

MPi 220P

**MIG/Stick/TIG (Multiprocess)
Arc Welding Power Source**



Quick Specs



Industrial Applications

Light fabrication
Maintenance and repair
Auto body
Farm/home

Processes

MIG (GMAW)
Pulsed MIG (GMAW-P)
Stick (SMAW)
TIG (GTAW)
Flux-cored (FCAW)

Input Power 230 V, single-phase, 50/60 Hz

Amp/Volt Range MIG: 20–200 A, 15–24 V
Stick: 5–200 A, 20.2–28 V
TIG: 5–200 A, 10–18 V

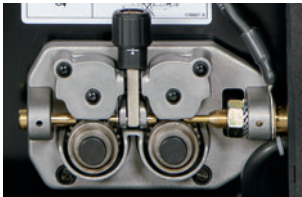
Rated Output MIG: 110 A at 17.5 VDC, 100% duty cycle
Stick: 100 A at 24 VDC, 100% duty cycle
TIG: 100 A at 14 VDC, 100% duty cycle

Portability is number one when you have to go to the job — because it can't come to you. The MPi 220P contains all you need to MIG weld in one small lightweight package. With the flip of a switch, all processes are available to meet the application at hand.

Large graphical display guides user through process and parameter setup with ease and high visibility.

Full weld process capability.

MIG/MAG, pulse, stick and TIG are available to meet the demand of current applications.



Durable cast aluminum feedhead incorporates dual-groove quick-change drive roll and spring-loaded tension arm with calibrated tension knob, all designed to make set up easier and faster.

Thermal overload protection

shuts down unit and activates **over temperature light** if airflow is blocked or duty cycle is exceeded. Automatically resets when fault is corrected and unit cools.



Excellent arc characteristics! The MPi 220P offers positive arc starts and an extremely stable arc with minimal spatter on both mixed gases and straight CO₂.



Easy access to output studs provides **convenient polarity changeover** when changing from solid or flux cored wires.

Synergic welding mode offers the simplicity of single knob control. The machine will select the correct voltage and amperage based on the wire feed speed (WFS) set by the operator.

Note: Complete material library to select from for the targeted market segment.

Adjustable Hot Start™ for stick arc starts. Adjust the optimal start current for the application. The current automatically increases the output amperage at the start of a weld.

Built-in upslope/downslope function for TIG helps provide better arc starts and reduces craters.

Built-in run-in/crater/burnback function for MIG helps provide better arc starts and reduces craters.

Adjustable preflow and postflow gives operator better control of the gas parameters affecting weld zone.

Selectable trigger configuration allows the operator to choose standard or 2T trigger method.



Warranted for three years, parts and labour.



ITW Welding – BV

Edisonstraat 10
P.O. Box 1551
NL-3261 LD Oud-Beijerland,
Netherlands
TEL: +31 (0) 186 641 444
FAX: +31 (0) 186 640 880

ITW Welding – Italy S.r.l.

Via Privata Iseo 6/e
20098 San Guiliano M.se
Milano – Italia
TEL.: +39 02 982901
FAX: +39 02 98281552
ITW-Welding.com

International Headquarters Miller Electric Mfg. Co.

An Illinois Tool Works Company
1635 W. Spencer Street
Appleton, WI 54914 USA
TEL. : +1 920 735 4554
FAX : +1 920 735 4125
MillerWelds.com

Specifications (Subject to change without notice.)



Input Power	Welding Mode	Amperage/ Voltage Range DC	Rated Output (Duty Cycle)			Max. Open-Circuit Voltage	IP Rating	Dimensions	Net Weight
			100%	60%	35%				
230 V, 1-phase, 50/60 Hz	MIG	2–200 A 15–24 V	110 A 17.5 V	140 A 21.0 V	180 A 23.0 V	35 V	IP22S H: 365 mm (14.4 in.) W: 237 mm (9.3 in.) D: 548 mm (21.6 in.)	16 kg (35 lb.)	
	Stick	5–200 A 20.2–28 V	100 A 24.0 V	130 A 25.2 V	170 A 26.8 V	65 V			
	TIG	5–200 A 10–18 V	100 A 14.0 V	130 A 15.2 V	180 A 17.2 V	65 V			

Drive Rolls and Wire Guides

Wire Size	V-Grooved Drive Roll*	U-Grooved Drive Roll**	V-Knurled Drive Roll*	Wire Guide Inlet
0.6/0.8 mm (.023/.030 in.)	156053051	—	—	156090026
0.8/1.0 mm (.030/.040 in.)	156053109	156053053	—	156090026
1.0/1.2 mm (.040/.045 in.)	156053052	—	156053110	156090026
1.2/1.6 mm (.045/.065 in.)	—	156053054	—	156090026

*Available in steel, 30 mm diameter. **Available in nylon, 30 mm diameter.

Base selection of drive rolls upon the following recommended usages:

1. V-Grooved rolls for hard wire.
2. V-Knurled rolls for hard-shelled cored wires.
3. U-Grooved rolls for soft and soft-shelled cored wires.

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
MPI 220P	059016014	230 V, single-phase, 50/60 Hz. Includes work clamp		
Accessories				
TIG Torch	WP-17VS4BXEY3GL	130 amps DC, 100 amps AC, 60% duty cycle		
MIG Gun	Q2010TB3DEQ	Air-Cooled, 200 A, 3 m (10 ft.). TOUGH LOCK™ consumables		

Date: Total Quoted Price:

Distributed by:

