

PRODUCT OVERVIEW / QUICK SPECS

MIG NBC 350/500

Industrial non-pulse CO₂ / MAG ladder with separated wire feeder.

A combined spec sheet for the NBC external-feeder line, separating basic CO₂ / MAG production work from DEYUN pulse, LCD, and low-spatter MIG families.



OUTPUT CLASS 350/500A EXTERNAL-FEEDER NBC LADDER	PROCESS CO₂ / MAG NON-PULSE PRODUCTION WELDING	INPUT POWER 3PH 380V STANDARD WORKSHOP INPUT	FEEDER Separate WIRE FEEDER SYSTEM PACKAGE
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QUICK SPECS

FIELD	SPECIFICATION
Product type	External-feeder non-pulse CO ₂ / MAG inverter welding system
models	MIG-350 NBC and MIG-500 NBC
Positioning	Basic industrial NBC page below pulse, LCD, and low-spatter MIG families
Processes	CO ₂ / MAG, mixed-gas MAG, cored-wire setup, MMA, 2T / 4T, spot, gas check, wire check
Output current	350-class: 60-350 A; 500-class: 80-500 A
Duty cycle	60% for the 350-class and 500-class routes
Wire feed speed	1.5-15 m/min
Wire diameter	350-class: 0.8 / 1.0 / 1.2 mm; 500-class: 1.0 / 1.2 / 1.6 mm

PRODUCT HIGHLIGHTS

FEATURE	BENEFIT
Clear NBC ladder	Lets buyers choose 350A or 500A non-pulse CO ₂ / MAG without entering the double-pulse MIG selector
Production package	Separate feeder, high-current output, and simple operation make the page suitable for industrial fabrication comparisons
Clean product ladder	Keeps 350A and 500A NBC choices visible without mixing them with pulse or LCD platforms

TYPICAL APPLICATIONS

Carbon-steel fabrication, repair, and maintenance using CO₂ or mixed-gas MAG.

Workshops that need separated wire feeder access rather than compact built-in feeder bodies.

Distributor comparisons against 280A compact NBC and higher-spec pulse / LCD MIG families.

500A capacity route when the buyer needs more output headroom than the 350A NBC machine.

TECHNICAL SECTION

MODEL SELECTOR / DIMENSIONS

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350-CLASS ROUTE

MIG-350 NBC



FIELD	VALUE
Output	60-350 A
Duty	60%
Input	3PH AC380V
Body	690 x 330 x 629 mm

500-CLASS ROUTE

MIG-500 NBC



FIELD	VALUE
Output	80-500 A
Duty	60%
Input	3PH AC380V
Body	N / NW body packages

MODEL SELECTOR

MODEL	COOLING	FEEDER / PACKAGE	MACHINE DIMENSIONS	NET WEIGHT
MIG-350 NBC	Air-cooled	External wire feeder	690 x 330 x 629 mm main unit	50 kg
MIG-500 NBC	Air-cooled / option boundary by model	External wire feeder	MIG-500N 545 x 300 x 785 mm; MIG-500NW 970 x 475 x 908 mm	36 kg N; 68 kg NW

SELECTOR DECISION

APPLICATION NEED	RECOMMENDED ROUTE	SELECTION
Need compact 280A NBC	MIG-280 NBC	Route to compact built-in-feeder page
Need external-feeder 350A non-pulse	MIG-350 NBC	Use this family page
Need external-feeder 500A non-pulse	MIG-500 NBC	Use this family page
Need double-pulse aluminum MIG	MIG-350 / MIG-500 pulse families	Route away from NBC
Need low-spatter carbon / stainless workflow	Titians low-spatter family	Route to low-spatter page

TECHNICAL SECTION

PROCESS CAPABILITY / BUYER FIT

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The customer story stays narrow: non-pulse CO2 / MAG production welding with an external feeder, plus secondary MMA and setup modes where documented.

PROCESS CAPABILITY

PROCESS / MODE	APPLICATION MEANING
CO2 MIG/MAG	Core NBC gas-shielded process for carbon-steel welding
Mixed-gas MAG	Mixed-gas setup path for broader MAG welding discussions
Flux-cored / cored wire	Cored-wire setup is handled by wire type and order package
MMA	Listed as secondary manual welding path
2T / 4T	Torch-trigger operation for short or continuous welding
Spot welding	Timed short weld mode for repeated tack or spot work
Gas check / wire check	Setup support before welding

