φ1.2mm/M6x45mm,CuCrZr	17	P9024	Screw M4x22mm
TET01433C		Contact tip φ1.4mm/M6x45mm,CuCrZr	18	P9026	Connector 2 holes
TET01676C		Contact tip φ1.6mm/M6x45mm,CuCrZr	19	P9027	Connector with hexagon nut9/16-18
4	TGR00902	Ceramic diffuser P500	20	P9028	Spring for gas tube
5	TZF50107	Insulator P500	21	P9029	EPDM tube Φ5x10mm 300mm
6	TCX00006	Torch head P500 ,Complete type	22	P50040	Steel liner Φ1.2-1.6mm/3m
	TSM04708	Torch head P500,Separate type	P50040		Steel liner Φ1.2-1.6mm/4m
6.1	P50002	Torch head front part P500	P50050		Steel liner Φ1.2-1.6mm/5m
7	P350004	MIG handle P350/500	23	P9031	Spanner for MIG torches
8	P9031	Screw M3x10mm	24	P9032	Spanner for PAN torch

## Fronius Series

### Replacement Parts Compatible with Fronius

Part No.	Description	Part No.	Description
42.0001.1576	Contact Tip 0.8mm	42.0001.5172	Nozzle Ø17
42.0001.3277	Contact Tip 0.9mm	42.0001.5173	Nozzle Ø12
42.0001.1577	Contact Tip 1.0mm	42.0001.5174	Nozzle Ø10
42.0001.1578	Contact Tip 1.2mm	42.0001.6010	Nozzle Ø12
42.0001.1930	Contact Tip 1.4mm	42.0001.5151	Nozzle Ø11
42.0001.1579	Contact Tip 1.6mm	42.0001.5269	Nozzle Ø15
42.0001.2314	Contact Tip 1.8mm	42.0001.5619	Nozzle Ø13
42.0001.1662	Contact Tip 2.0mm	42.0001.5821	Nozzle Ø17
42.0001.1663	Contact Tip 2.4mm	42.0001.5128	Nozzle Ø17
42.0001.1664	Contact Tip 2.8mm	42.0001.5129	Nozzle Ø15
42.0001.5413	Contact Tip 3.2mm	42.0001.5607	Nozzle Ø17
42.0001.5405	Contact Tip 0.9mm	42.0001.5127	Nozzle Ø20
42.0001.5057	Contact Tip 1.0mm	42.0001.5096	Nozzle Ø13
42.0001.5289	Contact Tip 1.0mm	42.0001.5130	Nozzle Ø17
42.0001.5058	Contact Tip 1.2mm	44.0350.0660	Nozzle Ø13.5
42.0001.5005	Contact Tip 1.2mm	42.0001.1718	Tip Holder
42.0001.5059	Contact Tip 1.4mm	42.0001.5084	Tip Holder
42.0001.5060	Contact Tip 1.6mm	42.0001.5122	Tip Holder
42.0001.5061	Contact Tip 1.8mm	42.0100.1007	Gas diffuser
		42.0100.0174	Gas diffuser
42.0001.2911	Contact Tip 0.8mm	42.0001.5171	Spring
42.0001.3082	Contact Tip 0.9mm	42.0001.2930	Spring
42.0001.2912	Contact Tip 1.0mm	42.0001.2970	Spring
42.0001.2913	Contact Tip 1.2mm	42.0100.0225	Insulator
42.0001.5082	Contact Tip 0.8mm	42.0100.1014	Insulator
42.0001.5051	Contact Tip 1.0mm	42.0100.1018	Insulator
42.0001.5052	Contact Tip 1.2mm	42.0100.1010	Insulator
42.0001.5053	Contact Tip 1.4mm	42.0100.1016	Insulator
42.0001.3485	Contact Tip 1.6mm	34.0350.1875	Gooseneck
		34.0350.1876	Gooseneck
42.0001.0052	Contact Tip 0.6mm	34.0350.1771	Gooseneck
42.0001.0053	Contact Tip 0.8mm	34.0350.1812	Gooseneck
42.0001.3276	Contact Tip 0.9mm	34.0350.1822	Gooseneck
42.0001.0054	Contact Tip 1.0mm	34.0350.1820	Gooseneck
42.0001.0055	Contact Tip 1.2mm	34.0350.0871	Gooseneck
42.0001.1929	Contact Tip 1.4mm	34.0350.1857	Gooseneck
42.0001.0056	Contact Tip 1.6mm	34.0350.1859	Gooseneck
42.0001.1373	Contact Tip 0.8mm		
42.0001.1391	Contact Tip 1.0mm		
42.0001.1392	Contact Tip 1.2mm		
42.0001.1393	Contact Tip 1.6mm		

## KMP Series

## Replacement Parts Compatible with KMP

Stock Code	Description	Bare	Model
9580101	Conical Nozzle	14mm/.55"	MT 18,25,KMG 20,25
9591010	Nozzle Insulator	N/A	
4294970	Conical Nozzle (M6)	14mm/.55"	PMT 27,32,30W
4295760	Conical Nozzle (M8)	14mm/.55"	PMT 27,32,30W
4273510	Conical Nozzle	12.5mm/.49"	PMT 30,40,50
4255530	Cylindrical Nozzle	16mm/5/8"	30,40,50
4248710	Nozzle Insulator	N/A	
4259120	Cylindrical Nozzle	16mm/5/8"	MT 32,KMG 32
Stock Code	Description	Wire Size	Model
9876634	Contact Tip	0.6mm/.023"	ECu
9876635	Contact Tip	0.8mm/.030"	ECu
9876633	Contact Tip	0.9mm/.035"	ECu
9876636	Contact Tip	1.0mm/.040"	ECu
9876637	Contact Tip	1.2mm/.045"	ECu
9876639	Contact Tip	1.6mm/1/16"	ECu
9580122	Contact Tip	0.8mm/.030"	ECu
9580121	Contact Tip	0.9mm/.035"	ECu
9580123	Contact Tip	1.0mm/.040"	ECu
9580124	Contact Tip	1.2mm/.045"	ECu
9580124A	Contact Tip Al Wire	1.2mm/.045"	ECu
9580125	Contact Tip	1.4mm/.055"	ECu
9580126	Contact Tip	1.6mm/1/16"	ECu
4266880	Short Contact Tip	0.8mm/.030"	ECu
4266890	Short Contact Tip	1.0mm/.040"	ECu
4266900	Short Contact Tip	1.2mm/.045"	ECu
4266910	Short Contact Tip	1.4mm/.055"	ECu
4266920	Short Contact Tip	1.6mm/1/16"	ECu
4266930	Short Contact Tip	2.0mm/5/64"	ECu
4266940	Short Contact Tip	2.4mm/3/32"	ECu
4266830	Short Contact Tip	0.8mm/.030"	ECu
4266840	Short Contact Tip	1.0mm/.040"	ECu
4266850	Short Contact Tip	1.2mm/.045"	ECu
4266860	Short Contact Tip	1.4mm/.055"	ECu
4266870	Short Contact Tip	1.6mm/1/16"	ECu
Stock Code	Description	Tip Thread	Neck Thread
9580173	Tip Adaptor M8	M6	M9
4295740	Tip Adaptor M8	M8	M8x1
4294890	Tip Adaptor M6	M6	
4.27E+08	Tip Adaptor M8	M8	M11x1
4255420	Tip Adaptor M8	M8	M10x1
4255421	Tip Adaptor M8	M8	M10x1
Stock Code	Description	Model	Model
4294880	Gas Diffuser	PMT27,32,30W	
9591079	Insulating Ring	25	
4270290	Insulating Ring	MT 40,PMT 30-50	



**SPS**  
POWERFUL IN WELD-CUT

## Miller Series

### Replacement Parts Compatible with Miller

Part No.	Description	Part No.	Description
087-299	Contact tip .023"- .025"	050-115	Nozzle 1/2"
000-067	Contact tip .030"	050-116	Nozzle 13/16"
000-068	Contact tip .035"	050-622	Nozzle 5/8"
000-069	Contact tip .045"	049-098	Nozzle 7/16"
172-034	Contact tip 3/64"	049-099	Nozzle 1/2"
044-392	Contact tip .052"	149-146	Nozzle 5/8"
172-024	Contact tip 1/16"	149147	Tapered nozzle 7/16"
172-025	Contact tip 5/64"	149-148	Nozzle 1/2"
		049-929	Nozzle 5/8"
087-300	Contact tip .023"- .025"	169-715	Nozzle 1/2" flush
071-825	Contact tip .030"	169-724	Nozzle 1/2" 1/8" recessed
054-202	Contact tip .035"	169-725	Nozzle 5/8" 1/8" recessed
054-201	Contact tip .045"	169-726	Nozzle 5/8" flush
044-006	Contact tip .052"	169-727	Nozzle 5/8", 1/8" stickout
047-566	Contact tip 1/16"	200-258	Nozzle 1/2", Flush
047-565	Contact tip 5/64"	176-243	Nozzle 3/8", tapered copper
		178-386	Nozzle 11/32" tapered brass 1/8" recessed
176-797	Contact tip tapered. 030"	047-957	Nozzle 5/8"
176-793	Contact tip tapered. 035"	047-959	Nozzle 17/32"
176-794	Contact tip tapered. 045"	169-729	Shock washer
045-356	Contact tip .045"	169-717	Shock washer
091-653	Contact tip .052"	169-729	Shock washer
009-709	Contact tip 1/16"	169-716	Tip adapter
090-922	Contact tip .068"- .072"	169-728	Tip adapter
052-055	Contact tip 5/64"	146-425	Tip adapter 030"- .045"
008-925	Contact tip 7/64"	146-426	Tip adapter 023"- .025"
008-926	Contact tip 3/32"	169-731	Gooseneck (use on M25 gun)
008-924	Contact tip 1/8"	169-718	Gooseneck (use on M10 gun)
136-171	Contact tip .025"S		
135-427	Contact tip .030"S		
135-428	Contact tip .030"A		
135-044	Contact tip .035"S		
147-314	Contact tip .035"S		
135-430	Contact tip .035"A		
135-429	Contact tip .045"S		
135-424	Contact tip .047"A		
135-426	Contact tip .062"S		
135-425	Contact tip .062"A		

## Tregaskiss Series

### Replacement Parts Compatible with Tregaskiss

Part No.	Description	Part No.	Description
403-23	Contact tip, .023"	401-4-38	Std. nozzle 3/8"
403-30	Contact tip, .030"	401-4-50	Std. nozzle 1/2"
403-35	Contact tip, .035"	401-4-62	Std. nozzle 5/8"
403-45	Contact tip, .045"	401-4-75	Std. nozzle 3/4"
403-52	Contact tip, .052"	401-14-50	Nozzle 1/2"
403-116	Contact tip, 1/16"	401-42-50	Std. nozzle 1/2"
		401-44-62	Nozzle 5/8"
403-1-30	H.D. contact tip, .030"	401-46-38	Nozzle 3/8"
403-1-35	H.D. contact tip, .035"	401-46-50	Nozzle 1/2"
403-1-40	H.D. contact tip, .040"	401-46-62	Nozzle 5/8"
403-1-45	H.D. contact tip, .045"	401-46-75	Nozzle 3/4"
403-1-364	H.D. contact tip, 3/64"	401-48-50	Nozzle 1/2"
403-1-52	H.D. contact tip, .052"	401-5-62	H. D. nozzle 5/8"
403-1-116	H.D. contact tip, 1/16"	401-5-75	Std. nozzle 3/4"
403-1-564	H.D. contact tip, 5/64"	401-6-50	H. D nozzle 1/2"
403-1-332	H.D. contact tip, 3/32"	401-6-62	H. D nozzle 5/8"
		401-6-75	H. D nozzle 3/4"
403-2-23	Tapered tip, .023"	401-7-62	Nozzle 5/8"
403-2-30	Tapered tip, .030"	401-7-87	Nozzle 7/8"
403-2-35	Tapered tip, .035"	401-8-62	Nozzle 5/8"
403-2-45	Tapered tip, .045"	451-81-62	Nozzle 5/8"
403-2-52	Tapered tip, .052"	451-8-62	Nozzle 5/8"
		451-87-62	Nozzle 5/8"
403-3-30	H.D. tapered tip, .030"	402-2	Shock washer
403-3-35	H.D. tapered tip, .035"	151-1-38	Nozzle 3/8"
403-3-40	H.D. tapered tip, .040"	151-1-50	Nozzle 1/2"
403-3-45	H.D. tapered tip, .045"	151-1-62	Nozzle 5/8"
403-3-52	H.D. tapered tip, .052"	402-5	H. D. shock washer
403-3-116	H.D. tapered tip, 1/16"	404	Standard gas diffuser
		404-1	H. D. gas diffuser
		402-3	Nozzle retainer
		404-3	H. D. Retaining head
		404-13	H. D. Retaining head w/set screw
		404-30	H. D. Retaining head
		305-45	Gooseneck 45°
		305-60	Gooseneck 60°
		405-45	Gooseneck 45°
		405-60	Gooseneck 60°
		505-45	Gooseneck 45°
		505-60	Gooseneck 60°

## ■ SR 17/18/26



Model	SR 17	SR 26	SR 18
Cooling	Gas Cooled	Gas Cooled	Water Cooled
Duty Cycle	35%	35%	100%
Rating	140A DC, 125A AC	180A DC, 150A AC	320A DC, 270A AC
Electrodes	0.5-2.4mm	0.5-4.0mm	0.5-4.0mm

## SR 17

Code	Description	Fit for
175W1-4M-M1615-2	SR 17, 4M, M16x1.5, 2pin	
175W1-8M-M1615-2	SR 17, 8M, M16x1.5, 2pin	CT-416

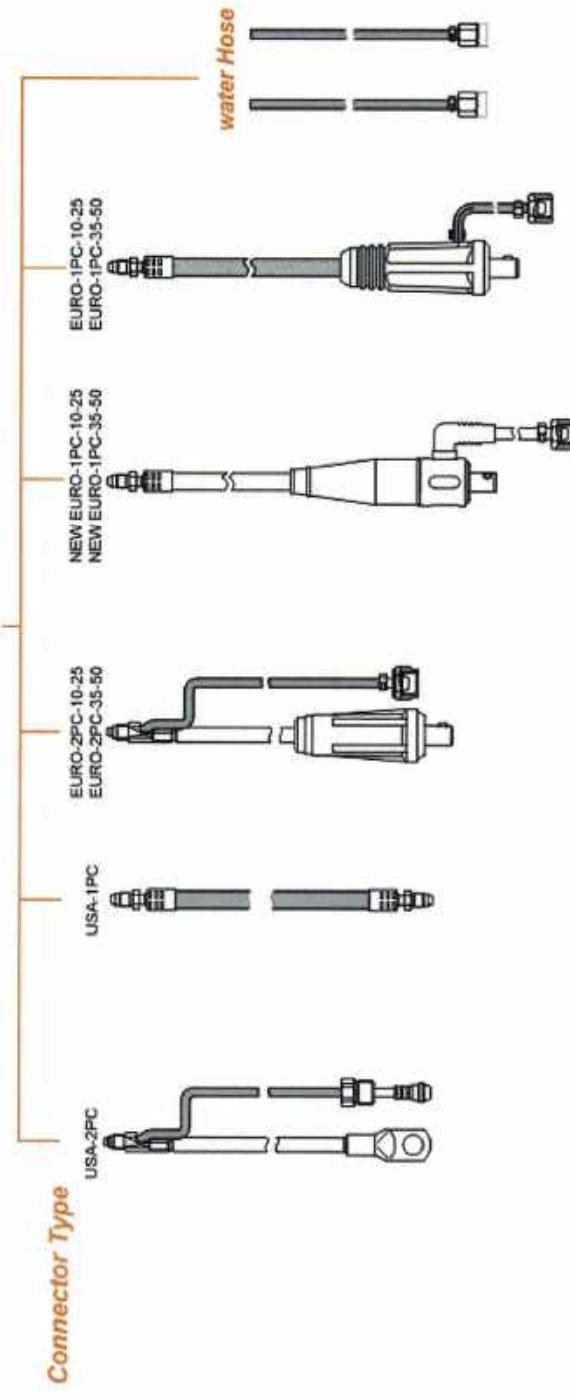
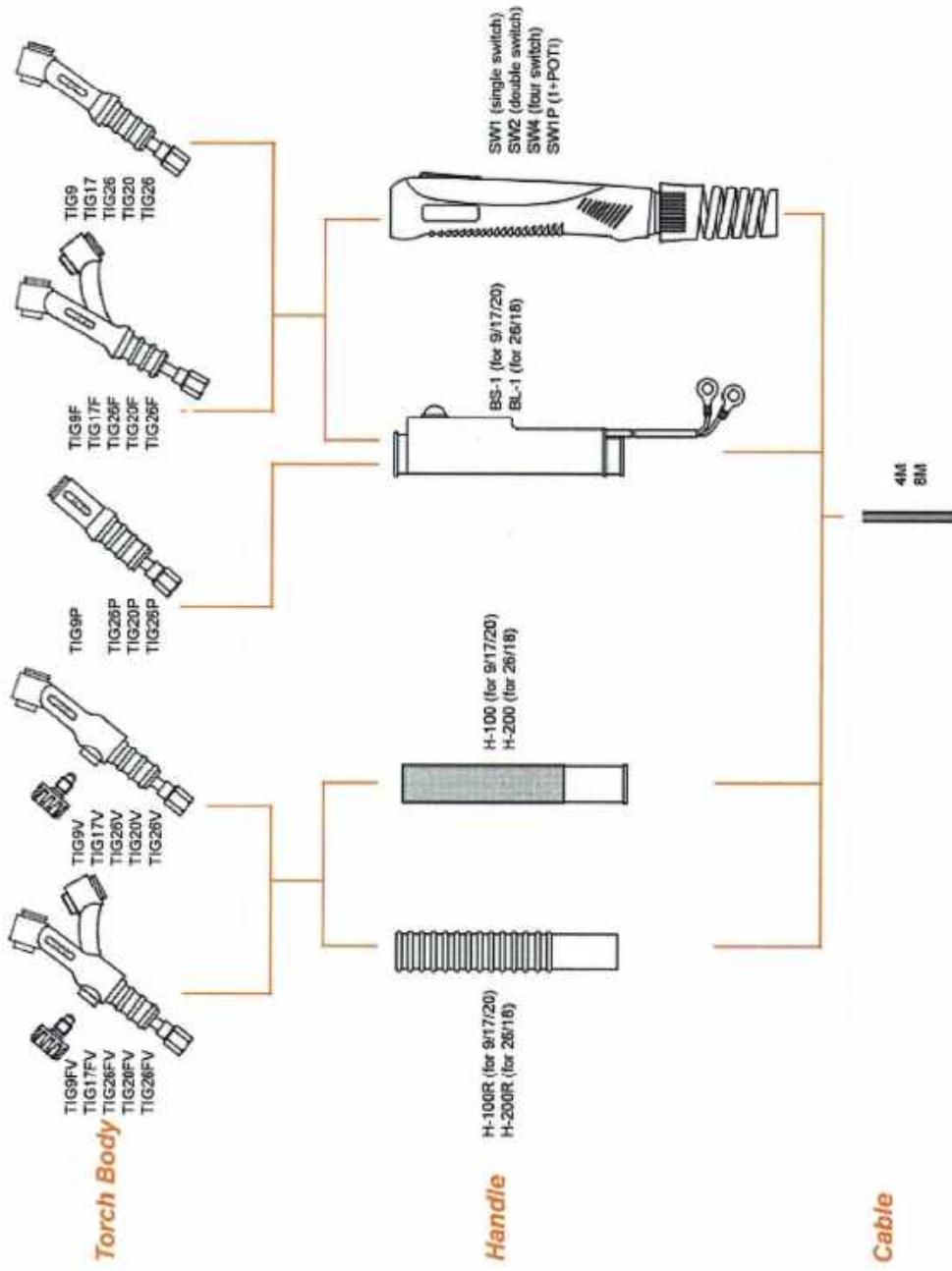
## SR 26

Code	Description	Fit for
265W1-4M-M1615-2	SR 26, 4M, M16x1.5, 2pin	TIG-200A, TIG-250A AC DC TIG-200P
265W1-8M-M1615-2	SR 26, 8M, M16x1.5, 2pin	SYN MIG-200M LCD
265W1-4M-35M1010	SR 26, 4M, SK-35,M10x1.0	
265W1-8M-35M1010	SR 26, 8M, SK-35,M10x1.0	
265W1-4M-35M1210-12	SR 26, 4M, SK-35,M12x1.0, 12pin	Digital TIG-200 Pulse
265W1-8M-35M1210-12	SR 26, 8M, SK-35,M12x1.0, 12pin	Digital TIG-200E AC/DC Pulse
265W1P-4M-35M1210-12	SR 26, 4M, SK-35,M12x1.0, 12pin, Potentiometer	Digital TIG-320 AC/DC Pulse
265W1P-8M-35M1210-12	SR 26, 8M, SK-35,M12x1.0, 12pin, Potentiometer	

## SR 18 (Water Cooled)

Code	Description	Fit for
18SW1-4M-35M1210-12	SR 18, 4M, SK-35,M12x1.0, 12pin	Digital TIG-200E AC/DC Pulse
18SW1-8M-35M1210-12	SR 18, 8M, SK-35,M12x1.0, 12pin	Digital TIG-320 AC/DC Pulse
18SW1P-4M-35M1210-12	SR 18, 4M, SK-35,M12x1.0, 12pin, Potentiometer	
18SW1P-8M-35M1210-12	SR 18, 8M, SK-35,M12x1.0, 12pin, Potentiometer	

## TIG Torch 9/17/18/20/26 (OEM)



Customized connectors are available, just need to know information of control plug, gas connector, water-in connector, water-out connector.





