

## Pneumatic Spot Welding Machine & Butt Welding Machine Pedal Operated

Since : 1982



### Specifications :

Particulars	Units	Pneumatic Spot Welding Machine			
Model	Units	RE-15	RE-20	RE-30	
KVA Rating @ 50% Duty Cycle	KVA	15	20	30	
Input Supply (2 Lines of 3 Phase)	Volts	380 / 440	380 / 440	380 / 440	
Phase		2	2	2	
Insulation Class		A	A	A	
Nominal Throat Clearance	MM	250	250	250	
Throat Depth	CM	50	50	50	
Max. Available short circuit current	K. Amps.	8500	10000	12000	
Max. Electrode Force @ 6 kg/cm2		450	450	450	
Max. Upper Electrode Stroke	MM	50	50	50	
Approx. Dimensions H x L x W	MM	840 x 410 x 1450	1100 x 500 x 1640	1100 x 500 x 1640	
Approx. Weight with arm	Kgs.	215	220	250	
Cooling for Arms & Electrodes	Water	Water	Water	Water	
Cooling		Natural Air			
Customers to provide the following services					
Size of main supply copper cable	MM2	16	16	25	
Recommended switch rating	Amps	25	35	75	
Delayed Action Fuse Rating	Amps	30	40	60	
External Water Supply at max. Temp. 30 c	Lit./min	6	7	7	

**SCOPE & APPLICATIONS :** "RAJLAXMI" Pneumatic Operated spot welding machines are offered in 15, 20 & 30 KVA models. All machines are made of steel fabricated rigid structures eliminate the minutest spot deflection. Pneumatic spot welders are designed for high speed production jobs meets vast needs of metal fabrication industries including sheet metal components cross wire welding electro brazing, resistance heating

### Specifications :

Particulars	Wire Butt Welding Machine Pedal Operated				
WELDING RANGE	MILD STEEL	CARBON STEEL	Brass	Copper	ALU. LIGHT METAL
Wire Dia. in mm	4 - 15	4 - 10	4 - 10	4 - 8	4 - 10
Cress Section in m/m2	12 - 150	12 - 80	12 - 80	12 - 50	12 - 80
No of termally premissible welds per hour	75	75	75	30	100
Weight Approx	145 Kgs.				
Overall Dimensions in mm	L 520	W 420		H 980	

### Electrical Data

Input Supply (2 Line 3 Ph.)	Phase	Insulation Class	Frequency	Max. Rating	Duty Cycle at Max. Rating	Fuse Rating
380 / 440 Volts	2	A / F	50 Hz	20 KVA	5 %	40 AMPS

**APPLICATION :** Include upset butt welding of profiles of wires and flats of iron, alloy and carbon steel, copper, aluminum, brass and other light metals and their alloys best design for electricity saving.  
**USERS :** Include but air not limited to wire and strip and rod drawing mills; transformer motor and switchgear manufacturers, bandsaw and hacksaw blade users, small tool makers such as for welding mild steel shanks to the alloy steel portion of taps, drills, bits, screw drivers chisels, etc; hoop and ring makers; wire forming industries; cable industries; automobile industries air-conditioner and refrigerator makers; office equipmentmakers, etc.

## Inverter MMA (ARC) & TIG / MMA (ARC) Welding (MOSFET / IGBT Series)

Since : 1982



### Specifications :

Parameter	Inverter MMA (ARC) Welding						
Parameter Model	ARC 160 T	ARC 200 T	ARC 250 T	ARC 250 G	ARC 300 G	ARC 315 G	ARC 400 G
Input Voltage (V)	AC 220V±15%	AC 220V±15%	AC 220V±15%	AC 220V±15%	AC 380V±15%	AC 380V±15%	AC 380V±15%
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Rated Input Current (A)	36.7	58.4	14.4	14.4	18.5	19.7	27.7
No-load Voltage (V)	65	66	66	66	66	68	68
Output Current Range (A)	10-160	10-200	20-250	20-250	20-300	20-315	30-400
Rated Output Voltage (V)	26.4	30	30	30	32	32.6	36
Duty Cycle (%)	60	60	60	60	60	60	60
No-load Loss (W)	40	40	60	60	60	80	80
Efficiency (%)	80	80	85	85	85	85	85
Power Factor	0.73	0.73	0.93	0.93	0.93	0.93	0.93
Insulation Geade	F	F	F	F	F	F	F
Housing Protection Geade	IP21	IP21	IP21	IP21	IP21	IP21	IP21
Net Weight (Kg)	8	17.5	17.5	17.5	17.5	19.5	26.5
Dimension (mm)	375x155x232	450x205x370	505x203x375	505x203x375	505x203x375	450x299x232	565x306x502

