

**WELDING TRANSFORMER
MAKE : SI / MODEL : SI-WTF-2**



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TECHNICAL SPECIFICATION

Input Voltage Supply	2 lines of 3 phase, 415+10 %.50 Hz AC
Rated Input Power	20 KVA
Welding Current Range	60 -400 Amp
Open Circuit Voltage	65 V
Maximum Continuous Automatic welding current @100% duty cycle	235 Amp
Maximum Continuous Hand welding current @60% duty cycle	305 Amp
Maximum intermittent Welding current @ 35% duty Cycle	400 Amp
Cooling Type	Forced Air Cooled
Insulation	Class F
Protection Type	IP 23
Welding Cable Copper 50 Sq. mm As per IS specifications	5 Mtr.
Earthling Cable Copper 50 Sq. mm As per IS specifications	5 Mtr.
Input supply cable for machine as per Power rating.(ISI) (10 mtr).	
Electrode Holder (Totally insulated).	
Earthling Clamp Spring Loaded.	

The machine Working with 2 lines of 3Ph. 415 Volt, AC-50 Hz supply. The machine are useful for manual arc welding in pipe welding and plate welding in all position. It Portable & easy arc striking with all types of electrode. The outer casing is phosphate and power coated for protection against any offshore, acidic climate. The machine is portable with 4 wheels, 2 front wheels will be swiveling type i.e. easily movable according to requirement. The machine is sturdy in design with angle frame with eyebolts facility for lifting. The bottom side of machine with metal perforated sheet. The machine with step less variation in current, moving core design. The machine 100 % copper wound with copper tapping and brass nut bolt. Digital type Ammeter & Voltmeter for output current and Voltage measurement. All winding of copper only for better welding characteristic. Output current can be increased or decreased with a suitable standard motor mechanism which controlled by remote control unit and also manually from Front Panel. Maximum power factor maintained during duty cycle using suitable Power factor correction capacitor. Adjustment of welding current will feasible even while welding is in progress. Separate earthling terminal will be provided on the machine & it is marked with proper symbol.

**WELDING TRANSFORMER - INVERTER BASED WELDING
MAKE : SI / MODEL : SI-WIB-300**



**WELDING TRANSFORMER - INVERTER BASED WELDING
MAKE : SI / MODEL : SI-WIB-300**

TECHNICAL SPECIFICATION

Excellent reliability with high performance.

Step less output current adjustment and steady welding current.

Option for low carbon steel and alloy steel welding.

Constant current delivery.

Also, suitable for aluminum TIG welding.

Offers high metal recovery due to less spatter.

Compact and robust design, suitable for construction sites and heavy industries.

Transformer	400 AMP
Input voltage	V 415 ±10 %
Phase No.	2 Line 3 Phase
Frequency	50 Hz
Rated Input Capacity	20 KVA
Open circuit voltage	76 V
Current range	80-400 A
Welding current control Type	Step less
Maximum input current	46 A
Welding current at	@35% duty cycle : 400 A @60% duty cycle : 305 A @100% duty cycle : 235 A
Cooling Type	Air cooled
Protection Type	IP 21 S

❖ **Standard Accessories :**

- Electrode holder
- Earth clamp
- Welding cable 50 sq . mm (Copper) – 15 mtr
- Earth lead 50sq.mm (Copper) – 15 mtr

**D.C ARC WELDING RECTIFIERS SET
MAKE : SI / MODEL : SI-DAR-75**



TECHNICAL SPECIFICATION

Microprocessor based digitally controlled Arc welding machine.

Open Circuit Voltage- 75 V.

Current Range : 10-400A.

Input KVA @ 100% Duty- 17.8

Current @ 100% Duty – 308 A.

Arc Force, Hot start, VRD facility provided.

VRD Voltage for welder protection - around 12 V

Step less current control is provided.

Fan on Demand facility to make energy efficient cooling.

Pulse arc Facility, “Electrode- Select” selection of electrode sizes is possible from front panel.