## Plasma Torch

### PT-31



Short Nozzle	10.5mm	Short Electrode	21.5mm
Ceramic Nozzle		Swirl Ring	
Harn		Long Electrode	38mm

Model	PT-31
Cooling	Gas Cooled
Arc Start	HF touch
Duty Cycle (60%)	40A
Standard Length	5M
Fit for	CUT-40, CT-416

### AG-60



Model	AG-60
Cooling	Gas Cooled
Arc Start	HF touch
Duty Cycle (60%)	60A
Standard Length	5M
Fit for	CUT-60

### P-80



Model	P 80
Cooling	Gas Cooled
Arc Start	HF non-touch
Duty Cycle (60%)	80A
Standard Length	5M
Fit for	CUT-80,CUT-100,CUT-120

Code	Description
PT31-5M	PT-31 Plasma Torch,5M
PT31-8M	PT-31 Plasma Torch,8M

### Consumables

18204	Shield,PT-31
18866	Short Nozzle, PT-31
18785	Swirl Ring, PT-31
18205	Short Electrode,PT-31
19682	Long Nozzle,PT-31
19683	Long Electrode, PT-31

Code	Description
AG60-5M	AG-60 Plasma Torch,5M
AG60-8M	AG-60 Plasma Torch,8M

### Consumables

AG60-EL	Electrode, AG-60
AG60-NO	Nozzle,AG-60
AG60-SH	Shield,AG-60

Code	Description
P80H-5M	P80 Handy Plasma Torch,5M
P80H-8M	P80 Handy Plasma Torch,8M
P80A-5M	P80 Auto Plasma Torch,5M

### Consumables

TGN02004	Shield
TE10110	Nozzle,1.1mm 40A
TE101310	Nozzle,1.3mm 63A
TE101512	Nozzle,1.5mm 80A
TSM06626	Nozzle,1.7mm 100A
TE102033	Electrode

### *Compatible for Hypertherm Powermax 30/45*



Consumable type	Torch type	Ampereage	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
Drag-cutting	Hand	30A	220480	220569	220483 *	220478 *	220479 *
	Machine	45A	220671	220674	220713 *	220669 *	220670 *
Mechanized	Hand	45A	220671	220673	220713 * or 220719 (Ohmic)	220669 *	220670 *
	Machine	Hand	220672	220675 *	220713 *	220669 *	220670 *

### *Compatible for Hypertherm Powermax 65/85/105*



Consumable type	Torch type	Ampereage (A)	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
Drag-cutting	Hand	45	220941				
		65	220819	220818	220854 *	220842 or 220777	220994 *
Mechanized	Hand	85	220816				
	Machine	105	220990	220992			
FineCut	Machine	45	220941				
	Hand	65	220819	220817 or 220955	220854 * or 220953 *	220842 or 220777	220994 *
Gouging	Machine	85	220816				
	Hand	105	220990	220993 or 220955	220931 *	220854 * or 220953 *	220942
Gouging	Machine	45	220930	220948			220994 *
	Hand	30-105	220991	220798 *	220854 *	220842	220994 *

**Compatible for Hypertherm Powermax 1000 / 1250 / 1650**



Torch type	Amperage(A)	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
Hand	40	120932		120928*	120926	120925*
	60	120931	120929			
	80	120927				
	100	220011	220065	220048*	220037	220051*
Machine	40	120932				
	60	120931	120930	120928*	120926	120925*
	80	120927				
	100	220011	220047	220048*	220037	220051*

**Compatible for Hypertherm MAX200 / HT2000 / Hyspeed HT2000**



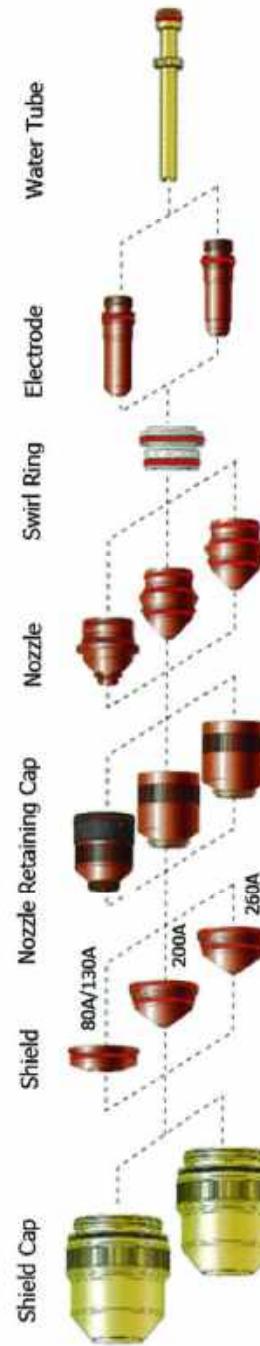
Description	Ref No.	Remark
Shield	020424	200A O2/Air/N2
	020448	100A O2/Air/N2
Retaining Cap	220239	200A O2
	020423*	100A/200A
Nozzle	220238*	200A, O2
	020608	200A, O2/Air/N2/Argon
	020605	200A, N2
	020611	100A, Air
	020616	100A, O2
	220237	200A, O2
Swirl Ring	020604*	200A, O2
	020607*	200A, O2/Air/N2/Argon
	220236*	200A, O2
Electrode	120667	40A/200A, O2/Air
	220021	40A/200A, O2/Air
	020415	100A/200A, N2/Argon
	120547	100A, O2/Air
	220235	200A, O2

### *Compatible for Hypertherm HSD130*



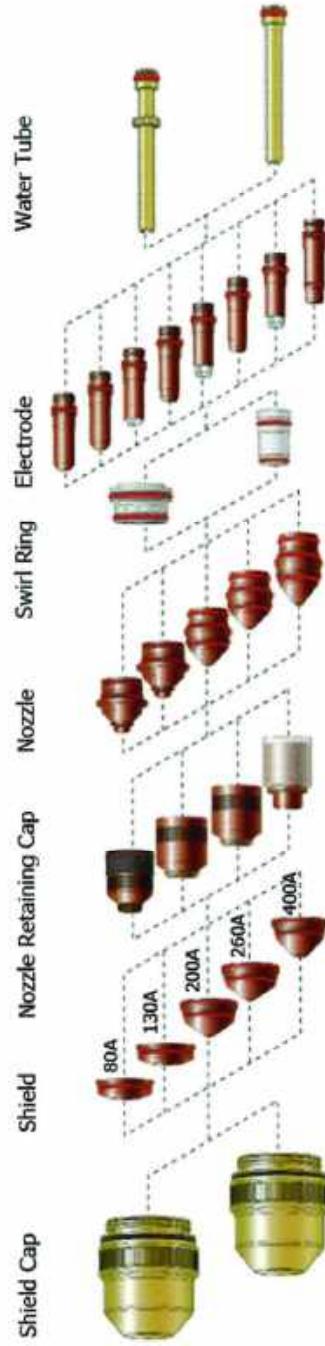
Fit for	Amperage	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
Mild Steel	45A (Air)	220525*	220532	220578*	220528	220529
	50A (O2)	220530	220536		220487	220488
	130A (Air)	220492	220491			
	130A (O2)	220489				
Fit for	Amperage	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
	45A (Air)	220525*	220532	220578*	220528	220529
	45A (N2 & F5)				220487	220488
	130A (Air)	220492	220536	220534*	020415*	220529
Stainless Steel	130A (N2)	220535*				
	130A (H35)					
	45A (Air)	220525*	220532	220578*	220528	220529
	130A (Air)	220492	220536	220534*	220487	220488
Fit for	Amperage	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
	45A (Air)	220525*	220532	220578*	220528	220529
	130A (Air)	220492	220536	220534*	220487	220488
	130A (H35)	220535			20415	220529*

### *Compatible for Hypertherm HPR130 / HPR260*



Fit for	Amperage	Shield cap	Shield	Nozzle retaining cap	Nozzle	Swirl ring	Electrode	Water tube
Mild Steel	30 A		220194	220193	220180	220192		
	50 A	220173*	220555	220554	220553*	220552		
	80 A		220189	220176*	220188	220187		
	130 A		220183		220182	220181	220340*	
Fit for	200 A	220356	220355*	220354	220353	220352		
	260 A	220440	220433*	220439	220436	220435		
	30 A							
	50 A	220202*	220304*	220201*	220180	220308*		
Stainless Steel	80 A	220173*	220388	220337*	220179	220339*		
	130 A		220198	220304* or 220176*(N2)	220197		220340*	
	200 A	220398*	220345*	220343*	220342*	220307		
	260 A	220407*	220405*	220439	220405*			

**Compatible for Hypertherm HPR130XD / HPR260XD / HPR400XD**



Fit for	Amperage	Shield cap	Shield	Nozzle retaining cap	Nozzle	Swirl ring	Electrode	Water tube
Mild Steel	30 A	220194	220754*	220193	220180	220192		
	50 A	220555	220554	220553*	220552			
	80 A	220189	220188	220179	220187			220340*
	130 A	220183	220756*	220182	220179	220181		
	200 A	220761	220757*	220354	220353	220352		220666*
	260 A	220764	220760*	220439	220436	220435		220668*
	400 A	220636*	220635*	220632	220631*	220629		220571*
	80 A bevel	220742*	220845*	220806*	220179	220802*		
	130 A bevel	220637*	220740*	220646*	220179	220649*		220700*
	200 A bevel	220658*	220845*	220659*	220353	220662*		
Stainless Steel	260 A bevel	220741	220740*	220542	220436	220541		
	* 260 A bevel	220897*	220896*	220898*	220436	220899*		
	400 A bevel	220636*	220635*	220632	220631*	220629		220571*
Fit for	Amperage	Shield cap	Shield	Nozzle retaining cap	Nozzle	Swirl ring	Electrode	Water tube
45 A	220202*	220755*	220201*	220180	220308*			
60 A HDI	220747*	220815*	220847*	220180	220339*			
80 A	220338*	220755*	220337*	220179			220340*	
130 A	220198	220755 (H35)*	220197	220179				
Aluminum	200 A	220762*	220758*	220343*	220342*	220307		
	260 A	220763*	220406	220405*	220405*			
	400 A	220707*	220712*	220708*	220709*			220571*
	130 A bevel	220738*	220739*	220656*	220179	220666*		
	260 A bevel	220738*	220739*	220607*	220405*	220709*		
Fit for	400 A bevel	220707*	220712*	220708*	220709*			
	Amperage	Shield cap	Shield	Nozzle retaining cap	Nozzle	Swirl ring	Electrode	Water tube
	45 A	220747*	220202*	220756*	220201*	220180	220308*	
	130 A	220198	220755 *(H35)	220197	220179	220307(H35)		220340*
				220756*(Air)			220181 (Air)	
Aluminum	200 A	220762*	220759*	220346*	220342*	220307		
	260 A	220637*	220758*	220406	220405*	220307		
	400 A	220707*	220712*	220708*	220405*	220709*		220571*

**Compatible for Hypertherm MAXPRO200**


Fit for	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
Machine torch-Air – Mild steel / Stainless steel / Aluminum	50 A	220532	220936*	220890	220529	220528	
	130 A	220536	220935*				
	200 A	420045	220936*	220892		220487	220521*
Fit for	Amperage	Shield	Shield cap				
Machine torch-O2 – Mild steel	50 A	220532	220936*	220891*			
	130 A	220491	220935*	220893*			
	200 A	220832*	220935*	220893*	220488	220487	220521*
Fit for	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
Machine torch-N2 – Stainless steel / Aluminum	130 A	220536	220936*	220892			
	200 A	420045	220935*	420044		220529	220415*
Fit for	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
Hand torch-Air – Mild steel / Stainless steel / Aluminum	50 A	420063*	220935*	220890	220529	220528	
	130 A	420061*	220935*	220892		220487	220521*
	200 A	420058*		420044		220488	
	200 A Gouging	420067*		420066*		220937	
Fit for	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
Hand torch-O2 – Mild steel	50 A	420063*	220935*	220891*	220529	220528	
	130 A	420062*	220935*	220893*	220488	220487	220521*
	200 A	420059*		220831	220834*	220937	

**Compatible for Hypertherm Powermax 600/800/900 & MAX42/43**

Fit for	Type	Shield	Retaining Cap	Nozzle	Electrode	Swirl Ring	Swirl Ring
Hand Torch	Drag-Cutting consumables	220818	220854*	220941	220842	220857	
	Gouging consumables	220798*	220854*	220797	220842	220857	
	FineCut consumables	220931*	220854*	220930	220842	220947*	
Fit for	Type	Shield	Retaining Cap	Nozzle	Electrode	Swirl Ring	Swirl Ring
Mechanized shielded	Mechanized shielded	220817	220854*	220941	220842	220857	
Mechanized shielded ohmic	220798*	220853	220941	220842	220857		
Machine Torch	Mechanized unshielded	220955	220854*	220941	220842	220947*	

## Compatible for Hypertherm HT4400



Fit for	Ampereage	Retaining cap	Nozzle	Swirl ring	Electrode	SilverPlus electrode	Water tube
O2-Mild Steel	100A	120777*	120783*	120785*			
	100A CCW	120778*	120784*				
	200A	120787*	120791*	120793*			
	200A CCW	120788*	120792*				
	300A	120794*	120913*	120802*	220412*		120025*
	300A CCW	120795*	120914*				
	400A	120934*	120939*	120810*			
	400A CCW	120935*	120940*				
	Ampereage	Retaining cap	Nozzle	Swirl ring	Electrode	SilverPlus electrode	Water tube
	200A	120786*	120794*	120853*	120855*		
N2 - Stainless steel/Aluminum	400A	120856*					120025*

## Chinese Type

No.	Refer.no.	Description	Fit for	No.	Refer.no.	Description	Fit for:
1	SG51-TH	Torch head	SG51	1	JG60-TH	Torch Head	
2	SG51-EL	Electrode		2	JG60-EL	Electrode	
3	SG51-SR	Swirl Ring		3	JG60-DEL	Double heads electrode	JG60
4	SG51-10	Tip 1.0mm		4	JG60-NO	Tip	
5	SG51-12	Tip 1.2mm		5	JG60-SR	Swirl ring	
6	SG51-SH	Nozzle retaining cap		6	JG60-SH	Shield Cup	

No.	Refer.no.	Description	Fit for	No.	Refer.no.	Description	Fit for:
1	MES0-TH	Torch head	MES0	1	JG100-TH	Torch Head	
2	MES0-EL	Electrode		2	JG100-EL	Electrode	
3	MES0-SR	Swirl Ring		3	JG100-DEL	Double heads electrode	JG100
4	MES0-NO	Tip		4	JG100-NO	Tip	
5	MES0-SH	Shield Cup		5	JG100-SR	Swirl ring	
6	P160-MTH	Machine Torch head		6	JG100-SH	Shield Cup	

No.	Refer.no.	Description	Fit for
1	P160-TH	Hand Torch Head	
2	P160-ELS	Electrode-Short	
3	P160-ELL	Electrode-Long	
4	P160-NO	Nozzle	
5	P160-SH	Shield	
6	P160-MTH	Machine Torch head	

### Compatible for HiFocus 280/HiFocus 360/HiFocus 400 PerCut370.1



Ref/No.	Description	Ref/No.	Description
Z501	Protection Cap	.11.843.021.408	S2008X
.11.835.201.081	Swirl Gas Cap	.11.843.021.410	S2010X
.11.835.201.1561	Swirl Gas Cap	.11.843.021.412	S2012X
.11.835.201.1571	Swirl Gas Cap	.11.843.021.414	S2014X
.11.835.201.1551	Swirl Gas Cap	.11.843.021.416	S2016X
.11.835.201.1581	Swirl Gas Cap	.11.843.111.616	S2516X*
.11.835.201.1591	Swirl Gas Cap	.11.843.111.618	S2518X*
.11.835.401.1571	Swirl Gas Cap	.11.835.221.153	Z101*
.11.835.411.1581	Swirl Gas Cap	.11.835.221.154	Z102*
.11.835.411.1580	Swirl Gas Cap	.11.834.321.153	Z111*
.11.835.411.1591	Swirl Gas Cap	.11.835.421.303	Z111A*
.11.835.411.1590	Swirl Gas Cap	.11.843.021.320	S002Y
.11.842.401.160	Nozzle Cap	.11.843.021.320	S002Y
.11.842.401.162	Nozzle Cap	.11.843.121.310-AG	S012X*
.11.842.401.1622	Nozzle Cap	.11.842.411.510	S042*
.11.842.401.1624	Nozzle Cap	.11.842.511.510	S052*
.11.842.401.1621	Nozzle Cap	.11.842.401.152	S001
.11.843.021.406	Nozzle		
.11.843.021.407	Nozzle		

### Compatible for HiFocus 280/HiFocus 360/HiFocus 400 PerCut370.2



Ref/No.	Description	Ref/No.	Description
.11.833.101.1550	Swirl Gas Cap	.11.846.921.415	T2115Y
.11.833.101.155	Swirl Gas Cap	.11.846.921.420	T2120Y
.11.833.101.156	Swirl Gas Cap	.11.846.921.425	T2125Y
.11.833.101.157	Swirl Gas Cap	.11.846.921.427	T2127Y
.11.833.101.158	Swirl Gas Cap	.11.846.921.430	T2130Y
.11.833.101.159	Swirl Gas Cap	.11.836.921.1342	T104*
.11.833.111.159	Swirl Gas Cap	.11.836.921.153	T101*
.11.841.721.081	Protective Cap	.11.836.921.1531	T111*
.11.836.921.271	Swirl Gas Nozzle	.11.836.921.154	T102*
.11.836.901.163	Nozzle Cap	.11.836.921.1541	T112*
.11.836.901.164	Nozzle Cap	.11.844.921.300	T012Y
.11.836.901.1641	Nozzle Cap	.11.844.921.300	T012Y
.11.836.901.165	Nozzle Cap	.11.844.901.152	T902Y
.11.836.901.1651	Nozzle Cap		

**Compatible for HiFocus 280i/HiFocus 360i/HiFocus 400i**


Ref NO.	Description	Ref NO.	Description
.11.848.201.081	G501	.11.848.221.414	Protection Cap
.11.848.401.081	G521	.11.848.221.416	Protection Cap
.11.848.201.1515	G4015	.11.848.421.426	Swirl Gas Cap
.11.848.201.1520	G4020	.11.848.421.430	Swirl Gas Cap
.11.848.201.1530	G4030	.11.848.421.431	Swirl Gas Cap
.11.848.201.1525	G4025	.11.848.411.629	Swirl Gas Cap
.11.848.201.1522	G4022	.11.848.411.625	Swirl Gas Cap
.11.848.401.1550	G4350	.11.848.411.627	Swirl Gas Cap
.11.848.401.1555	G4355	.11.848.311.616	Swirl Gas Cap
.11.848.401.1535	G4335*	.11.848.221.145	Swirl Gas Cap
.11.848.401.1545	G4345*	.11.848.221.146	Swirl Gas Cap
.11.848.401.1540	G4340*	.11.848.421.145	Swirl Gas Cap
.11.848.311.1530	G4530*	.11.848.421.149	Swirl Gas Cap
.11.848.311.1535	G4535*	.11.848.221.149	Swirl Gas Cap
.11.848.201.1604	G3004	.11.848.221.300	Nozzle Cap
.11.848.201.1628	G3028	.11.848.221.300	Nozzle Cap
.11.848.401.1649	G3249	.11.848.221.310	Nozzle Cap
.11.848.401.1629	G3229	.11.848.421.310	Nozzle Cap
.11.848.401.1619	G3219	.11.848.421.330	Nozzle Cap
.11.848.401.1609	G3209	.11.848.411.500	Nozzle Cap
.11.848.201.1608	G3008*	.11.848.211.510	Nozzle Cap
.11.848.221.406	G2006Y	.11.848.311.510	Nozzle
.11.848.221.407	G2007Y	.11.848.201.142	Nozzle
.11.848.221.408	G2008Y	.11.848.401.142	Nozzle
.11.848.221.410	G2010Y	.11.848.411.142	Nozzle
.11.848.221.412	G2012Y	.11.848.211.142	Nozzle
		.G901Y	Cooling Tube
		.G931Y	Cooling Tube
		.G971*	Cooling Tube
		.G941*	Cooling Tube

### Compatible for Thermal Dynamics

No.	Referno.	Description	Fit for:	No.	Referno.	Description	Fit for:
1	9-8215	Electrode		1	8-7514	Tip,50-60A	
2	9-8211	Tip,80A,Cutting		2	9-7726	Tip,60A	
3	9-8212	Tip		3	9-7728	Tip,80Amp	PCH/M-102
4	9-8205	Tip,20A,Drag		4	9-8402	Electrode	
5	9-8206	Tip,30A,Drag		5	9-8407	Electrode	
6	9-8207	Tip,40A,Cutting		No.	Refer no.	Description	Fit for:
7	9-8208	Tip,40A,Cutting		1	20-1221	Nozzle,70A	
8	9-8209	Tip,50/55A,Cutting		2	20-1222	Nozzle,120A	PCH/M-120
9	9-8210	Tip,60A,Cutting		3	20-1210	Electrode	
10	9-8218	Shield cup		No.	Refer no.	Description	Fit for:
11	9-9219	Torch head	SL60/SL100	1	9-5631	Tip	
12	9-8243	Shield cup deflector		2	8-3321	Tip	
13	9-8235	50-60A,shield cup,Drag		3	9-5718	Tip	PCH-51
14	9-8236	70A,shield cup,Drag		4	9-5724	Tip	
15	9-8237	Shield cup		5	9-5633	Electrode	
16	9-8231	Tip,70A,Cutting		No.	Refer no.	Description	Fit for:
17	9-8213	Start Cartridge		1	9-5618	Tip	
18	9-8253	Tip		2	9-5897	Tip(PCH-53)	
19	9-8232	Electrode		3	9-5702	Tip,35A	
20	9-8245	Shield Cap,Mach,40A		4	9-5706	Tip,45A	PCH-52
21	9-8238	Shield Cap,Mach,50-60A		5	9-5707	Tip,70A	
22	9-8239	Shield Cap,Mach,70-100A		6	9-5708	Tip,105A	
23	9-8256	Shield Cap,Mach,120A		7	9-5782	Tip,80A	
No.	Refer no.	Description	Fit for:	8	9-5619	Electrode,Air	
1	36-1027	Shield 100A					
2	36-1053	Nozzle 100A					
3	36-1071	Electrode 100A	XT301				
4	36-1028	Shield 200A					
5	36-1055	Nozzle 200A					
6	36-1085	Electrode 200A					

### Compatible for Trafimet

No.	Refer. no.	Description	Fit for	No.	Refer. no.	Description	Fit for	
1	PF0125	Hand Torch Head	\$45	1	PDO109-14	Tip,1.4mm		
	PR0105	Electrode,40A		2	PDO109-16	Tip,1.6mm	A151	
	PR0110	Electrode,20-30A		3	PDO109-18	Tip,1.8mm		
	PE0106	Swirl Ring		4	PRO111	Electrode		
	PDO102-10	Nozzle,1.0mm,40A		No.: Refer. no.: Description	No.: Refer. no.: Description	No.: Refer. no.: Description	Filter	
	PDO116-08	Long Nozzle,20-30A			1	PG005	Torch	
	PC0116	Shield			2	FH0886	Water Cooling Tube	
2	PF0135	Hand Torch Head	\$75	3	PRO118	Electrode		
	FH0647	Dip Tube		4	PE0114	Swirl ring		
	PR0117	Electrode-Hf		5	PDO115-12	Nozzle 1.2mm		
	PE0112	Swirl ring		6	PDO115-14	Nozzle 1.4mm	AW201	
	PDO114-10	Tip,1.0mm		7	PDO115-16	Nozzle 1.6mm		
	PDO114-12	Tip,1.2mm		8	PDO115-18	Nozzle 1.8mm		
	PC0114	Nozzle retaining cap		9	PDO115-20	Nozzle 2.0mm		
3	CV0076	Cage Spacer	\$105	6	PC0125	Shield		
	PF0136	Hand Torch Head		7	CV0078	Ceramic Shield		
	FH0647	Dip Tube		No.: Refer. no.: Description	No.: Refer. no.: Description	No.: Refer. no.: Description	Fit for	
	PR0117	Electrode-Hf			1	PF0101	A140 Torch Head	
	PE0112	Swirl ring			2	FH0563	Gas cooling tube	
	PDO119-12	Tip Ø 1.2			3	PRO101	Electrode	
	PDO119-14	Tip Ø 1.4			4	PE0101	Swirl Ring	A140
4	PC0118	Nozzle retaining cap		No.: Refer. no.: Description	5	PD0101-11	Tip,1.1mm	
	PF0145	Torch			6	PD0101-14	Tip,1.4mm	
	TR0101	Electrode-hf			7	PD0101-17	Tip,1.7mm	
	PE0101	Swirl Ring			8	PD0101-19	Tip,1.9mm	
	PDO101-11	Tip,1.1mm			9	PC0101	Shield	
5	PD0101-14	Tip,1.4mm		No.: Refer. no.: Description	No.: Refer. no.: Description	No.: Refer. no.: Description	Fit for	
	PD0101-17	Tip,1.7mm						
	PC0109/PC0111	Nozzle retaining cap						
	A101/A141							

### Compatible for KOIKE

No.	Ref No.	Description	Fit for	No.	Ref No.	Description	Fit for
1	PK031336	Shield Cap		1	40016365*	Shield Cap	
2	PK031332	Shield		2	40020503	Shield Cap	
3	PK030661	Nozzle 3.0R		2	40016366	Shield	
	PK030663	Nozzle 3.0L		3	40017233	Nozzle 2.9R	<b>Super400 Plus</b>
	PK030660	Nozzle 2.5R			40017234	Nozzle 2.9L	
	PK030662	Nozzle 2.5L		4	40001899*	Swirl Ring (R)	
	PK030667	Nozzle 2.3R		4	40004567*	Swirl Ring (L)	
	PK030668	Nozzle 2.3L		5	40016358	Electrode	
4	PK031204*	Swirl Ring R					
	PK031205*	Swirl Ring L					
5	PK031027	Electrode					

### Compatible for OTC & Miller

No.	Ref No.	Description	Fit for	No.	Ref No.	Description	Fit for
1	H669G11	Electrode		1	125-039	Electrode	
2	H669G06	Tip S - 50A		1	125-039	Electrode, Teflon wrapped	<b>MILLER - APT 8000</b>
	H669G05	Tip H - 70A		2	125-038	Tip	
	H669G04	Shield cup D - 7000		3	125-040	Shield cup	
3		Shield cup A50/A70		No.	Ref No.	Description	Fit for
				1	H839M00	Electrode, Teflon wrapped	
					H839K03	Tip 0.8- 30A	
					H839K02	Tip 1.0 - 50A	
					H839K01	Tip 1.3 - 80A	
					H839G03	Tip 1.6 - 120A	
				3	H839G02	Shield cup	
1	123-899	Electrode					
2	123-898	Tip 1.0 - 50A					
	134-338	Tip 1.2 - 70A					
3	123-897	Shield cup (APT 5000)					
No.	Ref No.	Description	Fit for				
1	H839M00	Electrode					
	H839M00	Electrode, Teflon wrapped					
2	H767F01	Tip					
3	H767J00	Shield cup					

### Compatible for SAF

No.	Ref No.	Description	Fit for	No.	Ref No.	Description	Fit for
1	0408-2051	Electrode-Zr		1	0409-2185	Electrode-HX5	
2	0408-2404	Electrode-Hf		2	0409-2176	Tip,60A	<b>OPC-150</b>
3	0408-2052	Tip,20/40		3	0409-2183	Tip,90A	
4	0408-2261	Tip,1.0mm					
5	0408-2262	Tip,1.2mm					
6	0408-2385	Tip,1.6mm					
7	0408-2267	Shield Cup					
8	0408-2268	Shield Cup					
9	0408-2405	Shield Cup					