### Application Fields :

★ Construction & Assembly Sites. ★ Light industry Iron & Steel Processing Factories ★ Home & Furniture Application ★ Equipments Assembly & Repairs ★ General Application

### Specifications :

Parameter	Inverter TIG / MMA (ARC) Welding				
Parameter Model	TIG 160A	TIG 200A	TIG 250A	TIG 300A	TIG 400A
Input Voltage (V)	AC 220V ± 15%	AC 220V ± 15%	AC 380V ± 15%	AC 380V ± 15%	AC 380V ± 15%
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Rated Input (A) MMA /TIG	33 / 20	43 / 28	14.4 / 9.6	18.4 / 12.7	27.6 / 20
No-load Voltage (V)	56	56	60	60	65
Output Current Range (A)	7-160	7-200	7-250	7-300	7-400
Rated Output Voltage (V) MMA/TIG	26.4 / 16.4	28 / 18	30 / 20	32 / 22	36 / 26
Arc Force (A)	--	--	0-100	0-100	0-130
Duty Cycle (%)	60	60	60	60	60
No-load Loss (W)	40	40	60	60	100
Arc Ignition	HF	HF	HF	HF	HF
Efficiency (%)	80	80	85	85	85
Power Factor	0.73	0.73	0.93	0.93	0.93
Insulation Grade	F	F	F	F	F
Housing Protection Grade	IP21	IP21	IP21	IP21	IP21
Net Weight (Kg)	8.5	9	19	19	28
Dimension (mm)	395 x 153 x 301	395 x 153 x 301	505 x 203 x 375	595 x 203 x 375	570 x 430 x 405

### Application Fields :

★ Small Alloy Items Manufacturing. ★ Indoor construction and decoration. ★ Small metal factory.  
 ★ Chemical pipe assembly an maintenance. ★ Powerful models can be used in the manufacturing of the big pipe and tank.

## Inverter Semi auto MIG / MAG Welding (IGBT Module Series)

Since : 1982



### Specifications :

Parameter	Inverter Semi auto MIG / MAG Welding		
Parameter Model	MIG 350 I	MIG 500 I	MIG 630 I
Input Voltage (V)	AC 380V ± 15%	AC 380V ± 15%	AC 380V ± 15%
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Rated Input Power (KVA)	13.9	24.7	35
Output Current (A)	50-350	80-500	80-630
Output Voltage Adjustment (V)	31.5	39	44
Wire-feeding Speed (m/min)	3.0-24	3.0-24	3.0-24
Duty Cycle (%)	60	60	60
Type of Wire Feeder	Split	Split	Split
Efficiency (%)	85	85	85
Power Factor	0.93	0.93	0.93
Insulation Grade	F	F	F
Housing Protection Grade	IP21	IP21	IP21
Net Weight (Kg)	36	42	50
External Dimension (mm)	550 x 280 x 545	650 x 310 x 640	650 x 310 x 640

### Product Purchase Guide :

Base Material	Welding Method	Plate Thickness (mm)	Current Range (A)	Applicable Model
Carbon Steel	CO2 / MAG	0.8 / 1.0 / 1.2	50-350	MIG 350I
Stainless Steel	CO2 / MAG	1.0 / 1.2 / 1.6	80-500	MIG 500I
Low-alloy Steel	CO2 / MAG	1.0 / 1.2 / 1.6	80-630	MIG 630I

### Application Fields :-

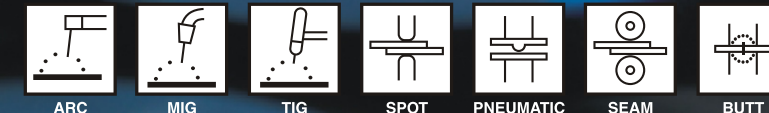
★ Large Equipment Manufacturing. ★ Heavy Steel Strcture Manufacturing Enterprises. ★ Large Field Operation Assembly & Processing. ★ Ship, Building, Heavy Machinery, Heavy Steel Construction Industries.