Pass word lock, Weldo meter facility provided -

All types of electrodes including 6013/7018/6010/7010/8010/9045 can be welded in all positions.

Remote control

Digital panel Meters Voltage and current separately.

Class of Protection - IP23

Class of Insulation - H

Accessories :

Arc welding Power Source 400A, earthing clamp with 3 mtrs 35 sq. mm copper cable and electrode holder with 5 mtrs 35 sq mm copper cable, cord remote with 8 mtrs cable.



GMAW WELDING MACHINE
MAKE : SI / MODEL : SI-GWM-330



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GMAW WELDING MACHINE
MAKE : SI / MODEL : SI-GWM-330

TECHNICAL SPECIFICATION	
Microprocessor based Digitally controlled Mig Machine – yes	
Input	330A AC, 3 Ph, 50Hz
Input KVA @ 100% duty	11.3
❖ MIG Welding Mode :	
MIG Voltage Range	14-34 V
Peak / Continuous Welding Current	400A / 310A
10 memory features that can be stored on the front panel.	
Arc Force (Inductance) Control.	
Crater Current and crater voltage control parameters that help welder.	
modes available for selection.	
Pass word lock to lock front panel.	
Weldo-meter to know arcing time on cumulative basis.	
Gas test feature to release gas on weld area.	
Remote operation possible.	
Wire Feeder – 215 mm x 550 mm x 290 mm. Weight : 10 Kg	
Wire Feeder Speed - 2.5-20 mtrs/minute.	
Wire Feeder- 2 roll Servo controlled (Pancake).	
Wire Diameter- 0.8 /1.2 /1.6 mm.	
Wire speed in mtrs / min can be preset.	
❖ Arc Welding Mode :	
Open Circuit Voltage- 70V	
Current Range- 10-400A	
Digital panel Meters - Voltage and current separately.	
Arc Force, Hot start, base current selection on front panel.	
Can be connected to an external high frequency unit for Tig welding.	
Class of Protection- IP23	
Class of Insulation- H	
❖ Accessories :	
Mig / Arc welding Power Source 400A, Wire feeder suitable for 0.8 / 1.2 mm wires with 5 mtrs inter connection cables, Mig torch, CO 2 Pre heater, regulator, Flow meter, earthing clamp with 3 mtrs cable.	
This machine can be used in Arc welding also. A selector switch is provided to choose either Mig or MMAW mode on the front control panel.	

**AC/DC GTAW WELDING MACHINE
MAKE : SI / MODEL : SI-ADGW-15**



TECHNICAL SPECIFICATION

❖ Power Sources :	
Input Voltage Tolerance Limit	+ 15% / - 15%,
Current Range TIG Mode	3 - 300 AMPS
Standardized Working Voltage Range TIG	10.1 - 22 Volt
Power Factor	0.97
Open Circuit Voltage	80 Volt
Duty Cycle	35% at 300 Amp and 100% at 200 Amp @ 10 Minutes ,40 degree cent
Primary Continuous Power at 100% Duty Cycle	6 KVA
Weight	30 KG
Mark of conformity	S, CE
Degree of Protection	IP 23
❖ Cooling Unit :	
Delivery rate	3.5 L / min
Weight (without coolant)	09 K.G.
Max pump pressure	4 Bar
Coolant	5 L container
Frost protection up to	-10°C.

AC/DC GTAW WELDING MACHINE
MAKE : SI / MODEL : SI-ADGW-15

TECHNICAL SPECIFICATION

❖ **Features :**

AC/DC 300 AMPS MOSFET/IGBT Microprocessor control Inverter and Energy-saving inverter technology Based TIG Welding Machine with standard and necessary Accessories and Suitable for Aluminium, M.S., M.S. Alloys, S.S., Copper ,Bronze etc

Machine will have features to reduced current - Intermediate lowering of the welding current in order to prevent any local overheating of the base material (4-step mode).

