

WELDING WITH A NEW SKILL





PROFILE

Parag Traders was established in GIDC, Vatva, Ahmedabad in 1980 by Mr. Parag Mashruwala to cater the requirements if Welding and Cutting Industries situated in Ahmedabad.

As On Today Parag Traders is known as "PARAG ELECTRODES AGENCIES PRIVATE LIMITED"

In the year 1990, We were appointed exclusive stockiest of "MODI ARC ELECTRODES COMPANY, Modinagar (U.P.)". Which is the forefront of welding technology in India for over Six Decades.

With our Continuous hard work and effort of our R&D Team one of the biggest milestone achieved by developing our own brand "PARAGWELD" for Welding and Cutting Equipment's

The products covered under our own brand "PARAG WELD" are as follows.

- » Inverter Based Welding Machines
- » Inverter Based Plasma Cutting Machines
- » Mild Steel Copper Coated Mig Welding Wire
- » Flux Cored Mig Welding Wires
- » Flux Coated Welding Electrodes
- » Robotic Welding and Cutting Equipments
- » CNC Flame and Plasma Cutting Equipment
- » Automatic Special Purpose Machinery for Welding & Cutting

OUR VISION

Our vision is to build and organization which will be seen as the reliable source of welding and cutting equipment with well equipped in house service station.

OUR MISSION

PARAG ELECTRODES AGENCIES PRIVATE LIMITED is in the business of Sales and Service provider of welding and cutting equipment. Our Mission is to continuously keep improving services and products, thereby providing effective solutions to our customers.

WE VALUE YOUR TRUST





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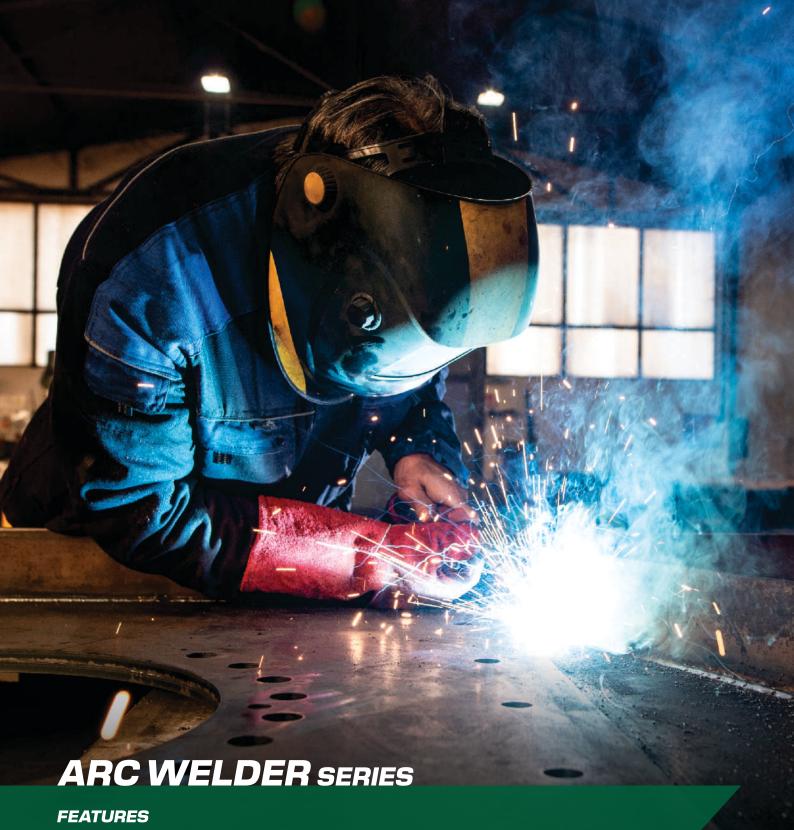
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Manual Metal Arc Welding, also know as shielded Metal Arc Welding, Flux Shielded Arc Welding or informally as stick welding, is a manual arc welding process that uses a consumable electrode coated with flux to lay the weld. An electrode current, in the form of either AC or DC from a welding power supply, is used to form an electric arc between the electrode and the metal to be joined.

