

OVERVIEW / KEY SPECS

MIG-280 NBC

280-Class Non-Pulse CO2 MIG/MAG Welder

A product specification reference for MIG-280 NBC, including key processes, technical data, controls, and buyer selection details.



OUTPUT CLASS 280A MANUAL RANGE 50-280 A	PROCESS CO2 / MAG NON-PULSE MIG/MAG PLATFORM	INPUT POWER 380V THREE-PHASE WORKSHOP INPUT	PACKAGE Compact BUILT-IN WIRE FEEDER
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QUICK SPECS

FIELD	SPECIFICATION
Product type	280-class non-pulse CO2 / MAG gas-shielded MIG welder with compact built-in wire feeder
model	MIG-280 NBC single SKU
Positioning	Basic non-pulse CO2 / MAG 280A page below double-pulse, LCD, and economy MIG families
Processes	CO2 MIG/MAG, MAG mixed gas, MMA / manual welding, 2T / 4T, gas check, and spot welding
Input power	SKU and product intro say AC380V +/-10%, 3PH, 50 Hz; manual also lists 3-phase 220V / 380V +/-10%
Output current range	50-280 A
Rated duty cycle	60%
Wire diameter	0.8 / 1.0 / 1.2 mm
Wire feed speed	1.5-15 m/min
Gas flow rate	15-20 L/min general setup range

PRODUCT HIGHLIGHTS

FEATURE	BENEFIT
Straight NBC offer	Gives distributors a clear 280A non-pulse CO2 / MAG route separate from double-pulse and LCD machines
Compact shop package	Built-in wire feeder and 33 kg body keep the page focused on repair, maintenance, and light fabrication
Carbon-steel default	Clear 280A CO2 / MAG route for everyday carbon-steel workshop use

MODEL SELECTOR

MODEL SELECTOR

MODEL	COOLING	FEEDER / PACKAGE	MACHINE DIMENSIONS	NET WEIGHT
MIG-280 NBC	Air-cooled	Built-in wire feeder	545 x 305 x 545 mm machine body	33 kg

DIMENSIONS AND WEIGHT

ITEM	MACHINE / PACKAGE DIMENSIONS	WEIGHT	DETAILS
Machine body	545 x 305 x 545 mm	33 kg	Compact NBC body
Wire feeder	Built into compact body	No separate feeder dimension	Single-body NBC system
Package	Package dimensions by order	Package weight by order	Package details depend on market and order package

SELECTOR DECISION

APPLICATION NEED	RECOMMENDED ROUTE	SELECTION
Need simple 280A CO2 / MAG	MIG-280 NBC	Use this page
Need standard double-pulse 280A	MIG-280 / MIG-280 Comp	Route to standard double-pulse page
Need LCD workflow	MIG-280X / MIG-280X Comp	Route to LCD double-pulse page
Need lower-cost double-pulse page	MIG-350E / MIG-500E	Route to an active economy double-pulse page
Need higher-current NBC	MIG-350 NBC or MIG-500 NBC	Route by output class and external-feeder requirement

MIG-280 NBC supports the welding processes and setup paths listed below.

PROCESS CAPABILITY

PROCESS / MODE	APPLICATION MEANING
CO2 MIG/MAG	Core gas-shielded welding path for carbon steel and general workshop fabrication
MAG mixed gas	Manual describes mixed gas with argon containing 5-20% CO2
MMA / manual welding	Secondary welding method for repair and maintenance
Spot welding	Timed spot operation for repeated tack or short weld cycles
2T / 4T	Non-locking and locking torch-trigger operation modes
Gas detection	Gas check / gas detection function for setup before welding

TECHNOLOGY / CONTROL FEATURES

FEATURE	CUSTOMER BENEFIT
IGBT inverter platform	Inverter CO2 / MIG / MAG semiautomatic welding machine
Electronic reactor / inductance control	Helps stabilize welding process, reduce spatter, and improve bead formation
PWM waveform control	Output-control method for welding behavior.
Arc-ending / ball-cutting circuit	Supports smoother arc stop behavior during setup.
Thermal overload protection	Protection indicator supports overload awareness.
Compact control panel	Two digital displays, knob-based parameter control, method and operation-mode selection