TECHNOLOGY / CONTROL FEATURES

FEATURE	CUSTOMER BENEFIT
IGBT inverter platform	Inverter CO2 / MIG / MAG semiautomatic welding machine
Separate wire feeder	Positions the family for industrial fabrication and larger work envelopes
Electronic reactor / inductance	Supports arc stability, reduced spatter, and bead-shape adjustment
PWM waveform control	documented output-control method
FTT / arc-ending circuit	Supports smoother arc stop behavior and reduced end-ball tendency.
Grid fluctuation tolerance	Designed for operation under grid fluctuation up to +15%.
Thermal overload protection	Protection indicators and overload language appear in manuals

RECOMMENDED USE

External-feeder workshops Fits buyers who need feeder reach and a larger production setup	Carbon-steel fabrication Best-fit material scope for the NBC CO2 / MAG platform.	Current-class laddering 350A and 500A can be compared inside one simple NBC sheet	Not a pulse page Avoid aluminum double-pulse or LCD program claims on this family
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WIRE / GAS / MATERIAL BOUNDARIES

Material, wire, and gas rows define the customer process scope for the NBC external-feeder family.

MATERIAL / WIRE / GAS MATRIX

PROCESS	MATERIAL / SCOPE	WIRE / ELECTRODE	GAS / SETUP	APPLICATION
CO2 MIG/MAG	Carbon steel / low-carbon steel	350: 0.8 / 1.0 / 1.2 mm; 500: 1.0 / 1.2 / 1.6 mm	CO2 shielding gas	Safest material scope
Mixed-gas MAG	Carbon steel and application-specific stainless discussions	Solid wire by model	Ar mix with CO2	Set gas and wire by application
Flux-cored / cored	Gasless or cored-wire use	Match wire to model	By wire type	Order-specific application only

TECHNICAL SECTION

TECHNICAL SPECIFICATIONS / SITE DATA

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The table keeps the main 350A and 500A NBC comparison fields together for product selection.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
model pages	MIG-350 NBC; MIG-500 NBC
Input power	3PH AC380V standard input; other voltage packages by order
Rated input power	350: 14 kVA; 500: 25 kVA
Rated input current	350: 18.8 A; 500: 38 A
Output current range	350: 60-350 A; 500: 80-500 A
Output voltage	350: 17-36 V; 500: 17-44 V
Open circuit voltage	350: 65 V; 500: 70 V
Duty cycle	350: 60%; 500: 60%
100% load current	350: 270 A; 500: 387 A
Wire feed speed	1.5-15 m/min
Wire diameter	350: 0.8 / 1.0 / 1.2 mm; 500: 1.0 / 1.2 / 1.6 mm
Gas flow	350: 25 L/min table vs 15-20 L/min guidance; 500: 35 L/min table vs 15-20 L/min guidance
Insulation class	F
Protection class	IP21 / IP21S
Dimensions / weight	See selector table; 500N / 500NW option boundary by model

POWER AND SITE REQUIREMENTS

FIELD	REQUIREMENT
Power supply	Listed voltage is 3PH AC380V; other input voltage options depend on order package
Gas cylinder	External CO2 or mixed gas supply required for MIG/MAG work
Breaker reference	350-class: 35 A; 500-class: 50 A
Cooling	Air / fan cooling; water-cooled 500-class package by order
Environment	Standard dry workshop deployment; avoid rain, dust, and corrosive gas

Input voltage. Listed input voltage values are the standard order setup. Other input voltage options depend on destination and order package.

TECHNICAL SECTION

PANEL CONTROLS / ACCESSORIES

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The NBC control story should emphasize simple process selection, current / voltage setup, inductance or electronic reactor adjustment, gas / wire checks, and 2T / 4T / spot operation.

OPERATOR CONTROL AREAS

FUNCTION	DESCRIPTION
Welding method selection	CO ₂ / MAG and MMA paths
Current / voltage displays	Digital display setup for welding current and voltage
Inductance / electronic reactor	Arc feel, spatter behavior, and bead-shape adjustment
2T / 4T	Short-cycle and continuous trigger operation
Spot welding	Timed short-weld mode for repeated work
Gas check	Gas setup and purge support
Wire check	Wire feeding setup path
Protection indicators	Overload / warning indicators appear in manual context

OPERATION MODES

MODE	DESCRIPTION
2T	Press and hold torch switch to weld; release to stop
4T	Press and release to start; press and release again to stop
Spot	Timed short weld operation
MMA	Secondary manual welding path

INCLUDED / OPTIONAL ACCESSORIES

ITEM	STATUS	DETAILS
External wire feeder	Included system component	Feeder dimensions and exact feeder model are available on request
Welding torch	Standard included	Standard MIG package item
Earth wire / earth clamp	Standard included	Work return connection
Wire liner	Standard included	Match liner to wire type
Wire feed roll	Standard included	Match roll to wire type
Gas meter / air meter	Paid optional	Gas-flow accessory
CO₂ gas cylinder	Customer / site supply	External gas supply required