Machine is Digital Inverter Technology based on MOSFET / IGBT with transistor module switching frequency up to:70Khz

Machine have Automatic Tungsten Electrode Cap shaping and cap overloading function.

Machine is save Up to 100 common jobs and Automatic gas post flow (dep. on welding current).

Change the welding power using the up/ down key (+/-) and LED can be used to light up the welding area.

The torch body turned through 360°for an optimum welding position every time.

Machine are Maximum Decibel Value of Noise (Noise Modulation through waveform adjustment present) for operation at 300 Amp is 80dbA.

Machine have Digital signal processor (DSP) regulates and controls the welding process.

The tacking function available for the TIG DC welding process pulsed welding current is present that makes the weld pool run together better when two parts are being tacked.

Machine will be Electrode overload indicator, Reverse Polarity Ignition (RPI) Facility, Switchover facility between touchdown and HF ignition.

Thermostat controlled by Fan / Over temperature protection and Generator will Compatible.

Welding current range in TIG welding process will start from 3 – 300 AMPS.

Machine are Special 4-Step Mode for Aluminum welding applications.

Machine have Triangular, Sinusoidal, and Rectangular waveform in AC TIG Process.

Machine Operating Mode - (2-step mode / 4-step mode, TAC (programmed tack-welding), AC / DC, Special 4-step mode, TIG-Pulse, Spot welding.

Digital indication of (Run-status, Operating mode, Welding voltage, Welding Amperage (Actual Value), Hold Function, Over temperature, Service Code, Main Voltage Monitoring etc.

❖ **Accessories :**

Power Source 300 AMPS AC/DC, Water Cooling Unit, Welding Torch Water Cooled 4 Meter, Earth Clamp with 4-meter copper cable, 5 meter Input Cable.

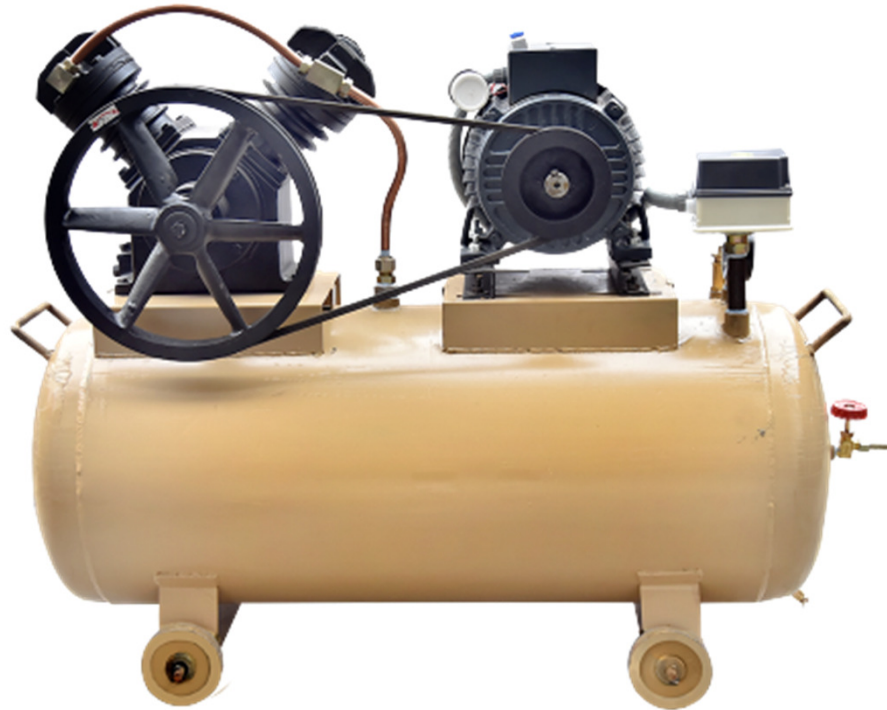
**AIR PLASMA CUTTING
MAKE : SI / MODEL : SI-APC-12**