**Compatible for ESAB**

No.	Ref No.	Description	Fit for	No.	Ref No.	Description	Fit for
1	37081*	Shield Retainer 50A-400A		1	37081*	Shield Retainer	
	0558009548*	Shield Retainer 450A		2	21802	Shield 100A-250A	
2	0558006130	Shield 50A		21945		Shield 360A	
	0558006141	Shield 100A-260A		3	21944*	Diffuser 100-360A	
	0558006166	Shield 300A-400A		22496*		Diffuser 100-360a ccw	
	0558009551	Shield 450A		4	37082*	Nozzle retaining cap	
3	037082*	Nozzle retaining cap 50A-400A		5	22030	Nozzle Tip 150A	
	0558009550*	Nozzle retaining cap 450A		22031		Nozzle Tip 200A	
4	21796*	Diffuser 50A		22028		Nozzle Base 100A-200A	
	2944*	Diffuser 100A-450A		0558001883		Nozzle 150A	
5	0558006010	Nozzle 50A		0558001884		Nozzle 200A	
	0558006014	Nozzle 100A		0558001623		Nozzle 250A	
	0558006018	Nozzle 130A		0558001885		Nozzle 360A	
	0558006020	Nozzle 200A		0558001886		Nozzle 400A	
	0558006023	Nozzle 260A		6	0558001624	Electrode 250A-Cu	
	0558006025	Nozzle 300A		0558002516		Electrode 360A-Cu	
	0558006030	Nozzle 360A		0558001621		Electrode Holder	
	0558006036	Nozzle 400A		0558002533*		Gas swirl baffle 4hole CW	
	0558006028	Nozzle 460A		0558002534*		Gas swirl baffle 4hole CCW	
6	0558005459	Electrode 50A		0558001625*		Gas swirl baffle 4hole CW	
	0558003914	Electrode 100A-300A		No.	Ref.no.	Description	
	0558007791	Electrode 360A-450A		1	33368	Tip, 30Amp	
7	0558005457*	Gas swirl baffle 50A		2	33359	Tip, 50-70Amp	
	0558002533*	Gas swirl baffle 100A-300A		3	33418	Gouging tip 80A	
	0558001625*	Gas swirl baffle 360A-450A		4	33366	Electrode	
	0558003924*	Electrode Holder 50A-450A		5	33366XL	Electrode	
No.	Ref No.	Description	Fit for	No.	Ref.no.	Description	Fit for
1	0558006603	Shield 30A-40A		1	558002618	Tip,50-70A	
	0558006602	Shield 50A-70A		2	558002837	Tip,90A	
	0558006601	Shield 100A		3	558002908	Tip,(darg),40A	
2	0588006600*	Nozzle Retaining Cap		4	558001969	Electrode	
	0558005218	Nozzle 30A		No.	Ref.no.	Description	Fit for
	00558004878	Nozzle 50A		1	19914	Tip,30A	
	0558005219	Nozzle 70A		2	19915	Tip,50A	
	0558004879	Nozzle 100A		3	19916	Tip,70A	
4	0558005220	Electrode 50A Standard		4	19917	Tip,80A	
	0558004875	Electrode 100A Longlife		5	20056	Tip,100A	
5	0558005217*	Gas Baffle 30A-70A		6	19918	Electrode	
	0558004870*	Gas Baffle 100A					

### Compatible for CEBORA

No.	Refer.no.	Description	Fit for
1	1359	Hand torch head	<b>Cebora CP40</b>
2	1516	Electrode-Hf	
3	1507	Swirl ring	
4	1290	Tip Ø0.7	
5	1906	Nozzle retaining cap	
No.	Refer.no.	Description	Fit for
1	1352	Hand torch head	<b>Cebora CP50</b>
2	1521	Electrode-Hf	
3	60001	Swirl ring	
4	1304	Tip Ø 1.0	
5	5710121	Nozzle retaining cap	
6	1518-Hf	Extend electrode-Hf	<b>Cebora CB150</b>
7	1370	Extend tip	
No.	Refer.no.	Description	Fit for
1	1351	Hand torch head	
2	1402	Electrode-Hf	
3	60001	Swirl ring	
4	1309/1396/511000/51096	Tip Ø0.9/Ø 1.0/Ø 1.1/Ø 1.2	
5	5710171	Nozzle retaining cap	
6	1368	Extend electrode-Hf	
7	1366/1395/51102/51096	Extend tip Ø0.9/Ø 1.0/Ø 1.1/Ø 1.2	
No.	Refer.no.	Description	Fit for
1	PF0080/1353	Torch head	<b>HP130/HP260</b>
2	FH0213/1378	Gas Cooling Tube	
3	PRO034/1376	Electrode	
4	PE0009/1377	Swirl ring	
5	PD0026-11/1371	Nozzle 1.1mm	
6	PC002/1389	Nozzle retaining cap	

### Compatible for AJAN

No.	Refer.no.	Description	Fit for
1	E0	Electrode, 30A-80A	
	E1	Electrode, 130A	
	E3	Electrode, 260A	
2	N1	Nozzle, 30A	
	N3	Nozzle, 80A	
	N5	Nozzle, 130A	
	N7	Nozzle, 260A	
3	S1	Shield, 30A	
	S3	Shield, 80A-130A	
	S4	Shield, 260A	

## ■ Earth Clamp



*British Type*

BT002861  
Current: 200A, 300A, 400A, 500A



*Holland Type*

BT002855  
Current: 300A, 500A



*Australian Type*

BT002853  
Current: 300A, 500A



*American Type*

BT005149  
Current: 300A, 500A



*Japanese Type*

BT005154  
Current: 200A, 300A



*British Type*

BT002857  
Current: 300A, 500A



*European Type*

BT002858  
Current: 600A-1500A



*Italian Type*

BT002858  
Current: 600A-1500A



*Japanese Type*

BT005154  
Current: 200A, 300A



*Other Types*

BT005155  
Current: 400A



BT005328  
Current: 600A-1500A



BT002858  
Current: 600A-1500A



BT005153  
Current: 300A, 500A



BT002859  
Current: 600A-1500A



BT005153  
Current: 300A, 500A



BT002859  
Current: 600A-1500A

## ■ Electrode Holder

### British Type



BT005137  
Current: 400A, 600A



BT005138  
Current: 400A, 600A



BT005139  
Current: 400A, 600A

### Holland Type



BT004526  
Current: 300A/400A, 500A/600A



BT002839  
Current: 300A/400, 500A/600A



BT005141  
Current: 300A/400A, 500A/600A

### Italian Type



BT002842  
Current: 300A, 500A



BT005143  
Current: 150A



BT002833  
Current: 200A, 300A, 500A, 600A, 800A

### French Type



BT005133  
Current: 300A, 500A



BT005135  
Current: 300A, 500A



BT005140  
Current: 500A/600A

## ■ Electrode Holder

### American Type



BT002818  
Current: 300A, 500A/600A



BT002824  
Current: 300A, 500A



BT002820  
Current: 500A, 600A



BT005136  
Current: 300A, 500A, 800A

### Japanese Type



BT002813  
Current: 300A, 500A, 600A, 800A



BT002829  
Current: 300A, 500A, 600A

### Korea Type



BT002835  
Current: 500A, 600A



BT002836  
Current: 300A, 500A

### Chinese Type



BT005142  
Current: 500A



BT005144  
Current: 300A, 500A



Rubber Cable BT005090



PVC Cable BT005090

BRITISH STANDARD				NON-BRITISH STANDARD				USA STANDARD			
Size (mm <sup>2</sup> )	Strands No.	Strand Size (mm)	Max O.D (mm)	Size (mm <sup>2</sup> )	Strands No.	Strand Size (mm)	Max O.D (mm)	Size (mm <sup>2</sup> )	Strands No.	Strand Size (mm)	Max O.D (mm)
10	322	0.2	8.5	16	513	0.16	8.5	4#	420	0.25	11.4
16	513	0.2	10	25	770	0.16	10	3#	532	0.25	12.2
25	783	0.2	11.5	35	1107	0.16	11.5	2#	665	0.25	14
35	1107	0.2	13	50	1596	0.16	13	1#	836	0.25	15.2
50	1566	0.2	15	70	2220	0.16	15	1/0	1064	0.25	16.7
70	2214	0.2	17	95	2997	0.16	17	2/0	1323	0.25	18.5
95	2997	0.2	19.5					3/0	1666	0.25	20.3
120	1702	0.3	22.5					4/0	2107	0.25	22.1

## ■ Welding Cable Connector

### European Type



### Thailand Type



Model EDP16e EDP35se EDP30e  
Rated Current 200A 315A 400A  
Wire Section(mm<sup>2</sup>) 10-25 35-50 50-70

Model	Model	Rated Current	Cable Section
DKL10-25	DKL10-25	200A	10-25mm <sup>2</sup>
DKL35-50	DKL35-50	300A	35-50mm <sup>2</sup>
DKL50-70	DKL50-70	400A	50-70mm <sup>2</sup>
DKL70-95	DKL70-95	500A	70-95mm <sup>2</sup>



American Type  
300A, 500A

## Air Gouging Torch



K3000 ( 600A ) BT003964  
K4000 (1000A) BT002731



K3 ( 600A ) BT005164  
K5 (1250A) BT005165



FLAIR-600 (1000A) BT005161

FLAIR-1600 (1600A) BT005162

## Welding Trolley



V1 BT005169

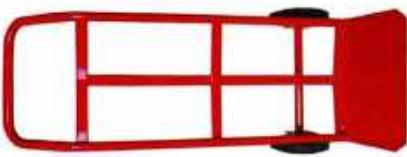


V2 BT004298

V3 BT003826



V3 New BT005205



V4 BT005168



Gas Cylinder Trolley BT005146

## Mig Torch Tools

*MIG Torch Holder*



BT003864

*MIG Pliers*



BT004994

*O-Clip Pincer*



BT005374

*Trafimet Type Euro Connectors*



BT004542

*Binzel Torch Connector*



BT004605

*Panasonic Torch Connector*



BT004605

*Adaptor switching from Panasonic to Euro*



BT004877

*Gas Flow Tester / Meter*



BT004921

*MIG Torch Nozzle Cleaner*



BT004000

## TIG Torch Tools

*TIG Torch Holder*



BT003862

*TIG Torch Holder*



*Adaptor*



BT005083

From Gas to Water

*Adaptor*



BT005084

From Euro type to Chinese type

*Adaptor*



BT005085

For TIG and Plasma, M14 / M16

## ■ Welding Anti-Spatter Gel/Spray

### Welding Nozzle Gel



BT002991

- Excellent cooling properties for longer tip and nozzle life, Can dip hot or cold, gel will not migrate into liner. Non flashing, biodegradable, paintable&non-toxic.
- Packing type: Plastic Bottle or Steel Can. Other packing can be customized.
- Capacity:200g
- Physical Form : Gel

## ■ Clamping Tools

### High-strength plate welding clamping tools



BT002983

### Pipe welding clamping tools range:φ15mm-108mm



BT002984

### 90° Angle Welding Vice 4" & 4.5"



BT004510



## ■ Chipping Hammer



BT002980

28.5cm

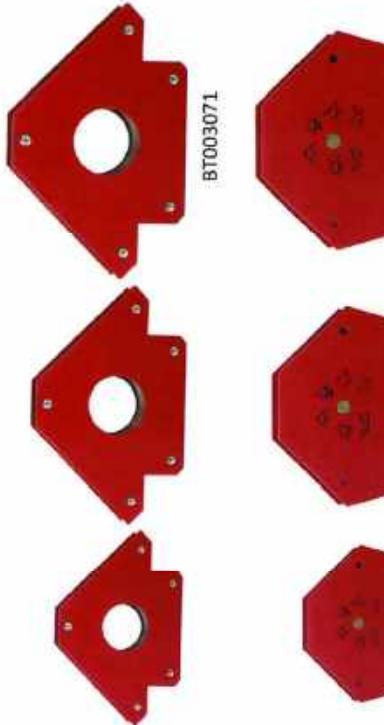
BT002979

27.5cm

BT002979

12.5cm

## ■ Magnetic Welding Holder



BT003071



BT003073

### 4 pcs Mini Magnetic Welding Holders

Size	Holding Angle	Pull force
2-3/8" x 2"	40°, 90°, 135°	9 lbs
1/2"	30°, 45°, 60°, 75°, 90°, 135°	25 lbs
1/2"	30°, 45°, 60°, 75°, 90°, 135°	50 lbs
1/4"	30°, 45°, 60°, 75°, 90°, 135°	75 lbs

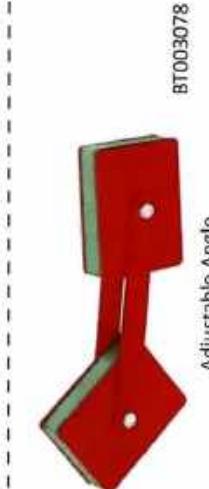
BT003074



BT003076

### Magnetic welding Ground

Size	Description	Holding Angle	Pull force
2"	magnet 200A	0 ~ 360°	16 lbs
4"	magnet 500A	0 ~ 360°	65 lbs



Adjustable Angle

BT003078

Size	Holding Angle	Pull force
3/8"	0 ~ 360°	50 lbs
1/2"	0 ~ 360°	50 lbs



BT003079

Size	Holding Angle	Pull force
3/4" x 1"	45°, 90°	30 lbs
1/8" x 1-1/2"	45°, 90°	55 lbs



BT003081

### Strong Magnetic Welding Holder

Model	Size	Holding Angle	Pull force
BT003080	5-1/2" x 4-3/8" x"	30° / 60°, 45°, 90°	80 lbs
BT003081	6x6x1-1/2"	90°	100 lbs



## ■ Magnetic Welding Holder

### on/off Magnetic Welding Ground Clamp



BT005128



- Fast set up and grounds instantly.
- Simply place on clean surface and turn on then start welding.
- No more tacking on tabs or searching for grounds.
- Stays clean because magnetic field turns completely off.
- Strong grip on flat or round surfaces.

Model	Current (A.)	N. W(KG)
MAG-200	200	0.3
MAG-300	300	0.37
MAG-600	600	0.54

### Square welding magnet holder with ON/OFF switch



BT005129



- This magnetic block can be used in wood processing for clamping or anywhere that has ferrous material surface.
- Three sides have magnetic force that can fix several surfaces in one time.
- Three sides in "V" style suitable for clamping the round workpieces.
- With on/off switch, six sides are all at the angle of 90°.

Model	Pull off force(kg)	N. W(KG)
MAGSQUARE-50	50	0.7
MAGSQUARE-100	100	1.5
MAGSQUARE-450	450	7

### Magnetic Heavy Sheet Leveler



BT005130



- Balance the steel plate then to weld.
- Used in shipbuilding and machining.
- Strong magnet.

Model	Max. Magnetic Force (KG)	N. W(KG)
ML-1000	1000	29

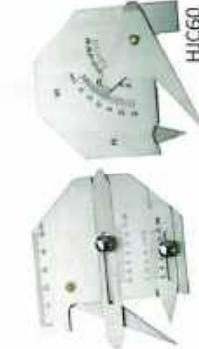
## ■ Welding Gauge



- Check weld bead height, seam gap
- Check width
- Check depth of weldment edge
- Check weldment groove angle
- Check gap size



- Measure height / width
- Measure leg width of fillet weld
- Measure mobile groove angle
- Check the single-side groove angle
- Check gap size

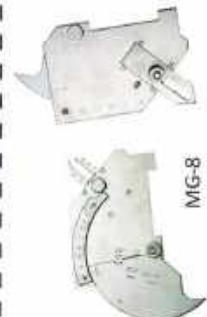


- Check weld bead height, seam gap
- Check width
- Check depth of weldment edge
- Check weldment groove angle
- Check gap size



- Permits quick and accurate measuring of the most popular weld fillet sizes in imperial: 1/8", 1/4" and metric: (3.2-25.4mm)
- All sizes and numerals are etched into the surface for clarity and easier reading

MG-11  
BT003005



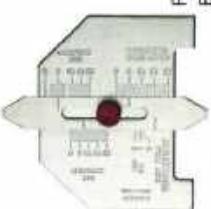
- Check angle of preparation, 0° to 60°
- Check excess weld metal (capping size)
- Check depth of undercut
- Check depth of pitting
- Check fillet weld throat size
- Check fillet weld length
- Check misalignment (high/low)

MG-8  
BT003006



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

V-WAC Gage  
BT003012



- Automatic weld size gauge
- For accurate calibration of butt and fillet type welds
- Check reinforcement
- Check throat of fillet weld To determine the leg size of the fillet weld

Fillet Gage  
BT003011



- Measure internal misalignment
- Measure fit-up gap
- Measure bevel on end preparation
- Measure crown height of welds
- Measure fillet weld size
- Measure scribed line, socket welds

HI-LO  
BT003009



- Check weld bead height, seam gap
- Check width
- Check depth of weldment edge
- Check weldment groove angle
- Check gap size

Digital Welding Gage  
BT003069



Measuring welding seam thickness  
BT003995



Fan-shaped ruler  
BT003008



Four-piece Gauge  
BT0054121



Tapered Welding Gauge (15-30mm)  
BT0053007



Aluminum Gauge  
BT005416



Schwellenlintheke  
BT005414

## ■ Welding Gauge



BT005417  
Wet Film Comb



W.A.C. Caliper Stop



Weld Center Stop



BT005418  
Universal Gauge



BT005405  
Rear View Mirror



BT005415  
55° Center Gauge



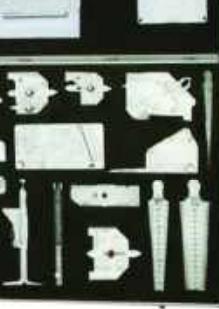
BT005418  
Universal Gauge



BT005406  
Welding gauge kit 1



BT005407  
Welding gauge kit 2



BT005408  
Welding gauge kit 3

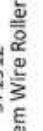


BT005409  
Welding gauge kit 4



## ■ Wire Feeder Roller

BT004604

	401020 Panasonic		402410 Digital-Panasonic		401020 Ceramic-Panasonic		351211 OTC		35128
	302210 Binzel		35258 Binzel		391011 Two Drives		2951412 SAF		2951412 SAF
	271912 Thermadyne		3718512 Thermadyne		40820 Gear-Thermadyne		44197 Submerged arc welding-lincoln		44197 Submerged arc welding-lincoln
	321020 Kempf		44197 Submerged arc welding		425214.3 Miller		4252214.3 Driven Gear-Miller		4252214.3 Driven Gear-Miller
	479.715 Zinc sparay		401635 South Korea		301213 Auto-South Korea		4251620 Driven Gear-Miller		4251620 Driven Gear-Miller
	371912 Rem Wire Roller		341020 IGM Wire Roller		382316 Oerlikon Wire Roller		501024.5 Kempf Wire Roller		501024.5 Kempf Wire Roller
									29512 Boc Wire Roller

## Abrasive Discs

BT004604


*Flap Cutting Discs*

*Grinding Discs*

Description	Dimension DxTxH (mm)	Dimension DxTxH (inch)	Shape	M/S	RPM	PCS/CTN
100x1.6x16	4x1/25x5/8	Type 41	80	15300	800	
100x1.6x16	4x1/16x5/8		80	15300	800	
115x1.6x22	4 1/2x1/16x7/8		80	13300	400	
Flat Cutting Discs (Super Thin)	125x1.6x22	5x1/16x7/8		80	12200	400
150x1.6x22	6x1/16x7/8		80	10200	100	
180x1.6x22	7x1/16x7/8		80	8500	100	
230x1.6x22	9x1/16x7/8		80	6500	100	

Description	Dimension DxTxH (mm)	Dimension DxTxH (inch)	Shape	M/S	RPM	PCS/CTN
100x3x16	4x1/8x5/8	Type 27	80	15200	400	
100x4x16	4x5/32x5/8		80	15300	300	
100x5x16	4x3/16x5/8		80	15300	200	
100x6x16	4x1/4x5/8		80	15300	200	
115x6x22	4 1/2x1/4x7/8		80	13300	200	
125x6x22	5x1/4x7/8		80	12200	200	
150x6x22	6x1/4x7/8		80	10200	150	
180x6x22	7x1/4x7/8		80	8500	100	
230x6x22	9x1/4x7/8		80	6600	50	

Description	Dimension DxTxH (mm)	Dimension DxTxH (inch)	Shape	M/S	RPM	PCS/CTN
100x2.5x16	4x3/32x5/8	Type 41	Type 42	80	15300	400
115x3x22	4 1/2x1/8x7/8			80	13300	400
125x3x22	5x1/8x7/8			80	12200	200
150x3x22	6x1/8x7/8			80	10200	200
180x3x22	7x1/8x7/8			80	8500	100
180x3x22	9x1/8x7/8			80	6600	100
230x3x22	10x1/8x1			80	6100	25
250x3x25.4	10x1/8x1			80	5100	25
300x3.2x25.4	12x1/8x1(1 1/4)			80	5100	25
300x3.2x32	12x1/8x1(1 1/4)			80	4400	25
350x3.2x25.4	14x1/8x1(1 1/4)			80	4400	25
350x3.2x32	14x1/8x1(1 1/4)			80	3800	25
400x3.2x25.4	16x1/8x1(1 1/4)			80	3800	25
400x3.2x32	16x1/8x1(1 1/4)			80	3800	25


*Central Depressed Cutting Discs*

## Wire Brush



BT002981A



BT002981B



BT002982

Model	Wire Material	Handle Material	Size
BT002981A	Stainless steel	Wood	2Row, 3Row, 4Row, 5Row
BT002981B	Mild Steel	Wood	
BT002982	Steel wire	Steel	

Model	Wire Material	Hammer Material	Handle Material
BT002982	Steel wire	Steel	Plastic

**F-13**

## Wire Brush



BT2175  
Twisted Knot Bowl Cup Brushes



BT2176A  
Crimped Wire Cup Brushes



BT2178  
Knotted Wire Brushes



BT2179  
Knotted Wire Brushes

D(mm/inch)	M(mm)	B(mm)	T(mm)	Rpm,max.
65/2-1/2"	10X1.25 10X1.5 5/8"-11NC	22.2	24	12500
75/3"	10X1.25 10X1.5 14X2.5/8"-11NC	22.2	25	12500
100/4"	14X2 16X2.5/8"-11NC	22.2	30	8000
125/5"	14X2 16X2.5/8"-11NC	22.2	33	6500
150/6"	14X2 16X2.5/8"-11NC	22.2	33	4500

D(mm/inch)	M(mm)	B(mm)	T(mm)	Rpm,max.
65/2-1/2"	10X1.25 10X1.5 5/8"-11NC	22.2	24	12500
75/3"	10X1.25 10X1.5 14X2.5/8"-11NC	22.2	25	12500
100/4"	14X2 16X2.5/8"-11NC	22.2	30	8000
125/5"	14X2 16X2.5/8"-11NC	22.2	33	6500
150/6"	14X2 16X2.5/8"-11NC	22.2	33	4500

D(mm)	D(inch)	B(mm)	T(mm)	RPM,max.
100	4"	16/22.2	22	11000
125	5"	16/22.2	23	11000
150	6"	16/22.2	34	9000
175	7"	16/22.2	34	9000
200	8"	16/22.2	42	9000

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

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



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

## ■ Welding Curtain

- Material: PVC , 16mil (0.4mm) thickness, 1.0, 2.0, 3.0mm can be customized.
- Size: 4'x6', 6'x6', 6'x8'
- Color: Yellow, Orange, Green



## ■ Welding Blanket



BT005127

- Service Temperature: 550°C - 1100°C
- Size: 50m x 1M, 2M X 1M, 2M X 2M, 3M X 2M / 4' x 6' / 6' x 8' / 8' x 8'
- Color: White, Brown, Red, Black, Grey, Blue
- Material: Eglass Fiberglass / Silicon Coated / High Silica Fiberglass / Neoprene / Vermiculited / Acrylic / Polyurethane Coated.

## ■ Safety Shoes



BT003588



BT003589



BT004544



BT004545



BT004546

## Welding Gloves

- Choose AB Grade Split Cowhide Leather to ensure heat and abrasion resistant
- Using KEVLAR thread to strengthen the abrasion and flame retardant
- With comfortable Cotton lining to absorb sweat and preventing slipping
- Reinforced palm / cuff to strengthen the durability and safe protection
- Best used in: Construction, Hot environment, Baking, Firing, Welding
- Size can be customized



## ■ Welding Gloves

- Top grain Cowhide and Goatskin provides great fit and dexterity necessary for TIG welding.
- Soft leather and seamless index finger allows wire to pass freely over glove.
- Reasonable cuff length protects hands and lower arms from burns.
- All-purpose protective glove against mechanical risks, offering an excellent resistance to cut and tearing, and thermal risks for higher protection against flame and heat.