Because of versatility of process and simplicity of its equipments and operation, shielded metal Arc welding is one of the world's most popular welding processes. The process is used primarily to weld the steels (including stainless steel) but Aluminium, Nickel and Copper Alloys can also be welded with this method.



PARAMETERS		ARC 200	ARC 300 GS	ARC 300 G	ARC 400 G/400 I	ARC 630I	ARC 1000
Phase		Single	Single	Three	Three	Three	Three
Input Voltage (V	/IN)	AC 220V ± 15%	AC 220V ± 15%	AC 415V \pm 15%	AC 415V \pm 15%	AC 415V ± 15%	AC 415V \pm 15%
Input Frequency (F	Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Rated Input Power (k)	VA)	6.1	10.2	9.4	17.15	35.89	45.13
Rated Input Current (Ar	mp)	30	44	20	23.9	50	63
Output Current Range (A	(A)	20-200	20-300	20-300	40-400	40-630	40-1000
Rated Output Voltage (V)	76	76	76	76	85	90
Force Range (A	(A)	NA	NA	0-100	0-100	0-100	0-100
Duty Cycle (9	%)	60	60	60	60	100	100
No Load Loss (\	W)	40	40	50	100	150	240
Efficiency (S	%)	80	85	85	85	85	85
Power Factor		0.93	0.93	0.93	0.93	0.93	0.93
Insulation Grade		F	F	F	F	F	F
Housing Protection Grad	de	IP21	IP21	IP21	IP21	IP21	IP23S
Electrode Dia. (m	nm)	1.6 - 3.15	1.6 - 3.15	1.6 - 3.15	1.6 - 5.00	1.6 - 6.30	1.6 - 6.30
Weight (K	Kg)	8	9	17.5	22	54	85
Dimension (m	nm)	395 x 153 x 301	420 x 150 x 240	455 x 202 x 372	515 x 262 x 468	670 x 320 x 640	740 x 365 x 690



FEATURES

Tungsten Inert Gas (TIG) Welding, also know as Gas Tungsten Arc Welding (GTAW), is an Arc welding process that uses a non-consumable tungsten electrode to produce the weld. The weld area is protected from atmospheric contamination by a shielding gas (usually an inert gas such as argon), and a filler is normally used. A constant-current welding power supply produces energy which is conducted across the arc through a column of highly ionized gas & metal vapors know as a plasma.

GTAW is most commonly used to weld thin sections of stainless steel and non-ferrous metals such as aluminum, magnesium and copper alloys. The process grants the operator greater control over the weld than competing processes such shielding metal arc welding & gas metal arc welding, allowing for stronger, higher quality welds. However, GTAW is comparatively more complex and difficult to master, and furthermore, it is significantly slower than most other welding techniques. A related process, Plasma Arc Welding, uses a slightly different welding torch to create a more focused welding arc & as a result is often automated.