TECHNICAL SPECIFICATION

Cutting Range Severance	10 mm
Cutting Range Fine Cut	8 mm
Input voltages	240 V, 1-PH, 50 Hz
Input current	5 kW 240 V, 1-PH, 25 A
Output current	20 A
Rated output voltage	80 VDC
Duty cycle @	40° C 35%, 240 V
Open circuit voltage (OCV)	250 VDC
Input power cable length	3 meter
Power supply type Inverter	IGBT / MOFSET
Engine drive	5.5 kW for full 40 A output
At the maximum recommended output of 30 Amp, the cut capacities are: - 10 gauge at 30 ipm 1/4" at 14 ipm 3/8" at 5 ipm 1 1/2"	
❖ Accessories :	
Power supply with hand torch with 15' lead and work clamp with 15' Lead.	
1 nozzle and 1 electrode.	
Manual	

**AIR COMPRESSOR
MAKE : SI / MODEL : SI-ACP-3**



TECHNICAL SPECIFICATION

Tank size	100 ltr, Two stage
Motor	3 HP
Motor rpm	1400
Power source electric	230 v
Pressure	115 psi/8 bar, Belt driven"

SPOT WELDING MACHINE
MAKE : SI / MODEL : SI-SWM-50



SPOT WELDING MACHINE
MAKE : SI / MODEL : SI-SWM-50

TECHNICAL SPECIFICATION	
Input voltage	415 V
Phase	two no
Frequency	50 Hz
Nominal max. power	15 KVA
Max. welding power	23 KVA
Installed power	11 KVA
Cross section connection cable	10 mm ²
Fuse	32 A
Secondary voltage	2.6 V
Secondary short circuit current	10.2 KA
Max. welding current	8.2 KA
Electrode force at 600 KPa (6bar)	220 da N
Water consumption at 300 kpa (3bar)	3.2 L/min
FHP Cooling Pump with 10 ltr water Tank.	
64 mm depth pipe type set.	
Long Electrode holder	
Bar holders with 100mm	
❖ Features :	
Squeeze time, Welding current, Pressure contact, Slope time, Welding Time, Pause time, Holding Time, 7 time 7 current feature with single pedal, User friendly panel with touch screen, 7 Multiple schedules can be set, User can be programmed the panel, Weld spot counter for spot counting, Job counter for finish job counting, Digital setting of current all 7 current setting.	

PORTABLE GAS CUTTING MACHINE MAKE : SI / MODEL : SI-PGC-1



TECHNICAL SPECIFICATION

Aluminum die cast body with ventilation holes reduces overheating of motor and other electrical parts.

Unbreakable, smooth and precise horizontal and vertical adjustment of torch.

Bevel setting with locking facility means bevel accuracy during long cutting.

Remote mounted gas control knobs make flame adjustment during cutting operation easy.

Nozzle-Mix" technology.

Single lever ON-OFF control for cutting Oxygen makes the stopping and restarting of cutting very easy and saves Oxygen.

Stainless steel heat reflectors (2 nos. with air gap), protect the motor from heat during cutting thus adding to the life of the machine

PEDESTAL GRINDER
MAKE : SI / MODEL : SI-PG-300



TECHNICAL SPECIFICATION

Pedestal grinder Fitted with coarse and medium grain size grinding wheels - dia. 300 mm	
Pedestal Stand	C.I. casting of high grade quality.
Stamping and cast rotor	Best quality
Motor winding	Insulated and ensure smooth running.
Motor with DOL starter	HP : 2 Kw : 1.5 Ph : 3 Hz : 50 Volt : 415 RPM : 2800
Wheel center distance	400mm
Center height	940 mm with pedestal
Complete with grinding wheel size - 300 x 50 x 31.75 mm (Original bore 50.8 mm,)(One coarse & one medium)	
Pedestal body made up of heavy duty selected cast iron to ensure maximum strength	
Each machine provided with rotary switch.	
Construction of the machines are made sturdy and robust to offer vibration free performance.	

