



**Kawan Lama**<sup>®</sup>  
Commercial & Industrial Supply



# PRODUCTS YOU CAN TRUST



ISO 9001:2008



# SPECIAL DESIGNED FOR HARSH INDUSTRIAL ENVIRONMENT



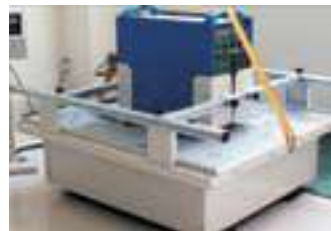
## Aotai Certification

1998 - Passed the ISO 9000 2004 -  
Passed the ISO 9001: 2000  
2004 - Obtained CCC certificates

2007 - Obtained CE certificates  
2010 - Passed the ISO 9001: 2008  
2010 - Obtained RoHS certificates



## Vibration Test



Frequency: 10-15 Hz  
Acceleration: 10m/s<sup>2</sup> / 20m/s<sup>2</sup>



Test time: 20 minutes

## Structure Test



Power source weight: ≤ 25 kg  
Test height: 250 mm



Power source weight: > 25 kg  
Test height: 100 mm

## Temperature Test



Temperature: -40°C - +80°C



Test time : 60 minutes

## Anti Dust Test



Temperature: 15-35°C  
Humidity: 45-75%



Dust: 2 kg/m<sup>3</sup>  
Test time: 100 minutes

## EMC Test



Radiated Emission Test



Conducted Emission Test

## IP Test



IP 21  
Test method: water drops vertically  
Drop volume: 1L/min ± 5%  
Test time: 10 minutes



IP 23 S  
Test method: water drops from the angle of 60°  
Drop volume: 10L/min ± 5%  
Test time: 10 minutes



## SMAW - ARC WELDING

### Standard Equipments:

- 1 Power Source
- 1 Connected Primary Cable (3 Meter)
- 1 Welding Cable (3 Meter)
- 1 Ground Cable (3 Meter)

### Recommended Base Metals:

- Carbon Steel
- Alloy Steel



Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
AD-12	ARC200	220V / 1 Phase / 50Hz	200A / 28V / 60%	31 A	20-200 A	389 x 156 x 299	9
AD-22	ARC400	380V / 3Phase / 50Hz	400A / 36V / 60%	28 A	20-400 A	576 x 297 x 557	43
10067595	ARC500	380V / 3Phase / 50Hz	500A / 40V / 60%	38 A	20-500 A	636 x 322 x 582	50
AD-24	ARC630	380V / 3 Phase / 50Hz	630A / 44V / 100%	52 A	50-530 A	686 x 322 x 584	58

• Also available for model ARC1000 & ARC1250

### Features & benefits:

- Soft switch technology, high efficiency
- Designed for demanding industrial environments
- Digital display for accurate parameter preset
- Easy arc-starting and molten pool control with smooth, consistent arc
- Automatic arc force and hot start to perform perfect welding
- Adjustable welding cable (up to 100m), long distance welding provided

### Standard Equipments: (3T)

- 1 Connected Primary Cable (3 Meter)
- 3 Electrode Holders
- 3 Copper Connectors
- 2 Copper Connectors

### Standard Equipments: (3Tx2)

- 2 Connected Primary Cable (3 Meter)
- 6 Electrode Holders
- 6 Copper Connectors
- 4 Copper Connectors

### Recommended Base Metals:

- Carbon Steel
- Alloy Steel



3 IN 1

ARC400-3T x 2

ARC400-3T  
ARC500-3T

Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
10081360	ARC400-3T	380V / 3Phase / 50Hz	400A / 36V / 60% x 3	28A x 3	20-400A x 3 DC	675 x 505 x 850	120
-	ARC500-3T	380V / 3Phase / 50Hz	500A / 40V / 60% x 3	38A x 3	20-500A x 3 DC	675 x 505 x 850	120
AD-35	ARC400-3T x 2	380V / 3Phase / 50Hz	400A / 36V / 60% x 6	28A x 6	20-400A x 6 DC	675 x 505 x 850	120

• Adjustable welding cable up to 100m



## GTAW - TIG WELDING - DC PULSE

### Recommended Base Metals:

- Alloy Steel (Model > 315 A)
- Carbon Steel
- Stainless Steel
- Titanium
- Copper



Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
AD-06	TIG200P	220V / 1Phase / 50Hz	200A / 18V / 40% TIG 160A / 26.4V / 60% SMAW	23.4A	10-160A TIG 20-160A SMAW	389 x 155 x 299	9.5
AD-07	ATIG315P	380V / 3Phase / 50Hz	315A / 22.6V / 60% TIG 315A / 32.6V / 60% SMAW	27A	5-315A	600 x 310 x 550	42
AD-08	ATIG400P	380V / 3Phase / 50 Hz	400A / 26V / 60% TIG 400A / 36V / 60% SMAW	38A	5-400A	600 x 310 x 550	42

Order No.	Product Model	Input Power Voltage/Phase/Hz	Motor (W)	Tank (L)	Duty Cycle	Dimension L x W x H (mm)	Weight (kg)
10055823	SLJ-10	220V / 1Phase / 50Hz	260	9	100%	485 x 273 x 360	13

## GTAW - TIG WELDING - DIGITAL AC/DC PULSE

### Standard Equipments (1 Phase):

- 1 Power Source
- 1 Welding Torch
- 1 Connected Primary Cable (3m)
- 1 Ground Cable (3m) with clamp and quick plug

### Standard Equipments (3 Phase):

- 1 Power Source
- 1 Ground Cable (3m)
- 1 TIG Torch
- 1 Connected Primary Cable (3m)
- 1 Welding Cable (3m)

### Recommended Base Metals:

- Carbon Steel
- Copper
- Titanium
- Aluminium
- Al-Mg Alloy
- Stainless Steel



ATIG210PAC

ATIG315PAC

ATIG500PAC, ATIG630PAC

Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
10139403	ATIG210PAC	220V / 1Phase / 50Hz	210A / 16V / 30% TIG 170A / 16V / 30% SMAW	16A	3-210A TIG 10-1760A SMAW	422 x 155 x 299	11
AD-16	ATIG315PAC	380V / 3Phase / 50Hz	315A / 22.6V / 60% TIG 315A / 32.6V / 60% SMAW	20A	5-315A	655 x 325 x 560	50
	ATIG500PAC	380V / 3Phase / 50Hz	500A / 30V / 60% TIG 500A / 40V / 60% SMAW	39A	20-500A	665 x 353 x 778	77
	ATIG630PAC	380V / 3Phase / 50Hz	630A / 35.2V / 60% TIG 630A / 44V / 60% SMAW	53A	20-630A	690 x 385 x 825	90



