

Specification	HTP Pro Pulse 220 MTS	Millermatic 255 907734 Machine only	Multimatic 255 907725 Machine only	Everlast 253DPI
Price as of 5/24/2019	\$2195	\$2745	\$3045	\$2279
MIG amperage range	12-220	20-350	20-350	40-250
Rated amperage	200	230	230	250
MIG arc voltage (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) * voltage at rated Amp output	13-35	25.5*	25.5*	16-30
Duty-cycle MIG (% @ Amps)	35% @ 200 100% @ 140	60 % @ 230	60% @ 230	60% @250 100% @200
TIG welding abilities	YES	NO	Yes	NO
Stick welding abilities	YES	NO	Yes	Yes
Weight (lbs.)	42	84	84	68
Input voltage	208-240	208-575	208/240	220/240
Input amperage (at 230 volt)	35	30 @ 230 amp output	39 @ 230 amp output	45.5
Wire spool size	8", 12"	8", 12"	8", 12"	8", 12"
Wire feed speed (Inches Per Minute/IPM)	55-630	50-800	50-800	? - 600 Machine does not display wire speed in synergic mode only amperage
Wire run in adjustments (manual adjustable for crisp arc ignition)	Yes	NO	NO	NO
Adjustable induction/arc force	Yes	NO	NO	Yes
Pulse MIG capable	Yes	Yes	Yes	Yes
Double pulse/pulse on pulse	Yes	NO	NO	Yes (manual only)
"MIG like TIG" looking welds (when welding aluminum)	Yes	NO	NO	Yes
Synergic pulse (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	Sort of, with voltage offset the pulse frequency changes
Welds aluminum with a standard push/style MIG gun (8' or 10')	Yes	NO	NO	Yes
Needs a push/pull gun to weld aluminum (Miller p/n 300000 \$2182)	NO	\$2182	\$2182	NO
Has a 2-roller wire feeder	Yes	Yes	Yes	NO 4
Drive rolls f/aluminum are NOT included; pricing as follows: HTP drive roll that will weld .035" & .047" wire: \$24.95; Miller requires different drive rolls for .035" and .047" wire (p/n 044749 & 079599 f/\$51.46 and \$49.06)	\$24.95	\$100.52	\$100.52	Included N/C

Dial machine in by material thickness (the thickness of the material that is to be welded is displayed in Inches or mm alternatively rather than more common: the machine just showing an amperage and the operator has to know what amperage matches what thickness)	Yes	Yes	Yes	NO machine is dialed in by amperage
“Smart” welding settings (setting that adjust arc characteristics by machine output – for example: Miller RMD® Accu-Pulse® and others. What setting like this do is adjust the arc to minimize spatter, warpage, distortion, and maximize penetration and travel speed for the application by material process and material thickness. When miller machines are equipped with that the operator typically has to choose the correct function, on an HTP machine this is all build in the synergic weld settings and the machine picks the correct arc characteristic based on weld parameters.)	Yes	NO	NO	NO
ST Arc™ (Short Transfer arc) Arc length is pre-programmed based on the wire material and diameter and is held constant while welding, regardless of stick out. This feature ensures consistent bead with and consistent heat input. It also allows the operator to run longer stick out as usual to reach into tight corners WITHOUT compromising weld integrity	Yes	NO	NO	NO
Welding programs can be changed just by using a MIG gun (the HTP machine can do that with the standard MIG gun 3 programs can be selected, the miller machines can do that with 4 programs with the additional purchase of a special MIG gun p/n for 1770046 that cost \$533)	Yes	\$533	\$533	NO
Swiss-made wire feeder with encoder	Yes	NO	NO	NO
Adjusting MIG and pulse MIG weld settings remotely while welding in every program and on every material (*Miller allows the operator to adjust setting when welding aluminum and a \$2182 push pull gun is used, adjustments for other materials are not possible)	Yes	NO*	NO*	NO not available at all
Remote control cost for welding aluminum (*push pull gun is required)	\$184.95	\$2182*	\$2182*	NO not available at all
Timed hot start function for welding aluminum	Yes	Yes	Yes	NO
Hot start (aluminum; operator trigger controlled while welding, variable time)	Yes	NO	NO	YES
Slope down or crater control (to prevent crater crack when welding aluminum)	Yes	Yes	Yes	Yes
Pinch (electrically “snipping” the wire at the end of the weld)	Yes	No info	No info	NO
Special aluminum programs for auto body 5554 wire	Yes	NO	NO	NO
Special programs for synergic and pulsed SiBro	Yes	NO	NO	Yes
Color LCD display shat shows everything in plain English	Yes	Yes	Yes	NO
Portability of the machine	EXCELLENT	Poor	Poor	Fair
TIG setup pricing (Miller p/n 301518)	\$280	N/A	\$585	N/A

Ballpark pricing for a machine set up for aluminum (pulse) MIG welding (Price includes the machine, remote control, the required MIG gun or push/pull gun, drive rolls, no contact tips, no nozzles, no wire, no cart for the machine, no gas tank or gas)	\$2580	\$5027	\$5237	N/A there are no remote functions
Replacement gas nozzle for welding steel (HTP p/n 24105; Miller p/n n-M1218C)	\$19.56 (3 pack = \$6.52 Each)	\$18.51 EACH	\$18.51 EACH	Same as HTP when bought from HTP
Replacement tip for .035" steel wire (10-packs shown for all machines; HTP part# 24035-10)	\$8.00 = \$.80ea	\$17.50=\$1.75ea	\$17.50=\$1.75ea	Same as HTP when bought from HTP