

# DIGITALLY CONTROLLED SYNERGIC AC/DC TIG WELDING MACHINE



The SSQ series of synergic TIG welding machines is fully digital power source that can be used for manual/automatic TIG/MMA welding. The machines are built to work under extreme industrial conditions. High speed processors coupled with digital touch screen based menu-driven interface makes operation reliable and easy. Compliance with International standards like IEC-60974-1 & EN50199 coupled with synergic functionalities makes SSQ a versatile, yet economical Invertorised welding machine of today

## FEATURES:

- Automatic gas pre & post-flow time (welding current-dependent)
- Continuous welding current adjustment using welding torch.
- Digital welding process control.
- Earth leakage monitor.
- Gas test function.
- Non – contact ignition (HF).
- Remote control facility.
- Pulsed welding function.
- Crater fill mode.
- Straight / reverse polarity selection.
- AC balance setting (programmable).

## MORE FEATURES:

- Keyboard lock with password.
- Diagnostic messages on LCD display.
- Graphical display of current & voltage.
- Hold function
- Current / Voltage increment / decrement from remote.
- 2T/4T function.
- Stepless current & Voltage control.
- Manual / auto selection.

Light yet robust – User friendly  
 High accuracy & repeatability  
 Keyboard lock  
 LCD graphic display

Flexible – Programmable  
 Superb weld quality  
 Value for money  
 Touch screen

Versatile TIG / MMA  
 Numerous program options  
 Smart diagnostics  
 Maintenance



Weld Mode Selection Screen



Real time graphical display of Weld current/ Voltage

Preflow 12.3 Background Peak  
 Postflow 12.3 123 123  
 Upslope 12.3 Pulse Frequency  
 Dnslope 12.3 123

Pre-flow, post-flow and pulse mode settings

Spot weld on duration 12.3 AC balance  
 Tack weld on duration 12.3 123 %  
 Tack weld off duration 12.3

Spot weld, tack weld, AC balance settings

## Technical Specifications

Input Supply	440V +/-20%, 3 Phase, 50 / 60 Hz
Current @ 60% duty cycle @ 40°C	300
Current @ 100% duty cycle @ 40 °C	220
Current range A	DC AC
TIG	5 – 300 20 – 300
MMAW	5 – 300 20 – 300
OCV	90 V 95 V
Insulation Class	H
Cooling	Forced Air
Protection Class	IP 23 C
Arc Ignition	HF
Torch Cooling System	Water Cooled
AC/DC TIG CONTROL	DC AC
Peak Current Range A	5 – 300 20 – 300
Background time Sec	5 – 300 20 – 300
Peak Time – Sec	0.1 – 2.5 -
Background time sec	0.1 – 2.5 -
Up Slope Time (At Max. Peak current)	1 – 10 sec -
Down Slope Time (At Max. Peak Current) sec	1 – 10 Sec -
Gas pre-flow time	1 – 10 sec 1 – 10 Sec
Gas post-flow time	1 – 10 Sec 1 – 10 sec
Arc Starting Method	By high frequency superimposition
Pulse / Normal Mode Select	Through software from the LCD screen
TIG torch current capacity	300 A
Water Cooling Unit	Built in with radiator, fan, pump and suitable water tank.
High Frequency unit Generation of H. F. with tank Circuit	Built in



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Technical Specifications are subjected to change of continuous up gradation of products for better performance.