## GMAW - MIG/MAG WELDING Double Pulsed MIG

### Standard Equipments:

- 1 Power Source
- 1 Connected Primary Cable (3m)
- 1 Ground Cable (3m)
- 1 Water Cooled Torch (3m)
- 1 Wire Feeder (Europe Model)

### Recommended Base Metals:

- Carbon Steel
- Stainless Steel
- Aluminium
- Al-Mg Alloy
- Al-Si Alloy

### Full-digital control accurately, excellent welding performance:

- Minimizing spatter generation and excellent bead appearance



One pulse, one drop

- Embedded welding expert database, which provides intelligent welding parameters, widely used for selection of various welding material and sheet thickness
- Full-digital control systems for wire feeder, make wire feeding more precise and stable
- One touch control with adjustment of current and voltage (optional)

AMIG350P



Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
AD-29	AMIG350P	380V / 3Phase / 50Hz	350A / 31.5V / 60%	21A	20-350A	576 x 297 x 574	45
	AMIG500P	380V / 3Phase / 50Hz	500A / 39V / 60%	38A	20-500A	636 x 322 x 584	53
	AMIG350PM	380V / 3Phase / 50Hz	350A / 31.5V / 60%	21A	20-350A	576 x 297 x 574	45
	AMIG500PM	380V / 3Phase / 50Hz	500A / 39V / 60%	38A	20-500A	636 x 322 x 584	53

## GMAW - MIG/MAG WELDING

### Standard Equipments:

- 1 Power Source
- 1 Connected Primary Cable (3m)
- 1 Ground Cable (3m)
- 1 Air Cooled Torch (3m)
- 1 Wire Feeder Europe Model (Interpass 3m Standar Type)
- 1 Wire Feeder Europe Model (Interpass 5m for 10238035)
- 1 Wire Feeder Europe Model (Interpass 20m for 10096485)

### Recommended Base Metals:

- Carbon Steel
- Alloy Steel
- Stainless Steel ( Model 200M )



MIG350

MIG500

Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
AD-15	MIG350	380V / 3Phase / 50Hz	350A / 31.5V / 60%	21A	60-350A	576 x 297 x 574	40
10238035	MIG500	380V / 3Phase / 50Hz	500A / 39V / 100%	38A	60-500A	636 x 322 x 584	50
10096485	MIG500	380V / 3Phase / 50Hz	500A / 39V / 100%	38A	60-500A	636 x 322 x 584	50



## SAW - SUBMERGED ARC WELDING

### Standard Equipments:

- 1 Power Source
- 1 Connected Primary Cable (3m)
- 1 Ground Cable (5m)
- 1 Welding Cable (5m)
- 1 Control Cable (16m)
- 1 Tractor

### Recommended Base Metals:

- Carbon Steel
- Stainless Steel
- Heat Resistant Steel
- Alloy Steel

ASAW630 II,  
ASAW1000 II,  
ASAW1250 II



Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Wire Diameter (mm)	Dimension L x W x H (mm)	Weight (kg)
	ASAW630 II	380V / 3Phase / 50Hz	630 A / 44V / 100% SAW 630A / 44V / 100% SMAW	51A	50-630A	1.60 - 4.00	530 x 320 x 600	55
AD-10	ASAW1000 II	380V / 3Phase / 50Hz	1000A / 44V / 100 SAW 1000A / 44V / 100% SMAW	83A	50-1000A	2.00 - 6.00	767 x 352 x 757	95
	ASAW1250 II	380V / 3Phase / 50Hz	1250A / 44V / 100% SAW 1250A / 44V / 100% SMAW	115A	50-1250A	2.00 - 6.00	767 x 352 x 802	100



## PLASMA CUTTING



CUT40i



ACUT60 / 100 / 120



ACUT200

Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @Rated Output	Output Range	Arc Starting Type	Air Pressure Required (MPa)	Air Flow (L/min)	Max. Cutting Thickness (mm)	Dimension L x W x H (mm)	Weight (kg)
10160758	CUT40i	220V/1Phase/50Hz	40A/96V/40%	21.3A	15-40A	HP Touch	0.20-0.40	250	8	389x155x299	9
	ACUT60	380V/3Phase/50Hz	60A/104V/60%	12.5A	30-60A	HP Touch	0.45-0.55	250	15	501x232x495	28
	ACUT100	380V/3Phase/50Hz	100A/120V/60%	22A	30-100A	HF Arc-Pilot	0.45-0.55	250	30	576x297x557	43
AD-18	ACUT120	380V/3Phase/50Hz	120A/128V/60%	39A	30-120A	HF Arc-Pilot	0.45-0.55	250	35	576x297x557	43
	ACUT200	380V/3Phase/50Hz	200A/160V/60%	65A	60-200A	HF Arc-Pilot	0.45-0.55	380	55	615x380x546	58

## PLASMA CUTTER FOR CNC SYSTEM

### Standard Equipments:

- 1 Power Source
- 1 Connected Primary Cable (3m)
- 1 Ground Cable (3m) with clamp and quick plug
- 1 Pressure-reducing valve
- 1 plasma torch

### Recommended Base Metals:

- Carbon Steel
- Stainless Steel
- Copper
- Aluminium
- Alloy Steel



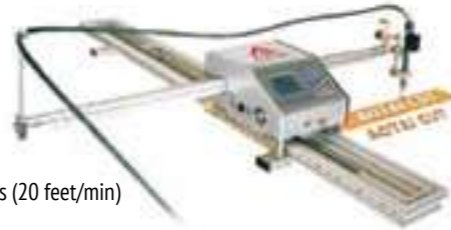
ACUT120a

Order No.	Product Model	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Arc Starting Type	Air Pressure Required (MPa)	Air Flow (L/min)	Max. Cutting Thickness (mm)	Dimension L x W x H (mm)	Weight (kg)
10069845	ACUT120a	380V/3Phase/50Hz	120A/128V/60%	39A	30-120A	Non-HF Arc-Pilot	0.50-0.70	210	35	576x297x557	43.5

## CNC PORTABLE PLASMA CUTTER (FLAME & PLASMA)

### Features and Benefits:

- More user friendly USB port
- 31-64M memory for user's programs
- Built-in library of commonly used figures
- Free FastCAM software
- Fast cutting speed Can operate at a speed as high as 6m per minutes (20 feet/min)
- Larger cutting area CNC cutting system can cut as wide as 2.0m (6.6ft), as long as 15m (48ft)