TIG630IJ



PARAMETERS		TIG 200 A	TIG 250 A	TIG 400 IJ	TIG 630 IJ
Phase		Single	Three	Three	Three
Input Voltage	(VIN)	AC 220V \pm 15%	AC 415V ± 15%	AC 415V \pm 15%	AC 415V \pm 15%
Input Frequency	(Hz)	50/60	50/60	50/60	50/60
Rated Input Power	(kVA)	9.46	12	20	26 & 18
Rated Input Current	(Amp)	43 & 26	16.69	27.6 & 29	27.6 & 29
No Load Voltage	(V)	56	62	68	68
Output Current Range	(A)	10 - 200	10-250	10-400	10-600
Rated Output Voltage	(V)	28 & 18	32 & 22	36 & 26	36 & 26
No Load Loss	(W)	40	60	45	45
Duty Cycle	(%)	60	60	60	60
Efficiency	(%)	80	85	85	85
Arcing Way		High Frequency ARC	High Frequency ARC	High Frequency ARC	High Frequency ARC
Power Factor		0.73	0.93	0.93	0.93
Insulation Grade		F	F	F	F
Housing Protection Gra	ıde	IP21	IP21	IP21	IP21
Wire & Electrode Dia.	(mm)	1.6-2.0 & 1.6-3.15	1.6-3.15 & 1.6 - 3.15	1.6-4.0 & 1.6-5.0	1.6-5.0 & 1.6-6.3
Weight	(Kg)	10	16	24	45
Dimension	(mm)	395 x 153 x 301	505 x 203 x 375	550 x 280 x 245	580 x 300 x 250

PULSE TIG/MMA AC/DC WELDER SERIES











PARAMETERS		TIG 400 P	TIG 200 P AC/DC	TIG 315 P AC/DC	TIG 400 P AC/DC
Phase		Three	Single	Three	Three
Input Voltage	(VIN)	AC 415V \pm 15%	AC 220V ± 15%	AC 415V ± 15%	AC 415V \pm 15%
Input Frequency	(Hz)	50/60	50/60	50/60	50/60
Rated Input Power	(kVA)	12.9 & 8.9	12.9 & 8.9	12.9 & 8.9	23 & 16
Rated Input Current	(Amp)	19.6 & 13.5	19.6 & 13.5	19.6 & 13.5	27.6 & 20
No Load Voltage	(V)	54	54	54	68
Output Current Range	(A)	10-400	10-315	10-315	10-400
Rated Output Voltage	(V)	22.6	22.6	22.6	36 & 26
No Load Loss	(W)	50	50	50	45
Duty Cycle	(%)	60	60	60	60
Efficiency	(%)	85	85	85	85
Arcing Way			High Frequ	uency ARC	
Power Factor		0.93	0.93	0.93	0.93
Insulation Grade		F	F	F	F
Housing Protection Gra	ade	IP21	IP21	IP21	IP21
Wire & Electrode Dia.	(mm)	1.6-4.0 & 1.6-4.0	1.6-3.15 & 1.6-3.15	1.6-3.15 & 1.6-3.15	1.6-3.15 & 1.6-4.0
Weight	(Kg)	28	30	30	25
Dimension	(mm)	570 x 364 x 540	570 x 364 x 540	570 x 364 x 540	478 x 328 x 302



FEATURES

Metal Inert Gas (MIG) Welding or Metal Active Gas (MAG) Welding, also known as Gas Metal Arc Welding (GMAW) is a semi-automatic or automatic arc welding process in which a continuous and consumable wire electrode and a shielding gas are fed through a welding gun. A constant voltage, DC power source is most commonly used with MIG/MAG, but constant current systems, as well as AC, can be used. There are four primary methods of metal transfer in MIG/MAG, called globular, short-circuting, spray and pulsed-spray, each of which has distinct properties and corresponding advantages & limitations.

The process became highly used in industry. Today, MIG/MAG is the most common industrial welding process, preferred for its versatility, speed and the relative ease of adapting the process to robotic automation. Unlike welding processes that do not employ a shielding gas, such as MMA, it is rarely used outdoors or in other areas of air volatility. A related process, flux cored arc welding, often does not utilize shielding gas, instead employing a hollow electrode wire that is filled with on the inside.

