

**POWER SAVING**



**MIG**



**TIG**



**ARC**

The MTR multi-system power source has three modes Mig/Mag, Tig and Arc welding. It is complete for Arc Welding and for tig welding accessories are with it and for Mig welding a RX250/B wire feeder and accessories are with it.

**Complete Unit:**

- MTR Power Source + RX250/B Wire Feeder + Mig Torch + Tig Torch***
- + Welding Holder with lead + Earth Lead + CO<sub>2</sub> Heater Regulator***
- + Argon Regulator + Flow Meter + Hand Screen + Welding Helmet***

**DURABLE DESIGN WITH 3-LEVEL PROTECTION OF IGBT'S**

## Salient Features :

- Digital Keypad For All Settings
- Individual Setting For All Three Modes
- Tig H.f. Ignition
- Separate Pre/post Flow For Mig & Tig
- Gas Check Button
- Power Saving High Efficiency
- Power Factor Near Unity
- Based On Digital Inverter Technology
- Reliable IGBT Powered
- Constant Current During Near And Far Welding
- Compensation Of Supply Volts
- Generator Compatible
- Light Weight, Easy To Carry
- Heavy Duty For Continuous Work
- Wide Supply Voltage Range
- Over-current & Over-heat Protected
- Very Low Stand-by Current

- Inverter technology welding machines gained popularity due to their power saving nature, better power factor, good arc and better constant current / volt features over all previous techniques and it takes less space and light weight.
- The MTR series inverter welding machines are fully digital controlled. The Power control is based on fast switching IGBT<sup>(1)</sup> devices. Suitable for high quality Mig, Tig, and Manual arc welding. The digital display with keypad in front of machine helps better and exact setting of current / volt, Pre flow and Post flow time. Machine have three modes Mig, Tig and Manual arc welding selectable from digital keypad.
- These machines are designed and developed in our company. Except Japans chip and German IGBT and a few components, All other parts Core, Coils, Capacitors, Mcb, Cooling Fins, Electronic boards etc. are manufactured in INDIA.
- The all machines are individually tested for duty cycle and performance. These machines are suitable for work on generator.
- These new technology machines have good output characteristics, Silent, smooth and stable arc from the small current to rated current for welding of various thickness jobs.

### Mig Advantage :

Power source with standard RX250/B wire-feeder.  
Voltage adjustable in 0.1 V steps.

### Tig Advantage :

Pre Flow protects burn at starting point, weld MS, SS and Titanium etc.

### ARC (MMA) Advantage :

Smooth Arc and Welding range up-to 50 feet.

1) IGBT's are advance version of mosfet's

## TECHNICAL SPECIFICATIONS:

<b>POWER SOURCE</b>				
ITEM	UNIT	MTR300	MTR400	MTR500
Supply	Rated Volt	415	415	415
Phase	Ø	3	3	3
Frequency	Hz	50/60	50/60	50/60
Max. Load	KVA	9.5	13	17
Power Factor	Cos Ø	.99	.99	.99
Insulation	Class	F	F	F
No-load Volt	Volt	70	70	75
Control	Type	DIGITAL	DIGITAL	DIGITAL
IP	Class	21	21	21
Weight	Kg	38	40	50
Dimension	L X W X H (cm)	56 X 33 X 53	56 X 33 X 53	60 X 33 X 53
<b>MIG</b>				
Volt	V	15 to 34	15 to 38	15 to 40
Duty Cycle	%	60	60	60
Pre Flow	sec.	0.1 to 0.5	0.1 to 0.5	0.1 to 0.5
Post Flow	sec.	0.1 to 5	0.1 to 5	0.1 to 5
<b>TIG</b>				
Ampere	I	20 to 300	20 to 400	20 to 500
Duty Cycle	%	100	100	100
Pre Flow	sec.	0.1 to 0.5	0.1 to 0.5	0.1 to 0.5
Post Flow	sec.	0.1 to 5	0.1 to 5	0.1 to 5
<b>ARC</b>				
Ampere	I	20 to 300	20 to 400	20 to 500
Duty Cycle	%	60	60	60
<b>WIRE-FEEDER</b>				
Motor	Type	Permanent Magnet	Permanent Magnet	Permanent Magnet
Speed	m/min	2 to 20	2 to 20	2 to 20
Control V	V	24	24	24
Torch Con.	Type	Euro	Euro	Euro

