

**Technical Specification - 3 PHASE 315 AMP INVERTER BASED GAS
TUNGSTEN ARC WELDING MACHINE - AC/DC - 01 no.**

TECHNICAL FEATURES	DIMENSIONS/SPECIFICATION	COMPLIANCE (YES/NO)
Rated input voltage	400 VAC	
Phase	3 Phase	
Frequency	50/60 Hz	
Compatible Power Generator	15 kW	
Rated current range	15 - 315 Amps	
Rated output voltage	10.6 - 22.6 V (GTAW)	
Welding current at 40°C @ 60% duty cycle	315 Amp	
Welding current at 40°C @ 100% duty cycle	250 Amp	
Conformation to International Standards	Machines are manufactured as Standard - IEC60974-1/3/10 A	
Power control method	Inverter controlled dual IGBT blocks	
Hot start and arc force	Adjustable from front panel	
Ingress Protection on 4 wheel trolley	IP 23	
Power Factor	>0.9	
Cooling type	Forced cooling	
Operating temperature	-10°C to 50°C	
Pulse Frequency - (DC TIG Pulse)	0.1 - 20 Hz	
Pulse Frequency - (AC TIG)	0.1 - 20 Hz	
Pre Flow Gas	0 - 10 sec	
Starting Current	5 - 315 Amps	
Upslope Time	0 - 10 sec	
Downslope Time	0 - 10 sec	
Final Current	5 - 315 Amps	

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Post Flow Gas	0 - 60 sec	
AC Wave Forms	Square Wave, Triangular Wave, Sine Wave & Trapezoid	
AC Frequency	20 - 200 Hz	
Background Current	5 - 245 Amps % ON Time 10 - 90%	
Weight	30 Kg	
Type of insulation level	Class H	
Open circuit voltage	75 V	
Design	Main PCB should be protected from ingress of	
dust/splash/mechanical impact Digital Display LED display Over voltage and under voltage protection	Over voltage and under voltage protection available to protect the machine from large variation in input voltage	
Trigger Mode	2T, 4T	
ARC Start	HF Start & Lift Start	
GTAW Modes	DC Standard, DC Pulse, AC Standard, AC Pulse	
Robot Interface	Can be Integrated with Robot with Optional Add-on Modules	
TIG Torch	350 Amps Water Cooled 4 mtr LONG	
Water Cooling Unit - Cooling Power	4 kW	
Tank Capacity	9 Litre	
Trolley	Power Source & Cooler to be assembled on 4 wheel trolley	
Warranty	Minimum 2 year	
ACCESSORIES REQUIRED	YES	
APRON / GLOVES / CHIPPING HAMMER / STEEL BRUSH KIT - 10 Set		
400 A WATER COOLED TIG TORCH 4 METER with ON/OFF SWITCH in BOX OF ACCESSORIES		
EARTH CLAMP WITH CABLE, 70 SQMM,		

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4 METER

ELECTRODE HOLDER WITH CABLE, 50
Square mm, 4 MTERE.

DOUBLE STAGE DOUBLE GUAGE ARGON
REGULATOR WITH FLOWMETER

ARGON CYLINDER DULY FILLED WITH
ARGON GAS, 7M³

70S2 MS TIG FILLER ROD, 2.5 X 1000 mm,
PACK OG 5 KG

4043 AL TIG GILLER ROD, 2.4 X 1000
MM, PACK OF 5 KG

308L SS TIG FILLER ROD, 2.5 X 1000 mm,
Pack of 5 Kg

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