

500-CLASS LCD DOUBLE-PULSE MIG/MAG

# MIG-500X

500A-class LCD double-pulse MIG/MAG for industrial separate-feeder stations.

MIG-500X is the 500A LCD upgrade path for distributors and industrial workshops that need a larger double-pulse MIG/MAG platform, external wire-feeder reach, repeatable program setup, and an air- or water-cooled package choice.

COOLING CHOICE

**Air / water**

MIG-500X for air-cooled 500A work; MIG-500XW for water-cooled torch support.



MIG-500X

LCD AIR-COOLED OPTION



MIG-500XW

LCD WATER-COOLED OPTION

OUTPUT RANGE

**30-500 A**

LCD 500-class output range

INPUT POWER

**AC380V**

+/-10%, 50 Hz, three phase

RATED DUTY CYCLE

**60%**

rated duty-cycle value

COOLING CHOICE

**Air / water**

MIG-500X or MIG-500XW

BEST FIT

Industrial distributors, fabrication workshops, and dealer showrooms needing a flagship 500A LCD pulse MIG/MAG offer.

CORE REASON TO SELECT

500A output class, LCD setup workflow, material / gas menus, pulse / double-pulse modes, and air / water package choice.

BUYER SHORTCUT

Choose MIG-500X for air-cooled 500A work; choose MIG-500XW when water-cooled torch support is part of the station plan.

## SELECTION SHORTCUT

| BUYER NEED                         | ROUTE                        | REASON                                                   |
|------------------------------------|------------------------------|----------------------------------------------------------|
| Need standard no-LCD 500A platform | Use MIG-500 / MIG-500W       | Same output class with a simpler control interface.      |
| Need LCD setup and air cooling     | Use MIG-500X                 | 500A LCD double-pulse system with external wire feeder.  |
| Need LCD setup and water cooling   | Use MIG-500XW                | Water-cooled body connections for the 500A LCD platform. |
| Need lower output class            | Move to MIG-350X / MIG-350XW | LCD double-pulse route for 350A-class demand.            |
| Need non-pulse CO2 MIG             | Move to MIG-500 NBC          | Dedicated NBC CO2 MIG/MAG route.                         |

## APPLICATION SCOPE

### 500A LCD flagship

Use this page when the buyer needs the top LCD double-pulse step in the DEYUN MIG/MAG range.

### Cooling choice

MIG-500X is air-cooled; MIG-500XW adds water-cooled package connections for longer-duty stations.

### Application scope

For economy, no-LCD, NBC CO2-only, or lower-output work, select the matching DEYUN platform.

BUYER DECISION 02

# 500A LCD CHOICE

**LCD AIR-COOLED OPTION**

**MIG-500X**

FEEDER FORMAT  
External wire feeder

DIMENSIONS  
Main unit 970 x 475 x 685 mm; feeder package 750 x 360 x 550 mm

WEIGHT  
59 kg main unit + 22 kg wire feeder

Best when the buyer wants a 500A LCD double-pulse system with air-cooled torch setup and external feeder reach.

**LCD WATER-COOLED OPTION**

**MIG-500XW**

FEEDER FORMAT  
External wire feeder + water-cooled body connections

DIMENSIONS  
Main unit 970 x 475 x 925 mm; feeder package 750 x 360 x 550 mm

WEIGHT  
74 kg main unit + 23 kg wire feeder

Best when the buyer wants the same 500A LCD platform with water-cooled torch support for longer-duty stations.

DIMENSIONS / PACKAGE REFERENCE

| ITEM                  | MACHINE DIMENSIONS | PACKAGE DIMENSIONS   | WEIGHT |
|-----------------------|--------------------|----------------------|--------|
| MIG-500X main unit    | 970 x 475 x 685 mm | 1030 x 550 x 850 mm  | 59 kg  |
| MIG-500X wire feeder  | Body size by order | 750 x 360 x 550 mm   | 22 kg  |
| MIG-500XW main unit   | 970 x 475 x 925 mm | 1030 x 560 x 1100 mm | 74 kg  |
| MIG-500XW wire feeder | Body size by order | 750 x 360 x 550 mm   | 23 kg  |

PRODUCT POINTS

- LCD digital interface**  
Shows operation, welding method, material / gas, memory, adjustment, gas check, and inching controls.
- Material / gas workflow**  
Guides wire material, wire diameter, and shielding gas setup from the panel.
- 10 program memories**  
Stores and recalls repeat welding programs for workshop repeatability.
- Arc-length correction**  
Lets operators tune the arc without rebuilding the full setup.
- Inductance / arc-force control**  
Supports arc softness and stiffness adjustment for different weld behavior.
- Water-cooled option**  
MIG-500XW adds water tank switch and water inlet / outlet / return connections.

COOLING / WORKSTATION DECISION

| DECISION POINT    | MIG-500X                                                   | MIG-500XW                                                               |
|-------------------|------------------------------------------------------------|-------------------------------------------------------------------------|
| Cooling route     | Air-cooled setup for standard LCD 500A pulse MIG/MAG work. | Water-cooled setup for longer-duty torch cooling needs.                 |
| System layout     | Main unit plus external wire feeder.                       | Main unit with water-cooled body connections plus external wire feeder. |
| Site planning     | Lower body height and lower main-unit weight.              | Taller main body and heavier main unit for water-cooled setup.          |
| Shared capability | Same 30-500 A LCD double-pulse MIG/MAG process path.       | Same 30-500 A LCD double-pulse MIG/MAG process path.                    |