Product Model	EFFECTIVE CUTTING AREA (X x Y)				
	Standard System (mm)	Customized System (mm) (feet)			
AOCUT CNC System	1200 x 2000	1200 x 2500	1300 x 2500 (4 x 8)	.....	1800 x 2500 (6 x 8)
		1200 x 3000	1300 x 3000 (4 x 10)	.....	1800 x 3000 (6 x 10)
		1200 x 3500	1300 x 3500 (4 x 11)	.....	1800 x 3500 (6 x 11)
		-	-	-	-
		-	-	-	-
		1200 x 15000	1300 x 15000 (4 x 48)	-	1800 x 15000 (6 x 48)

Order No.	10033837
Model	AOCUT CNC-1200 x 2000
Rated input voltage	110/220 V
Frequency	50/60 Hz
Rated input power	180 W
Display	LCD 5.7"
Range of effective cutting	X-Axis: 1200 Y-Axis: 2000 mm
Travelling speed	0-6000 mm/min
Cutting thickness	5-45 mm
Cross beam length	1700 mm
Longitudinal rail length	2500 mm
Cutting speed	0-6000 mm/min
Cutting software	FastCAM standard version
Plasma power source	ACUT120a
Cross beam weight	9.3 kg
Host machine weight	26.7 kg
Total machine weight	70.5 kg

## AUTOMATION SYSTEM - MANIPULATOR



Model	CZI2000	CZI3000	CZI4000Q	CZI4000Z	CZI6000Z	CZI6000Z
Beam vertical stroke	2000 mm	3000 mm	4000 mm	4000 mm	5000 mm	6000 mm
Beam horizontal stroke	2000 mm	3000 mm	4000 mm	4000 mm	5000 mm	6000 mm
Beam horizontal travel speed	110-1100 mm/min	110-1100 mm/min	110-1100 mm/min	150-1500 mm/min	150-1500 mm/min	150-1500 mm/min
Beam lifting speed	850 mm/min	850 mm/min	850 mm/min	1300 mm/min	1300 mm/min	1300 mm/min
Max. payload at the end of the beam	80 kg	80 kg	80 kg	300 kg	300 kg	300 kg
Center distance of the trolley wheel	1500 mm (use with 38kg rail)			2500 mm (use with 38kg rail)		
Boom rotating angle	±180°	±180°	±180°	±180°	±180°	±180°
Trolley travel speed	Manual/Motorized 1500 mm/min					
Dimension L x W x H (mm)	2100 x 3000 x 4260	2100 x 4000 x 5260	2100 x 5000 x 6260	3000 x 5500 x 6600	3000 x 6500 x 7600	3000 x 7500 x 8600

## AUTOMATION SYSTEM - ROTATOR

Model	Load Capacity	Roller Diameter x Width (mm) (Polyurethane)	Motor Power (kW)	Work Piece Diameter (mm)	Linears Peed (mm/min)	Speed Adjustment Mode
HGK5	5T	210x120	2x0.37	200-2500	100-1000	Frequency Conversion Control
HGK10	10T	310x170	2x0.55	300-3000	100-1000	
HGK20	20T	310x220	2x0.55	300-3500	100-1000	
HGK30	30T	310x220	2x0.75	300-4000	100-1000	
HGK40	40T	425x220	2x0.75	300-4500	100-1000	
HGK50	50T	425x220	2x0.75	400-4500	100-1000	
HGK60	60T	450x240	2x1.5	600-5000	100-1000	
HGK80	80T	450x260	2x2.2	800-5500	100-1000	
HGK100	100T	550x280	2x2.2	1000-6000	100-1000	



Model	Load Capacity	Roller Diameter x Width (mm) (Polyurethane)	Motor Power (kW)	Work Piece Diameter (mm)	Linears Peed (mm/min)	Speed Adjustment Mode
HGZ5	5T	250x120	2x0.25	350-2500	100-1000	Frequency Conversion Control
HGZ10	10T	250x120	2x0.37	350-3000	100-1000	
HGZ20	20T	300x140	2x0.55	600-4000	100-1000	
HGZ30	30T	350x180	2x0.75	600-4500	100-1000	
HGZ40	40T	350x180	2x0.75	600-4500	100-1000	
HGZ50	50T	400x200	2x1.1	750-5000	100-1000	
HGZ60	60T	400x200	2x1.1	800-5000	100-1000	
HGZ80	80T	500x240	2x1.1	900-5500	100-1000	
HGZ100	100T	500x240	2x1.5	900-5500	100-1000	



## AUTOMATION SYSTEM - POSITIONER

Is practical auxiliary equipment which is mainly used for steel structure welding, mechanical parts assembly etc. It could hold, rotate the part in perfect position for welding under the welding head and also equip with manipulator for automation welding. It is widely used in flanges, pipe fittings and other kinds of steel parts manufacturing industry as well as equipped with robots to achieve automated welding which is also one of the commonly used equipment in pipe industry, container and steel manufacturers. During production, it can improve the welding quality, reduce the labor intensity and increase the production efficiency.



### Features and Benefits

- Apply frequency converter with high stability and reliability to realize stepless speed adjustment. With wide adjustment range, large starting torque and high precision
- Special design of manual control box is easy to operate and has strong flexibility
- Interface is preset for connecting manipulator and other welding equipment to combine with the welding center
- Widely used in flanges, pipe fitting and other kinds of steel parts manufacturing industry
- Stepless speed regulation provide better welding quality of all processes
- Can work with applications when workplace should be preheated before and during welding

HB SERIES POSITIONER							
Model	HB3-C	HB5-C	HB10-C	HB20-C	HB30-C	HB50-C	HB100-C
Max. Load capacity (T)	0.3	0.5	1	2	3	5	10
Table rotation speed (rpm)	0.1-1	0.1-1	0.07-0.7	0.07-0.7	0.05-0.5	0.05-0.5	0.03-0.3
Table tilting speed (rpm)	Manual	0.7	0.5	0.4	0.3	0.3	0.2
Table diameter (mm)	450	700	1000	1100	1400	1600	2000
Max. Eccentricity (mm)	100	100	150	150	150	200	200
Max. Distance of center of gravity (mm)	150	200	200	200	300	300	400
Table tilting angle (°)	0-120	0-120	0-120	0-120	0-120	0-120	0-120
Rotation motor power (KW)	0.18	0.37	0.75	1.5	1.5	2.2	4
Tilting motor power (KW)	Manual	0.55	0.75	1.5	1.5	3	4
Speed adjustment mode	Frequency Conversion Control						

HT SERIES ROTATION PLATFORM							
Model	HT1	HT3	HT5	HT10	HT30	HT50	HT100
Max. Load capacity (T)	0.1	0.3	0.5	1	3	5	10
Platform rotation speed (rpm)	0.2-2	0.1-1	0.1-1	0.07-0.7	0.05-0.5	0.05-0.5	0.03-0.3
Platform dimension (mm)	300	450	700	1000	1400	1600	2000
Rotation motor power (KW)	0.09	0.18	0.37	0.75	1.5	2.2	4
Speed adjustment mode	Stepless speed regulating						
Mains voltage (V)	380	380	380	380	380	380	380

## CNC FLAME/PLASMA WORKTABLE CUTTING MACHINE

**CNC Flame/Plasma Worktable Cutting Machine:** CNC flame/plasma worktable cutting machine is one kind of high speed and high precise machine. With integrated and modularized structure. It's easy and quick to install realizing the low inertia and stable running. It's especially suitable for the medium or thin plate cutting and can be designed to be smoke evacuation or underwater worktable according to customer's requirement to realize "environment friendly" cutting.

