



**NTC**<sup>TM</sup>  
NIRMAL TRADING CORPORATION

COMPLETE WELDING SOLUTIONS  
**YOUR ONE  
STOP-SHOP FOR  
INNOVATIVE WELDING  
AND ROBOTICS SOLUTIONS.**

**DELTA DOUBLE PULSE  
MIG 500**

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## DELTA DOUBLE PULSE MIG 500

Advanced Synergic + Pulse MIG Welding System

### Product Overview

**DELTA DOUBLE PULSE MIG 500** is a high-performance industrial MIG welding system engineered for heavy-duty fabrication and structural applications. Designed with advanced Synergic Control and Pulse MIG Technology, this machine delivers superior arc stability, precise penetration control, reduced spatter, and enhanced productivity. It is ideally suited for medium to heavy industrial environments where reliability, consistency, and efficiency are critical.

### KEY FEATURES

- Advanced Synergic Digital Control
- Integrated Pulse MIG Technology
- 500 AMP Industrial Output Capacity
- High Efficiency Inverter Technology
- Stable Arc Performance
- Low Spatter Operation
- Forced Air Cooling System
- Overheat & Undervoltage Protection
- Industrial-Grade Build Quality

### Electrical Parameters

- Input Voltage: 3 Phase, 415V  $\pm$  10%
- Frequency: 50/60 Hz
- Rated Input Capacity: 25–30 kVA
- Power Factor:  $\geq$  0.92
- Efficiency:  $\geq$  90%

### Output Parameters

- Rated Output Current: 500 AMP
- Output Current Range: 50 – 500 AMP
- Output Voltage Range: 15 – 50 V
- No-Load Voltage: 75 – 85 V
- Duty Cycle: 60% @ 500A

### Wire & Process Capability

- Welding Process: CO<sub>2</sub> / MIG / MAG / Pulse MIG
- Wire Diameter Compatibility: 1.0 / 1.2 / 1.6 mm
- Wire Feed Speed: 1 – 24 m/min

### Protection & Cooling

- Cooling Method: Forced Air Cooling
- Insulation Class: F
- Protection Class: IP21S
- Thermal Overload Protection: Yes
- Undervoltage Protection: Yes

### SYNERGIC TECHNOLOGY – PERFORMANCE ADVANTAGES

Synergic control automatically synchronizes voltage and current with wire feed speed, ensuring optimal welding parameters with minimal manual intervention. Benefits:

- Faster machine setup
- Reduced operator error
- Consistent arc performance
- Uniform weld bead profile
- Reduced spatter and post-weld cleaning
- Lower training dependency



This results in increased efficiency and repeatable welding quality across operators.  
**PULSE MIG TECHNOLOGY – ADVANCED CONTROL**  
Pulse welding alternates between high peak current and low background current to achieve controlled metal transfer.

### Key Advantages:

1. Lower Heat Input  
Minimizes distortion and prevents burn-through on thin materials.
2. Superior Penetration Control  
Provides deep yet controlled fusion for structural reliability.
3. Extremely Low Spatter  
Reduces grinding and finishing time.
4. Ideal for Stainless Steel & Aluminium  
Ensures clean, controlled droplet transfer.
5. Enhanced Weld Appearance  
Produces smooth, uniform, export-quality weld beads.
6. Improved Energy Efficiency  
Optimized arc characteristics reduce overall power consumption

### INDUSTRIAL APPLICATIONS

- Heavy Structural Fabrication
- Bridge Construction
- Construction Equipment Manufacturing
- Automotive Chassis Fabrication
- Railway Components
- Pressure Vessels
- Stainless Steel Fabrication
- Earthmoving Machinery

### DELTA DOUBLE PULSE MIG 500

- 500 AMP Industrial Output
- Synergic + Pulse in One System
- High Energy Efficiency
- Industrial Reliability
- Reduced Rework & Operating Cost
- Designed for Continuous Production Environments