BT003155  
 • Top grain goatskin leather  
 • Size: 10.5", 13"



BT003158  
 • Top grain cowhide leather  
 • Size: 10", 10.5"

## ■ Working Gloves

- Use AB Grade Split Cowhide Leather for palm to ensure heat and abrasion resistant
- Jeans used on back for more durability and good looks
- With comfortable Cotton lining to absorb sweat and preventing slipping
- Double thread to strengthen abrasion resistant
- Suitable for carrying, driving, casting, iron and steel, holding and other mechanical activities



BT004880



BT004881



BT004882



BT004883



BT004884



BT004885



BT004886



BT004887



BT004888



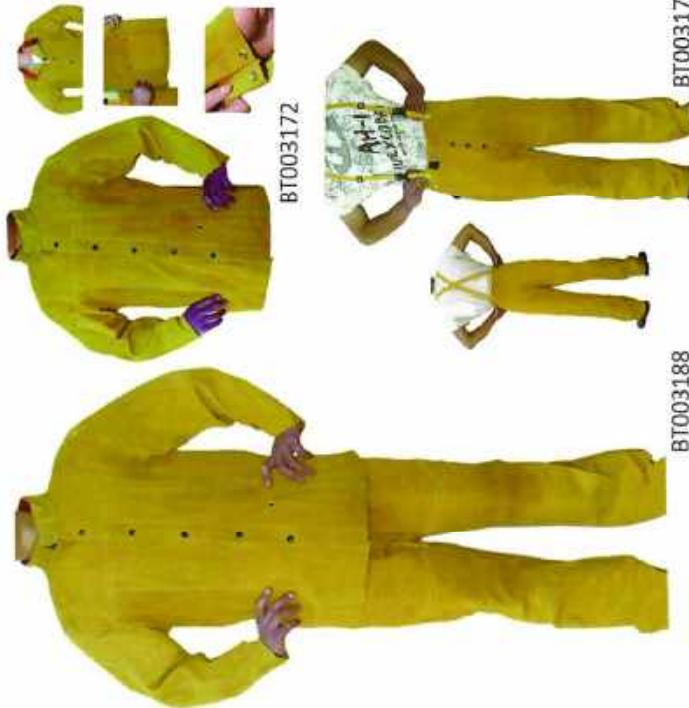
BT004889

## ■ Welding Clothes

### Welding Suit/Jacket/Pants (Golden, Brown, Grey)

- AB grade split cowhide leather
- Safe, comfortable and sweat-absorbent cotton collar.
- Five insulated snaps enhances fit and safety.
- Sewn with Dupont(Kevlar) thread.

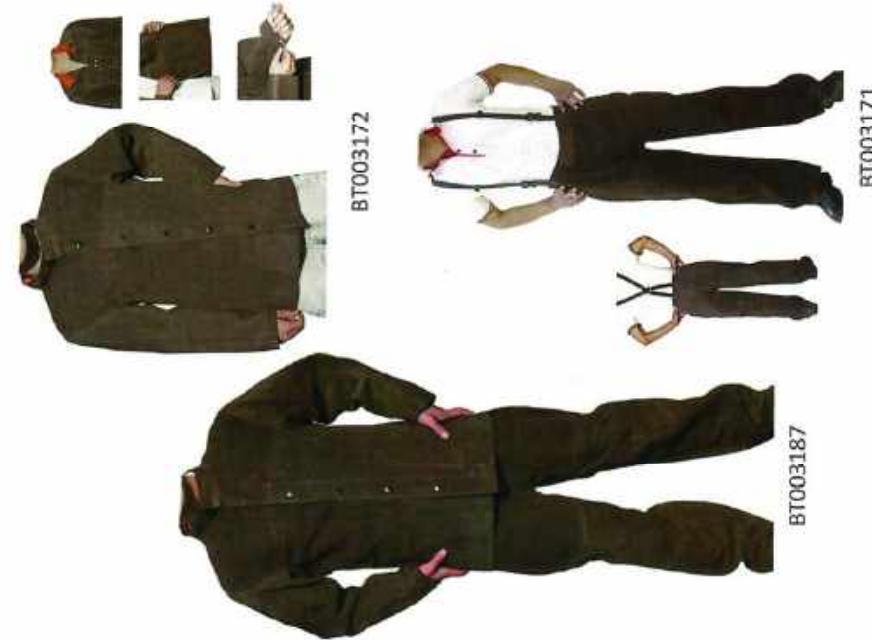
Height	Option Size
<170cm	L
170cm~175cm	XL
175cm~180cm	XXL
180cm~185cm	XXXL



BT003171

BT003171

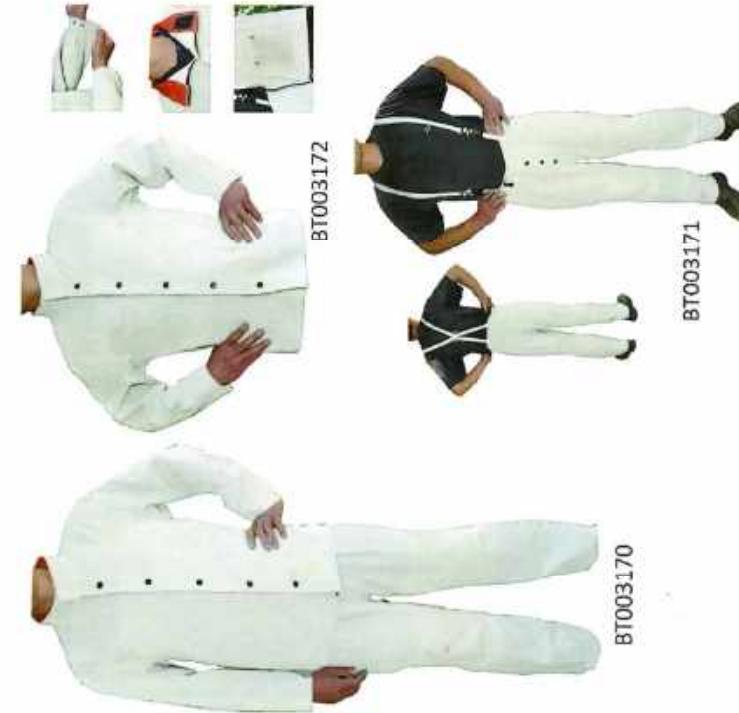
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BT003172

BT003171

BT003187



BT003172

BT003170

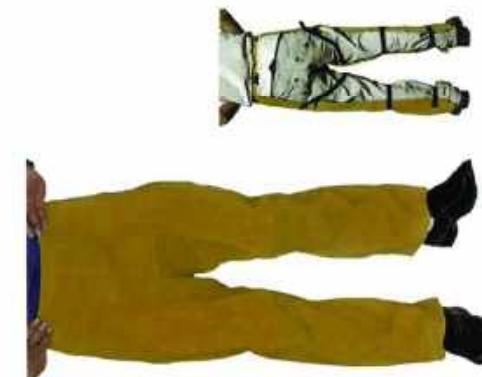
BT003171

## ■ Welding Clothes

### Welding Suit/Jacket/Pants (Golden, Brown, Grey)



BT003173



BT003174



BT003174

- Front with AB grade split cowhide leather and back with fire-retardant cloth.
- Safe, comfortable and sweat-absorbent cotton collar.
- Sewn with Dupont(Kevlar) thread.
- Designed for the welder who work under indoor or hot climate condition.

### Fire-retardant Cotton Suit (Orange)



BT003175

BT003177

- 100% cotton flame retardant sateen 11oz.
- Cuff adjustable.
- Inside with pocket.
- Five insulated snaps enhances fit and safety.
- Protect the worker from the risk of flame and fire.

Height	Option Size
<170cm	L
170cm~175cm	XL
175cm~180cm	XXL
180cm~185cm	XXXL

## Welding Clothes

### Welding Apron

- AB grade split cowhide leather.
- Endurable and Comfort, superior for heat and fire resistance.

- Sewn with Dupont(Kevlar) thread.
- Unique open-back style with quick-release buckle for cool comfort.



Size	Length	Width
L	94cm	67cm
XL	107cm	67cm
XXL	122cm	67cm
XXXL	138cm	67cm

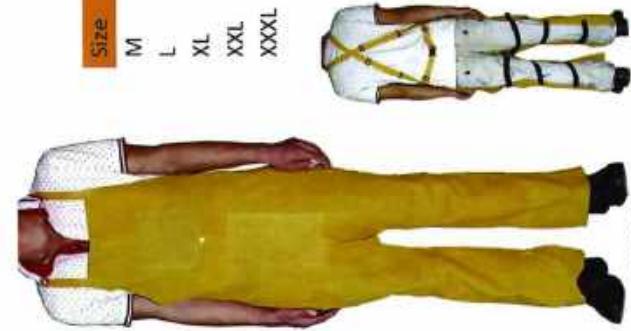


Size	Length	Width
M	84cm	67cm
L	94cm	67cm
XL	107cm	67cm
XXL	122cm	67cm
XXXL	138cm	67cm



## ■ Welding Clothes

### Welding Apron

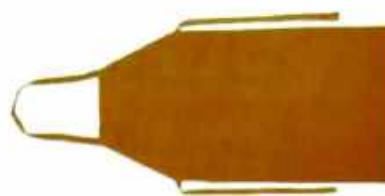


Size	Length	Width
M	84cm	67cm
L	94cm	67cm
XL	107cm	67cm
XXL	122cm	67cm
XXXL	138cm	67cm



Size	Length	Width
L	90cm	61cm
XL	105cm	61cm
XXL	120cm	61cm
XXXL	138cm	61cm

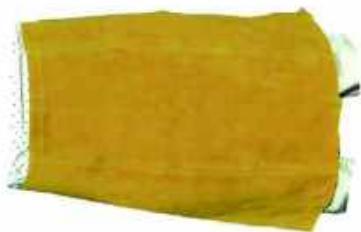
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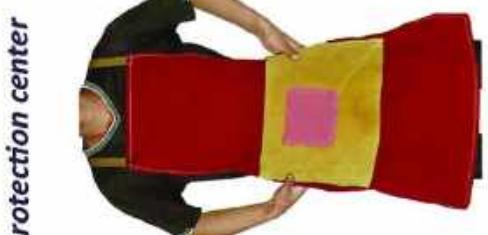
BT003139



BT003139

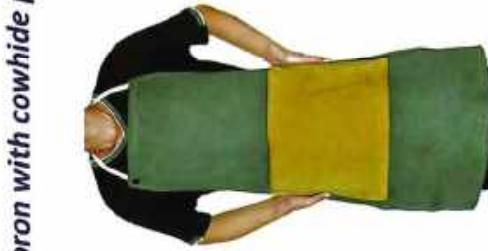


BT003164



BT003167

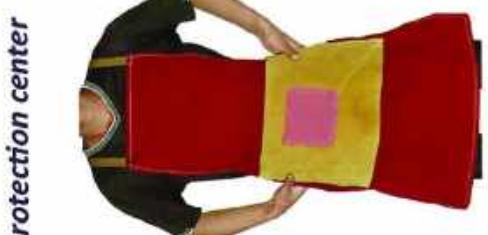
Size	Length	Width
L	90cm	61cm
XL	105cm	61cm



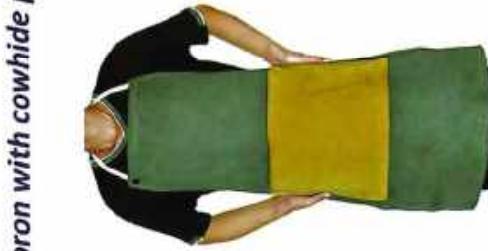
BT003167



BT003167



BT003167



BT003167



BT003167

## ■ Welding Clothes

### Cable Cover



BT003190

- Width: 10/13/15/18/21cm.
- Made of split cowhide leather.



BT003191

- Diameter: 20/25/30mm.
- Made of black pigskin



BT005195

- Diameter: 25/28/30mm.
- Made of Anti-Flame Rubber

BT005196

- Made of Denim Fabric

### Head Protection

#### Welding Face Shield



BT004523

- Cow split leather
- Provides better access to narrower welds
- Flexible and foldable leather on the back with velcro for quick size adjustment
- Equipped with front glass holder (108 x 51 mm).

#### Welding Cap A6630



BT004521



BT005193

- Made of Denim Fabric

### Tool Bag



BT003110



BT003113

### Leggings and Spats



BT003181



BT003180

- Split cowhide leather.
- Hool and loop closure.
- The spats could be self-shape.
- Size: length with 15/30cm.

## ■ Welding Clothes

### Oversleeves



- Split cowhide leather.
- Sewn with Dupont KEVLAR thread.
- Whole arm protected.

BT003178

Size	Cuff Length
L	50cm
XL	55cm



- Genuine cow leather.
- Soft and comfortable hand feeling.
- High quality, fashionable.

BT003119



- Split cowhide leather.
- Sewn with Dupont KEVLAR thread.
- Cuff adjustable.

BT003179

Size	Length
L	40cm
XL	48cm

## ■ Welding Helmets

### Auto Darkening Welding Helmet



BT004515



Air Respirator with Auto Darkening Function

BT004983



BT004516



BT004998



BT0045125



BT004998



BT005125



BT005411

Model	BT004515	BT004516	BT004983	BT005125	BT004998	BT005411
Viewing Area	98x62mm	92x42mm	92x43mm	92x42mm	92x42mm	92x42mm
Arc Sensor	4 Pcs	2 Pcs	2pcs	3 Pcs	2pcs	2pcs
Grinding Function	Yes	Yes	Yes	No	Yes	Yes
Power Supply					Solar cell & Lithium Battery	

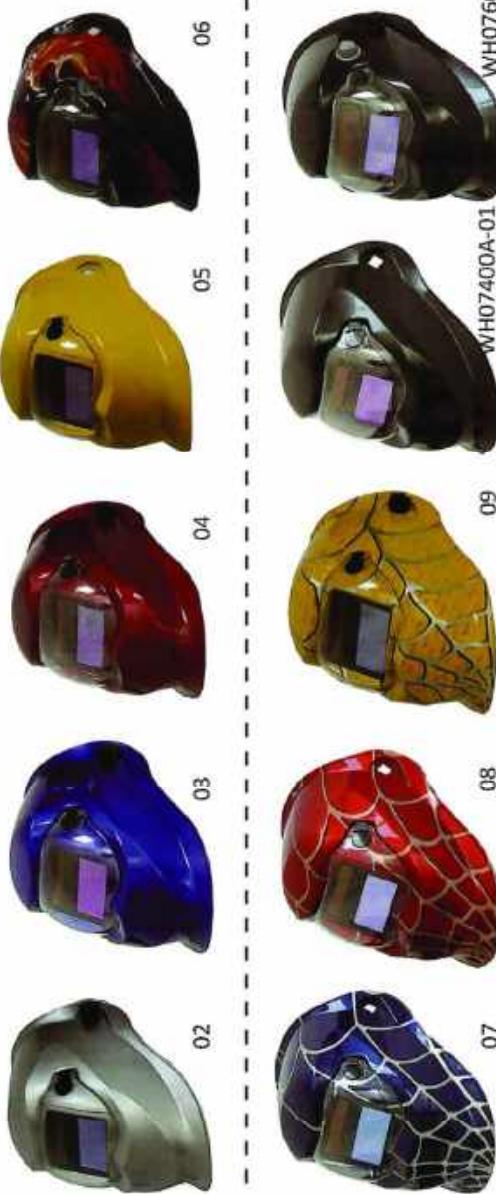
## ■ Welding Helmets

*Auto Darkening Welding Helmet - WH03 Style (BT005424)*



Model	Filter(mm)	View Size(mm)	Arc Sensors	Switching time	Recovery time	Grinding	Dark Shade	Shade control	Power supply
WH03200A	110*90*9	90°*34°	2pcs	5/10000S	0.2S	No	DIN11	Unadjustable, Auto	Li-battery&Solar
WH03500A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	No	DIN9~13	External, Variable	Li-battery&Solar

*Auto Darkening Welding Helmet - WH07 Style (BT005425)*



Model	Filter(mm)	View Size(mm)	Arc Sensors	Switching time	Recovery time	Grinding	Dark Shade	Shade control	Power supply
WH07400A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	No	DIN9~13	Internal, Variable	Li-battery&Solar
WH07600A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	Yes	DIN9~13	External, Variable	Li-battery&Solar
WH07600B	110*90*9	100*50	2pcs	3/10000S	0.1~0.8S	Yes	DIN9~13	External, Variable	Li-battery&Solar

## ■ Welding Helmets

**Auto Darkening Welding Helmet - WH08 Style** (BT005426)



Model	Filter(mm)	View Size(mm)	Arc Sensors	Switching time	Recovery time	Grinding	Dark Shade	Shade control	Power supply
WH08500A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	No	DIN9~13	External, Variable	Li-battery&Solar
WH08600A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	Yes	DIN9~13	External, Variable	Li-battery&Solar
WH08600B	110*90*9	100*50	2pcs	3/10000S	0.1~0.8S	Yes	DIN9~13	External, Variable	Li-battery&Solar

**Auto Darkening Welding Helmet - WH09 Style** (BT005427)



Model	Filter(mm)	View Size(mm)	Arc Sensors	Switching time	Recovery time	Grinding	Dark Shade	Shade control	Power supply
WH09500A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	No	DIN9~13	External, Variable	Li-battery&Solar
WH09600A	110*90*9	92.5*42.5	2pcs	3/10000S	0.1~0.8S	Yes	DIN9~13	External, Variable	Li-battery&Solar
WH09600B	110*90*9	100*50	2pcs	3/10000S	0.1~0.8S	Yes	DIN9~13	External, Variable	Li-battery&Solar

**Auto Darkening Welding Helmet - WHOA Style** (BT005428)



Model	Filter(mm)	View Size(mm)	Arc Sensors	Switching time	Recovery time	Grinding	Dark Shade	Shade control	Power supply
WHOA800A	110*90*10	100*59.5	4pcs	1/10000S	0.1~0.8S	Yes	DIN5~9/9~13	Internal, Variable	Li-battery&Solar
WHOA800C	110*90*10	100*67	4pcs	1/10000S	0.1~0.8S	Yes	DIN5~9/9~13	External, Variable	Li-battery&Solar
WHOA800D	110*90*10	100*83	4pcs	1/10000S	0.1~0.8S	Yes	DIN5~9/9~13	External, Variable	Li-battery&Solar

## ■ Welding Helmets

### None-Auto Darkening Welding Helmet



BT004986 Big View: 133x114mm



BT003105



BT003109

## ■ Welding Goggles



BT003118



BT005192

BT005193

Auto Darkening Type

## ■ Welding Lens

### Clear Glass Lens



Size
Round $\Phi 2"$ / 50mm
$4\frac{1}{4} \times 2"$ / 108 x 50mm
$4\frac{1}{4} \times 3\frac{3}{4}"$ / 108 x 82mm
110 x 55mm
$5\frac{1}{2} \times 4\frac{1}{4}"$ / 133 x 114mm
110 x 60mm
110 x 90mm

### Dark Glass Lens (DIN3-DIN13)



Size
Round $\Phi 2"$ / 50mm
$4\frac{1}{4} \times 2"$ / 108 x 50mm
$4\frac{1}{4} \times 3\frac{3}{4}"$ / 108 x 82mm
110 x 55mm
$5\frac{1}{2} \times 4\frac{1}{4}"$ / 133 x 114mm
110 x 60mm
110 x 90mm

### Clear Polycarbonate Lens



Size
Round $\Phi 2"$ / 50mm
110 x 50mm
$4\frac{1}{4} \times 2"$ / 108 x 50mm
$4\frac{1}{4} \times 3\frac{3}{4}"$ / 108 x 82mm
$5\frac{1}{2} \times 4\frac{1}{4}"$ / 133 x 114mm
105 x 55mm
110 x 55mm
110 x 60mm
110 x 90mm
120 x 100mm

### Clear CR39 Anti Spatter Lens



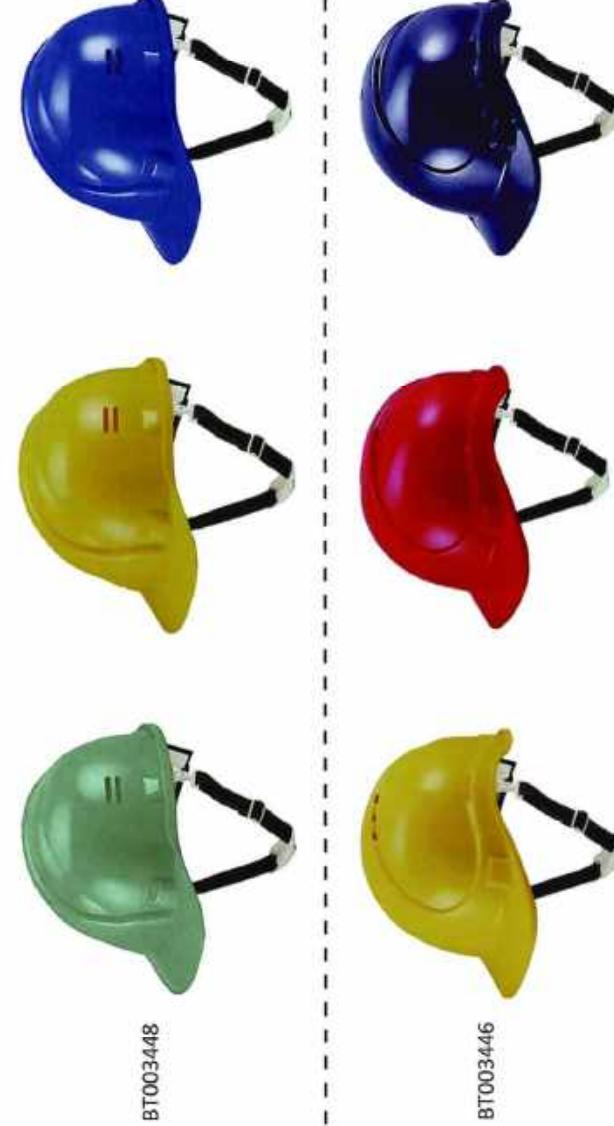
Size
Round $\Phi 2"$ / 50mm
110 x 50mm
$4\frac{1}{4} \times 2"$ / 108 x 50mm
$4\frac{1}{4} \times 3\frac{3}{4}"$ / 108 x 82mm
$5\frac{1}{2} \times 4\frac{1}{4}"$ / 133 x 114mm
105 x 55mm
110 x 55mm
110 x 60mm
110 x 90mm
120 x 100mm

## Safety Goggles

 BT003489	 BT003490	 BT003491	 BT003494
 BT003501	 BT003502	 BT003503	 BT003504
 BT003505	 BT003506	 BT003507	 BT003508
 BT003509	 BT003510	 BT003511	 BT003512
 BT003513	 BT003514	 BT003517	 BT005178

## Safety Helmet

•Material: PE, ABS    •Various color available



## ■ Respiration&Mask

### Disposable Respirator

100G/120G/140G/160G/180G/200G is available



*Three-layer Reusable Respirator with/without Valve (White/Grey)*



BT003610

*Single-Tank Gas Mask*  
Grey/Green/Blue



BT003614



BT003615



BT003616



BT003617



BT003618



BT003619

## ■ Earmuffs&Earplugs



## ■ Welding and Cutting Kit

*American Type (Victor Type)*



WCK-18 Journeyman Type

- Heavy Duty Regulators
- H315FC Torch handle
- CA2460 Cutting Attachment
- Cutting Tip
- Heating nozzle, Welding Tip
- Twin Hose 6 Meters/Roll
- Tip Cleaner, Goggle, Spanner, Lighter.



WCK-19 Journeyman II Type

- Heavy Duty Regulators
- H315FC Torch handle
- CA2460 Cutting Attachment
- Cutting Tip
- Heating nozzle, Welding Tip
- Twin Hose 6 Meters/Roll
- Tip Cleaner, Goggle, Spanner, Lighter.



WCK-20 SuperRange II Type

- CSR350 series regulators
- W/2" Color coded gauges
- 100FC Torch Handle
- CA 1350 Cutting Attachment
- 2-W-1 Welding Nozzle
- 1-3-101 Cutting Tip
- Pogies'
- 25' grade "I" twin hose
- multi wrench
- tip cleaners
- spark lighter
- Built-in flashback arrestors and reverse flow check valves
- stainless steel panel tool box



WCK-21 Performer Type

- ESS3 Series regulators
- 100FC torch handle with built-in flashback arrestors and check valves
- CA 1350 cutting attachment
- Cutting tip 0-3-101
- Heating nozzle Type MFA-1 Size 4
- Welding nozzle (W-1) 0
- T-grade hose 12.5' x 3/16" (3.8 m x 4.8 mm)
- Striker and tip cleaner, goggles

## Welding and Cutting Kit

### American Type (Victor Type)



WCK-22 Cutter Select ST2600FC Type

- ST 2600FC cutting torch with built-in flashback arrestors and check valves
- ESS4 Series regulators
- Available with 90° head angle



WCK-24 Cutter Select ST900FC Type

- ST 900FC cutting torch with built-in flashback arrestors and check valves
- ESS3 or CSR350 Series regulator
- Available with 90° head angle



WCK-15

- Medium Duty series Regulators,
- Medium Duty 150DC Torch Handle
- CA-100 Cutting Attachment
- MFN Welding Tip
- Cutting Tip: 1-101
- Twin-Welding Hoses: 5 Meters/roll
- Tip Cleaner, Goggle, Spanner, Lighter.