Cutting width	1000-1300
Cutting length	1000-1400
Cutting thickness	Flame: 6-100mm, the cutting thickness can be increased according to customer's requirement. The max. thickness is 350mm Plasma: recommend according to customer's requirement for customer selection
Idle speed	Max. 12000(mm/min), stepless regulation
Cutting speed	Max. 6000(mm/min) (Depending on cutting material and technique)
Precision of whole machine	Meet the requirement for JB/T 5102-1999
Air-tightness of whole machine	Meet the requirement for JB/T 5101
Positioning accuracy	± 0.5mm
Repeat accuracy	± 0.3mm
Cutting quality & size deviation	Flame: meet the requirement for JB/T 10045.3-1999 Plasma: meet the requirement for JB/T 10045.4-1999
Mains voltage	IP AC220V, 50Hz
Overall dimension	Length: effective length + 1000mm Width: effective width + 500mm Height: about 1800mm



## CNC CUTTING SYSTEM

### CNC Flame/Plasma Cutting System:

CNC flame/plasma cutting system is used for cutting on the sheet to get different geometrical patterns. It includes CNC system, driving system, gas circuit system, auto height adjustment device, automatic ignition device, flame cutting system and plasma cutting system etc. The equipment has high automation, easy control, high stability and accuracy; it is the ideal equipment for cutting.



GAUGE	300	4000	5000	6000	7000	8000	9000	10000	11000	12000
Cutting width	2200	3200	4200	5200	6200	7000	8000	9000	10000	11000
Drive mode	Single-side drive		Double-side drive							
Rail length	The rail length of standard equipment is 15m, it can be extended or shortened according to customer's requirement									
Quantity of cutting torch	Standard equipment: two sets of CNC flame cutting machines, it can be increased / decreased according to customer's requirement									
Cutting thickness	Flame: 6-100mm, the cutting thickness can be increased according to customer's requirement. The max. thickness is 350mm Plasma: recommended according to customer's requirement for customer selection									
Idle speed	Max. 9000 (mm/min)									
Cutting speed	Max. 6000 (mm/min) (Depending on cutting material and technique)									
Precision of whole machine	Meet the requirement for JB/T 5102-1999									
Air-tightness of whole machine	Meet the requirement for JB/T 5101									
Positioning accuracy	± 0.5mm									
Repeat accuracy	± 0.3mm									
Cutting quality and size deviation	Flame: meet the requirement for JB/T 10045.3-1999 Plasma: meet the requirement for JB/T 10045.4-1999									
Mains voltage	IP AC220V.50Hz									

## WELDING ROBOT



### MIG-R /RP-350/500 Power Sources - Robotics

**Process :** GMAW / Pulsed MIG (GMAW-P) / Double pulsed MIG

**Application :** Automated and robot application

The MIG-R/RP series from AOTAI is especially designed for automatic welding system. With full digital technology, high reliability for spare parts, integrated analog communication interface with plug and play, the MIG-R/RP series are applied to the robotic welding as well as the automation welding system. The MIG-R series have the characteristic of constant voltage and can realize the CO<sub>2</sub> gas shielded welding of carbon steel. And the MIG-RP series have the characteristics of Pulse function and constant voltage. During the Pulse function, it can realize the welding of carbon steel, stainless steel, aluminum & alloy, copper & alloy etc. non-ferrous metal.

### Professional solutions for arc welding robot

- Specially-designed accessories match the demanding need for robot and automatic welding field
- International standard DeviceNet digital communication interface - seamless integration of digital control technology combines inverter welding power source and robotic interface
- Integrated analogue communication interface, plug and play

### Excellent welding performance

- Full digital control system, make droplet transfer more precise and stable
- Embedded welding expert database, which provides intelligent welding parameters
- Easy to operate by synergic adjustment mode
- Capable of storing 100 sets of user-defined parameters
- Self-protection functions with error code display (such as over-current, over voltage, under-voltage, over-heat, block wire protection), make it easy for trouble-shooting

Product model	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimension L x W x H (mm)	Weight (kg)
MIG350-R /RP	Three phase	350A/31.5V/60%	21A	30-350A DC 15-40V	576 x 297 x 574	45
MIG500-R /RP	380V 20± % 50/60Hz	500A/39V/60%	38A	30-500A DC 15-50V	636 x 322 x 584	53

# ENGINE WELDING AT1000 (500A x 2 User) AT-ZX1000 & AT-DC1000

## Features and Benefits:

- Heavy duty Volvo industrial diesel engine
- Double welding outputs with 500A
- Humidity proof, salt fog proof and sand proof
- Auxiliary power supply (3 phase and single phase)
- Modularization design, self diagnosis
- Automatic smart start with key control locks
- Digital display for accurate parameter preset
- Long distance welding (up to 50m)
- Adjustable ARC FORCE and hot start current
- Low maintenance
- E6010 and E7018 electrode welding

## Recommended areas of use:

- Maintenance and repair
- Industry plant construction
- Containers manufacture
- Pipeline industry
- Railroad maintenance
- Mining maintenance

## Standard Equipments

### AT-ZX1000:

- 2 welding cable L=3m with electrode holder and quick plug
- 2 ground cable L=3m with quick plug

### AT-DC1000:

- 2 SJ-500 wire feeder
- 2 Welding cable L=14m with electrode holder and quick plug
- 2 Ground cable L=14m
- 2 Welding torch L=3m



