

500-CLASS ECONOMY DOUBLE-PULSE MIG/MAG

MIG-500E

Economy 500-class double-pulse MIG/MAG with air-cooled and water-cooled external-feeder options.

MIG-500E gives distributors a lower-cost 500A-class double-pulse route below the standard MIG-500 and LCD MIG-500X lines, with external-feeder reach and an air / water cooling choice for larger 3-phase workshops.

COOLING CHOICE
Air / Water
 Economy external-feeder route with air-cooled and water-cooled package options.



OUTPUT CLASS
500 A
 economy 500-class platform

INPUT POWER
3PH AC380V
 three-phase workshop input

FEEDER FORMAT
External
 separate wire-feeder layout

COOLING CHOICE
Air / water
 MIG-500E or MIG-500EW

BEST FIT
 Distributors and workshops needing a lower-cost 500A double-pulse MIG/MAG offer below standard and LCD product tiers.

CORE REASON TO SELECT
 Economy double-pulse process coverage, 3-phase 380V input, external wire-feeder layout, and an air / water cooling choice.

BUYER SHORTCUT
 Choose MIG-500E for air-cooled external-feeder work; choose MIG-500EW when water-cooled torch support is part of the station plan.

SELECTION SHORTCUT

BUYER NEED	ROUTE	REASON
Need economy 500A air-cooled work	Use MIG-500E	Air-cooled external-feeder economy pulse option.
Need economy 500A water-cooled work	Use MIG-500EW	Adds water-cooled torch support to the same economy product tier.
Need standard no-LCD 500A platform	Move to MIG-500 / MIG-500W	Standard double-pulse route above the economy page.
Need LCD setup workflow	Move to MIG-500X / MIG-500XW	LCD double-pulse route with guided interface.
Need non-pulse CO2 MIG	Move to MIG-500 NBC	Dedicated NBC CO2 MIG/MAG route.

APPLICATION SCOPE

Economy tier
 Use this page when price-positioned 500A double-pulse capability matters more than LCD workflow.

Cooling choice
 MIG-500E is the air-cooled economy route; MIG-500EW adds water-cooled torch support.

Application scope
 For LCD, standard, NBC CO2-only, or automation-cell demand, select the matching DEYUN platform.

BUYER DECISION 02

COOLING / FEEDER CHOICE



ECONOMY AIR-COOLED OPTION

MIG-500E

FEEDER FORMAT

External wire feeder

DIMENSIONS

500-class system package

WEIGHT

By selected package

Best when the buyer wants economy double-pulse capability in a 500A air-cooled external-feeder station.



ECONOMY WATER-COOLED OPTION

MIG-500EW

FEEDER FORMAT

External wire feeder + water-cooled package

DIMENSIONS

500-class water-cooled system package

WEIGHT

By selected package

Best when the buyer wants the same economy 500A process route with water-cooled torch support.

DIMENSIONS / PACKAGE REFERENCE

ITEM	MACHINE DIMENSIONS	PACKAGE DIMENSIONS	WEIGHT
MIG-500E air-cooled system	500-class external-feeder system	Package by order	By selected package
MIG-500EW water-cooled system	500-class water-cooled system	Package by order	By selected package
External wire feeder	Included in selected system	Package by order	Included with system

PRODUCT POINTS

- Economy no-LCD platform
Lower-cost 500A double-pulse route below standard and X-series LCD models.
- Compact digital panel
No-LCD workflow with SYN adjustment for economy pulse users.
- Single and double pulse
Pulse paths for aluminum, stainless, and carbon-steel application discussions.
- External feeder layout
Separate wire feeder supports station reach and flexible workpiece positioning.
- 2T / 4T trigger modes
Common trigger workflows for MIG/MAG operation.
- Thermal protection
Overload protection supports practical workshop reliability.

COOLING / WORKSTATION DECISION

DECISION POINT	MIG-500E	MIG-500EW
Cooling route	Air-cooled setup for economy 500A pulse MIG/MAG work.	Water-cooled setup for torch-cooling needs.
System layout	Machine body plus external wire feeder.	Water-cooled system package plus external wire feeder.
Station planning	For larger workshops needing economy 500A reach with simpler cooling.	For longer-duty stations where water-cooled torch support is required.
Shared capability	Same economy 500-class double-pulse MIG/MAG route.	Same economy 500-class double-pulse MIG/MAG route.

