





MIG, AC-DC TIG, Stick Welder Comparison.

What's the difference?*

It's important to know what you are buying by comparing between brands. This is especially important with so many new products on the market that are in the same category. We've prepared a cross-brand comparison of the MIG, TIG, Stick welders with AC/DC TIG currently on the market, or in pre-release. We've looked up and digested the information for you and put them side by side. The green marked categories indicate what typically would be considered a better or more desirable feature or specification. While we've done our best to sift through the information for you, we cannot guarantee

any accuracy of the information. Blanks or question marks in this comparison usually indicate incomplete information that has not been published yet, due to the fact that some details of the product may still be in development or may not be available at all. Any pre-release information by any company is subject to change or may not make it to the final production stage in any form. Be sure to keep that in mind with your selection choice. Prices are based on manufacturer suggested price at the time of publication. Again, these are subject to change or may be offered at lower pre-availability sale prices.

	 Everlast PowerMTS 221STI	 Everlast PowerMTS 252STI	 Miller MultiMatic 220 AC/DC	 ESAB Rebel EMP 205c
Price	\$2100.00	\$2500.00	\$3803.00	\$3499.00
Warranty	5 Year Parts and Labor	5 Year Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor
Release Date	July 2017	January 2018	Expected Fall 2018	Expected January 2019
TIG Kit Included	Yes	Yes	Yes/ Two Regulators/ Thickness Gauge/ Wire	Yes
Water Cooler Capable Plug	Yes	Yes	No	No
Number of Gas Inlets	1	1	2	2
DINSE Size or Type Connector Compatibility	DINSE 35	DINSE 35	DINSE 25	DINSE 35
Input Voltage	120V/240V	120V/240V	120V/240V	120V/240V
Max Input @ 120V	33.2A/11Max/ 26A/11Eff	42.8A/11Max/ 26A/11Eff	24.5A	—?
Max Input @ 240V	33.6A/11Max/ 23A/11Eff	44.9A/11Max/ 23A/11Eff	31.3A	30A
MIG Amp Range 120V	30-125A	30-150A	30-125A	—?
MIG Amp Range 240V	30-200A	30-250A	30-230A	?-230A
TIG Amp Range 120V	10-125A DC, 20-300A AC	10-150A DC, 20-150A AC	20-140A	—?
TIG Amp Range 240V	10-200A DC, 20-300A AC	10-250A DC, 20-250A AC	20-210A	5-205A
Stick Amp Range 120V	10-100A	10-120A	30-90A	-90A
Stick Amp Range 240V	10-160A	10-200A	30-200A	?-180A
MIG Duty Cycle 240V @ Max	30%	60%	20% @ 200A	25% @ 205A (Not @ max 230A)
TIG Duty Cycle 240V @ Max	35%	60%	20% @ 210A	25% @ 205
Stick Duty Cycle 240V @ Max	60%	40%	15% @ 200A	25% @ 170A (Not @ max 180)
Max. OCV	MIG: 74V TIG: 74V Stick: 74V	MIG: 74V TIG: 74V Stick: 74V	MIG: 45V TIG: 46V Stick: 46V	MIG: 68V TIG: 68V Stick: 68V
MIG Wire Feed Speed	60-600 IPM	60-600 IPM	60-600 IPM	40-475 IPM
Number of Drive Rolls	2	4	2	2
Standard Wire Size Capability	.023"-.045"	.023"-.045"	.023"-.085"	.023"-.045"
MIG Wire Spool Diameter	4" and 8"	8" and 12"	4" and 8"	4" and 8"
Spool Gun Capable	Yes	Yes	Yes	Yes
Synergic Spool Gun Operation	Yes	Yes	?	?
MIG Inductance/Wave form control	Yes	Yes	No	Yes
MIG Spool/Spitch Timer	No	Yes	No	Yes
MIG Burn Back	Yes	Yes	?	Yes
Synergic/Auto MIG Function	Yes	Yes	Yes	Yes
Synergic/ Auto TIG Function/Tungsten size Selection	No	No	Yes	No
Synergic/Auto Stick Function	No	No	Yes	No
AC TIG Wave form Control	Yes, Adv. Square, Triangular	Yes, Adv. Square, Triangular Soft Square Wave	No	No
Pulse TIG	Yes	Yes	Yes (DC Only)	Yes, (DC Only?)
TIG Pulse TIG Frequency	0-150Hz AC and DC	0-150Hz AC and DC	0-150Hz (DC Only)	1-500Hz (DC Only?)
TIG Pulse Time On	Yes	Yes	Factory Set/ Not Adjustable	?
TIG Pulse Balance	Yes	Yes	Factory Set/ Not Adjustable	?
AC Capable	Yes	Yes	Yes	Yes
AC Frequency	20-200Hz	20-200Hz	60-150 Hz	25-400Hz
AC Balance	30-70% of EP (70-30% of EN)	30-70% of EP (70-30% of EN)	60-80% of EN (40-60% of EP)	1-99%
Stick E 6010 Capable	Yes	Yes	No	Yes
Stick Arc Force/Dig	Yes	Yes	Yes	Yes
Stick Hot Start Intensity	Yes	Yes	No	Yes
Stick Hot Start Time	Yes	Yes	No	?
Voltage Reduction Device (VRD) for Safety	Yes	Yes	No	Yes
Programmable Sequencer for Remote	Yes	Yes	No	Yes, limited features
Memory	Yes, 9 programs	Yes, 9 Programs	No	Yes, 4 per process
TIG/MIG Pre Flow	Yes, TIG and MIG	Yes, TIG and MIG	No	Yes, MIG listed only
TIG/MIG Post/ Flow	Yes, TIG and MIG	Yes, TIG and MIG	TIG: Auto/ Programmable through hidden menu/ No MIG	Yes, MIG listed only
Weight	66 Lbs.	82 Lbs.	58 Lbs.	49 Lbs.
Dimensions	16"Hx11Wx23L (19"H w/ handle)	27"Hx11Wx23L (30"H w/ handle)	17.5"Hx11.25"Wx21.5"L	16"Hx9"Wx23L
Power Cable Length	9.5 ft.	9.5 ft.	6.5 ft.	6 ft.
Dual Voltage Adapter Included	Yes	Yes	Yes	Yes

* This publication is based on available information on October 20, 2018. It relies on other manufacturer data which is subject to change and may vary in accuracy.