RECOMMENDED USE

Distributors separating price tiers Keeps a basic non-pulse 280A page below pulse and LCD MIG offers	Carbon-steel workshops Fits everyday CO2 / MAG welding, repair, maintenance, and repeated tack work	Three-phase job sites Current SKU table positions the model as 3PH / 380V	Not the aluminum-pulse route Do not use this page for double-pulse aluminum or LCD workflow claims
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MATERIALS / WIRE / GAS

Material, wire, and gas choices depend on the workpiece, process, and application target.

MATERIAL / WIRE / GAS MATRIX

PROCESS	MATERIAL / SCOPE	WIRE / ELECTRODE	GAS / SETUP	APPLICATION
CO2 MIG/MAG	Carbon steel / low-carbon steel	0.8 / 1.0 / 1.2 mm	CO2 shielding gas	Safest material scope
MAG mixed gas	Carbon steel and application-specific stainless discussions	0.8 / 1.0 / 1.2 mm	Ar mix with 5-20% CO2	Set gas and wire by application
Flux-cored / gasless	Cored-wire setup	Diameter by selected wire	No external gas for self-shielded wire	Order-specific application only

TECHNICAL SPECIFICATIONS

Key electrical, output, dimensional, and installation values for product selection.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
model page	MIG-280 NBC
Input power	AC380V +/-10%, 3PH, 50 Hz in SKU / product intro; manual also lists 3-phase 220V / 380V +/-10%
Rated input power	9.2 kVA
Rated input current	14 A
Rated duty cycle	60%
Output current range	50-280 A
Open circuit voltage	50 V
Power factor	0.93 / >=0.93
Efficiency	85% / >=85%
Protection class	IP21 / IP21S
Insulation class	F
Wire feed speed	1.5-15 m/min
Wire diameter	0.8 / 1.0 / 1.2 mm
Gas flow rate	15-20 L/min general setup range
Cooling	Air-cooled
Machine dimensions	545 x 305 x 545 mm
Net weight	33 kg

POWER AND SITE REQUIREMENTS

FIELD	REQUIREMENT
Deployment environment	Dry indoor workshop; avoid rain, sun exposure, dust, corrosive gas, and strong airflow
Operating temperature	-10 deg C to 40 deg C
Humidity	<=90%
Clearance	>20 cm from wall and >30 cm from other welding machines
Installation slope	<=15 degrees
Gas cylinder	External CO2 cylinder required for CO2 gas-shielded welding

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

PANEL / ACCESSORIES



Operator controls, operating modes, and accessory details for product evaluation.

OPERATOR CONTROL AREAS

FUNCTION	DESCRIPTION
Welding method selection	Switches MIG and MMA welding paths
Operation mode selection	Selects 2T, 4T, and spot operation
Current / voltage displays	Panel shows current and voltage values for setup / operation
Inductance control	Adjusts inductance value for welding feel and spatter behavior
Spot welding controls	Spot interval and spot welding time controls
Ending arc controls	Ending arc current and ending arc voltage appear in panel label text
Gas detection	Gas check path for setup before welding
Protection indicators	Panel includes warning / protection indicator context

OPERATION MODES

MODE	DESCRIPTION
2T	Press and hold the torch switch to weld; release to stop
4T	Press and release to start welding, then press and release again to stop
Spot	Weld according to preset spot time / spot interval settings
MMA	Manual welding mode listed as secondary process

INCLUDED / OPTIONAL ACCESSORIES

ITEM	STATUS	DETAILS
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 / regulator-flowmeter	Paid optional	Gas-flow accessory
CO2 gas cylinder	Customer / site supply	External gas supply required for CO2 welding
Remote control box / panel controls	Available on request	Remote-control workflow support