

<b>Specification</b>	<b>HTP Pro Pulse 200</b>	<b>Millermatic 350P Aluminum</b>	<b>Lincoln Power MIG 350MP</b>	<b>Everlast Power MTS 251 Si</b>	<b>Everlast Power i-MIG 275 P</b>
<b>Price</b> (As of 1/18/2018)	\$1999	\$5229	\$4225	\$1699	\$1999
<b>MIG Amperage Range</b>	20-220	25-400	5-350	30-250	30-275
<b>Recommended Amperage</b>	200	300	300	250	275
<b>MIG Arc Voltage</b> (Low arc voltages are required for thin wire diameters if welded without pulse, and high voltages are required for spray arc welding, flux cored wires, and pulse welding on heavy material.)	13-35	12-32	Up to 32	15.5-26.5	14-30
<b>Duty Cycle</b> (% @ Amps)	35% @ 200 100% @ 140	60% @300 100% @230	60% @300	40% @ 250 100% @160	50% @ 275 100% @ 195
<b>Weight</b> (lbs)	42	181	255	70	68
<b>Input Voltage</b>	208-240	200-460	208-575	120/240	240/480
<b>Input Amperage</b> (at 220 volt)	35	63 @ 300 amp output	68 @300 amp output	36	52.6
<b>Wire Spool Size</b>	8", 12"	8", 12"	8", 12"	8" only	8", 12"
<b>Wire Feed Speed</b> (Inches Per Minute)	7-630	50-800	50-700	60-600	60-600
<b>Wire Run-In Adjustments</b> (This is critical, combined with pulse welding, and a key factor to virtually spatter free welds.)	Yes	Yes	Yes	No	No
<b>Adjustable Induction/Arc Force</b>	Yes	Yes	Yes	Yes	Yes
<b>Pulse MIG Capable</b>	Yes	Yes	Yes	Yes	Yes
<b>Double Pulse/Pulse-on-Pulse</b>	Yes	Yes	Yes	No	No
<b>"MIG like TIG Appearance"</b> (when welding aluminum)	Yes	Yes	Yes	No	No
<b>Synergic Pulse</b> (This means that the background current, the pulse-on time, and the pulse frequency are factory pre-programmed according to scientifically established tables that always provide the perfect weld.)	Yes	Yes	Yes	No	No
<b>Selectable Pulse Shapes</b> (Different pulse shapes are required to weld different materials, even different material thicknesses—this feature is comparable to different wave forms on TIG machines.)	Yes	Yes	Yes	No	No
<b>Adjustable Pulse Frequency</b> (On machines featuring synergic pulse, the pulse frequency is adjusted by the program (material) selected and also by the wire feed speed; slow wire speeds equal low pulse frequency and high wire speeds equal high pulse frequencies.)	Yes	Yes	Yes	Yes	Yes
<b>Full Manual Pulse</b> (The operator has to do the research, which engineers typically do to dial in the machine, and find out, through trial and error, how to set up the machine.)	No	No	No	Yes	Yes
<b>Dial Machine in by Material Thickness</b> (The thickness of the material that is to be welded is displayed in inches or mm, as opposed to the machine just showing an amperage and the operator knowing what amperage matches what thickness.)	Yes	No	No	No	No
<b>Synergic MIG</b> (No pulse; the machine is dialed in by amperage.)	Yes	Yes	Yes	Yes	Yes

<b>ST Arc™</b> (Short Transfer Arc—Arc length is pre-programmed based on wire material and diameter and is held constant while welding, regardless of stick out. This feature ensures a consistent bead and consistent heat input. It also allows the operator to run stick out longer than usual, which allows the operator to reach into tight corners WITHOUT compromising weld integrity.)	Yes	No	No	No	No
Arc Length Adjustments	Yes	Yes	Yes	No	No
Swiss Made Wire Feeder with Encoder	Yes	No	No	No	No
Welding Aluminum with a Push Style MIG Gun	Yes	Yes	Yes	No	No
<b>Push/Pull Gun Capabilities</b> (Push/pull systems are offered by different manufacturers. They are not a necessity to weld aluminum. Typically, they are used where extended reach is required—because heavy machines are not portable. The cost for these units typically run between \$1500 and \$2500.)	No	Yes	Yes	No	Yes
Timed Hot Start Function for Welding Aluminum	Yes	Yes	Yes	No	No
Hot Start (Used for welding aluminum; operator controls with trigger when welding; variable time.)	Yes	No	No	No	No
Slope Down or Crater Control (Used to prevent crater cracks when welding aluminum.)	Yes	Yes	Yes	No	No
Pinch (Electrically “snipping” the wire at the end of the weld.)	Yes	No	No	No	No
Special Aluminum Programs for Auto Body	Yes	Yes	No	No	No
Special Programs for Synergic and Pulsed Silicon Bronze	Yes	No	No	No	No
8” Color LCD (Shows everything in plain English.)	Yes	No	No	No	No
Stores User Programs	30	Yes	Yes	9	9
Access Programs via Trigger Pull	Yes	Yes	No	No	No
DC TIG Capabilities	Yes	No	Yes	Yes	Yes
Stick Capabilities	No	No	Yes	Yes	Yes
The machine tells the operator the recommended shield gasses.	Yes	No	No	No	No