MIG/MMA WELDER SERIES











PARAMETERS		MIG 200 G	MIG 250 F	MIG 400 Pro	MIG 500 Pro
Phase		Single	Three	Three	Three
Input Voltage	(VIN)	Ac230±15%	AC 415V \pm 15%	AC 415V ± 15%	AC 415V \pm 15%
Input Frequency	(Hz)	50-60	50/60	50/60	50/60
Rated Input Power	(kVA)	8.4	7.89	11.1	19.5
Rated Input Current	(Amp)	9	11	26	37.5
No Load Voltage	(V)	56	56	65	65
Output Current Range	(A)	50-200A	40-250	40-400	50-500
Rated Output Voltage	(V)	11-22.50	14-26.5	31.5	39
Duty Cycle	(%)	60	60	100	100
Efficiency	(%)	85	85	85	85
Power Factor		0.93	0.93	0.93	0.93
Insulation Grade		F	F	F	F
Housing Protection Gra	de	IP21	IP21	IP21	IP21
Wire Feeding Speed	(M/Min)	2.50-11.00	2.50 - 13.00	3.00 - 15.00	3.00 - 15.00
Wire Feeding Mechanis	sm	Inbuilt	External	External	External
Wire Dia	(mm)	0.8 - 1.00	0.8 - 1.00	0.8 - 1.2	0.8 - 1.6
Weight	(Kg)	21	15	30	36
Dimension	(mm)	452 x 250 x 410	505 x 203 x 375	530 x 290 x 450	585 x 315 x 480



Plasma Cutting is a process that is used to cut steel and other metals of different thickness (or sometimes other materials) using a plasma torch. In this process, a compressed air is blown at high speed out of a nozzle; at the same time an electrical arc is formed through that frequency from the nozzle to the surface being cut, turning some of that gas to plasma. The plasma is sufficiently hot to melt the metal being cut and moves sufficiently fast to blow melt metal away from the cut.

LGK AIR PLASMA CUTTER SERIES











PARAMETERS		LGK 63	LGK 100	LGK 120	LGK 160	LGK 200
Phase		Three	Three	Three	Three	Three
Input Voltage	(VIN)	AC 415V ± 15%	AC 415V \pm 15%	AC 415V \pm 15%	AC 415V \pm 15%	AC 415V \pm 15%
Input Frequency	(Hz)	50/60	50/60	50/60	50/60	50/60
Rated Input Power	(kVA)	11	15.8	15.8	32	45
Rated Input Current	(Amp)	14.5	23	24	43	68
No Load Voltage	(V)	308	295	305	320	340
Output Current Range	(A)	25-63	30 - 100	30-120	35-160	40-200
Rated Output Voltage	(V)	105.2	120	128	144	160
Duty Cycle	(%)	60/40°C	80/40°C	80/40°C	100/40°C	100/40°C
No Load Loss	(W)	80	100	100	100	80
Efficiency	(%)	85	90	90	90	90
Power Factor		0.93	0.86	0.86	0.89	0.89
Insulation Grade		F	F	F	F	F
Housing Protection Grade		IP21S	IP21S	IP21S	IP21S	IP21S
Arcing Way		HF (Pilot Arc)	HF (Pilot Arc)	HF (Pilot Arc)	HF (Pilot Arc)	HF (Pilot Arc)
Air Pressure	(HP)	4.0 - 5.0	4.5 - 5.5	4.5 - 5.5	4.5 - 5.5	4.5 - 5.5
Cutting Plate Thick.	(Max mm)	1-12 / 1-15	1-20 / 1-30	1.30 / 1.40	1-40 / 1-50	1-60 / 1-70
Cutting Plate Thick. (CNC	Dross Free)	8	12	16	18	22
Weight	(Kg)	28.5	35	38	58	75
Dimension	(mm)	580 x 295 x 480	636 x 290 x 535	636 x 290 x 535	720 x 350 x 625	825 X 350 X 735



- weight of the welder.
- » Great reduction in magnetic loss obliviously enhances the welding efficiency and energy and energy saving effect.
- » Switching frequency is beyound audio range, which almost eliminates noise pollution.
- » Arc voltage compensation function, providing a good condition for welding.
- » Constant current output and stable arc, ensuring high-quality welding.
- » The power source can be used for submerged arc welding, MMA welding and air carbon arc gouging.