WCK-16

- Medium Duty 150DC Torch Handle
- CA-100 Cutting Attachment
- MFN Welding Tip
- Cutting Tip: 1-101
- Tip Cleaner, Lighter

## ■ Welding and Cutting Kit

### American Type (Victor Type)



WCK-17

- For Oxygen & Acetylene
- Medium Duty series Regulators.
- Medium Duty 150DC Torch Handle
- CA-100 Cutting Attachment
- Welding Tip,CP Heating Nozzle
- Cutting Tip: 1-101
- Twin-Welding Hoses: 5 Meters/roll
- Tip Cleaner,Goggle,Spanner,Lighter

### Australian Type



WCK-50

- Medium Duty series Regulators.
- Medium Duty GW247 Cutting Torch
- AU Welding Tip,CP Heating Nozzle
- Cutting Tip: 41
- Twin-Welding Hoses:5 Meters/roll
- Tip Cleaner,Goggle,Spanner,Lighter



WCK-23

- Oxygen and acetylene regulator
- Heavy Duty HD310C Torch handle
- CA2460 Cutting Attachment
- Welding Tip
- Cutting Tip:GPN
- Twin Hose
- Goggle
- Spanner
- Flint Lighter •Nozzle Cleaner



WCK-51

- Medium Duty series Regulators
- Medium Duty GW247 Cutting Torch
- CP Heating Nozzle,AU Welding Tip
- Cutting Tip: 41
- Flashback Arrestor 12 sets
- Circular Cutting Attachment
- Tip Cleaner,Goggle,Spanner,Lighter.
- Twin-Welding Hoses:10 Meters
- Tip Cleaner, Goggle, Spanner, Lighter

## ■ Welding and Cutting Kit

American Type (Harris Type)



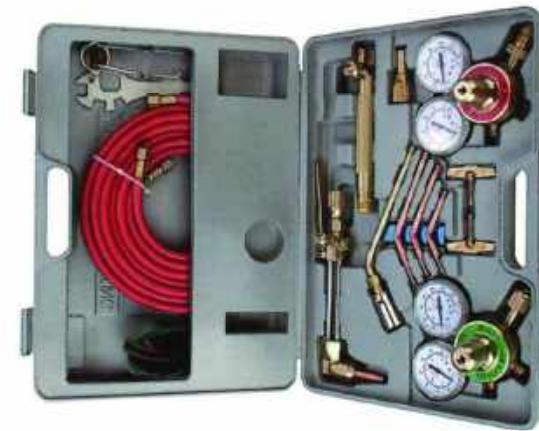
WCK-10

- 62-3F Cutting Torch
- Cutting Tips: 6290NX Cutting Tip
- Circler Cutting Attachment.
- Tip Cleaner



WCK-11

- Medium Duty 85 Torch Handle
- 72-3 Cutting Attachment
- Cutting Tips: 6290NX Cutting Tip
- L/W Welding Tip, CP Heating Nozzle
- Mixer,Circler Cutting Attachment



WCK-12

- Medium Duty series Regulators
- Medium Duty 85 Torch Handle
- 72-3 Cutting Attachment
- L/W Welding Tip, ST Heating Nozzle
- Cutting Tip: 6290
- Twin-Welding Hoses: 5 Meters/roll
- Tip Cleaner,Goggle,Spanner,Lighter

## ■ Welding and Cutting Kit

**Swedish Type (AGA Type)**



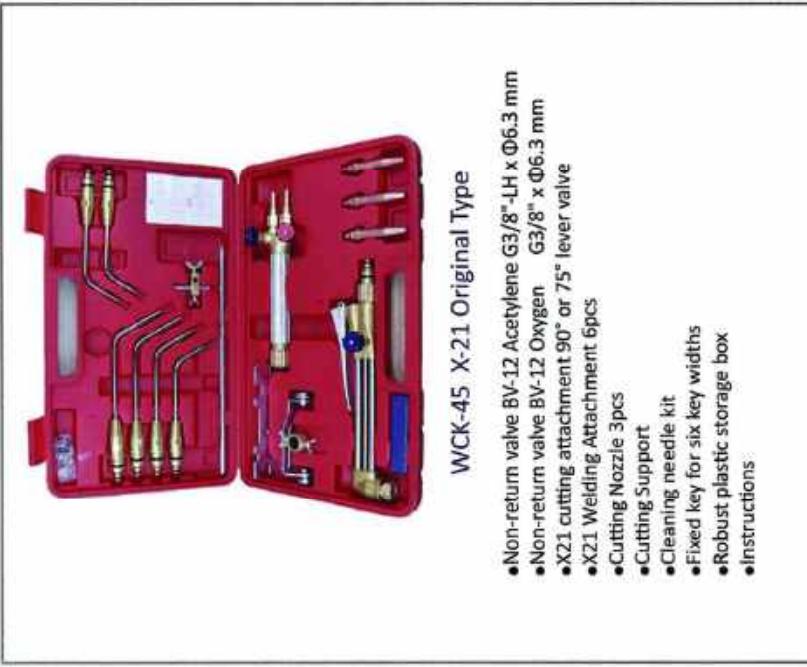
**WCK-43 X-11 Original Type**

- X11 torch handle with clamp coupling
- Non-return valve BV-12 Acetylene G1/4"-LH x Ø5.0 mm
- Non-return valve BV-12 Oxygen G1/4" x Ø5.0 mm
- X11 cutting attachment 90° injector with lever valve  
(Wheel Valve is optional)
- X11 Welding Attachment 6pcs
- Cutting Nozzle 3pcs
- Cleaning needle kit
- Fixed key for six key widths
- EVA packageing
- Robust plastic storage box
- Instructions



**WCK-44 X-11 Combi Type**

- X11 torch handle with clamp coupling
- Non-return valve BV-12 Acetylene G1/4"-LH x Ø5.0 mm
- Non-return valve BV-12 Oxygen G1/4" x Ø5.0 mm
- X11 cutting attachment 90° injector with lever valve  
(Wheel Valve is optional)
- X11 Welding Attachment 6pcs
- Cutting Nozzle 3pcs
- Fixicontrol HT Oxygen / Acetylene
- Flashback arrestor SAFE-GUARD-4 Oxygen / 4 Acetylene
- 10 meter twin hose Ø5.0 mm
- Welding Goggles •Gas Lighter •Cleaning needle kit
- Fixed key for six key widths •EVA packageing
- Robust plastic storage box •Instructions



**WCK-45 X-21 Original Type**

- Non-return valve BV-12 Acetylene G3/8"-LH x Ø6.3 mm
- Non-return valve BV-12 Oxygen G3/8" x Ø6.3 mm
- X21 cutting attachment 90° or 75° lever valve
- X21 Welding Attachment 6pcs
- Cutting Nozzle 3pcs
- Cutting Support
- Cleaning needle kit
- Fixed key for six key widths
- Robust plastic storage box
- Instructions



**WCK-46 X-21 Combi Type**

- X21 round torch handle with non-return valve BV 12
- Non-return valve BV-12 Acetylene G3/8"-LH x Ø6.3 mm
- Non-return valve BV-12 Oxygen G3/8" x Ø6.3 mm
- X21 cutting attachment 90° lever valve(75° are optional)
- X21 Welding Attachment 6pcs
- Cutting Nozzle 3pcs
- Unicontrol 500HT Oxygen / Acetylene
- Flashback arrestor SAFE-GUARD-Oxygen / 4 Acetylene
- 5 meter twin hose Ø6.3 mm
- Welding Goggles •Gas lighter •Cleaning needle kit
- Fixed key for six key widths •EVA packageing
- Robust plastic storage box •Instructions

## ■ Welding and Cutting Kit

### British Type



WCK-47

- Medium Duty series Regulators
- British type cutting torch
- Heating Nozzle
- Cutting Tips:Anne
- Flashback Arrestor : 2 sets
- Circle cutting Attachment
- Tip Cleaner,Goggle,Spanner,Lighter.
- Twin Hose 5 Meters

### Germany Type (Zinser Type)



WCK-48

- Cutting Torch Z-01A
- Cutting Nozzles Z-P 1# 2# 3# 4#
- Welding Nozzles 1#,2#,3#,4#
- Tip Cleaner
- Circle Cutter Attachment

### Switzerland Type (GLOOR Type)



WCK-27

- Cutting attachment and Torch Handle
- Welding tip 1#-6#
- Light duty gloo type cutting nozzle 1#, 2#, 3#
- Circle cutting attachment
- 1 PC each big spanner and small spanner
- Tip cleaner



WCK-28

- Cutting attachment and Torch Handle
- Welding tip Bpc 1#-8#
- Heavy duty gloo type cutting nozzle 1#, 2#, 3#
- Circle cutting attachment
- 1 PC each big spanner and small spanner
- Tip cleaner

## ■ Gas Cutting & Welding Torch

American Type   Victor Type



CT-387



CT-388

Model	Description	Head	Nozzle for propane	Nozzle for Acetylene	Length	Cutting capacity
CT-387	ST-900FC Cutting Torch	90°	GPN	1-101	530mm	3-100mm
CT-388	ST-2600FC Cutting Torch	90°Victor	GPN	1-101	21"/53cm	3-100mm



CWT-08

### 100FC Handle Cutting & Welding Torch

Model	Head	Cutting Nozzle	Heating/Welding Nozzle	Cutting Capacity
CWT-08-1350	90°	GPN,1-101		3-150mm
CWT-08-W1	90°		W-1 Tip	
CWT-08-MFA	90°		MFA	

### 315FC Cutting & Welding Torch

Model	Head	Cutting Nozzle	Heating/Welding Nozzle	Length(mm)	Capacity
CWT-13-CGA200	90°	GPN,1-101		495	3-100mm
CWT-13-2460	90°	GPN,1-101		475	3-200mm
CWT-13-W	90°		W Tip		
CWT-13-MFA	90°		MFA		

### HD310C Cutting & Welding Torch

Model	Head	Cutting Nozzle	Heating/Welding Nozzle	Length(mm)	Capacity
CWT-14-CGA200	90°	GPN,1-101		490	3-100mm
CWT-14-2460	90°	GPN,1-101		470	3-100mm
CWT-14-W	90°		W Tip		
CWT-14-MFA	90°		MFA		



CWT-14



WT-261

### Jewelry Little Welding Torch

Model	Welding Nozzle	Remark
WT-261	2#-6#	SPC Welding Pipe

## ■ Gas Cutting & Welding Torch

### American Type    Harris Type



Model	Description	Head	Cutting Nozzle	Welding Tip
CWT-15A	85 Type Cutting Torch	90°	6290	L/W Welding tip
CWT-15B	85 Type Welding Torch	D-86 mixer		



Model	Description	Head	Nozzle for Acetylene	Nozzle for Propane	Length(mm)
CT-490	880 Type Cutting Torch	90°	6290	6290NX,6290VVC	470mm
CT-491	62-3F Cutting Torch	90°/105°	6290	6290NX,6290VVC	480/650/1100

### Japanese Type



Model	Description	Head	Nozzle for propane	Nozzle for Acetylene	Length(mm)	Cutting capacity
CT-492	G02-200 Cutting Torch	90°	PNM,PANME,106	ANM,ANME,102	485	3-300mm
CT-493	KIÖKE MK-100 Type Cutting Torch	90°	PNM,PANME,106	ANM,ANME,102	480	3-150mm



Model	Description	Head	Welding/Cutting Nozzle	Remark
WT-270A	YAMATO Type Welding Torch	WT-08		5pc welding nozzle & 1pc star holder
WT-270B	YAMATO Type Welding Torch	WT-08		5pc welding nozzle & 1pc star holder. Cr-plated
CWT-16	GO1-440 Cutting & Welding Torch	90°	"A", "M"	3-100mm

Model	Description	Head	Welding/Cutting Nozzle	Remark
WT-270A	YAMATO Type Welding Torch	WT-08		5pc welding nozzle & 1pc star holder
WT-270B	YAMATO Type Welding Torch	WT-08		5pc welding nozzle & 1pc star holder. Cr-plated
CWT-16	GO1-440 Cutting & Welding Torch	90°	"A", "M"	3-100mm

## ■ Gas Cutting & Welding Torch

### British Type



CT-380



CT-381



WT-250

Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene	Length(mm)	Remark
CT-380	NM-250 Cutting Torch	90°/180°/75°	PNM,PNME	ANM, ANME	480/650/930/1100	3-300mm
CT-381	440 Cutting Torch	90°	PNM,PNME	ANM, ANME	430	3-300mm
WT-250	Welding Torch		2028W		385	5ps welding nozzles star holder 1pc



CWT-10



CWT-11



CWT-12

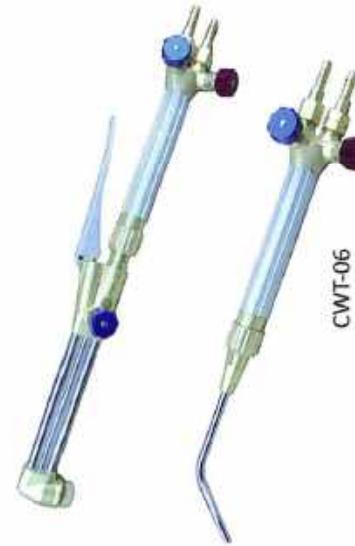
Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene	Welding Tip	Cutting Capacity	Welding Capacity
CWT-10	Saffire DH3 Type Cutting&Welding Torch	90°		AN	J/W	3-50mm	0.5-8mm
CWT-11	Saffire S40 Type Cutting&Welding Torch	90°	PNM,PNME	ANM,ANME,AGNM	100F type	3-300mm	0.5-25mm
CWT-12	Saffire S60 Type Cutting&Welding Torch	90°	PNM,PNME	ANM,ANME,AGNM	2/3 type	3-300mm	0.5-25mm

## ■ Gas Cutting & Welding Torch

### Swedish Type



CWT-05



CWT-06

Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene	Welding Nozzle
CWT-05	X11 Type Cutting and Welding Torch	90°/180°	HP 433	HA 411	A Series
CWT-06	X21 Type Cutting and Welding Torch	75°/90°/180°	P 331	HA 311	A Series

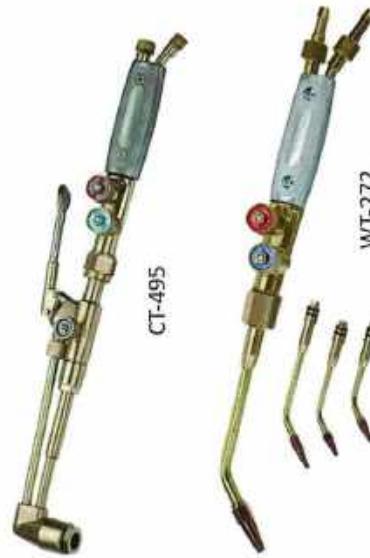


CT-361

Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene	Length
CT-361	X511 Type Cutting Torch	75°/90°/180°	G1-P	G1-A	470/855/1155mm

■ Gas Cutting & Welding Torch

Switzerland Type



Model	Description	Welding
CT-495	Cutting Torch	✓
CWT-17	Cutting&Welding Torch	✓

Model	Description	Welding Nozzle	Nozzle for propane	Nozzle for Acetylene	Remark
CT-495	Cutting Torch		82021A	82021P	3-100mm
CWT-17	Cutting&Welding Torch		82021A	82021P	3-300mm
WT-17	Welding Torch				A Pro. Waldine Dine.

French Type



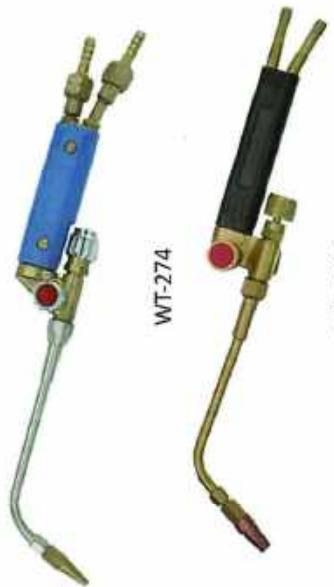
CT-496



CT-497

Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene	Cutting Capacity
CT-496	SAF Type Cutting Torch	90°	G1-P	G1-A	3-300mm
CT-497	Le Lorrain Type Cutting Torch	90°	G1-P	G1-A	3-300mm

WT-275



WT-276

Model	Description
LLM-1	Model 1, 2023

Model	Description	Welding Nozzle	Length(mm)	Description
WT-273	SAF Type Welding Torch	WT-08	345	5pcs Welding Nozzles & 1pc star holder
WT-274	Welding Torch	WT-08	345	5pcs Welding Nozzles & 1pc star holder
WT-275	Sofilo Type Welding Torch	WT-08LPG	325	5pcs Welding Nozzles & 1pc star holder
WT-276	Welding Torch	WT-08AC	315	5pcs Welding Nozzles & 1pc star holder

## ■ Gas Cutting & Welding Torch

### Germany Type



CT-498 Cutting Torch Set



CWT-18 Cutting & Welding Torch Set

### Russian Type



CT-590



CT-592



CT-591



WT-278

Model	Description	Head	Nozzle for AC	Nozzle for LPG	Welding Nozzle	Remark
CT-590	Cutting Torch	90°	2023AC	2023LPG		
CT-591	Cutting Torch	90°	2023AC	2023LPG		
CT-592	Cutting Torch	90°	2023AC	2023LPG		
WT-278	Welding Torch				2024W	1PC Welding Pipe

## ■ Gas Cutting & Welding Torch

### Australian Type



Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene
CT-593	Cutting Torch	90°	44Type	41Type

CT-593

### Brazilian Type



CT-594A

CT-594B

Model	Description	Head	Nozzle for propane	Nozzle for Acetylene
CT-594A	Cutting Torch	90°	1502	1503
CT-594B	Cutting Torch	90°	1502	1503



CT-596

WT-279

Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene
CT-596	Cutting Torch	90°	1502	1503
WT-279	Welding Torch		\$-100 (Welding Nozzle)	

### Indian Type



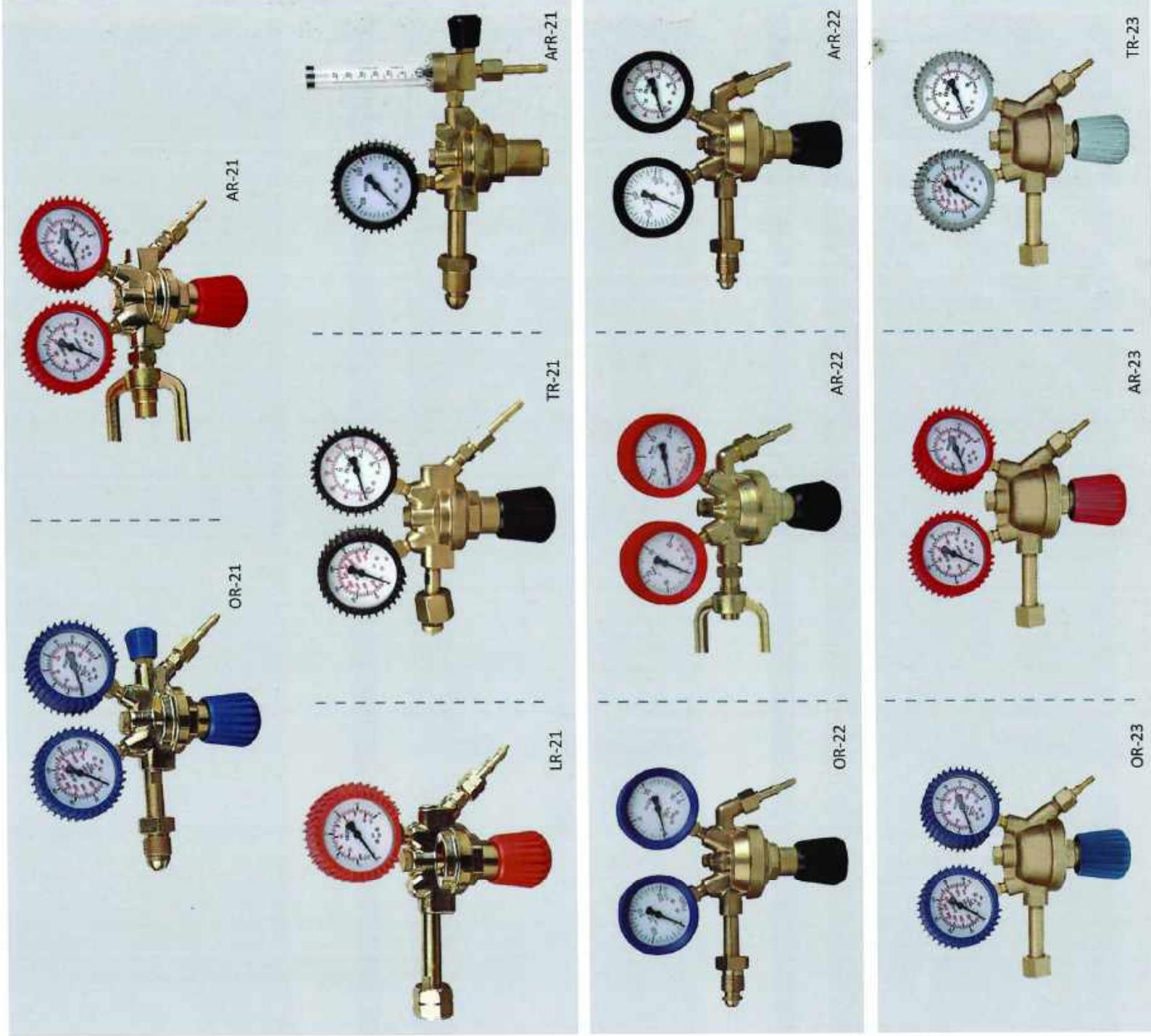
Model	Description	Head	Nozzle for Propane	Nozzle for Acetylene
CT-597	Cutting Torch	90°	44	41