Earth Cable : 2 metre with lugs on both sides

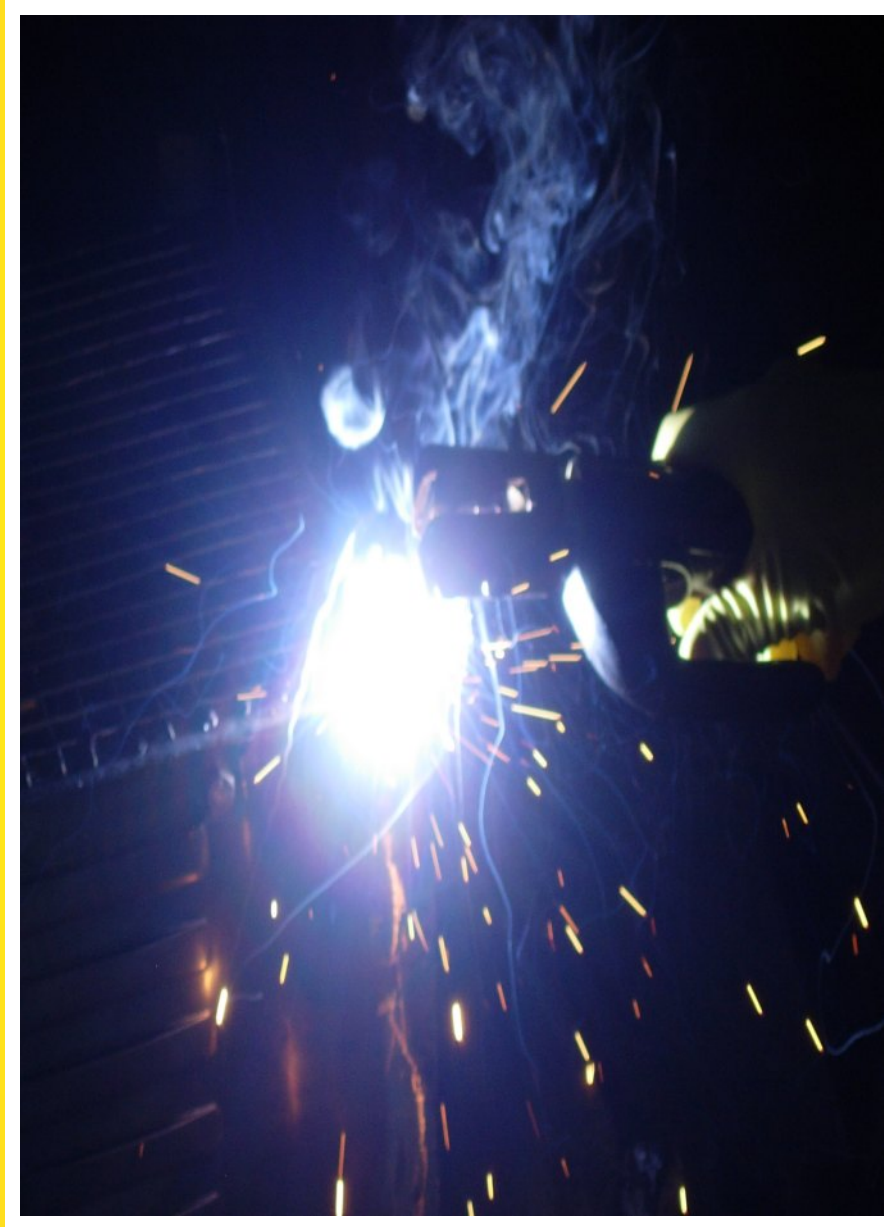
Holder : 5 metre with Holder and lugs on other side.

Mig Torch : 3meter, 300 Ampere with MTR300 and 400 Ampere with MTR400 and MTR500.

Mig Heater Regulator : Sohal assembled with 3 meter wire and plug

Argon Regulator : Brass body Indian.

Note: Gas Cylinder and consumables will not provided.



\* In view of continuous development, design and specifications can be changed without prior notice

**Sohal**<sup>®</sup>

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