

[AN ISO 9001: 2008 & 14001: 2004 CERTIFIED COMPANY]



DIGITALLY CONTROLLED IGBT INVERTER BASED MULTI-PROCESS
EQUIPMENT FOR MIG / MAG, SYNERGIC MIG & MMA APPLICATION
(WITH PULSE)



- 1. SYNCHRONIZED Program Presetting
- 2. Automatic MEMORY funtion
- 3. Parameters STORAGE
- 4. ARC output ENERGY CONTROL
- 5. Double PULSE

MODEL: TP-MIG-500i (SYN-P)

TECHNOLOGY PROMOTERS (I) PRIVATE LIMITED

CORRESPONDANCE ADDRESS

1826, M.I.E PART B BAHADURGARH HARYANA 124507

PHONE - 9953499007

EMAIL : enquiry@technologypromoters.com WEB : www.technologypromoters.com

COMPLETE SOLUTION FOR WELDING & PLASMA CUTTING





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The TECHPRO MIG 500P is a high quality digital MIG/MAG power source. It provides low spatter consistent welding with minimal rework on a wide range of materials. The Jasic MIG 500P provides multi process pulsed MIG, synergic MIG, TIG and MMA options for a wide range of applications.

KEY FEATURES

- · IGBT multi process inverter
- · Pulsed MIG, MIG/MAG, Lift TIG and DC MMA
- Double Pulse
- · Synergic or standard operating modes
- · DSP digital technology for optimum welding performance
- Smart fan and water control
- Job storage system
- 4 roll wire feed unit
- Suitable for 0.8, 1.0, 1.2 and 1.6mm welding wire
- · Easy parameter settings for the operator
- · Synergic curves for common materials & wire diameters
- Self diagnostic system
- · Encoder feedback control of wire feed system
- Power & status LED's
- · Inverter trolley takes full size gas bottle
- · AVR generator friendly

OPTIONAL

MMA Leads



TECHNICAL SPECIFICATION:

DESCRIPTION	PARAMETER
Input Power	415 V +/- 10%, 3P, 50/60 Hz
Rated Input Capacity (KVA)	26.7
Rated No-Load Voltage (V)	86
Current Range (A)	20 - 500
Efficiency (%)	92
Power Factor	0.90
Protection / Insulation Class	IP23 / H
Duty Cycle @ 40°C	500A @ 50%
Wire Speed (m/min)	1.5 - 24
Dimensions (LxWxH mm)	1080 x 510 x 1180
Weight (Kg)	129 Kg (Approx.)

Brief and convenient front panel

500A inverter power source Customized-generators friendly Operation panel Wire feeder; synchronized control Monopulse operation Dipulse operation

Convenient operation

Power input cable with standard plug Ground cable with clamp Welding torch and torch holder

Suitable welding tools

Welding torch consistent with ergonomic design Mobile trolley with gas cylinder on it

Continuous cooling

Air cooling power source Water cooling welding torch

Mobile welding equipment

Mobile trolley frame with gas cylinder holder Steady rubber wheel and self-locking omnidirectional wheel

Continuous feeding

4 gears double-drive wire feeder Euro welding torch connector Wire spool for 300mm wire

High reliability

Adoption of international top-rank components and high power devices

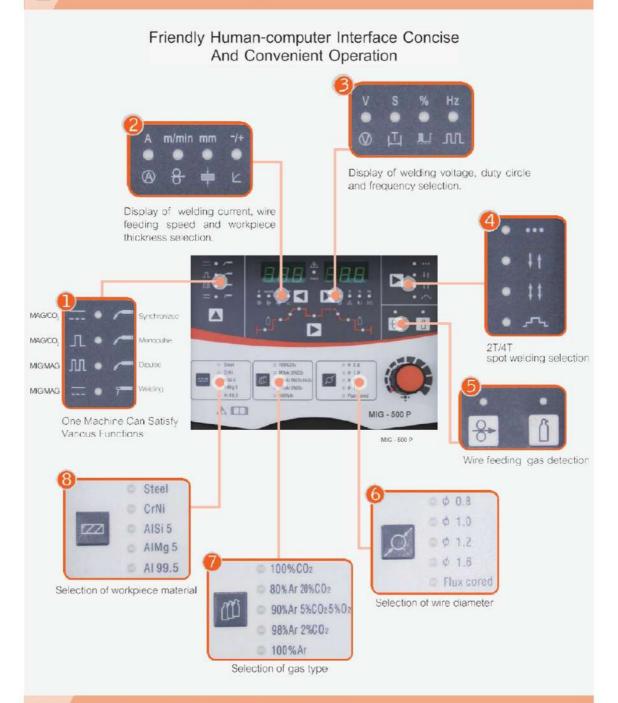
Equipped with over-heat protection, over-current protection, power input under-voltage protection