## Engine Drives Process:

Stick (SMAW) / TIG (GTAW) / FCAW



	Process	MMA	TIG	FCAW
Power Source	AT-ZX1000	√		
	AT-DC1000	√	√	√
	Open-load voltage	28 (82)V	28 (82) V	82 V
	Range of welding current	(20-500) x 2 A	(20-500) x 2 A	(60-500) x 2 A
	Range of welding voltage	21-40 V	11-30 V	17-39 V
	Rated duty cycle	60 %	60 %	60 %
Stamford Generator	Power rating	70 Kw	70 Kw	70 Kw
	Excitation type	Brushless motivated		
	Frequency	50 Hz	50 Hz	50 Hz
	Auxiliary generator	3-Phase 400VAC (15 Kw)	Single-Phase 230VAC (5 Kw)	
Engine (options)	Type	VOLVO TD520GE	VOLVO TD520GE	VOLVO TD520GE
	Power rating	75 Kw	75 Kw	75 Kw
	Rated speed	1500 RPM	1500 RPM	1500 RPM
	Way of start	Automatic Intelligent rev. stop		
	Way of warming	Water temperature, fuel temperature, speed		
	Way of cooling	Water	Water	Water
	Fuel tank volume	190 L	190 L	190 L
	Battery	12V-100AH x 2	12V-100AH x 2	12V-100AH x 2
Whole Machine	Protection degree	IP23	IP23	IP23
	Insulation degree	F	F	F
	Noise	71dB (7m)	71dB (7m)	71dB (7m)
	Way of transportation	Suspension setting	Suspension setting	Suspension setting
	Dimension L x W x H	3000 x 1000 x 1560 mm	3000 x 1000 x 1560 mm	3000 x 1000 x 1560 mm
	Weight	1950 kg	1950 kg	1950 kg

# WELDING CARRIAGE AWC500-2

## AWC500 - 2 Automatic Welding Carriage

- High-performance magnetic increases the reliability of profile welding and ensure the stability of smooth operation.
- The magnet release lever can be easily operated for installation.
- It is applied in the horizontal fillet welding with wide range of welding speed control.
- Optional track and caster can be available for various welding methods such as horizontal piece welding, fillet welding, vertical welding, vertical fillet welding, horizontal welding by side absorption, inner and outer fillet welding.

Item	Technical Data
Model	AWC500-2
Net Weight	7.6 Kg
Power	AC 220 V
Driving Mode	4 Wheels-Chain-Drive Motor
Traction Power	16 Kg
Traveling Speed	100 ~ 1500 (mm/min)
Tracking Mode	Guide Wheel Type
Height of Guide Wheel	3 Options
Adjustable Range of Welding Torch	Horizontal Angle: 40°~ 55° For Right/Left: 40mm For Up/Down: 40mm
Suitable Torch	Suitable Torch
Torch Holder	Suitable for Straight-head or Goose-head torch
Unreachable Beam Length	137 mm at the front and rear side
Auto-stop Function	Achieved by two limit switches on both sides
Dimensions (L x W x H)	280 x 260 x 265 mm



## AWC500-6

### AWC500-6 Automatic Welding Carriage

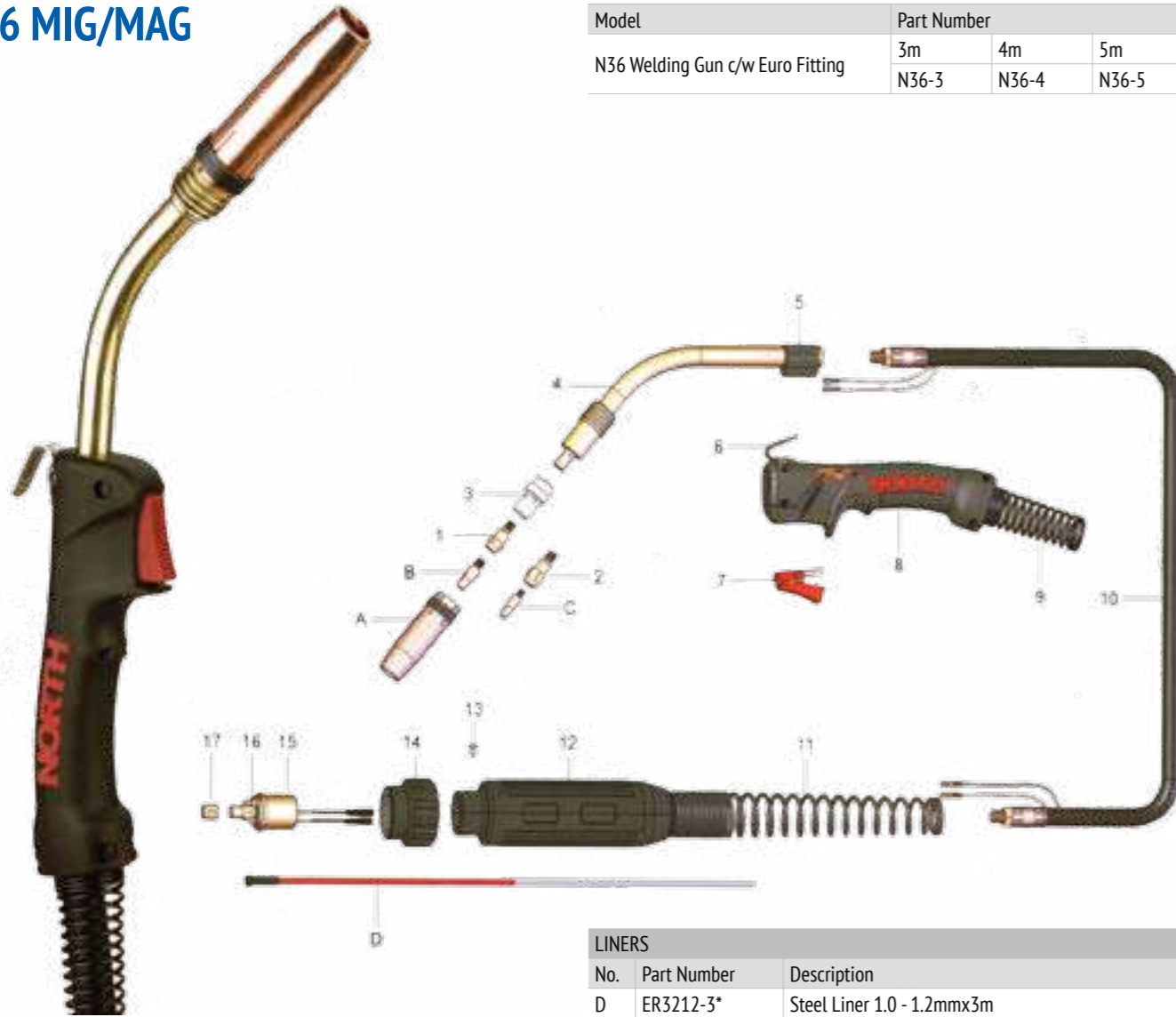
- Magnetic adhesive and walk to meet all position welding.
- Carriage can be directly used for vertical welding.
- Optional Soft/Rigid track is available to adapt the work piece shape.
- Wire Free. Carriage is powered by storage battery, to support 2 or 3 days usage.
- The magnet release lever can be easily operated for installation.
- Brushless motor drive, long service life
- Remote control providing convenience for aerial work
- Changeable magnetic units for duplex stainless steel welding
- Visual interface design, easy to learn, easy to operate
- Multiple usage, for welding, gouging, cutting and hot work
- Torch clamp can deflect a certain angle along the welding direction to meet the special needs of push welding and pull welding. The seam position can be easily located by centering function during welding.