**BENCH GRINDER
MAKE : SI / MODEL : SI-BG-1**



TECHNICAL SPECIFICATION

Pedestal Stand C.I. casting of high grade quality.	
Use of best quality stamping and cast rotor.	
Motor winding are specially insulated and ensure smooth running.	
Motor	HP : 1.0 Kw : 0.75 Ph : 3 Hz : 50 Volt : 415 RPM : 2800
Wheel Center Distance	400 mm
Center Height	940 mm with pedestal
Complete With Grinding Wheel Size	200mm x 25mm x 19.05 Mm (Original Bore 31.75 Mm)
Starter, Wheel Guard, and Standard Tool Rest Plate & Drill Grinding Attachment (Up to 19 Mm)	
Pedestal body made up of heavy duty selected cast iron to ensure maximum strength.	
Each machine provided with rotary switch.	
Construction of the machines are made sturdy and robust to offer vibration free performance.	

ARC WELDING TABLE
MAKE : SI / MODEL : SI-AWT-16



ARC WELDING TABLE
MAKE : SI / MODEL : SI-AWT-16

TECHNICAL SPECIFICATION	
Size	1200 x 1200 x750 mm (L x W x H).
Welding Table will have Top of high grade 12mm thick M.S. material with 16 mm holes in Grid form of 50 mm x 50 mm and M.S. structure of M.S. angle of 35 x 35 x 5 mm.	
Welding Fume dust / extraction table, cartridge filter, Automatic Filter cleaning system timer controller with control panel.	
Table will be provided with suitable GTAW, GMAW welding Gun Holder & Air Compressor.	
Welding Table is supplied with KIT of Jigs/ Fixtures / Clamps (Clamping and Holding Kit) for welding of different jobs like	
<ul style="list-style-type: none"> • Square Tube Framing • Round Tube Framing • I-Beam Framing • Sheet metal Box welding • LAP joint position • Butt joint position • T-joint position 	
To make above mentioned different type of welding jobs a KIT is supplied to make one JOB at a time. Kit contain various required clamps and accessories set, 20 nos. to make the above JOB.	
All the Jigs / Fixtures / Clamps is insert into any hole on the table for quick and accurate Holding and mounting the job on the table.	
Welding Table have Tool box with locking arrangement.	
Arc welding table with welding partition mounted on TOP of the table having removable frame on three sides of the Table with Partition height of 580 to 620 mm.	
<p>❖ Accessories:</p> <ul style="list-style-type: none"> Cleaning brush Spanner set Allen key set Anti-spatter liquid 1 liter 	

POWER SAW MACHINE
MAKE : SI / MODEL : SI-PSM-100



TECHNICAL SPECIFICATION

Stroke	135 mm
No of Stroke per Minute	100 to 125
Electric Motor	1 H. P, 3 Phases
4RPM	1440
Blade Size	400 x 32 mm, 450 x 32 mm
Capacity of Round bar	250 mm
Capacity of square bar	200 mm
Weight	450 Kg.

Accessories :

Belts, Adjustable Feed control drive, Coolant Pump, Vice Machine, Belt Guard, Motor Pulley, Main motor, Motor Fixing Plate, Starter, Equipment will be supplied with necessary tools, carbon steel hacksaw blade and coolant.

ELECTRODE DRYING OVEN
MAKE : SI / MODEL : SI-EDO-350



TECHNICAL SPECIFICATION

Construction	Double walled
Opening door	Front opening
Control panel	Top mounted for easy access
Size	450 x 450 x 450 mm
Voltage	230 volt ac
Temperature	350 Deg C
Wattage	1000 Watt
Inner made of - Stainless Steel with mirror polish.	
Outer body made of - Mild Steel with powder coated finish.	
Electrically operated with 3 heat switch control with corresponding indicators.	
heating elements - Nichrome / Kanthal made long lasting.	
Fan for air Circulation in heating chamber.	
insulation. - High grade glass wool.	
Shelves – G.I. Made wire mesh	