Since : 1982



AN ISO 9001-2008  
CERTIFIED COMPANY

Since : 1982



Always ahead for it's Quality, Workability & Availability



## INTRODUCTION

"Rajlaxmi" is an ISO 9001:2008 Certified Company. Since its foundation in the year 1982, "Rajlaxmi" is engaged in manufacturing of various types of WELDING MACHINES collectively several different kind of models with the help of a dedicated and enthusiastic team. The company work force is definitely featured with a strong, comprehensive, high-efficiency & high-educated team including design experts, well-experienced engineers & technicians quality & production control specialists, management & marketing talents as well as a wide base of skill full workers.

Our company specializes in manufacturing of all types of ARC Air & Oil Cooled welding, Spot Welding (Pedestal type and Pneumatic) Projection type Spot Welding, Butt Welding, Seam Welding, DC Welding Rectifiers, ARC/MMA, TIG, MIG Inverter welding machine, Soldering Machine & Step up Transformers, Presently, "Rajlaxmi" Products have been used broadly in Railway Department, Industrial training Institutes (ITI), Engineering Colleges, Oil Mills, Sugar Industries, Cement Plants, Cotton Ginning Plants, Kitchenware Units, Small & Large fabrication plants, Aerospace industries and various small & medium welding outlets located across in india and worldwide.

Facing the challenge of new technique in the world "Rajlaxmi" have already gotten ready for it and will continue to improve welding technology and provide better product, better service and better quality with our strict management system and strong design ability.

"Rajlaxmi" mission to support and contribute to the market demand and market development for the industries all over the world.

Quality is our Essence of Presenting "Rajlaxmi" Over the world is our core concept with its underpinning, "Rajlaxmi" is surely striding on the right road to put its continuous contribution in the technology & market development as well as to be one of world wide manufacturing leaders & suppliers in the welding industry.

"Rajlaxmi" always welcome all friends in Rajkot city of Gujarat State of India from



ARC (STUD TYPE)

ARC (REGULATOR TYPE)

ARC (PORTABLE)

Specifications :

Particulars	Units	Portable Type ARC Welding Machine		
Model	AMPS	120 A	150 A	200 A
Input Supply	VOLTS	230	230	230
Phase		1	1	1
Frequency	HZS	50	50	50
Welding Current Range	AMPS	45-120	50-150	50-200
Insulation Class		A / F	A / F	A / F
Open Circuit Voltage (O.C.V.)	VOLTS	45	45	45
Max. Welding Current at 60 % Duty Cycle	AMPS	100	120	160
Welding Electrode Size Min. / Max.	M.M.	1.6 / 2.5	2 / 3.15	2 / 3.15
Cooling		Natural air		
Approx Dimensions in mm	H L W	410 360 210	410 360 210	460 370 225
Approx Weight Aluminium / Copper	KGS.	25 / 29	30 / 35	44 / 50

### Scope and Applications :

"Rajlaxmi" portable welding machine is best suited for small repair and maintenance jobs, where portability is of prime consideration. This machine type is best utilised in intermittent operations. The machine tested under strict quality control measures to give trouble free services for long period and electricity saving.

### Specifications :

ARC Welding Machine						
Particulars	Units	Mini Stud Type		Mini Regulator Type		
Model	AMPS	150 A	200 A	250 A	150 A	200 A
Input Supply	VOLTS	230 / 440	230 / 440	230 / 440	230 / 440	230 / 440
Phase		1 / 2	1 / 2	1 / 2	1 / 2	1 / 2
Frequency	HZS	50	50	50	50	50
Welding Current Range	AMPS	45-150	50-200	50-250	45-150	50-200
Insulation Class		A	A	A	A	A
Open Circuit Voltage (O.C.V.)	VOLTS	45	50	50	45	50
Max. Welding Current at 60 % Duty Cycle	AMPS	120	160	200	120	160
Welding Electrode Size Min. / Max.	M.M.	2 / 3.15	2 / 3.15	2.5 / 3.15	2 / 3.15	2.6 / 3.15
Cooling		Natural air				
Approx Dimensions in mm	H L W	420 560 385	470 670 410	510 700 435	530 280 625	580 340 650
Approx Weight Aluminium / Copper	KGS.	45 / 54	55 / 65	65 / 78	50 / 57	65 / 73