Item	Technical Data
Model	AWC500-6
Net Weight	12 Kg
Power	Li-ion Battery: 24 V Capacity: 4.0 Ah Limited Charge Voltage: 25.2 V
Driving Mode	4 Wheels Chain Drive
Tracking Mode	Guide Wheel Type/Track Type
Traction Power	32 Kg
Traveling Speed	70 ~ 920 mm/min
Adjustable Range of Welding Torch	Axial Turn : 30°~ 120° Horizontal Deflection: 0° ~ ±5° Transverse Shift: 20mm Vertical Shift: 20mm
Weaving Parameters	Weaving Angle: 0°- ±5° Max Weaving Speed: 5.4r/min L/R Dwell Time: 0 ~ 2.5s
Torch Holder	Suitable for Straight-head or Goose-head torch
Unreachable Beam Length	Front: 140mm Rear: 174mm
Auto-stop Function	Achieved by two limit switches on both sides
Dimensions (L x W x H)	314 x 195 x 242 mm



# N36 MIG/MAG

Model	Part Number		
	3m	4m	5m
N36 Welding Gun c/w Euro Fitting	N36-3	N36-4	N36-5



LINERS		
No.	Part Number	Description
D	ER3212-3*	Steel Liner 1.0 - 1.2mmx3m
	ER5216-3	Steel Liner 1.2 - 1.6mmx3m
	ER3312-3	Teflon Liner 1.0 - 1.2mmx3m
	ER5316-3	Teflon Liner 1.2 - 1.6mmx3m

LINERS		
No.	Part Number	Description
1	EC3001*	Contact Tip Socket M8x28
	EC3002	Contact Tip Socket M8x32
2	EC3003	Contact Tip Socket M6x28
	EC3004	Contact Tip Socket M6x32
3	ED3001	Diffuser, Ceramic
4	EF3250	Gun Neck 50°
5	EF1212	Plastic Body
6	EG0001	Hanger Hook
7	EJ0003	Trigger
8	EH0101	Handle
9	ES0101	Front Spring Cable Support
10	EL3030	Cable Assembly 3m
11	HDS0202	Back Spring Cable Support
12	HDH0202	Back Handle
13	EH2211	Screw M4x6
14	EP3001	Gun Plug Nut
15	EU1001	Euro Gun Plug
16	Q504010	O-Ring 4x1
17	EU1011	Nut M10x1

\*Denotes Standard Build

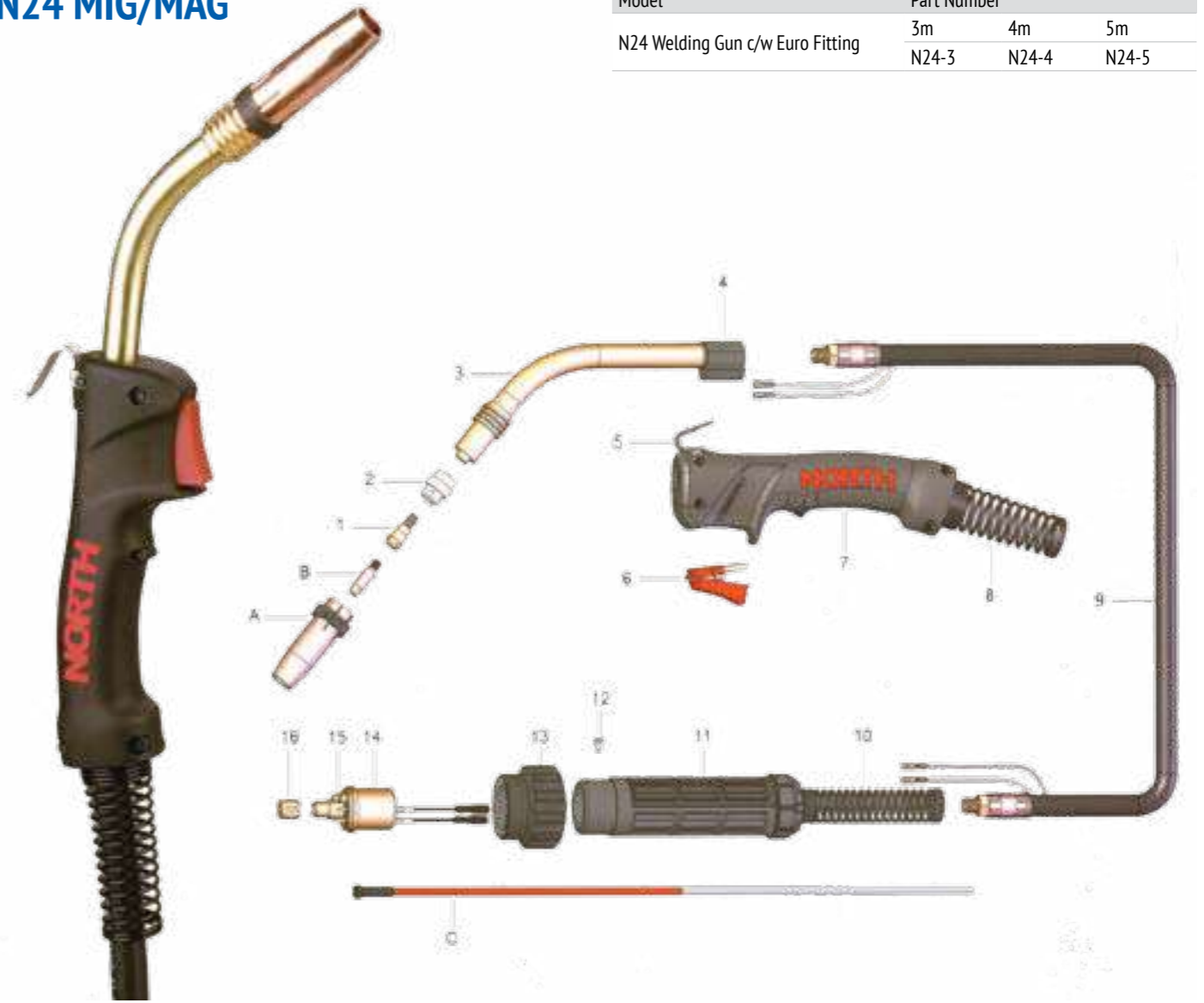
**Rating** 340A CO<sub>2</sub> 300A mixed gas, 60% duty cycle  
**Wires** 0.8 - 1.6mm