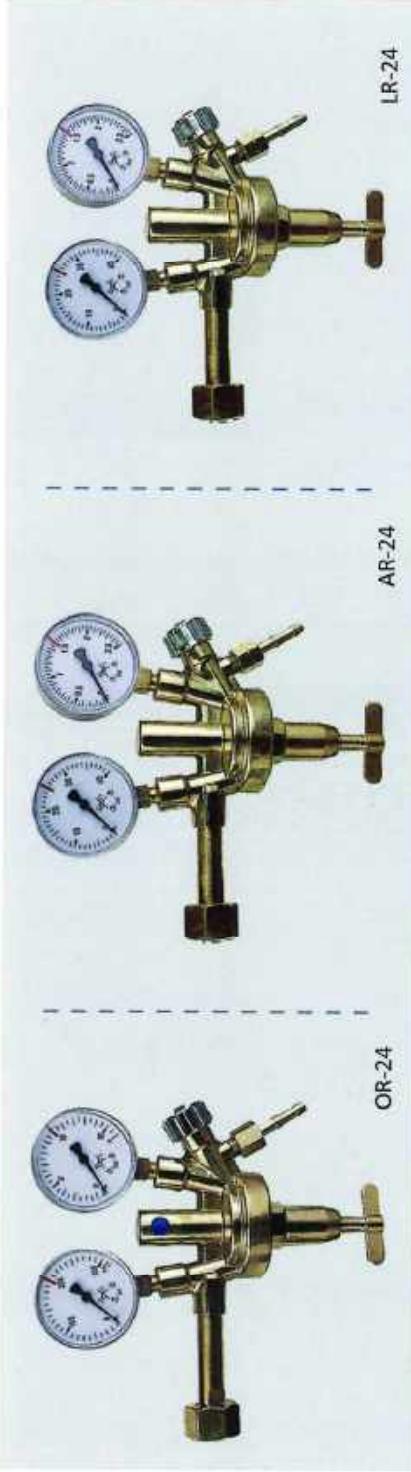
41

**■ Regulator****American Type VICTOR Type****American Type HARRIS Type**

## ■ Regulator

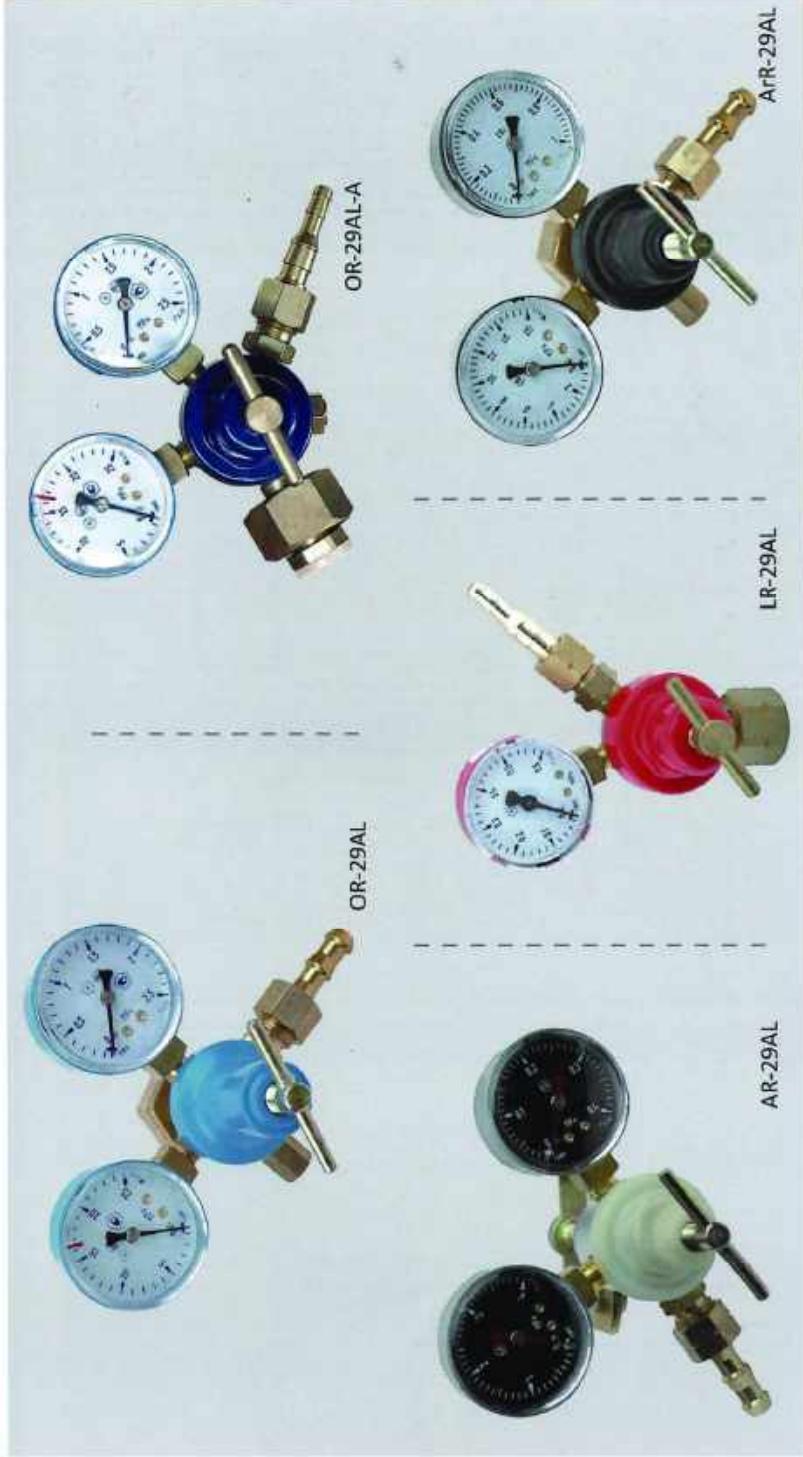
### Italian Type

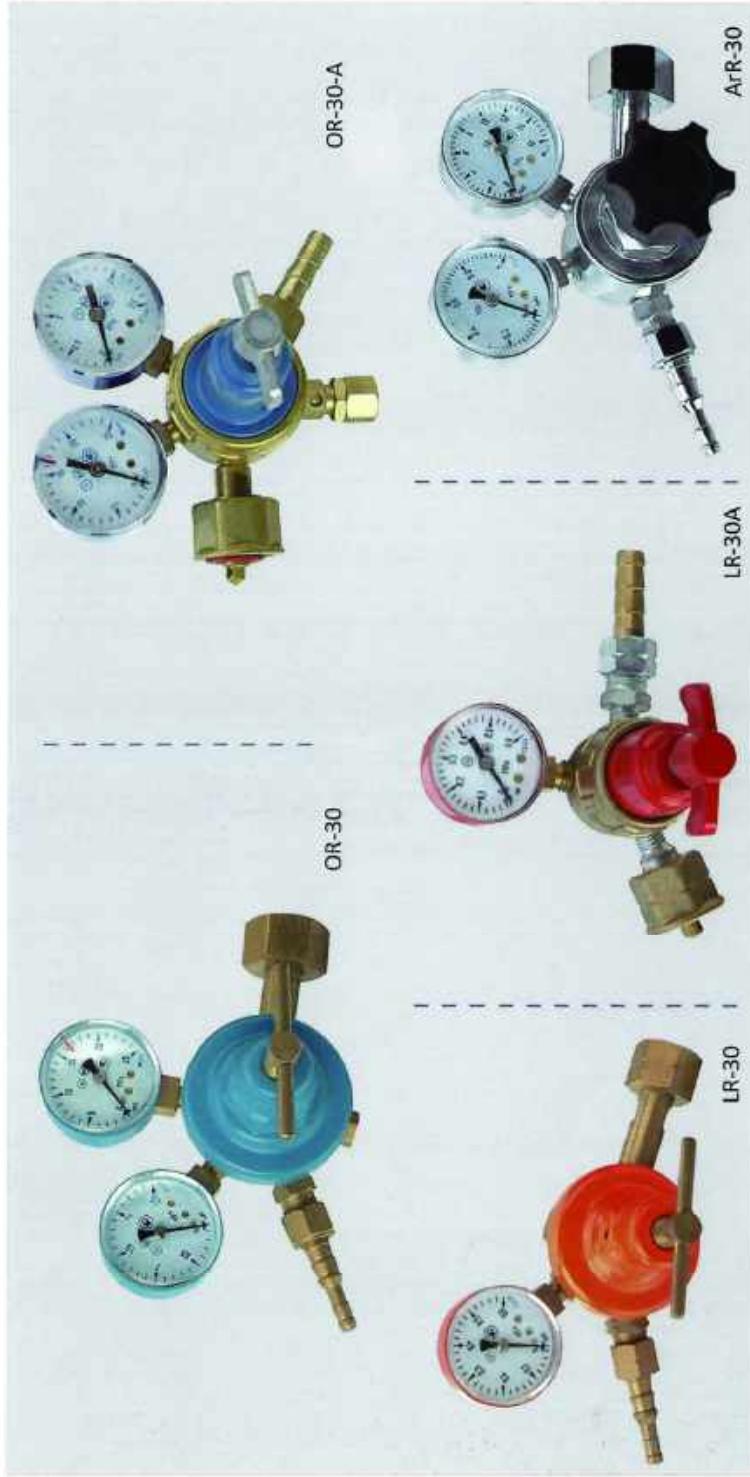
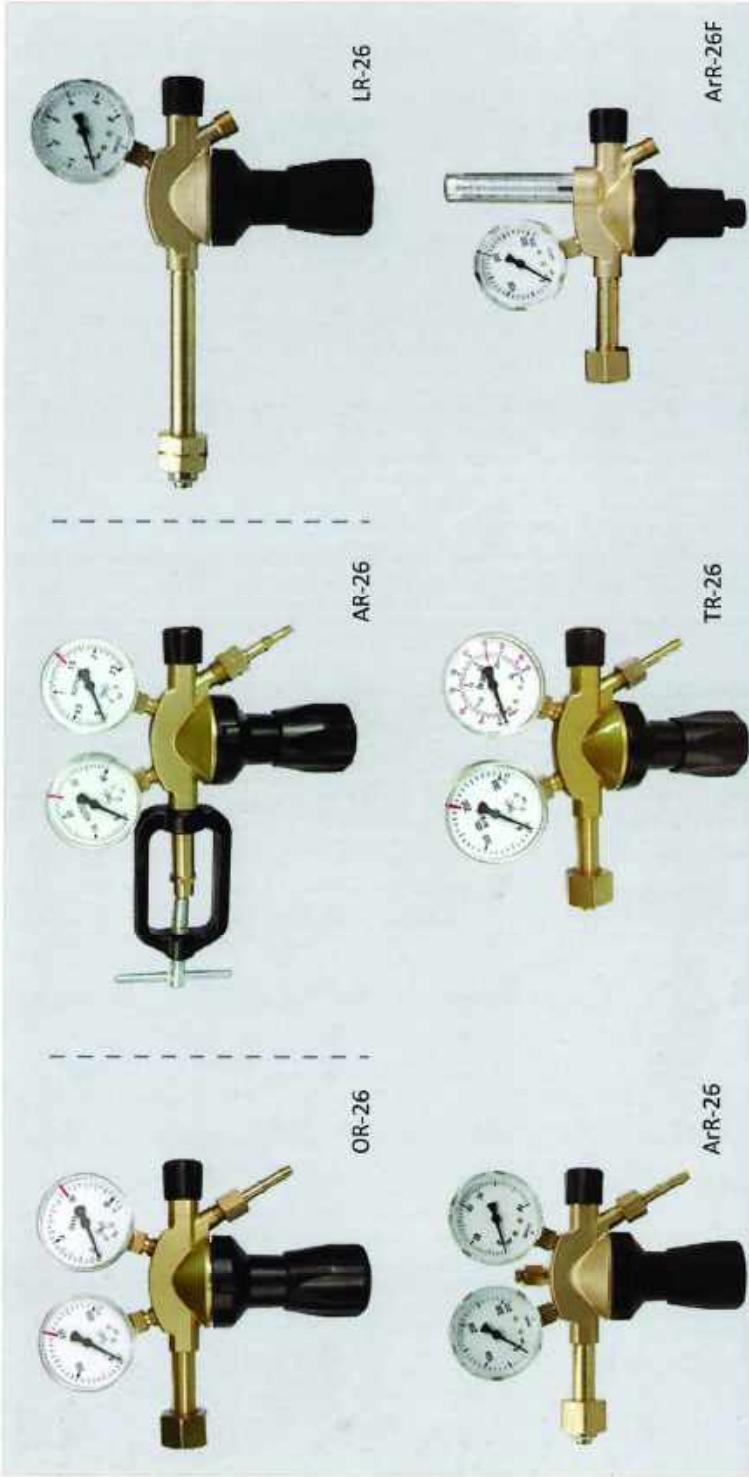


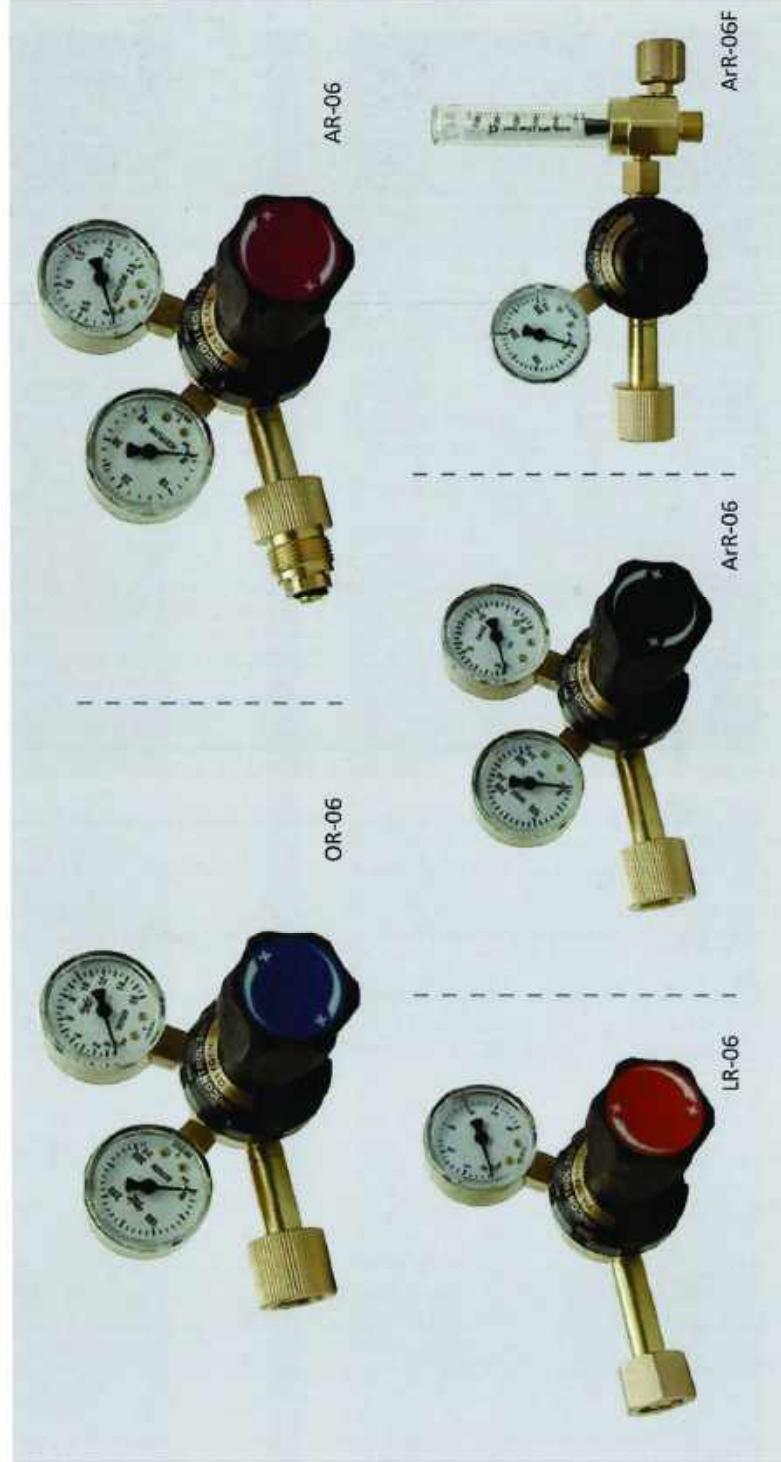
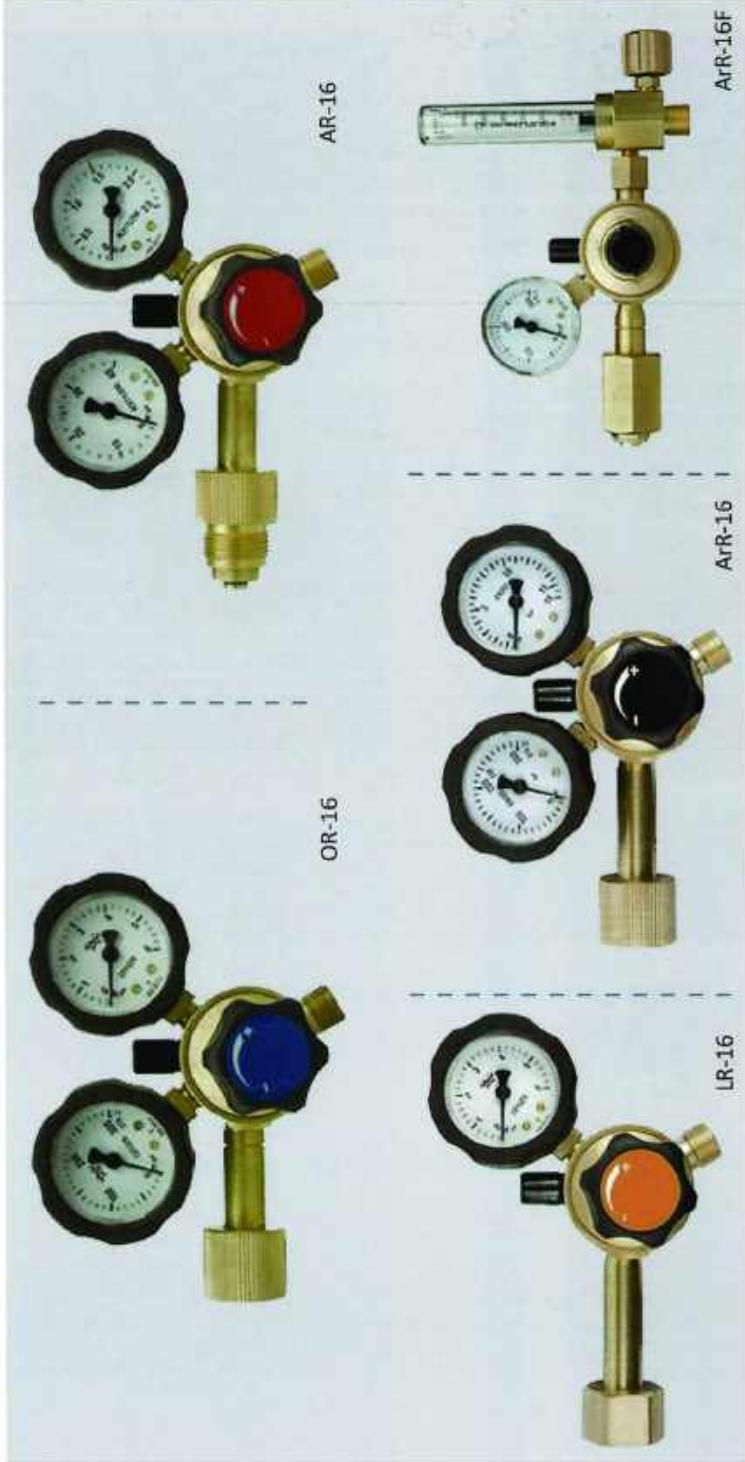
**■ Regulator****Germany Type****French Type****Switzerland Type**

**■ Regulator**

Russian Type



**■ Regulator****Russian Type****Swedish Type**

**■ Regulator****Swedish Type**

## ■ Regulator

### British Type



### Japanese Type YAMATO Type

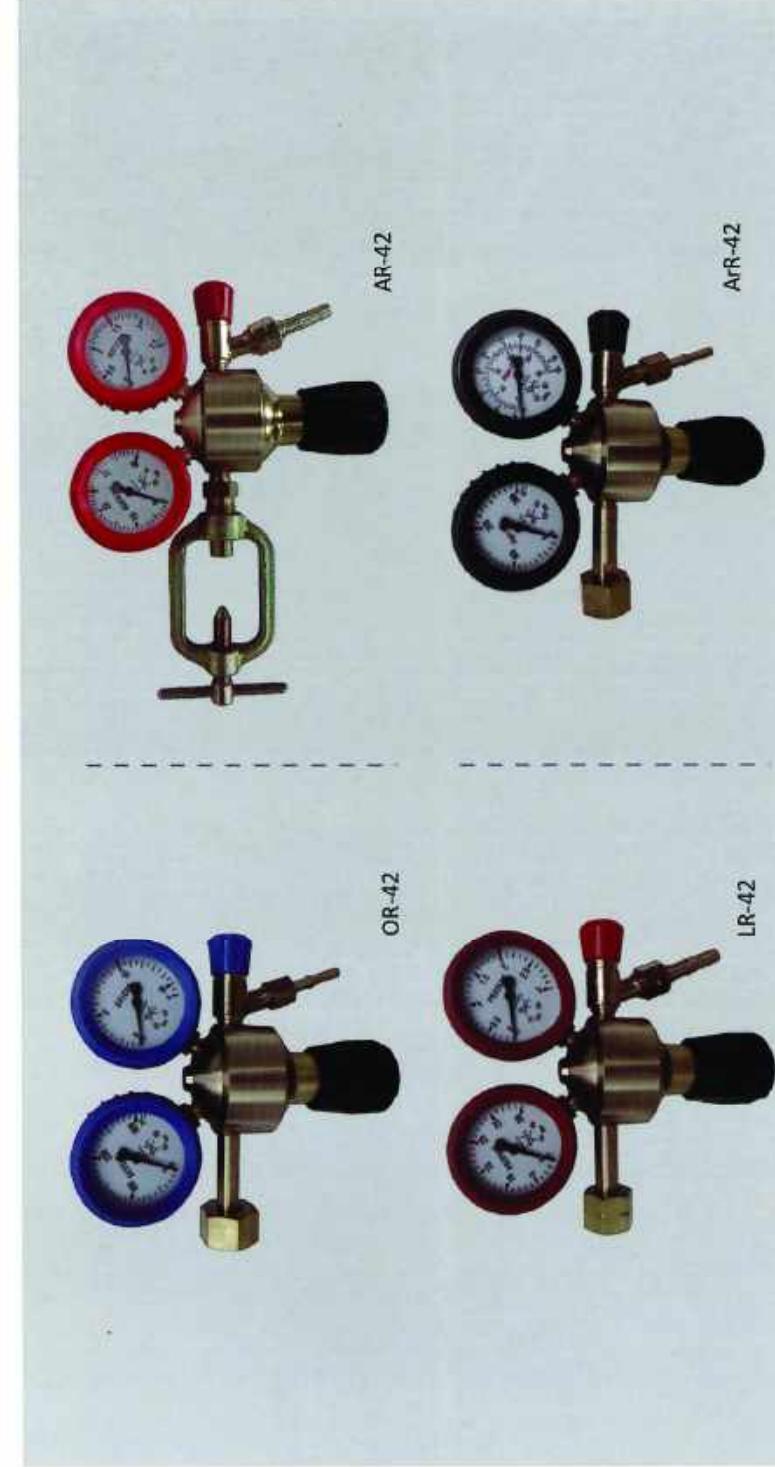


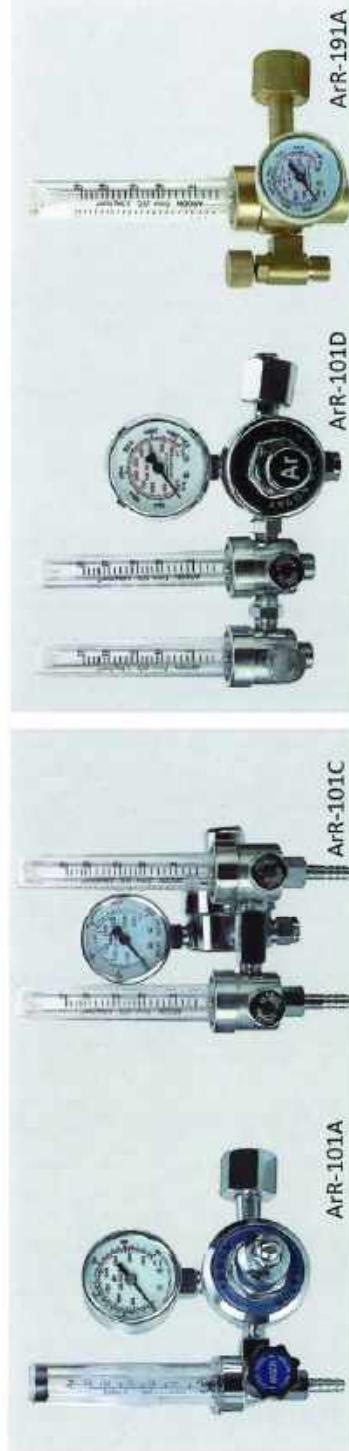
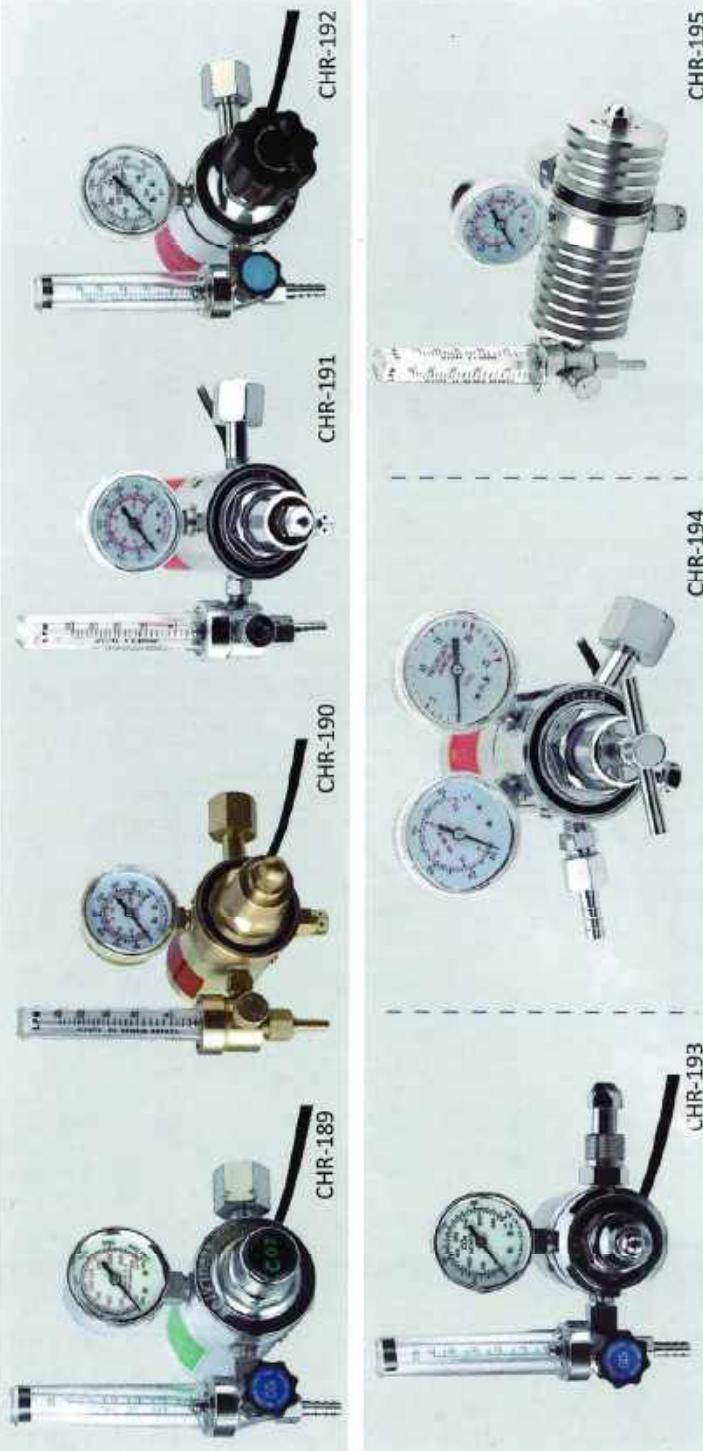
### Indonesia Type