PROCESS / MATERIAL FIT

PROCESS CAPABILITY

PROCESS / MODE	CUSTOMER MEANING
MIG/MAG	General gas-shielded fabrication, maintenance, and repair work.
Ordinary gas-shielded welding	Baseline economy MIG/MAG path for carbon-steel workshop use.
High-speed single pulse	Pulse route for production-oriented economy setup.
High-speed double pulse	Core economy double-pulse route for aluminum, stainless, and carbon-steel demos.
MMA / stick welding	Secondary maintenance and repair process.
Spot welding	Timed welding function for repeat spot work.

WHERE IT BELONGS

- Good-fit buyer

Distributor, repair shop, or fabrication workshop needing an economy 500A pulse MIG/MAG offer.
- Product ladder role

Economy tier below MIG-500 and below the LCD-guided MIG-500X platform.
- Cooling decision

Air-cooled for general economy work; water-cooled when torch cooling is part of the buyer's requirement.
- Not the right fit

Single-phase sites, LCD workflow demand, NBC CO2-only work, or smaller 280A / 350A workshops.



Economy panel: material, wire diameter, welding method, set, operation mode, spot timing, memory, and adjustment controls.

PANEL WORKFLOW

- 01Material
- 02Wire diameter
- 03Welding method
- 04Operation mode
- 05Spot timing
- 06Synergic adjustment

MATERIAL / WIRE / GAS REFERENCE

MATERIAL PATH	WIRE / ALLOY	DIAMETER	GAS	USE NOTE
Carbon steel	Solid wire	0.8 / 1.0 / 1.2 / 1.6 mm	CO2 or mixed gas by setup	General MIG/MAG and pulse work
Stainless steel	Stainless wire	0.8 / 1.0 / 1.2 / 1.6 mm	Mixed gas by setup	Stainless pulse setup
Aluminum	Aluminum wire	0.8 / 1.0 / 1.2 / 1.6 mm	Argon route by setup	Double-pulse aluminum setup
High carbon steel	Solid wire	0.8 / 1.0 / 1.2 / 1.6 mm	Gas-shielded setup	Economy fabrication path
Thin-sheet work	Match wire to material	Use smaller wire where appropriate	Gas by material	Route exact limits through DEYUN sales



SPECS / PACKAGE

RATED SPECIFICATION TABLE

PARAMETER	SPECIFICATION
Product type	Economy 500-class double-pulse MIG/MAG welding platform
Models	MIG-500E / MIG-500EW
Feeder format	External wire feeder
Cooling formats	Air-cooled / water-cooled
Display class	No-LCD economy panel
Input power	3PH AC380V
Rated input power	24.4 kVA
Rated input current	37 A
Output current range	50-500 A
Rated duty cycle	60%
Power factor	0.93
Efficiency	85%
Protection class	IP21
Insulation class	F
Wire diameter	0.8 / 1.0 / 1.2 / 1.6 mm
Gas flow rate	15-20 L/min
Welding methods	MIG/MAG, ordinary gas-shielded welding, high-speed single pulse, high-speed double pulse, MMA/stick
Operation modes	2T, 4T, special trigger mode, spot welding

SITE REQUIREMENTS

Power class	380V three-phase workshop supply
Rated input power	24.4 kVA
Rated input current	37 A
Panel class	No-LCD economy control panel
Environment	Indoor, dry, ventilated workshop station

Order note

Accessory contents, plug type, certificate package, and market documents can vary by destination and order package.

OUTPUT COMPARISON

500 A class

500A economy tier sits above MIG-350E and below standard or LCD 500A platforms.

INCLUDED / OPTIONAL ITEMS

ITEM	STATUS	DETAIL
Welding torch	Included	Standard MIG package item; torch setup should match the selected cooling route.
Earth wire / earth clamp	Included	Standard MIG package item for workpiece return connection.
Wire liner	Included	Match liner to wire material and diameter.
Wire feed roll	Included	Match groove type to wire material and diameter.
Gas meter / air meter	Paid optional	Match regulator and gas setup to the order destination.
External wire feeder	Included	Separate-feeder layout for both MIG-500E and MIG-500EW.
Water-cooled package	MIG-500EW	Use this option when water-cooled torch support is required.
Shielding gas and welding wire	External consumables	Material-specific gas and wire are required for MIG/MAG work.

ORDER NOTES

Voltage setup	Listed input is 3PH AC380V. Other input options depend on order configuration.
Model selection	Use MIG-500E for air-cooled external-feeder work; use MIG-500EW for water-cooled torch support.
Panel expectation	This is an economy no-LCD platform; route LCD workflow demand to MIG-500X.
Cooling package	Select the water-cooled option when torch cooling is part of the station requirement.
Gas setup	Gas meter / air meter is paid optional; shielding gas selection depends on material and local gas supply.
Documents	Certificates and market documents are provided according to destination and model scope.