NOZZLE		
No.	Part Number	Description
A	EA3212	12mm / Nozzle 12mm
	EA3216*	16mm / Nozzle 16mm
	EA3317	17mm / Tapered Nozzle 17mm
	EA3119	19mm / Nozzle 19mm

CONTACT TIPS		
No.	Part Number	Description
B	EB3210	Contact tip 1.0mm M8x10x30 Ecu
	EB3212*	Contact tip 1.2mm M8x10x30 Ecu
	EB3216	Contact tip 1.6mm M8x10x30 Ecu
	EB3210L	Contact tip 1.0mm M8x10x30 CuCrZr
	EB3212L	Contact tip 1.2mm M8x10x30 CuCrZr
	EB3216L	Contact tip 1.6mm M8x10x30 CuCrZr
C	EB2208	Contact tip 0.8mm M6x8x28 Ecu
	EB2210	Contact tip 1.0mm M6x8x28 Ecu
	EB2212	Contact tip 1.2mm M6x8x28 Ecu
	EB2208L	Contact tip 0.8mm M6x8x28 CuCrZr
	EB2210L	Contact tip 1.0mm M6x8x28 CuCrZr
	EB2212L	Contact tip 1.2mm M6x8x28 CuCrZr

# N24 MIG/MAG

Model	Part Number		
	3m	4m	5m
N24 Welding Gun c/w Euro Fitting	N24-3	N24-4	N24-5



**Rating** 250A CO<sub>2</sub> 220A mixed gas, 60% duty cycle  
**Wires** 0.8 - 1.2mm

NOZZLE		
No.	Part Number	Description
A	EA2210	10mm / Nozzle 10mm
	EA22125*	12.5mm / Nozzle 12.5mm
	EA2117	17mm / Nozzle 17mm

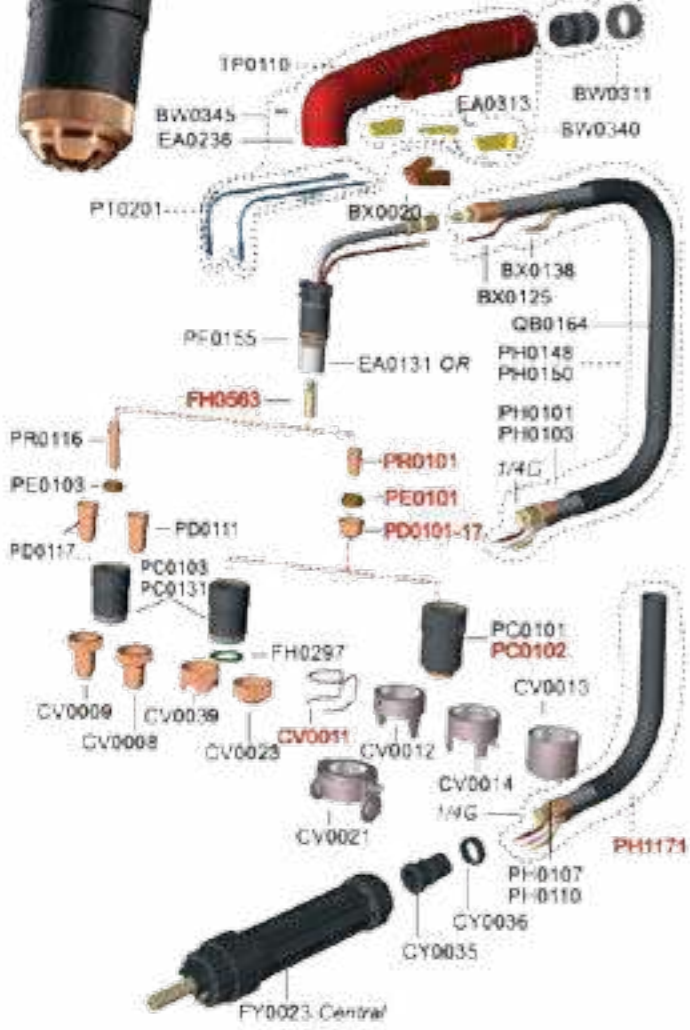
CONTACT TIPS		
No.	Part Number	Description
B	EB2208	Contact tip 0.8mm M6x8x28 Ecu
	EB2210*	Contact tip 1.0mm M6x8x28 Ecu
	EB2212	Contact tip 1.2mm M6x8x28 Ecu
	EB2208L	Contact tip 0.8mm M6x8x28 CuCrZr
	EB2210L	Contact tip 1.0mm M6x8x28 CuCrZr
	EB2212L	Contact tip 1.2mm M6x8x28 CuCrZr

LINERS		
No.	Part Number	Description
C	ER2210-3	Steel Liner 0.8 - 1.0mmx3m
	ER3212-3*	Steel Liner 1.0 - 1.2mmx3m
	ER2310-3	Teflon Liner 0.8 - 1.0mmx3m
	ER3312-3	Teflon Liner 1.0 - 1.2mmx3m

LINERS		
No.	Part Number	Description
1	EC2001	Contact Tip Socket
2	ED2001	Diffuser, Ceramic
3	EF2250	Gun Neck 50°
4	EF1212	Plastic Body
5	EG0001	Hanger Hook
6	EJ0003	Trigger
7	EH0101	Handle
8	ES0101	Front Spring Cable Support
9	EL2030	Cable Assembly 3m
10	ES2201	Back Spring Cable Support
11	EH2201	Back Handle
12	EH2211	Screw M4x6
13	EP3001	Gun Plug Nut
14	EU1001	Euro Gun Plug
15	Q504010	O-Ring 4x1
16	EU1011	Nut M10x1