SUBMERGED ARC WELDER SERIES







MZ - 1250

Automatic Submerged Arc Welding Machine

PARAMETERS	MZ 1000	MZ 1250
Phase	Three	Three
Input Voltage (Vin)	AC 415V \pm 15%	AC 415V \pm 15%
Input Frequency (Hz)	50/60	50/60
Rated Input Power (kVA)	57	79.93
Rated Input Current (Amp)	80	98
No Load Voltage (V)	84	105
Output Current Range (A)	100-1000	100-1250
Rated Output Voltage (V)	44	44
Force Range (A)	0-100	0-10
Duty Cycle (%)	100/40°C	100/40°C
No Load Loss (W)	300	300
Efficiency (%)	88	85
Power Factor	0.93	0.93
Insulation Grade	F	F
Housing Protection Grade	IP21S	lp21
Weight (Kg)	89	92
Electrode Dia (mm)	3.15 - 6.3	3.15 - 6.3
Dimension (mm)	810 x 405 x 805	810 x 405 x 805
Output Cable	70 mm ²	70mm ²

TROLLEY SPECIFICATION	(WIRE FEEDER PARAMETERS)
Electrode Diameter (mm)	2.4, 3.2, 4.0,5.0
Wire Feeding Speed (cm/min)	0-150
Welding Speed (cm/min)	40-250
Vertical Adj. of the Nose (mm)	95
Beam can be lifting height (mm)	120
Horizontal Adj. of the Nose (mm)	+30
Thread (mm)	300
Wheelbase (mm)	350
Volume of Flux Container	10L
Wire Spool Capacity (kg)	30
Dimension (L x W x H) (mm)	1030 x 510 x 930
Weight (kg)	65



SPECIAL PURPOSE MACHINERY FOR WELDING & CUTTING





Gas Cutting Carraige

This Sturdy design is one of the most popular and best-selling carriages in the manufacturing industry. The "PARAGWELD" is an extremely powerful, versatile tractor, specially designed to be compatible with most applications. with the ability to adapt to each process, the machine is very flexible while keeping the operating system simple. This model can also be used for Oxyflame bevel and circle cutting.

Plasma Cutting Carraige

This Sturdy design is one of the most popular and best-selling carriages in the manufacturing industry. The "PARAGWELD" is an extremely powerful, versatile tractor, specially designed to be compatible with most applications, with the ability to adapt to each process, the machine is very flexible while keeping the operating system simple. This model can also be used for Plasma a bevel and circle cutting.





Welding Carriage

Universal Carriage is track based non magnetic Carriage designed for various purposes like plasma cutting and welding. XY slide unit having degree of freedom to adjust Angle of torch head and variable speed for cutting/welding speed.

- » Affordable and Portable.
- » Multi-purpose for Welding/Cutting.
- » Smooth Speed Control with DC motor and Drive.
- » Simple Rail connections allows easy changeover.

Flexible Welding Carriage

Flexible welding Carriage been used for linear seam weld on Tanks, curved beam or steel structure having irregular curve with MIG/MAG welding process.

- » Easy and flexible torch adjustment allows optimal torch position
- » Hand pendant Allows welder to work in a more ergonomic position
- » Programmable weaving options
- » Easy connection with welding inverter





Magnetic Welding Carriage

Magnetic Welding Carriage allows increasing your production and reducing your welding costs, by providing constant, non-stop travel at a regulated speed and consistent high-quality welds in a fraction of the time.

- » Compact and lightweight design for welding in narrow spaces.
- » Precise cross-slide torch adjustment.
- » Maintenance free, 4-wheel planetary gear drive system.
- » Precise travel speed and torch angle reduces weld defects.

SPECIAL PURPOSE MACHINERY FOR WELDING & CUTTING



Column and Boom

Parag Weld delivers compact design welding manipulator. It can support both circumferential and longitudinal welding application from small tube to big tank. Our welding manipulator has maximized both safety and productivity.