# PROCESS / MATERIAL FIT

## PROCESS CAPABILITY

| PROCESS / MODE           | CUSTOMER MEANING                                                                            |
|--------------------------|---------------------------------------------------------------------------------------------|
| MIG/MAG                  | Industrial gas-shielded fabrication and production welding.                                 |
| Pulse MIG/MAG            | LCD-guided pulse route for aluminum, stainless steel, carbon steel, and copper setup paths. |
| Double-pulse MIG/MAG     | Appearance-sensitive and aluminum work where heat input and bead profile matter.            |
| MMA / stick welding      | Secondary maintenance and repair process listed for the LCD platform.                       |
| Program-controlled setup | Pre-flow, post-flow, start/end amps, slope, and welding amps can be set from the workflow.  |
| Gas check / inching      | Setup controls support shielding gas and wire feed checks before welding.                   |

## WHERE IT BELONGS

- Good-fit buyer**  
Distributor, dealer demo station, or industrial workshop wanting the 500A LCD double-pulse top step.
- Product ladder role**  
LCD flagship above MIG-500 and above the 350A LCD platform.
- Cooling decision**  
Air-cooled for general 500A work; water-cooled when torch cooling is part of the buyer's requirement.
- Not the right fit**  
Single-phase sites, lightweight portable repair, economy-only positioning, or NBC CO2-only work.



LCD panel: operation mode, welding method, material, process control, save / memory, adjustment, gas check, and wire inching controls.

## PANEL WORKFLOW

- 01 Operation mode
- 02 Welding method
- 03 Material / gas
- 04 Process control
- 05 Save / memory
- 06 Gas check / wire inching

## MATERIAL / WIRE / GAS REFERENCE

| MATERIAL PATH     | WIRE / ALLOY              | DIAMETER                 | GAS             | USE NOTE                      |
|-------------------|---------------------------|--------------------------|-----------------|-------------------------------|
| Pulse MIG/MAG     | Al-Si 4043 / 4047         | 0.8 / 1.0 / 1.2 / 1.6 mm | 99.99% Ar       | Aluminum-silicon setup path   |
| Pulse MIG/MAG     | Al-Mg 5356 / 5183         | 0.8 / 1.0 / 1.2 / 1.6 mm | 99.99% Ar       | Aluminum-magnesium setup path |
| Pulse MIG/MAG     | Pure aluminum 1070 / 1100 | 0.8 / 1.0 / 1.2 / 1.6 mm | 99.99% Ar       | Pure aluminum setup path      |
| Common DC welding | Carbon steel wire         | 0.8 / 1.0 / 1.2 / 1.6 mm | CO2             | General MIG/MAG setup         |
| Pulse MIG/MAG     | Stainless steel wire      | 0.8 / 1.0 / 1.2 / 1.6 mm | 98% Ar + 2% CO2 | Stainless setup path          |
| Pulse MIG/MAG     | Copper wire               | 0.8 / 1.0 / 1.2 / 1.6 mm | 99.99% Ar       | Copper setup path             |

# SPECS / PACKAGE

## RATED SPECIFICATION TABLE

| PARAMETER            | SPECIFICATION                                                       |
|----------------------|---------------------------------------------------------------------|
| Product type         | 500-class LCD double-pulse MIG/MAG welding platform                 |
| Models               | MIG-500X / MIG-500XW                                                |
| Feeder format        | External wire feeder                                                |
| Cooling formats      | Air-cooled / water-cooled                                           |
| Input power          | AC380V +/-10%, 50 Hz, 3PH                                           |
| Rated input power    | 24.4 kVA                                                            |
| Rated input current  | 37 A                                                                |
| Output current range | 30-500 A                                                            |
| Rated duty cycle     | 60%                                                                 |
| Open-circuit voltage | 65 V                                                                |
| 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, pulse MIG/MAG, double-pulse MIG/MAG, MMA/stick             |
| Operation modes      | 2T, 4T, special trigger mode, spot welding, continuous spot welding |
| Program memory       | 10 welding programs                                                 |

## SITE REQUIREMENTS

|                       |                                          |
|-----------------------|------------------------------------------|
| Power class           | 380V three-phase workshop supply         |
| Rated input power     | 24.4 kVA                                 |
| Rated input current   | 37 A                                     |
| Generator capacity    | 30 kVA recommended minimum               |
| Input protection      | 37 A fuse / 63 A breaker                 |
| Ventilation clearance | 20 cm front/back and 10 cm left/right    |
| 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

## 30-500 A

The 500A LCD class is the flagship double-pulse MIG/MAG step above standard 500A and 350A LCD platforms.

## INCLUDED / OPTIONAL ITEMS

| ITEM                           | STATUS                 | DETAIL                                                                              |
|--------------------------------|------------------------|-------------------------------------------------------------------------------------|
| Welding torch                  | Included               | Standard MIG package item; torch setup differs by air-cooled or water-cooled order. |
| 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.                                    |
| Contact tips / M8 wrench       | Package-specific       | Setup items can be supplied according to order package.                             |
| Gas meter / air meter          | Paid optional          | Match regulator and gas setup to the order destination.                             |
| Water pipes                    | MIG-500XW package item | Used with water-cooled torch setup when specified in the order package.             |
| 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 AC380V +/-10%, 50 Hz, 3PH. Other input options depend on order configuration.             |
| Model selection | Use MIG-500X for air-cooled LCD setup; use MIG-500XW for water-cooled LCD setup.                          |
| Cooling package | Water-cooled torch setup, water pipes, and connection details should match the order package.             |
| Gas setup       | Gas meter / air meter is paid optional; shielding gas selection depends on material and local gas supply. |
| Package details | Plug type, cable length, package dimensions, and accessory quantities can vary by order.                  |
| Documents       | Certificates and market documents are provided according to destination and model scope.                  |