

KOKO-TAWA MIG-500S

SYNERGIC

Revolutionizing Welding Efficiency with Japanese Technology

Introducing the Electra Koko Tawa Synergic MIG Welding Machine

The **KOKO-TAWA MIG-500S SYNERGIC** is designed for heavy-duty industrial applications, delivering unparalleled performance, precision, and reliability. Featuring cutting-edge Japanese technology, this 500A machine with a 100% duty cycle ensures continuous operation and superior weld quality, making it the ultimate choice for professionals.

Technical Specifications

Specification	Details
Input Voltage	415 V, 3-Phase, 50 Hz
Voltage Range	320–450 V
No-Load Voltage	80 V
MIG Output	500 A / 39 V
MMA Output	500 A / 40 V
Duty Cycle	500 A @ 100%
Current Range	30–500 A
Voltage Range	12–45 V
Wire Compatibility	0.8–1.2 mm (MS, SS, Aluminum)
Protection Class	IP21S
Dimensions (L × W × H)	647 × 296 × 572 mm
Weight	Approx. 50.5 Kg
Please Find Detailed Specifications on Page 2	



Accessories

- TORCH 36KD
- Wire feeder with 4 mtr connection cable
- CO2 Gas Regulator
- CO2 Heater
- Electrode holder with cable
- Earth clamp with cable
- Hose pipe with clamps

Key Features

1. **500A Output:** High-current capacity for thick metal welding.
2. **100% Duty Cycle:** Enables continuous operation without overheating.
3. **Synergic Control:** Automated wire feed and voltage adjustment for optimal performance.
4. **Japanese Technology:** Advanced Koko-Tawa inverter design for superior efficiency.
5. **High-Frequency Arc Start:** Smooth and spatter-free welding starts.

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ELECTRA KOKO TAWA WELD (P) LTD.
NOIDA-INDIA

UNIT: B-15 Sector-5 Noida
Reg. Office: 39, Shradhanand Marg, Delhi-06

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Trusted Since 1996

E-mail: sales@electrawelding.com
Website: www.electrawelding.com



6. **Digital Display:** Real-time monitoring of voltage, current, and error codes.
7. **Robust Construction:** Built to withstand the toughest industrial environments.

Advantages

1. **Increased Productivity:** Operate continuously without interruptions, thanks to the 100% duty cycle.
2. **Improved Weld Quality:** Synergic control ensures precise wire feed and voltage matching.
3. **Energy Efficiency:** Advanced inverter technology reduces power consumption.
4. **Enhanced Safety:** Features thermal overload protection and arc fault detection.
5. **Ease of Use:** Intuitive digital interface with automated settings for effortless operation.
6. **Versatile Compatibility:** Suitable for welding Mild Steel (MS), Stainless Steel (SS), and Aluminum.

Benefits

- **Efficient High-Volume Production:** Boost output with continuous operation.
- **Consistent Weld Quality:** Achieve professional-grade results every time.
- **Reduced Production Costs:** Save on energy and maintenance.
- **Increased Operator Safety:** Work confidently with built-in protections.

Applications

- Heavy fabrication and construction
- Automotive and machinery manufacturing
- Shipbuilding and repair
- General industrial welding



With a commitment to innovation and quality, **Electra Koko Tawa** brings the best of Japanese engineering to the welding industry. The **KOKO-TAWA MIG500S SYNERGIC** is built to exceed expectations, offering unmatched performance, reliability, and efficiency for professionals.

For more information, contact **Electra Koko Tawa Weld Pvt. Ltd.** or visit our website.

Detailed Technical Specifications

Category	Details
Welding Power Source	KOKO-TAWA® Inverter Multi-Function MIG/MAG Welder
Model	KOKO-TAWA MIG-500S SYNERGIC with Memory Function
Input	Rated Voltage & Frequency: 415VAC, 50Hz (Three-phase without middle line)
	Allowable Range: Voltage: 320V–450V; Frequency: 40–60Hz
Output	No-Load Voltage: 80V
	MIG Output: 500A/39V
	MMA Output: 500A/40V
	Duty Cycle: 500A @ 100% (Ambient temperature: 40°C)
	Voltage Change Rate: < ±5% (Cold/hot state & input fluctuation within ±10%)
	Output Feature: CV (Constant Voltage) / CC (Constant Current)
	Voltage Range: 12–45V
	Current Range: 30–500A

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Category	Details
	Arc Ending Voltage: 12–45V
	Arc Ending Current: 30–500A
Main Features	Digital Display: Voltage, current, error codes, and control parameters
	Gas Type: CO ₂ , Ar, Mixed
	Wire Types: Solid/flux-core (MS, SS), aluminum alloys, silicon bronze, electrode
	Wire Diameters: 0.8, 0.9, 1.0, 1.2 mm
	Modes: Synergic, Individual
	Welding Controls: 2-step, 4-step, special 4-step, spot welding
	Other Functions: Gas detection, inching wire feed, arc feature adjustment
	Spot Welding Time: Adjustable (0.1–10s)
	Memory: Store, recall, and lock welding parameters
Protection	Over-voltage, under-voltage, overheat, over-current protection
Environmental	Operation Temp: -10°C–40°C; Reduced capacity up to 50°C
	Humidity: Up to 75% RH @ 40°C, 95% RH @ 20°C (no condensation)
	Storage Temp: -40°C–70°C
	Vibration: < 200Hz, < 1.0 m/s ²
Structure	Protection Degree: IP21S
	Cooling Method: Forced air cooling
	Insulation Class: H
	Dimensions (L × W × H): 647 × 296 × 572 mm
	Weight: Approx. 50.5 Kg

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