- » Quick, accurate motorized operation.
- » Stroke of manipulator range from 1 meter to 6 meter.
- » manipulators have anti-fallen device.
- » Heavy duty table with bearing mounted for rotation or can be mounted on to travel car.



Special Purpose Robotic Welding Machine

Welding SPM helps to increase productivity and repeatability high quality welds. We provide unique customized solution with delivering high quality products ans services that meet or exceed our customer's expectations.

- » Simplified Operations, Consistent Quality and Productivity
- » Precise travel speed and torch angle reduces weld defects
- » Unskilled and Semi Skilled operator can operate.
- » Overlap, On Delay, off Delay, Speed Control and more functions

Special Purpose Welding Positiner

A welding Positioner grips and rotates the work piece setting up ergonomic working posture during welding, machining and assembly of work pieces for the operator and providing faster and more efficient process. They can provide optimum welding position to achieve quality welds. Welding Positioner allow steel fabrication shops operator to position the jobs for 'down hand' position in the shortest possible time, without the use of cranes and manpower.It is Ideal welding equipment for Flange to pipe joints, cylindrical parts, Flange and Pipe



Comporessor Tank Welding SPM

Automatic Compressor Tank Welding Production Line can be devide in 4 different operation like; longitudinal seam welding machine, end cap assembling spot welding machine, circular seam automatic welding machine and nozzle welding machine. Equipped with conveyor between the 2 stages can be automised fully automatic plant. One them linear welding SPM provides high speed and leakage proof joints for compressor tank welding.

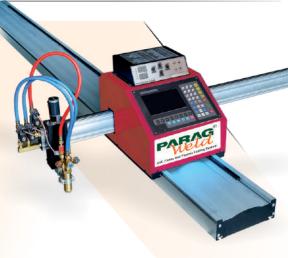
Also Covered

Robotic Welding Systems | CNC Welding Robot Automation Accessories

ECO CNC FLAME & PLASMA CUTTING MACHINE



Centiliver Portable type CNC Flame & Plasma Cutting System



	MACHINE DETAILS			
Ī	Structure	Made of High-Quality Aluminium Structure with Guide Rail		
	Plasma Power Sources	Parag Weld, Huayuan, etc.		
	Linear Guideways	Imported		
	Rack and Pinion	Helical 2 Module 15x15 mm Rack and Ground Pinion		
	Controller	FLMC-2100B Plasma Controller		
	Torch Height Controller	F1621 –Auto Torch Height Controller with Anti-Collision and Arc Voltage		
	Stepper Motor & Drive	Leadshine Make Stepper Motors and Drive		
	Drive Mode	Single Drive with Stepper Motor		
	Rail	Aluminium Guide Rail with Suitable Spare Parts		
	Torch Lifter	Imported		
	Nesting Software	Most 2D, FLCHAM, FastCHEM		

Portable Gantry type CNC Flame & Plasma Cutting System



Also Covered

Portable Gantry Flame & Plasma Cutting System
Portable Gantry Profile Cutting System | Tabletop CNC Plasma Cutting System
CNC Plasma Pipe Cutting System

GANTRY TYPE CNC AIR PLASMA AND FLAME CUTTING MACHINE



Heavy duty Gantry type CNC Flame & Plasma Cutting System



MACHINE DETAILS	
Structure	Made of High-Quality Mild Steel Structure with Guide Rail
Plasma Power Sources	Parag Weld, Huavyan , Hyertherm, Etc.
Linear Guideways	Imported
Rack and Pinion	Helical 2 Module 25x25 mm Rack and Ground Pinion
Controller	FLMC-2300B Plasma Controller
Torch Height Controller	F1621 –Auto Torch Height Controller with Anti-Collision and Arc Voltage
Motor & Drive	Panasonic / Fuji Make Servo Motors and Drive
Gear Box	Shimpoo or Similar
Rail	High Quality 24 KG Guide Rail with Suitable Spare Parts
Torch Lifter	Imported
Nesting Software	Most 2D, FLCHAM, FastCHEM