### Scope and Applications :

★ Compact & light weight, Built with latest design ★ Useful for repair and maintenance works, light production jobs, in farms and small workshops, automobile garage & repairing workshops. ★ Tested under strict quality control measures to give trouble free services for long period and electricity saving. ★ Gives highest valued performance against its cost.



ARC (STUD TYPE)

ARC (REGULATOR TYPE)

Specifications :

Particulars	Units	Heavy Duty Stud Type ARC Welding Machine					
Model	AMPS	300 A	400 A	600 A	300 A	400 A	600 A
Input Supply	VOLTS	230 / 440	230 / 440	380 / 440	380 / 440	380 / 440	380 / 440
Phase		1 / 2	1 / 2	2	3	3	3
Frequency	HZS	50	50	50	50	50	50
Welding Current Range	AMPS	60-300	60-400	60-600	60-300	60-400	60-600
Insulation Class		A	A	A	A	A	A
Open Circuit Voltage (O.C.V.)	VOLTS	60	60	60	60	60	60
Max. Welding Current at 60% Duty Cycle	AMPS	300	400	600	300	400	600
Welding Electrode Size Min. / Max.	M.M.	2.5 / 4	2.5 / 4	3.15 / 5	2.5 / 4	2.5 / 4	3.15 / 5
Cooling		Natural air					
Approx Dimensions in mm	H L W	580 825 470	580 825 470	700 925 530	580 825 470	580 825 470	580 825 470
Approx Weight Aluminium / Copper	KGS.	90 / 110	110 / 130	145 / 185	120 / 135	140 / 180	180 / 205

### Specifications :

Particulars	Units	Heavy Duty Regulator Type ARC Welding Machine					
Model	AMPS	300 A	400 A	600 A	300 A	400 A	600 A
Input Supply	VOLTS	230 / 440	230 / 440	380 / 440	380-440	380-440	380-440
Phase		1 / 2	1 / 2	2	3	3	3
Frequency	HZS	50	50	50	50	50	50
Welding Current Range	AMPS	60-300	60-400	60-600	60-300	60-400	60-600
Insulation Class		A	A	A	A	A	A
Open Circuit Voltage (O.C.V.)	VOLTS	60	60	60	60	60	60
Max. Welding Current at 60% Duty Cycle	AMPS	300	400	600	300	400	600
Welding Electrode Size Min. / Max.	M.M.	2.5 / 4	2.5 / 4	3.15 / 5	2.5 / 4	2.5 / 4	3.15 / 5
Cooling		Natural air					
Approx Dimensions in mm	H L W	625 510 800	625 510 800	660 685 865	980 600 620	980 600 620	980 670 700
Approx Weight Aluminium / Copper	KGS.	117 / 130	130 / 145	177 / 200	170 / 185	185 / 215	225 / 265

### Scope and Applications :

★ Heavy Duty, Built with latest design. ★ Useful for fast production structural work machine building and fabrication, filling jobs, Reclamation of worn-out machine parts, Arc cutting jobs and many types of truly heavy duty applications. ★ Tested under strict quality control measures to give trouble free services for long period and electricity saving. ★ Gives highest valued performance against its cost.



DC ARC (RECTIFIER)

ARC (DOUBLE HOLDER)

Specifications :

Particulars	Units	Heavy Duty D.C. ARC Welding Rectifier	
Model	AMPS	400 A	600 A
Input Supply	VOLTS	380 / 440	380 / 440
Phase		3	3
Frequency	HZS	50	50
Welding Current Range	AMPS	40-400	60-600
Insulation Class		H	H
Open Circuit Voltage (O.C.V.)	VOLTS	80	80
Max. Welding Current at 60% Duty Cycle	AMPS	400	600
Welding Electrode Size Min. / Max.	M.M.	2.5 / 4	3.15 / 5
Cooling		Forced Air Cooled	
Approx Dimensions in mm	H L W	760 750 580	890 1060 710
Approx Weight	KGS.	260	360
Rating (K.V.A.)		30 K.V.A.	45 K.V.A.