## ■ Regulator

### Other Types



**Regulator****Argon/CO<sub>2</sub> Flowmeter Regulator****CO<sub>2</sub> Heater Regulator**

## Cutting Nozzle

### SMITH Type



### PUROXTIP Type



### OXWELD Type



### TANAKA Type



## ■ Cutting Nozzle

### Other Types



## ■ Heating Nozzle



## ■ Welding Pipe

Model	Description	Gas	Size
BT003373	VICTOR W type	Acetylene	#0, #1, #2
BT003374	BRITISH SW2/3 type	Acetylene	#1,2,3,5,7,10,13,18,25
BT003375	BRITISH L/W type	Acetylene	#1,2,3,5,7,10,13,18,25

Model	Description	Gas	Thread	Size
BT003376	CIGWELD 551 type	Acetylene	3/8"-26	#4,6,8,10,12,15,2
BT003377	CIGWELD 554 type	Propane	3/8"-26	#8, 12, 15, 20

## Flashback Arrestor



## ■ Welding Hose

## Oxygen Hose Acetylene Hose



### *Twin Hose*



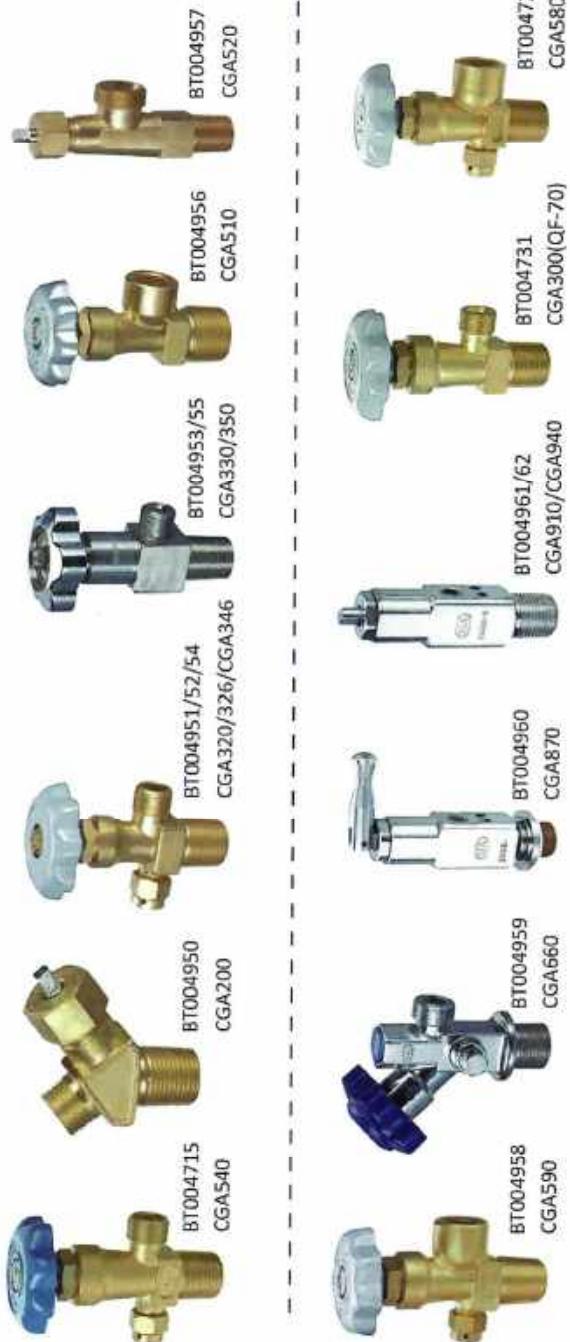
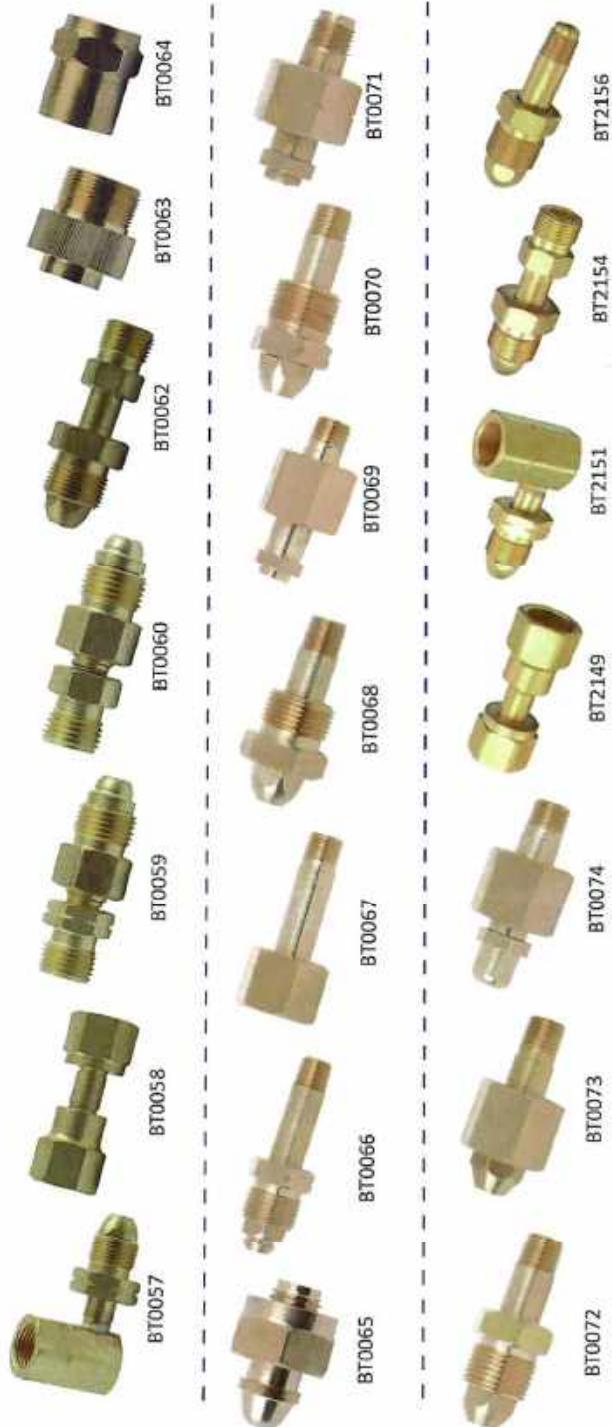
*Propane Hose (Size: 6/8/10mm)*



I.D.	O.D.	W.P.	W.P.	B.P.	B.P.	Temp.	M/Roll	Material	Surface
mm	mm	Kg/cm <sup>2</sup>	PSI	Kg/cm <sup>2</sup>	PSI	°C			
5.0	12.0	20	290	60	870	-15~65	50		
6.5	13.0	20	290	60	870	-15~65	50		
8.0	15.0	20	290	60	870	-15~65	50	Rubber	Matte
9.0	16.0	20	290	60	870	-15~65	50		
10.0	17.0	20	290	60	870	-15~65	50		
13.0	21.0	20	290	60	870	-15~65	50		

**■ Spark Lighter****■ Flint Stone****■ Soapstone&Holder***Round Soapstone**Flat Soapstone**Round Soapstone Holder**Flat Soapstone Holder***■ Spanner & Wrench**

**Gas Valve****Valve Series for Oxygen Cylinder****Valve Series for Acetylene Cylinder**

**■ Gas Valve****CGA Series****Valve series for LPG Cylinder****■ Adapter**

## ■ Welding Wire

### Carbon Steel Welding Wire

AWS ER70S-3, ER70S-6, ER70S-G



For MIG

Specification:  $\phi 0.8, 1.0, 1.2, 1.6$

Packing: 15kg/black spool/carton

For TIG

Specification:  $\phi 1.6, 2.0, 2.5, 3.2, 4.0, 5.0$

Packing: 1meter/pc, 10kg/tube



### Aluminum Welding Wire

AWS ER1060, ER1070, ER1100, ER4043, ER4047, ER5356, ER5183



For MIG

Specification:  $\phi 0.8, 0.9, 1.0, 1.2, 1.6, 2.0$

Packing: 7kgs/Roll, 1roll/carton

For TIG

Specification:  $\phi 1.6, 2.0, 2.5, 3.2, 4.0, 5.0, 6.0$

Packing: 1meter/pc, 10kgs/carton



### Stainless Steel Welding Wire

AWS ER304, ER308, ER308L, ER309, ER309L, ER310, ER316, ER316L, ER430



For MIG

For TIG

Specification:  $\phi 0.8, 1.0, 1.2, 1.6$

Packing: 15kg/spool/carton

Specification:  $\phi 1.6, 2.0, 2.5, 3.2, 4.0, 5.0$

Packing: 1meter/pc, 10kg/tube



## ■ Welding Wire

### Carbon Steel Submerged Arc Welding Wire



AWS EL-8, EM12, EH14, EM13K  
Specification:  $\phi$ 1.6, 2.0, 2.5, 3.2, 4.0, 5.0  
Packing: 25kg/spool/carton

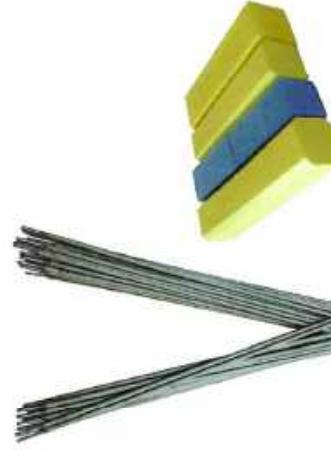


### Flux Cored Wire

AWS E71T-1, E71T-11, E308T-1, E309LT1-1, E309LT1-1, E316LT1-1, E347LT1-1  
Specification:  $\phi$ 0.8, 1.0, 1.2, 1.6  
Packing: 15kg/spool/carton

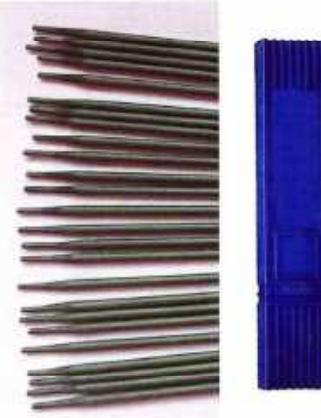
## ■ Welding Rods

### Carbon Steel Welding Rod



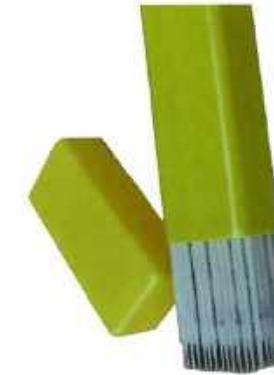
AWS E6010, E6011, E6013, E7015, E7016, E7018, E7024  
Specification:  $\phi$ 2.5, 3.2, 4.0, 5.0

### Cast Iron Welding Rod



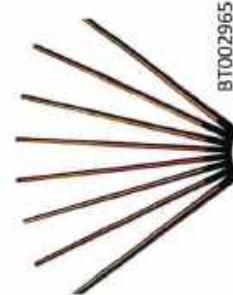
AWS ECI, ENI-Cl, ENIFe-Cl, ENICu-B  
Specification:  $\phi$ 2.5, 3.2, 4.0, 5.0

### Stainless Steel Welding Rod



AWS	Diameter(mm)	AWS	Diameter(mm)
E307-16	2.5,3,2.4,0.5,0	E316-16	2.5,3,2.4,0.5,0
E308-15	2.5,3,2.4,0.5,0	E317L-16	2.5,3,2.4,0.5,0
E308-16	2.5,3,2.4,0.5,0	E318-16	2.5,3,2.4,0.5,0
E308L-16	2.5,3,2.4,0.5,0	E320-16	2.5,3,2.4,0.5,0
E309-15	2.5,3,2.4,0.5,0	E347-15	2.5,3,2.4,0.5,0
E309-16	2.5,3,2.4,0.5,0	E347-16	2.5,3,2.4,0.5,0
E309L-16	2.5,3,2.4,0.5,0	E347L-16	2.5,3,2.4,0.5,0
E310-15	2.5,3,2.4,0.5,0	E410-15	2.5,3,2.4,0.5,0
E310-16	2.5,3,2.4,0.5,0	E410-16	2.5,3,2.4,0.5,0
E312-16	2.5,3,2.4,0.5,0	E430-15	2.5,3,2.4,0.5,0
E316-15	2.5,3,2.4,0.5,0	E502-15	2.5,3,2.4,0.5,0

## ■ Carbon Gouging Rod



BT002965

## DC Copper Coated Pointed Rod



BT002967

## DC Copper Coated with Striated Surface

Diameter*Length mm	Length Inches	Current Range(A)
3.2*305	1/8*12'	130-180
4*355	5/32*14'	150-200
5*355	3/16*12'	200-250
6*355	15/64*14'	300-350
7*355	9/32*14'	350-400
8*355	5/16*14'	400-450
9*355	23/64*14'	450-500
10*355	3/8*14'	500-550
11*355	7/16*14'	600-650
12*355	15/32*14'	750-850
13*430	1/2*17'	800-1000
16*430	5/8*17'	1000-1200
19*430	3/4*17'	1200-1400

Diameter*Length mm	Length Inches	Current Range(A)	
3.2*305	1/8*12'	140-190	
4*355	5/32*14'	170-220	
5*355	3/16*12'	220-270	
6*355	15/64*14'	320-370	
7*355	9/32*14'	370-420	
8*355	5/16*14'	420-470	
9*355	23/64*14'	470-520	
10*355	3/8*14'	520-570	
11*355	7/16*14'	620-670	
12*355	15/32*14'	770-870	
13*430	1/2*17'	820-1050	
16*430	5/8*17'	1050-1250	
19*430	3/4*17'	1250-1450	

## DC Copper Coated Flat Rods



BT002966

## DC Copper Coated Jointed Rods



BT002968

Diameter*Length mm	Length Inches	Current Range(A)
4*12*355	5/32*15/32*	200-250
5*10*355	3/16*3/8*14'	250-300
5*12*355	3/16*15/32*	300-350
5*15*355	3/16*19/32*	350-400
5*18*355	3/16*45/64*	400-450
5*20*355	3/16*25/32*	450-500
5*25*355	3/16*63/64*	500-550
6*20*355	15/64*25/32	550-600

Diameter*Length mm	Length Inches	Current Range(A)
8*355	5/16*14'	500-550
9*355	23/64*14'	550-600
10*355	3/8*14'	600-650
11*355	7/16*14'	650-700
12*355	15/32*14'	700-800
13*430	1/2*17'	800-1000
16*430	5/8*17'	1000-1200
19*430	3/4*17'	1200-1400

## ■ Tungsten Electrode



WT10, WT20, WT30, WT40, WL10, WL15, WL20, WC20, WP, WY20, W23, WZ8  
Specification:  $\phi 1.0, 1.6, 2, 2.4, 3.2, 4.0, 6.0$   
Length: 150mm / 175mm  
Packing: 10pcs/box, 5pcs/box

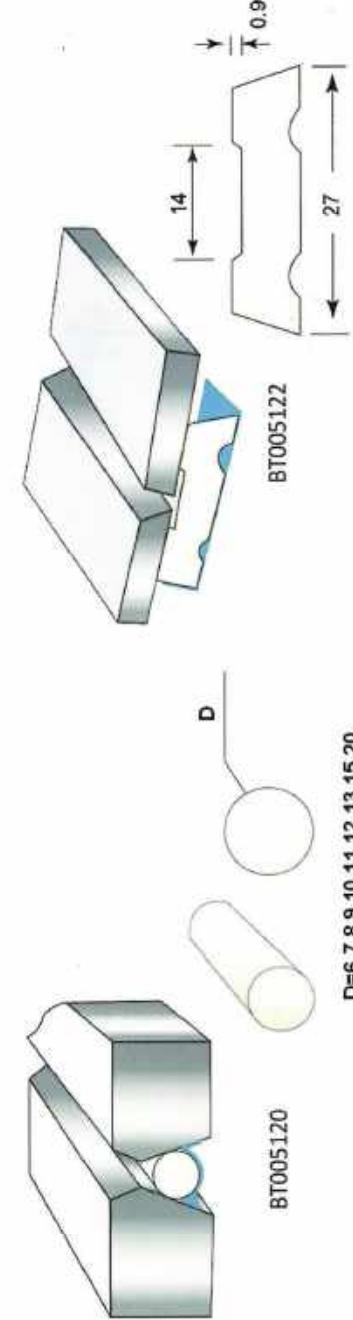
## ■ Welding Flux

### Fused Welding Flux / Sintered Welding Flux



SJ101, SJ102, SJ301, SJ501, SJ503, HJ260, HJ350, H431  
Packing: 22tons/pallet, 25kg/bag

## ■ Welding Backing



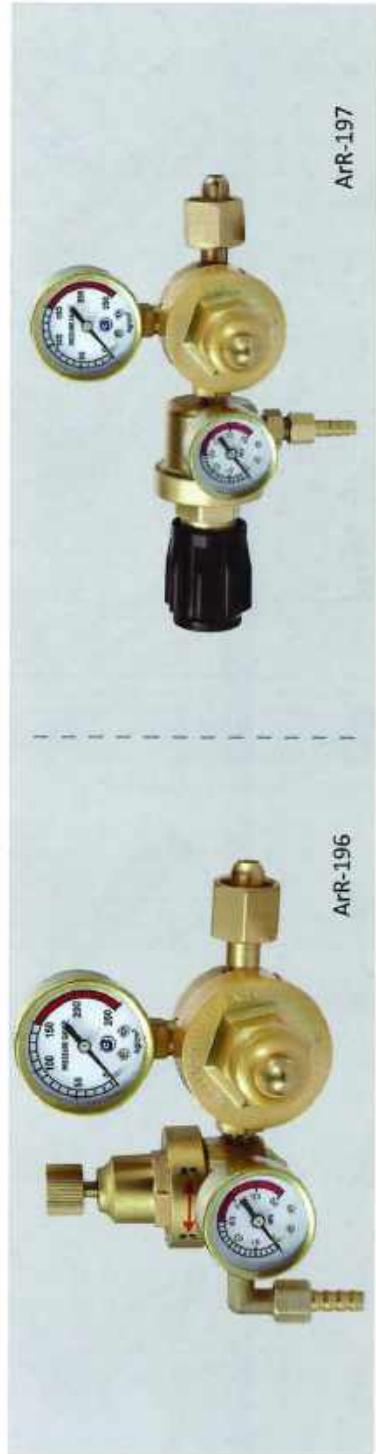
The detailed specification for welding backing can be customized

## ■ Regulator

### CO<sub>2</sub> Heater



*Econo-Saving Type Regulator*

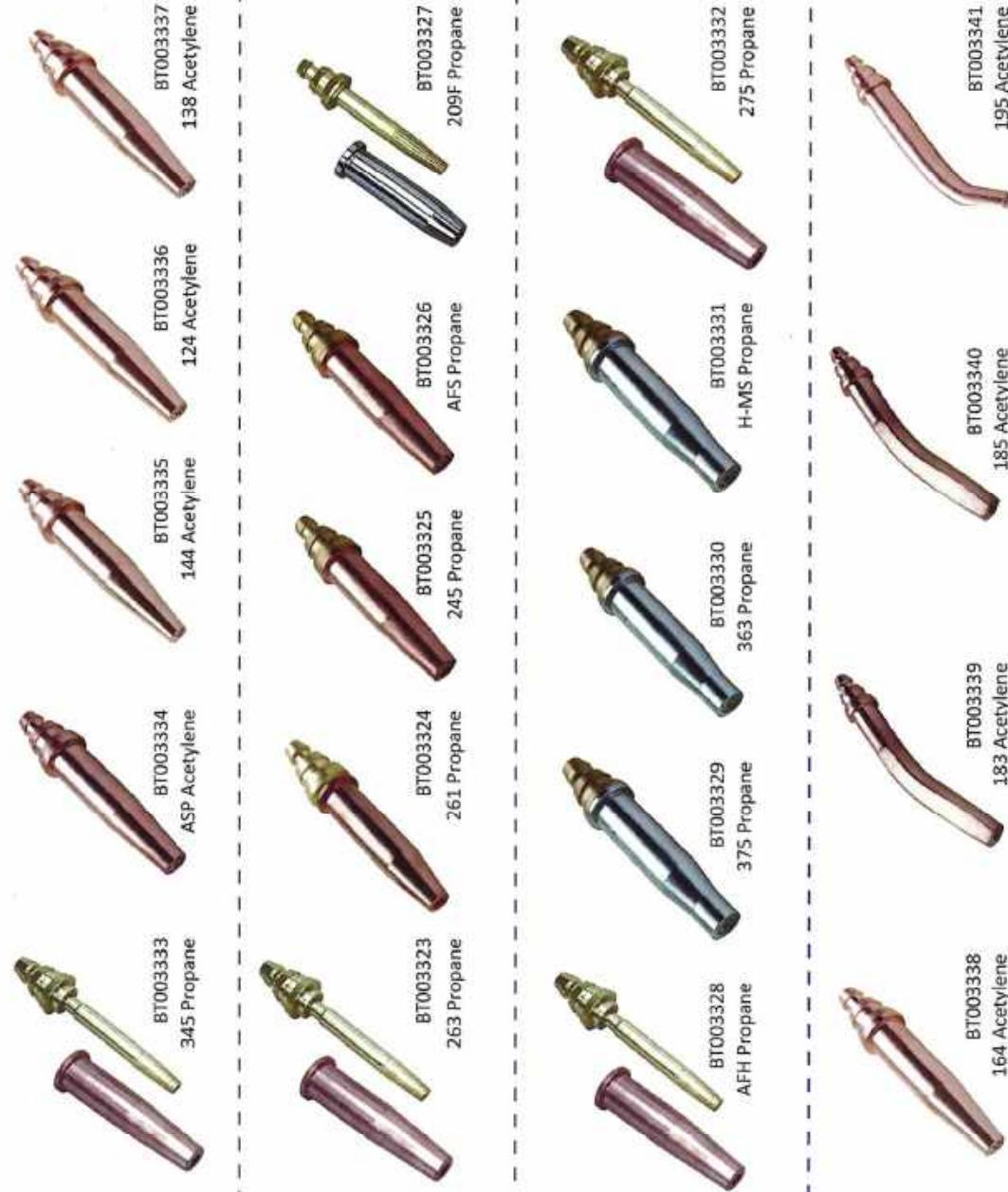


In terms of welding methods, normally we use conventional pressure regulators and flowmeters in TIG, MIG and CO<sub>2</sub> arc welding, but in this way, much volume of wasteful gas is discharged in a few seconds at start of welding. Besides the poor efficiency, it adversely affects the welding surfaces and may spoil welding quality.  
 "Econo-Saving" has been developed to minimize discharge of wasteful gas. It keeps gas flow at constant rate when start welding and assures smooth arc start and energy saving without spoiling the welding quality.