\*Denotes Standard Build

# TRAFIMET ERGOCUT A141



Part No.	Description	Pack
PC0103	Contact cutting nozzle A141	2
PC0131	Contact cutting nozzle long life A141	2
PD0101-11	Tip Ø1.1 A101/A141	10
PD0101-14	Tip Ø1.4 A101/A141	10
PD0101-17	Tip Ø1.7 A101/A141	10
PD0111	Long Tip A101/A141	10
PD0117-14	Long Tip Ø1.4 A101/A141	10
PD0117-17	Long Tip Ø1.7 A101/A141	10
PD0117-19	Long Tip Ø1.9 A101/A141	10
PE0101	Air diffuser A101/A141	2
PE0103	Air diffuser A151	2
PF0155	Torch head Ergocut A141	1
PH0101	Air-power cable 6m1/4G	1
PH0103	Air-power cable 12m M14x1G	1
PH0107	Air-power cable 6m1/4G	1
PH0110	Air-power cable 12m M1/4G	1
PH0148	Rie-power cable 6m M14x1	1
PH1171	Rie-power cable 6m central adaptor	1
PH0150	Rie-power cable 12m M14x1	1
PH0151	Rie-power cable 12m central adaptor	1
PR0101	Electrode A01/A141	10
PR0116	Long Electrode A141/A151	10
PT0201	Ergocut handle spring pins kit	1
QB0164	Outer protection liner A140 per meter	1
TP0110	Ergocut S/A/CB kit handle	1
BX0020	Trigger	10
BW0311	Big joint with Ergotig / Ergocut ring	1
BW0340	Key safety trigger	1
BW0345	Ergocut handle	1
BX0125	Cable for pilot arc per meter	
BX0138	Control cable per meter	
CV0008	Contact cutting attachment	10
CV0009	Long contact cutting attachment	10
CV0011	Stand off guide	10
CV0012	Two pins crown shield	2
CV0013	Gouging shield	2
CV0014	Four pins crown shield	2
CV0021	Carriage	1
CV0022	Circle cutting attachment	1
CV0023	Contact cutting attachment	10
CV0039	Four pins crown shield	2
CV0089	Flowmeter A141/P141	1
CY0035	Cable support	10
CY0036	Cable support	10
EA0131	O-ring	10
EA0236	Screw	10
EA0313	Spring	1
FH0563	Diffuser	1
FY0023	Male central adaptor	1
PC0101	Outside nozzle A141	2
PC0102	Heavy Duty nozzle A141	2

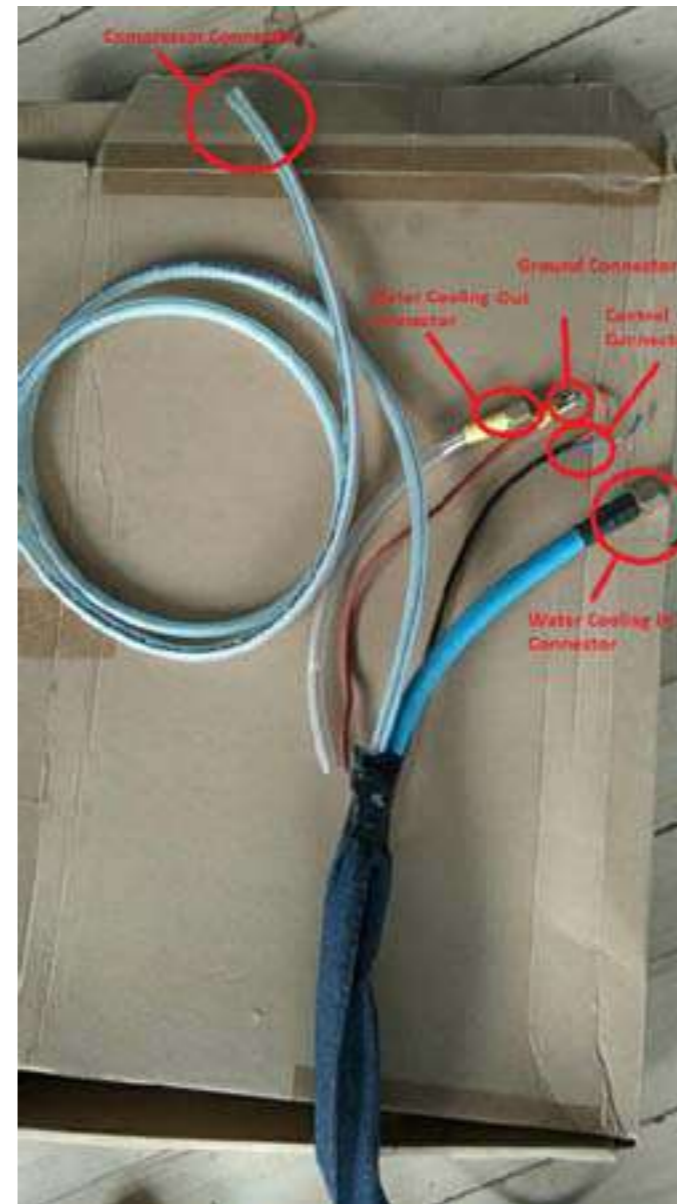
TECHNICAL DATA	
Part No.	Description
Voltage Class	M
Standard Length m	6
Air Consumption	210 l/min
Air Pressure	5 Bar
Duty Cycle 60%	140 A
Duty Cycle 100%	100 A

COMPLETE TORCH		
Part No.	Description	Pack
PA1500	Plasma ERGOCUT Torch A141 6m M14x1	1
PA1501	Plasma ERGOCUT Torch A141 12m M14x2	1
PA1502	Plasma ERGOCUT Torch A141 6m 1/4G	1
PA1504	Plasma ERGOCUT Torch A141 6m central adapter	1
PA1505	Plasma ERGOCUT Torch A141 12m central adapter	1

# PLASMA CUTTING TORCH HB-200



Technical Data	
Cooling Method	Water Cooled
Arc Ignition	High Frequency
Working Pressure	5 Bar
Flow Rate	1.5 L/min
Maximum Thickness	55 mm
Length	6 Meter



No.	Description	Part No.	Qty.
1	PLASMA TORCH SET	310050-0002H	1 Set
2	PLASMA ELECTRODE	10199961 HB200E	10ea / pack
3	NOZZLE TIP	10199960 HB200T	10ea / pack
4	PLASMA PROTECTIVE CAP	10199899 HB200N	10ea / pack
5	PLASMA DISTANCE SPRING	HB200D	5ea / pack



# ACCESSORIES TIG TORCH TIG WP/SR-18

LINERS			
No.	Part Name	Part Code	Weldstone Code
1	Ceramic	10N47	0895.50008
		10N48	0895.50009
		10N49	0895.50006
		10N50	0895.50007
		54N14	0895.15004
		54N15	0895.15003
		54N16	0895.15002
		54N17	0895.15001
2	Collet Body	10N28	0891.11001
		10N29	0891.11002
		10N30	0891.11003
		10N31	0891.11004
		10N32	0891.11005
Technical Data			
Output Current		350	
Duty Cycle		60/100	
Flow Rate		11 (±5%)	

LINERS			
No.	Part Name	Part Code	Weldstone Code
3	Insulator	18CG	0894.11001
		18CG-20	0894.11002
		54N01	0894.13001
		54N63	0894.13002
4	Torch Body	WP-18	0818.35001
		WP-18F	0818.36001
		WP-18P	0818.37001
		WP-18V	0818.38001
5	Collet	10N23	0890.11003
		10N24	0890.11004
		10N25	0890.11007
		10N2X	0890.11208
		10N26	0890.14001
		57Y02	0893.12001
		57Y03	0893.14001
57Y04	0893.12005		



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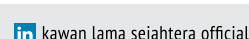
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