

Tech Pro[®]

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INVERTER BASED SYNERGIC MMA (IGBT) WELDING MACHINE



MODEL : TP - MMA - 400i (SYN)



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FACTORY

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COMPLETE SOLUTION FOR WELDING & PLASMA CUTTING

WELDING RESULT



Material : Carbon steel plate

Thickness : 6.0 mm

Electrode Details : Welded with Electrode with diameter of Φ 3.2,

Current : 110 A

Arc force current : 80 A

Hot Start Current : 60 A



Material : Carbon steel plate

Thickness : 10.0 mm

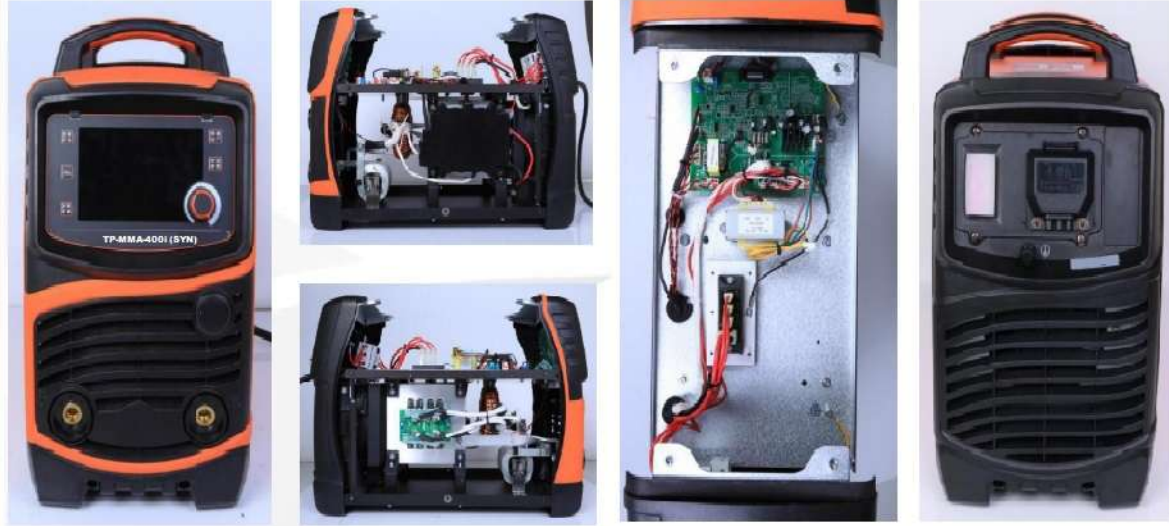
Electrode Details : Welded with Electrode with diameter of Φ 4.0,

Current : 170 A

Air force current : 50 A

Hot start current : 60 A

INTERNAL DESIGN DETAILS



TESTED IN DUSTY ENVIRONMENT AND PERFORMANCE

After testing the machine with nearly 100 kg conductive iron powder in 200 mesh in the test lab for 3 and a half hours, and the machine still works normally.



FUNCTION TABLE

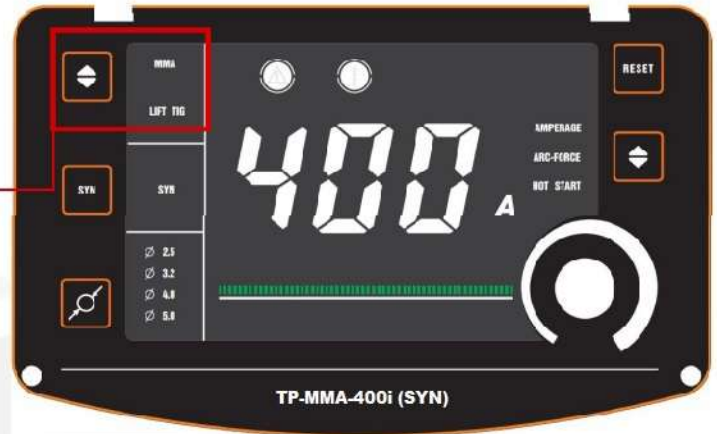


| Function Table | | | |
|-----------------|-------------------|------------------|---------|
| Welding process | Function name | Adjustable range | Remarks |
| Lift TIG | Welding current | 20~400A | |
| MMA | Welding current | 30~400A | |
| | Arc force current | 0~150A | |
| | Hot start current | 0~60A | |

DUAL - PURPOSE MACHINE

Key switching: MMA
Lift TIG

One machine can support two welding processes!



SYNERGIC FUNCTION

By using the "Synergic" function, the machine can automatically match the welding current and arc force current according to the electrode diameter, convenient for beginners to use.

"Synergic" button



ADAPTIVE ARC FORCE (NO DROP IN ENERGY EVEN WITH 100 MTRS CABLE)




The machine adopts MCU control and supports high no-load voltage and strong output capacity. By using intelligent algorithm, the arc force can automatically adapt to the long cable of electrode holder.

With the 100 m welding cable there was no Drop in Energy observed. Thus, suitable for welding with long cable.

TECHNICAL SPECIFICATION :-

| Model | | TP-MMA-400i (SYN) |
|---------------------------|-------------------------------|--|
| Type | | Digitally Controlled Synergic MMA Welding Set |
| Input | Input power (V) | AC380V±15% |
| | Rated input power (KVA) | 13.6@TIG 18.8@MMA |
| | Power factor | ≥0.90 |
| Output | Rated no-load voltage (V) | 75 + 85 V |
| | TIG welding current range (A) | 20~400 |
| | MMA welding current range (A) | 30~400 |
| | Arc force current range (A) | 0~150 |
| | Hot start current range (A) | 0~60 |
| Environment | Protection class | IP23 |
| | Cooling mode | Air cooled |
| Rated duty cycle @40°C | | 60% |
| Efficiency | | ≥85% |
| Insulation class | | H |
| Adaptive Arc Force | | Inbuilt. So that there is no drop in energy even with 100 mtrs cable |
| Protection for PCB | | Designed to make to protect the PCB from dust |
| Dimensions L x W x H (mm) | | 610*268*453 |
| Net weight (kg) | | 18.8 |
| Package dimensions (mm) | | 710×310×590 |





Cable length-adaptive arc force
High no-load voltage, strong output capacity

Digitalization
Digital architecture design

Dust Protection for PCB

"Synergic" Function for MMA

Dual-purpose machine
MMA + Liñ TIG