Advanced control technology

The adoption of international cutting edge DSP digital technology guarantees abundant functions, excellent performance, high accuracy and fine consistency



Precise and Convenient Operation Panel with Abundant Functions



Welding Parameters Memory Function

Welding parameters can be automatically saved in case of power off or accident blackout; it can come back to previous welding parameters when restart the machine.

4 Synchronized Program Presetting

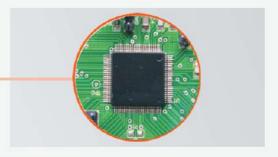


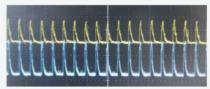
Conciseness, Convenience, Reliability

Built-in expert database can realize automatic fast matching welding parameters based on workpiece material, wire diameter, shielding gas type, etc.

5 High Speed Digital Control Technology







To provide stable ad high quality welding arc.

6 Arc Regulation

Absolute CV control to guarantee stable arc length in the middle of welding.





7 Arc Output Energy Control

Concise and convenient operation; operators can adjust welding procedure through current, wire feeding speed or workpiece thickness selection



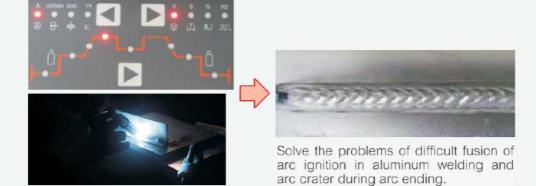
8 Wire Feeder with Speed Feedback





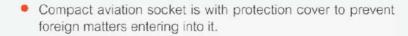
Digital wire feeding control system to guarantee stable aluminum wire feeding.

9 Specially Aluminum Welding Program Design is of High Efficiency, Deep Penetration, Less Porosity and High Quality Welding Bead



10 Communications with Wire Feeder







- Can significantly reduce cable pins which is improving welding reliability.
- 11 Hf Pulse Control Molten Drop Transfer---One Pulse One Drop









Digital control, accurate waveform control to realize one pulse and one drop transfer, so that to acquire stable and no spatter welding processing.

12 Specially Designed Unique Crater Solution

To optimize wire ends' shape so that to ensure next smooth arc ignition

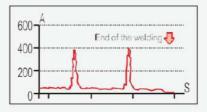


Ø1.19



Ø1.38

600 A 400 End of the welding



Concise, Steady and Practical Customized Design

XXL gas cylinder trolley

Detachable chain lock to fix gas cylinder and prevent dump.



Hand shank for moving the machine Hand shank for convenient moving the machine.



Enhance stability

Big steady rubber wheels can withstand large force.



Omni-directional wheels Useful and sturdy self-locking omni-directional wheels.





OFF



ON

14 Digital Wire Feeder

 Outstanding appearance is the combination of elegance and excellent performance



Precise 4 gear wire feeder



Built-in wire feeder, antidust, anti-water design to prolong machine lifespan.



Front panel





Cooler



Front fuse for convenient replacement

Rear panel





Standard power source: AC 220V

Water inlet and outlet varies with each other by colors, which is corresponding with wire feeder.

Pulse wire Feeding Welding Bead Shape

Features

Concentrated current can effectively suppress pores in weld and decrease welding distortion. Refined grain lowers crack sensibility.

- Welding Bead -

Aluminum alloy welding bead

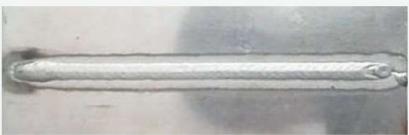
Monopulse aluminum alloy welding bead Welding parameters





Dipulse aluminum alloy welding bead







• Stainless steel welding bead Welding parameters



Carbon steel welding bead Welding parameters



