

MigMatic® 300/300 DX

MIG Welding
Power Source 

Quick Specs



Industrial Applications

Construction
Trailer fabrication
Excavator bucket repair
Rental fleets
General fabrication

Processes

MIG/MAG (GMAW)
Flux-cored (FCAW)

Input Power 400 V, 3-phase, 50/60 Hz

Rated Output 300 A at 28 VDC, 35% duty cycle

Wire Feed Speed 1.3–26 mpm (51–1,000 ipm)

Net Weight 88 kg (194 lb.)

WELD READY



MigMatic 300 DX

MigMatic 300
Weld Ready package

Industrial MIG systems include:

- Heavy-duty power source
- 3 m (10 ft.) heavy-duty work cable with clamp
- Two 1.0/1.2 mm (.040/.045 in.) dual-groove quick-change drive rolls
- Heavy-duty running gear/bottle rack

Weld Ready packages add:

- 4.6 m (15 ft.) Bernard™ Q3015TE3EEQ MIG gun and cable assembly
- 3 m (10 ft.) gas hose
- Two 1.2 mm (.045 in.) contact tips

Manual mode allows simple adjustment of parameters for welding on a broad range of applications.

Thermal overload protection shuts down the power source output if the main transformer or rectifier overheats.

Industrial dual-gear-driven system features no-tool, quick-change reversible drive rolls (1.0/1.2 mm) and an easy-to-set tension adjustment knob.



Professional wire drive motor withstands even the most demanding applications!

Superior arc control technology provides the operator with state-of-the-art welding performance on a wide variety of materials.

Traditional tapped design (20 steps) and laminated inductor provide a stable, smooth arc for consistent weld quality.

Ergonomic, easy-to-operate controls simplify setup without minimizing features or welding performance.

Digital meter is easy to read and can display voltage, amperage or wire feed speed.

Adjustable run-in and burnback controls



allow the operator to set the optimum arc starts and stops, reducing wire stubbing, arc flaring or wire burning back.

Spot weld timer provides consistent spot welds every time (base models only).

2T/4T latching gun trigger. Allows the operator to weld for extended periods without having to maintain pressure on the gun trigger (DX models only).

Synergic user interface with digital display to simplify setup and offer precise settings for welding a variety of materials (DX models only).



Warranted for three years, parts and labour.



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Specifications (Subject to change without notice.)



Amperage/ Voltage Ranges	Rated Output	IP Rating	Amps Input at Rated Output, 400 V, 50/60 Hz	Max. Open- Circuit Voltage	Wire Feed Speed	Wire Type and Diameter	Dimensions	Net Weight
30–300 A, 15–28 V	300 A at 28 VDC, 35% duty cycle	IP22S	20	43 VDC	1.3–26 mpm (51–1,024 ipm)	Solid steel: 0.6–1.2 mm (.023–.045 in.) Stainless steel: 0.8–1.0 mm (.030–.040 in.) Aluminium: 0.8–1.2 mm (.030–.045 in.) Silicon bronze: 0.8–1.0 mm (.030–.040 in.) Flux-cored: 0.9–1.4 mm (.035–.055 in.)	H: 825 mm (32.5 in.) W: 471 mm (18.5 in.) D: 1,066 mm (42 in.)	88 kg (194 lb.)

All CE models conform to the applicable parts of the IEC 60974 series of standards.

Drive Roll Kits, Drive Rolls and Guides

Select drive rolls and guides from chart below according to type and wire size being used. Drive roll kits include four drive rolls, necessary guides and feature an anti-wear sleeve for inlet guide.

Wire Size	"V" Groove 2-Roll Kit for hard wire	"U" Groove 2-Roll Kit for soft wire or soft-shelled cored wires	"V" Knurled 2-Roll Kit for hard-shelled cored wires	"V" Groove Drive Roll for hard wire	Wire Guides	
					Inlet	Intermediate
0.6 mm (.023/.025 in.)	087131	—	—	087130	056192	056206
0.8 mm (.030 in.)	079594	—	—	053695	056193*	056207
0.8/1.0 mm (.030/.040 in.)	204579	—	—	203526		
1.0 mm (.040 in.)	079595	044749	079606	053700	056193*	056207
1.0/1.2 mm (.040/.045 in.)	—	—	—	189285*		
1.2 mm (.045 in.)	079596	079599	079607	053697		

*Included with MigMatic 300/300 DX.

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
MigMatic® 300	029015540	400 V, 3-phase, 50/60 Hz		
MigMatic® 300 Weld Ready Package	029083119	400 V, 3-phase, 50/60 Hz with MIG gun		
MigMatic® 300 DX	029015541	400 V, 3-phase, 50/60 Hz		
MigMatic® 300 DX Weld Ready Package	029083120	400 V, 3-phase, 50/60 Hz with MIG gun		
Accessories				
Drive Rolls Kits, Drive Rolls and Guides		See chart above		
Bernard™ MIG Gun	Q3015TE3EEQ	Air-cooled, 300 A, 4.6 m (15 ft.), TOUGH LOCK™ consumables		

Date: _____ Total Quoted Price: _____

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