CNC FIBER LASER CUTTING MACHINE

Heavy duty Table type Fiber Laser Cutting System



MACHINE DETAILS			
Structure	Made of High-Quality Mild Steel Structure with Guide Rail		
Laser Power Sources	IPG Photonics , Raycus , Max Photonics , JPT		
Linear Guideways	PMT , Hi-Win		
Rack and Pinion	Y.Y.C make Helical Ground Pinion		
Controller	CYP- CUT Controller		
Cutting Head	RAYCUS Auto Focus Head		
Software	FS-CUT Nesting Software		
Motor & Drive	Panasonic / Fuji Make Servo Motors and Drive		
Gear Box	Shimpoo or Similar		
Cooling System	Water Chillar		
Torch Lifter	Imported		
Nesting Software	Most 2D, FLCHAM, FastCHEM		

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Also Covered

Heavy Duty Tabletop CNC Plasma Cutting System | CNC Plasma Pipe Cutting System | Heavy Duty Laser Pipe Cutting System | Heavy Duty Laser Pipe + Plate Cutting System



product quality, using an optional freestanding support accessories and its consumable allows one to the weld or cut smooth and faster.

COPPER COATED MIG WELDING WIRE AWS ER70S-6





DESCRIPTION

» AWS ER70S-6 is a kind of mild steel copper coated welding wire, suitable for 100% CO² and Argon & CO² mixed gas protective welding with stable feasibility, good welding seams, less spatters and excellent welding process properties.

WIRE DIAMETER	SPOOL SIZE	NET WEIGHT
0.8 mm	DD 270 mm	15 kg
1.2 mm	DD 270 mm	15 kg
1.6 mm	DD 270 mm	15 kg

FLUX CORED MIG WELDING WIRE AWS E71T-1



DESCRIPTION

» AWS E71T-1 is the use of titanium-based flux-cored wire welding. Deposited efficient performance of all-position welding process better, legislation can also be welded down.

WIRE DIAMETER	SPOOL SIZE	NET WEIGHT
1.2 mm	DD 270 mm	15 kg
1.6 mm	DD 270 mm	15 kg

WELDING ELECTRODES

E-6013 Coated Welding Electrodes



ADVANTAGES

- » Low Spatter on Mild Steel Plates
- » Low Gas
- » Smooth Welding
- » Easy Flux Chipping

ELECTRODE SIZE	TOTAL PACKET / BOX	NET WEIGHT / BOX
2.50 x 350 mm	4 Pkt (5 Kg Each)	20 kg
3.15 x 350 mm	4 Pkt (5 Kg Each)	20 kg
4.00 x 450 mm	4 Pkt (5 Kg Each)	20 kg
5.00 x 450 mm	4 Pkt (5 Kg Each)	20 kg

ARC WELDING ACCESSORIES



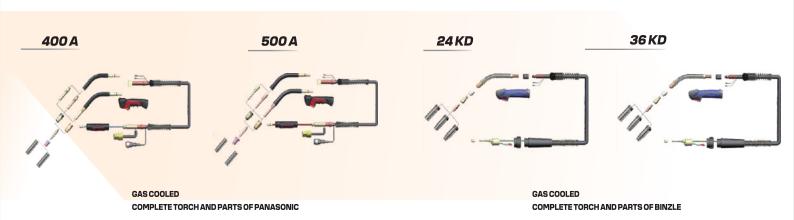








MIG WELDING ACCESSORIES



TIG WELDING ACCESSORIES



PLASMA CUTTING TORCH ACCESSORIES





OPTIONAL ACCESSORIES







CNC PLASMA AND FLAME CONTROLLER

Welding Machine Trolley





TIG COLD WIRE FEEDER





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