Scope and Applications : ★ Real Vertical Characteristics. ★ Stable ARC with easy droplet transfer. ★ Remote current control unit (Optional) ★ Reliable and Tropical Design. ★ Superb welding Performance with all type of alloy steel & SSE ★ Best design for electricity saving.

### Specifications :

Particulars	Units	Heavy Duty Regulator Type ARC Welding Machine Double Holder		
Model	AMPS	300 A	400 A	600 A
Input Supply	VOLTS	380 / 440	380 / 440	380 / 440
Phase (2 Lines of 3 Phase Supply)		2	2	2
Frequency	HZS	50	50	50
Welding Current Range	AMPS	60-300	60-400	60-600
Insulation Class		A	A	A
Open Circuit Voltage (O.C.V.)	VOLTS			
Max. Welding Current at 60% Duty Cycle	AMPS	300	400	600
Welding Electrode Size Min. / Max.	M.M.	2.5 / 3.15	2.5 / 4	3.15 / 4
Cooling		Natural air		
Approx Dimensions in mm	H L W	840 840 630	840 840 630	940 840 630
Approx Weight Aluminium	KGS.	155 / 190	190 / 225	225 / 300

Scope and Applications : ★ Heavy Duty, Built with latest design ★ Useful for fast production structural work, machine building and fabrication, filling jobs, reclamation of worn-out machine parts, ARC cutting jobs and many types of truly heavy duty applications. ★ Tested under strict quality control measures to give trouble free services for long period and electricity saving. ★ Gives highest valued performance against its cost.



SPOT (SELECT)

SPOT (HEAVY DUTY)

### Specifications :

Particulars	Units	Heavy Duty Spot Welding Machine				
Model	Units	RE-8	RE-10	RE-12	RE-15	RE-20
Rating @ 50% Duty Cycle	KVA	8	10	12	15	20
Input Supply	Volts	230 / 440	230 / 440	230 / 440	380 / 440	380 / 440
Phase		1 / 2	1 / 2	1 / 2	2	2
		Single Phase (2 Lines of 3 Phase Supply)				
Insulation Class		A (Cu.)	A (Cu.)	A (Cu.)	A (Cu.)	A (Cu.)
Nominal Throat Clearance	MM	230	230	230	230	230
Throat Depth	MM	450	450	450	450	450
Max. Electrode Stroke	MM	40	40	40	40	40
Nominal Electrode Force (Approx.)	Kg.	100	100	100	100	100
Max. Available short circuit current	K. Amps.	7.5	7.5	8	10	12
Welding Range		Natural Air				
Mild Steel Thickness Max. / Min. 2x	MM	2.0 / 0.3	2.5 / 0.3	3.0 / 0.4	3.0 / 0.5	3.5 / 0.6
Brass Steel Thickness Max. / Min. 2x	MM	0.9 / 0.1	1.1 / 0.2	1.2 / 0.25	1.5 / 0.3	2.0 / 0.3
Stainless Steel Thickness Max. / Min. 2x	MM	1.8 / 0.25	2.2 / 0.28	2.4 / 0.32	2.4 / 0.35	3.0 / 0.4
Cooling for Arms & Electrode		Water	Water	Water	Water	Water
Cooling		Natural Air				
Approx. Dimensions in mm	H L W	1200 660 450	1200 660 450	1200 660 450	1200 680 450	1200 700 500
Approx. Weight	Kg.	150	155	155	155	185
		Customers to provide the following services				
Size of main supply copper cable	MM2	10	12	30	30	40
Recommended switch rating	Amps	20	20	30	30	40
Delayed Action Fuse Rating	Amps	20	20	30	30	40
External Water Supply at max. Temp. 30°C	Lit/min	3	3	3	3.5	3.5

### GENERAL DESIGN :

"RAJLAXMI" pedal operated rocker arm type spot welding machines are offered in 8, 10, 12, 15 & 20 KVA models each with three standard throat depth to cover practically all applications. all machines are made of steel fabricated rigid structures to eliminate the minutest spot deflections.