Model	Gas	Outlet Flowmeter	Outlet Pressure	Supply Voltage
CHR-196	CO <sub>2</sub>	0-25LPM	0.35 Mpa	36V / 110V / 220V
CHR-197	CO <sub>2</sub>	0-25LPM	0.35 Mpa	36V / 110V / 220V
ArR-196	Ar-R	0-25LPM	0.35 Mpa	/
ArR-197	Ar-R	0-25LPM	0.35 Mpa	/

## Cutting Nozzle

### AIRCO Type



### CHIYODA Type



### GIOOR Type



PRODUCT  
**CATALOGUE**

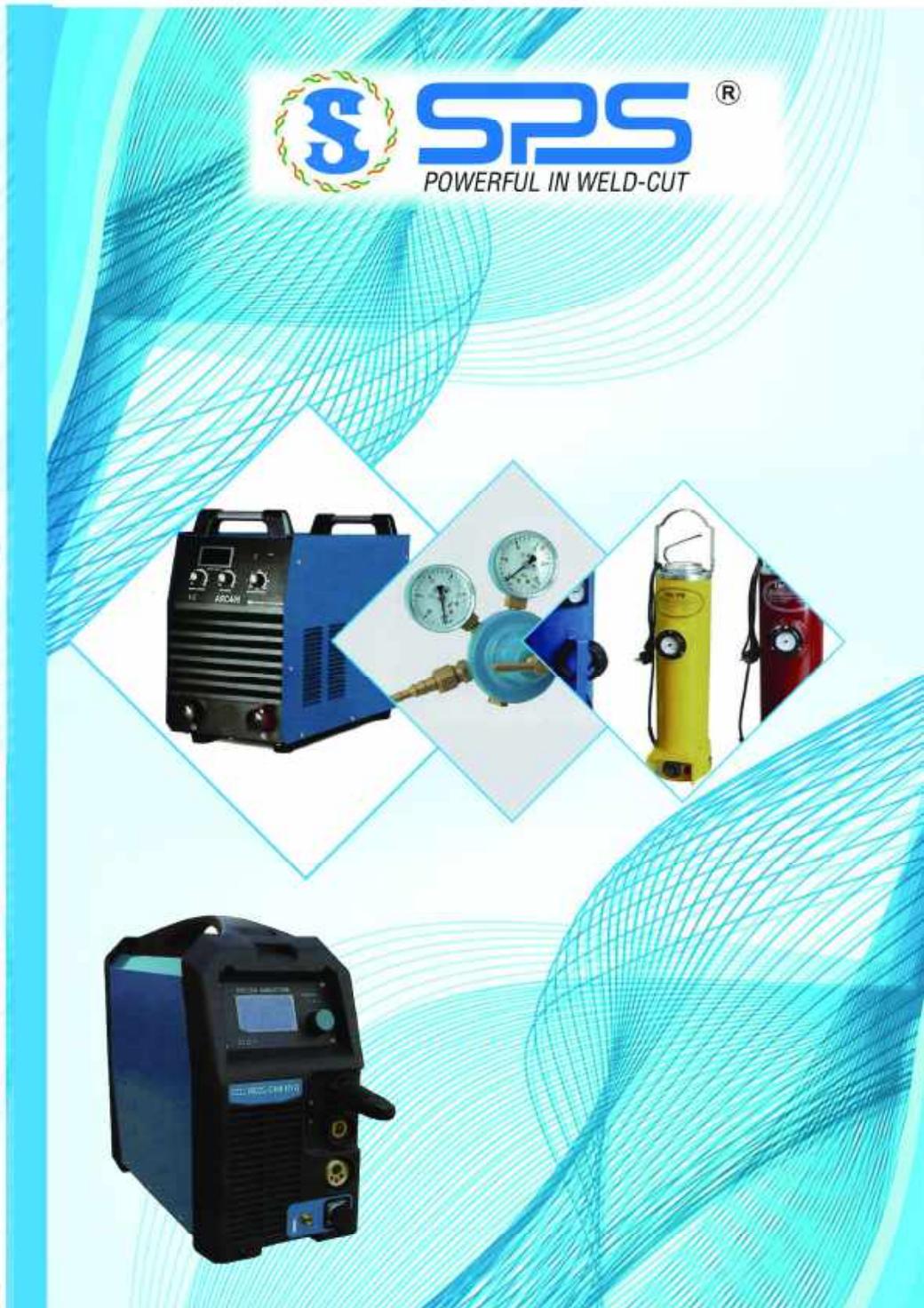
Complete Solutions For  
Welding & Cutting  
2016-2017



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POWERFUL IN WELD-CUT





**POWERFUL IN WELL**

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## MMA-160



- Automatically compensate Voltage fluctuation.
- Automatically over-voltage and over-current protection.
- Good thrust compensation and dynamic characteristics, less spatter, high efficiency and excellent weld appearance.
- Applicable to a variety of acidic and alkaline electrode.
- Applicable Material: Carbon steel, Stainless steel, Low-alloy steel.
- Can continuously weld φ3.2mm electrode rods

Model	MMA-160
Rated Input Voltage	220V±15%
Rated Input Power	4.8kVA
No-load Voltage	56V
Range of Output Current	20-160A
Duty Cycle	60%
Insulation Grade	F
Protection Class	IP21S
Dimension(mm)	280x110x160
Weight	4.2kg

## MMA-200



- Automatically compensate Voltage fluctuation.
- Automatically over-voltage and over-current protection.
- Good thrust compensation and dynamic characteristics, less spatter, high efficiency and excellent weld appearance.
- Applicable to a variety of acidic and alkaline electrode.
- Applicable Material: Carbon steel, Stainless steel, Low-alloy steel.
- Can continuously weld φ4.0mm electrode rods

Model	MMA-200
Rated Input Voltage	220V±15%
Rated Input Power	6.0kVA
No-load Voltage	62V
Range of Output Current	20-200A
Duty Cycle	60%
Insulation Grade	F
Protection Class	IP21S
Dimension(mm)	315x120x198
Weight	6.5kg

## MMA-315D



- Dual Voltage 220V/380V.
- MMA/Lift TIG.
- Automatically compensate Voltage fluctuation.
- Automatically over-voltage and over-current protection.
- Good thrust compensation and dynamic characteristics, less spatter, high efficiency and excellent weld appearance.
- Applicable to a variety of acidic and alkaline electrode.
- Applicable Material: Carbon steel, Stainless steel, Low-alloy steel

Model	MMA-315D
Rated Input Voltage	Dual voltage 220V/380V
Rated Input Power	20.5kVA/380V, 9.6kVA/220V
No-load Voltage	75V/380V, 66V/220V
Range of Output Current	20-315A
Duty Cycle	60%
Insulation Grade	F
Protection Class	IP21
Dimension(mm)	480x230x350
Weight	13kg

## ARC400/500/630



- Arc-Force for Anti-sticking.
- Hot-Start.
- Automatically compensate Voltage fluctuation.
- Automatically over-voltage and over-current protection.
- Good thrust compensation and dynamic characteristics, less spatter, high efficiency and excellent weld appearance.
- Applicable to a variety of acidic and alkaline electrode.
- Applicable Material: Carbon steel, Stainless steel, Low-alloy steel

Model	ARC400	ARC500	ARC630
Rated Input Voltage	380V±15%	380V±15%	380V±15%
Rated Power	16.9kVA	23.5kVA	33.5kVA
Rated Input Current	25.7A	35.8A	50.9A
No-load Voltage	64V	67V	70V
Range of Output Current	30-400A	40-500A	30-630A
Rod Dia.(mm)	1.6-6.0	1.6-6.0	1.6-6.0
Duty Cycle	60%	60%	60%
Insulation Grade	F	F	F
Protection Class	IP21	IP21	IP21
Dimension(mm)	600x262x480	600x262x480	600x262x480
Net Weight	23kg	25kg	30kg

## ■ MIG-2000D MIG/MMA

- Advanced IGBT Inverter technology.
- MIG / MMA Function.
- Thermal protection.
- Stepless welding current and voltage setting to meet different welding.
- Auto-compensation for voltage fluctuation.
- Less spatter, deep penetration, beautiful welding seam.

Model	MIG-2000D
Input Voltage	230V
Input Power	6.8KVA
No-load voltage	72V
Current Range	MIG: 30-200A MMA:20-170A
Duty Cycle	60%
Welding Wire	MIG: 0.6-1.0 MMA:1.6-4.0
Protection Level	215
Weight	17kg
Dimension	570x270x355



## ■ Elite MIG-250C/315C

- MIG welding function.
- 4 roller drive wire feeder.
- 10 step voltage setting for better welding heat control.
- Stepless wire speed control, with electronic gas valve.
- Step type machine make the lower failure and easy maintenance.
- Advanced thermal overload protection for transformer.
- Automatically over-voltage and over-current protection.
- 15KG welding wire capacity.

Model	Elite MIG-250C	Elite MIG-315C
Input Voltage	380V±15%	380V±15%
Input Power	12KVA	12KVA
No-load voltage	17-33V	17-33V
Current Range	40-250A	40-250A
Duty Cycle	40%	40%
Welding Wire	0.8-1.2mm	0.8-1.2mm
Protection Level	215	215
Weight (machine)	75kg	85kg
Dimension(machine)	700x410x750mm	700x410x750mm



## ■ Elite MIG-350S/MIG-500S



- MIG welding function.
- 30 step voltage setting for better welding heat control.
- 4 rollers drive wire feeder.
- Stepless wire speed control, with electronic gas valve.
- Step type machine make the lower failure and easy maintenance.
- Advanced thermal overload protection for transformer.
- Automatically over-voltage and over-current protection.
- 15KG welding wire capacity.
- Water cooling is optional for MIG-500S.

Model	Elite MIG-350S	Elite MIG-500S
Input Voltage	380V±15%	380V±15%
Input Power	20KVA	36KVA
No-load voltage	19-40V	19-48V
Current Range	50-350A	60-500A
Duty Cycle	40%	40%
Welding Wire	0.8-1.2mm	0.8-1.6mm
Protection Level	21S	21S
Weight	125kg	176kg
Dimension	945x520x945mm	950x550x880mm

## ■ Inverter MIG-250/315



- MIG/MMA function.
- IGBT inverter technology.
- Little spatter, better welding performance.
- Automatic voltage compensation.
- Light weight, easy to move.
- 15KG welding wire capacity.

Model	MIG-250	MIG-315
Input Voltage	380V (220V is optional)	380V
Rated capacity(KVA)	8.7	11.9
No load voltage(V)	56	56
Current range (A)	30-250	30-315
Duty cycle (%)	60%	60%
Welding wire(mm)	0.8-1.2	0.8-1.2
Dimension(mm)	710x450x590	710x450x590
Net Weight(kg)	33	34
Gross Weight(kg)	46	47

## MIG-270Y/315Y



- Advanced IGBT Inverter technology, improve the reliability.
- Inverter frequency reach upto 20Khz, decrease the size and the weight.
- Thermal protection.
- Stepless welding current and voltage setting to meet different welding.
- Auto-compensation for voltage fluctuation.
- Function of getting rid of the welding ball and removing the molten drop which is on the top of the wire.
- Less spatter, deep penetration, beautiful welding seam.

Model	MIG-270Y	MIG-315Y
Input Voltage	380V±15%/(220V is optional)	380V±15%
Input Power	8.7kVA	11kVA
No-load voltage	50V	50V
Current Range	50-270A	50-315A
Duty Cycle	60%	60%
Welding Wire	0.6-1.0	0.6-1.2
Protection Level	IP21S	IP21S
Weight	19kg	26kg
Dimension	496x274x462mm	496x274x462mm

## MIG-350I/500I/630I



- MIG/MMA Welding.
- External wire feeder included.
- Advanced IGBT Module Inverter technology, improve the reliability.
- 2T/4T Function.
- Stepless welding current and voltage setting to meet different welding.
- Auto-compensation for voltage fluctuation.
- Function of getting rid of the welding ball and removing the molten drop which is on the top of the wire.
- Less spatter, deep penetration, beautiful welding seam.
- Applicable for solid-cored /flux-cored wire.
- Applicable Material: Carbon steel, Low alloy steel, stainless steel, and other ferrous metal material.

Model	MIG-350I	MIG-500I	MIG-630I
Rated Input Voltage	380V±15%	380V±15%	380V±15%
Rated Input Power	13kVA	24kVA	36kVA
Range of Output Current	45-350A	50-500A	60-630A
Wire Dia.(mm)	0.8-1.2	1.2-1.6	1.2-1.6
Duty Cycle	60%	60%	60%
Dimension(mm)	515x262x445	600x290x535	685x302x660
Net Weight	35kg	38kg	45kg

## ■ ALUMIG-218P/258P (Double Pulse)



- Advanced IGBT technology.
- Full digital DSP control technology.
- 6sets parameters can be stored.
- Compact Type, four driver roller built-in wire feeder.
- Single Pulse and Double Pulse are selectable, Special suitable for super-thin aluminum plate of 0.45mm welding.
- With Trolley, Easy To Move, High Convenience For MIG Welding;
- Synergic adjustment, Easy to operate with memory function, 6sets welding parameters can be saved.
- High Duty Cycle, Efficiency Is 3 Times Of Traditional Argon Welding, Energy Saving, High Reliability.
- Quick Welding Speed,Little Splash,Deep Pool,Good Welding Appearance.

Model	ALUMIG-218P	ALUMIG-258P
Input	220V±15%	380V (220V is optional)
Rated input capacity	6.4kVA	9.2kVA
Non-load Voltage	45V	45V
Current Range	50-210A	50-250A
Duty Cycle	60%	60%
Welding Wire(mm)	0.8-1.2	0.8-1.2
Insulation Class	F	F
Protection Class	IP21	IP21
Efficiency	85%	85%
Power Factor	0.93	0.93
Weight (kg)	56	56
Dimension (mm)	920x440x830	920x440x830

## ■ MIG-280DP/350DP/500DP (Double Pulse)



- Multi-function of Pulse MIG / MIG / MMA / TIG / Carbon Arc Gouging.
- Full digital DSP control technology.
- Online programming and software update.
- Upto 100 sets of specialistic data base system realize welding parameter storage and call function.
- With various of connectors ( optional) which can connect with welding robot and special welding machines.

Model	MIG-280DP	MIG-350DP	MIG-500DP
Input	220V/380V	380V ± 10%	380V ± 10%
Rated input capacity	10	17	30
Current Range (A)	15-280	18-350	20-500
Voltage Range	15-31	15-40	15-50
Duty Cycle	60%	60%	60%
Welding Wire(mm)	0.8-1.2	0.8-1.6	0.8-1.6
Cooling Method	Air cooling	Water cooling	Water cooling
Weight (kg)	72kg	85+ 15 kg	110+ 15 kg
Dimension (mm)	995x259x960	1100x430x1500	1100x430x1500

## ■ TIG-200A/250A



- TIG/NMMA welding function.
- TIG-200A with function of Post Gas delay time, TIG-250A with function of Arc Force.
- 2T/4T.
- Advanced Inverter technology, the operating frequency reach up to 100KHz, quick dynamic response.
- High frequency arc and pulse thermal arc booster design, excellent arc performance.
- Automatically over-voltage and over-current protection.
- Wide operating voltage range, power grid adaptable, high duty cycle, more suitable for factory continuous operation.
- Applicable Materials: Carbon steel, low alloy steel, stainless steel, copper and other metal material.

Model	TIG-200A	TIG-250A
Rated Input Voltage	220V±15%	380V±15%
Rated Input Power	TIG:6.3KVA MMA:9.5KVA	TIG:6.3KVA MMA:9.5KVA
No-load Voltage	56V	62V
Rated Output Current	TIG:200A MMA:200A	TIG:250A MMA:250A
Rated Output Voltage	TIG:18V MMA:28V	TIG:20V MMA:30V
Range of Output Current	TIG:10-200A MMA:20-200A	TIG:10-250A MMA:20-250A
Range of Output Voltage	TIG:10.4-18V MMA:20.8-28V	TIG:10.4-20V MMA:20.8-30V
Duty Cycle	60%	60%
Insulation Grade	F	F
Protection Class	IP21S	IP21
Dimension(mm)	460x270x310	545x210x375
Net Weight	12.8kg	22kg

## ■ AC/DC TIG-200 Pulse

- Multifunction of AC/DC TIG&MMA Pulse Welding.
- Function of ZT/AT, improving the working efficiency.
- Reactive power correction, Inverter, soft switch technology, square wave power supply.
- Strong capability of oxide film cleaning, fantastic welder performance.



- Thermostatic protection, over-voltage protection, over-current protection, under-voltage protection.
- High duty cycle, continuous operation without interruption at large current.
- DC welder suitable for stainless steel, alloy steel, carbon steel, copper, titanium, etc.
- AC welder suitable for aluminum and aluminum alloy.
- Included with the 4M foot pedal(connector:2pins+3pins).

Model	AC/DC TIG-200 Pulse
Input voltage(V,Hz)	AC230V, 50/60Hz
Rated input current	20A
Input power capacity(kVA)	4.5kVA
Output current	20-200A
Arc force(A)	0-100A
No-load voltage	56V
Working Voltage	18V
Pre-flow time(S)	0.2S
AC output frequency	60Hz
Clean area width(%)	20-80
Down-slop time	0.5S
Base current(%)	10-90
Pulse frequency	0.5-300
Pulse Duty(%)	10-90
Remote control	Yes
Arc Initiating	HF
Efficiency(%)	85
Duty cycle(%)	60
Power factor	0.93
Efficiency(%)	80
Insulation class	F
Protection Level	IP21S
Ship Dimension(mm)	700x400x430
Ship Weight( Kg )	30.3

## ■ Digital TIG-200 DC Pulse

- Full digital controlled.
- 3 in 1 Multi functions includes HF TIG/LIFT TIG/MMA.
- Pulse Function makes excellent welding performance, special for thin material welding.
- Pre flow time is adjustable from 0 to 2 seconds.
- Built-in protection circuit of over temperature and over voltage and over current for better reliability.

Mode	Digital TIG 200 DC Pulse
Input	AC230V, 50/60Hz
Rated input capacity(kw)	TIG4.5 / MMA7.0
Duty cycle	60%@200A, 100%@170A
Current Range	TIG5-200A / MMA5-200A
Pre-flow(S)	0-2
Post-flow(S)	0-10
Down-slope / Up-slope (S)	0-10
Pulse Frequency(Hz)	0.5-200
Pulse Width(%)	5-95
Arc Force(MMA)	0-10A
Hot Start(MMA)	0-10A
Dimension(mm)	400x150x240
N.W(kg)	7.6
G.W(kg)	12
Ship Dimension(mm)	530*270*390



## Digital TIG 200E AC/DC PULSE



- Full digital Controlled.
- Function of DC TIG, AC TIG, MMA, Pulse.
- Small size and light weight are suitable for indoor and outdoor using, specially for decoration industry.
- Foot pedal are optional

Model	TIG 200E AC/DC PULSE
Input Voltage	AC230V, 50/60Hz
Rated Input power(kW)	4.3(AC TIG) 3.8(DC TIG)
Duty Cycle 40°C 10min	35% 200A(AC TIG) 60% 160A (AC TIG) 100% 120A(AC TIG)
No Load Voltage(V)	52
Welding Current Range	10-200A (AC TIG)
Up Down slope(S)	0-10
Pre-Flow / Post-flow(S)	0-10
Pulse frequency(HZ)	0.5-200
Pulse width range %	5-95
AC Frequency(HZ)	60
Clearance width(AC TIG)	-10
Hot Start(MMA)	0-100A
Arc Force(MMA)	0-100A
Efficiency %	85
Net weight (KG)	8.2
Dimension(mm)	430X150X300
Gross weight(KG)	13
Ship Dimension(mm)	560x320x380

## Digital TIG-320 AC/DC PULSE



- Function of AC/DC TIG Pulse welding, good looking weld, deep melting and low electrode consumption.
- AC waveforms include square wave,sine wave,triangular save
- AC balance(50-85%) control monitors the oxide and helps better cleaning during aluminum welding.
- Equipped with temperature voltage and current sensors for high protection.Excellent weld seam quality can be achieved due to its effect on all important areas of the weld.
- Easy to arc-starting, stable arc, high performance.
- Adjustable argon stopping time of lag, current descending time and the current of stopping arc improve the TIG welding performance.
- Foot Pedal and Poti torch are optional.

Model	Digital TIG-320 AC/DC Pulse
Rated Input Voltage	380V±15%
Rated Input Power	9.5KVA(TIG) / 12KVA(MMA)
Range of Output Current	10-320A
Duty Cycle	60% @ 320A
Non-load Voltage	50
Up Slope/Down Slope Time(S)	0-10
Pre/Post Flow(S)	0-2/0-10
Pulse Freq(HZ)	0.5-200
Pulse width range(%)	5-95
AC Freq(HZ)	50-250
Protection Class	IP23
Dimension(mm)	550X240X445
Net Weight	25.5kg

## ■ CT-416

- TIG / MMA / CUT, 3 in 1.
- Advanced Mosfet Inverter technology.
- CUT/TIG/MMA multiple-process welding machine.
- Electronic conversion function, easy operation.
- Auto-compensation for voltage fluctuation.
- Waterproof,anti-static,anti-corrosive and reliable insulation.

Model	TIG	MMA	CUT
Rated Input Voltage		220V±15%	
Rated Input Power	4.8		
Rated Input Current(A)	13.7	21.7	25.7
Output Current Range	10A-160A	10A-150A	20A-40A
Rated Output Voltage(V)	16	27	96
Duty Cycle		60%	
No-load Loss(W)		40	
Arc-starting		HF/Touch	
Dimension(mm)		425x205x355	
Weight		13.4kg	
Inner Diameter of burner			1.2mm
Air Pressure			0.4Mpa
Gas Flow	2-5L/min	3.2	80L/min
Max welding Rod Dia.(mm)			
Max Cutting Thickness(mm)			12



## ■ Digital SYN MIG-200M LCD

- Advanced IGBT technology, Synergic Controlled, simple operation.
- 32bit MCU and LCD display.
- Functions of MIG /LIFT TIG / MMA .
- 2T/4T for MIG and TIG make convenient welding.
- Fit for spoon gun.
- Light weight and compact design.
- Power generator operation friendly.
- Intelligent protection: Over-voltage, low-voltage, over-current, over-heat.
- Very clear wire melting droplet transfer, very few spatters.
- Fast, precise, clean arc ignition and arc ending.
- 5KG & 1KG wire feeder .
- CE certificate.
- PFC function is optional.

Model	SYN MIG-200M LCD
Input	AC230V, 50/60Hz
Rated input capacity	4.0kVA
Duty Cycle(%)	200A @ 25% 125A @ 60% 100A @ 100%
Protection Class	IP23S
Actual ship Dimension(mm) N.W(kg)	600x330x500 14
Rated input capacity	MIG 6.1 MMA 7.2 TIG 4.6
Current Range(A)	10-200 10-170 10-200
No-load voltage(A)	65 65 65
Work voltage(A)	24 28 18



## CUT-40/60



- Advanced Mosfet Inverter technology.
- HF/Touch arc piloting, narrow and smooth cutting seam.
- Energy concentration, fast cutting speed, smooth cut, less deformation.
- Over heat, over current, over voltage, etc protective electric circuit built-in, safety operation.
- Ideal equipment to cut all kinds of conductive material such as stainless steel, copper, carbon steel and aluminum, etc.

Model	CUT-40	CUT-60
Rated Input Voltage	220V	380V±15%
Rated Input Power	4.9kVA	7.9kVA
No-load Voltage	230V	295V
Rated Output Current	40A	63A
Rated Output Voltage	96V	104V
Range of Output Current	14-40A	20-60A
Max Cutting Thickness(Carbon Steel)	12mm	22mm
Quality Cutting Thickness(Carbon Steel)	8mm	15mm
Range of Output Voltage	85.6-96V	90-104V
Duty Cycle	60%	60%
Arc Piloting	HF/Torch	HF/Touch
Insulation Grade	F	F
Protection Class	IP21S	IP21S
Dimension(mm)	505x250x440	570x260x496
Net Weight	9kg	19kg
Gross Weight	10kg	21kg

## CUT-80M/100M/120M/160M



- HF/Non-Touch arc piloting, narrow and smooth cutting seam.
- Pilot Arc.
- 2T/4T, Gas test/cut function
- Energy concentration, fast cutting speed, smooth cut, less deformation.
- Over heat, over current, over voltage protective electric circuit built-in.
- Ideal equipment to cut all kinds of conductive material such as stainless steel, copper, carbon steel and aluminum, etc.
- Compatible for CNC cutting.

Model	CUT-80M	CUT-100M	CUT-120M	CUT-160M
Rated Input Voltage	380V±15% 50/60 Hz	380V±15% 50/60 Hz	380V±15% 50/60 Hz	380V±15% 50/60 Hz
Rated Input Power (kVA)	9.6	15	17	35
No-load Voltage (V)	280	320	380	380
Rated Output Voltage (V)	88-108	88-120	88-128	88-144
Range of Output Current (A)	20-70	20-100	20-120	20-160
Max Cutting Thickness	35mm	40mm	45mm	60mm
Quality Cutting Thickness	20mm	28mm	32mm	40mm
Duty Cycle			60%	
Arc Piloting	HF/Non-Touch			
Insulation Grade	F			
Protection Class	IP21S			
Dimension(cm)	55x30x48	66x38x56	66x38x66	70x41.5x72
Weight (kg)	21	34	34	58