



# Aluminum Welding Product Comparison

## MIG (GMAW)



**Millermatic®  
255**



**Multimatic®  
255**



**Millermatic®  
350P**



**Millermatic®  
350P Aluminum**



**AlumaFeed®  
350 System**



**AlumaFeed®  
450 System**

Multi-Material/Aluminum  
Light Industrial Applications

Dedicated Aluminum System  
Light Industrial Applications

Dedicated Aluminum Systems  
Best-in-Class Wire Feedability

	Millermatic® 255	Multimatic® 255	Millermatic® 350P	Millermatic® 350P Aluminum	AlumaFeed® 350 System	AlumaFeed® 450 System
<b>Production volume</b>	Moderate volume	Moderate volume	Moderate volume	Moderate volume	High volume	High volume
<b>Material thickness</b>	Gauge-1/2 in.	Gauge-1/2 in.	Gauge-1/2 in.	Gauge-1/2 in.	Gauge-1 in.	Gauge-1+ in.
<b>Input power</b>	Auto-Line™ 208-240 V, 1-phase	Auto-Line™ 208-575 V, 1-phase	200/230/460 V, 1- or 3-phase	200/230/460 V, 1- or 3-phase	Auto-Line™ 208-575 V, 1- or 3-phase	230-460 V, 3-phase
<b>Duty cycle (amps at volts)</b>	60% (230 at 25.5)	60% (230 at 25.5)	60% (300 at 32)	60% (300 at 32)	60% (300 at 32), 1-ph 60% (350 at 34), 3-ph	100% (450 at 36.5)
<b>Work envelope</b>	15 ft. or 25 ft. gun	15 ft. or 25 ft. gun	15 ft. or 25 ft. gun	15-35 ft. gun	15-35 ft. gun	15-35 ft. gun
<b>Starts/stops</b>	Crater functionality	Crater functionality	Hot Start™/ crater functionality	Hot Start™/ crater functionality	Hot Start™/ crater functionality	Hot Start™/ crater functionality
<b>Ease of use</b>	Pulse capable, advanced wave form	Pulse capable, advanced wave form	Pulse capable, advanced wave form	Pulse capable, advanced wave form	Pulse capable, advanced wave form	Pulse capable, advanced wave form
<b>Aluminum pulse program wire diameter</b>	.035 and .047 in.	.035 and .047 in.	.035 and .047 in.	.035 and .047 in.	.035, .040, .047 and 1/16 in.	.035, .040, .047 and 1/16 in.
<b>Gun/torch</b>	XR-Aluma-Pro™ and XR™-Pistol-Pro push-pull guns, Spoolmate™ 200 and Spoolmatic® (non-Pro) spool guns	XR-Aluma-Pro™ and XR™-Pistol-Pro push-pull guns, Spoolmate™ 200 and Spoolmatic® (non-Pro) spool guns	XR-Aluma-Pro™ and all XR™-Pistol push-pull guns, and Spoolmatic® (non-Pro) spool guns	XR-Aluma-Pro™ and all XR™-Pistol push-pull guns, and Spoolmatic® (non-Pro) spool guns	XR-Aluma-Pro™ and all XR™-Pistol push-pull guns, power source only is Spoolmatic® spool gun compatible with WC-24	XR-Aluma-Pro™ and all XR™-Pistol push-pull guns, power source only is Spoolmatic® spool gun compatible with WC-24
<b>Program memories</b>	4	4	0	2	2	2
<b>Unique features</b>	Auto-Set™ Elite	Auto-Set™ Elite	Four-drive-roll system	Aluminum pulse Hot Start™	Profile Pulse™	Profile Pulse™

# Aluminum Welding Product Comparison

## MIG (GMAW)

## TIG (GTAW)



**Invision™ 352 MPa Plus System**



**Invision™ 450 MPa Plus System**



**Syncrowave® 300 and 400**



**Dynasty® 210 and 280 Series**



**Dynasty® 400 and 800 Series**

Aluminum/Multi-Material Systems Supporting Feeding of all Commonly GMAW-Welded Alloys

Aluminum/Multi-Material AC/DC Welding Output

Equipment Setup	Production volume	High volume	High volume	Low to moderate volume	Low to moderate volume	Low to moderate volume
	Material thickness	Gauge-1 in.	Gauge-1+ in.	0.015-3/8 (300) or 1/2 in. (400)	0.012-1/4 (210) or 3/8 in. (280)	0.015-5/8 (400) or 1 in. (800)
	Input power	Auto-Line™ 208-575 V, 1- or 3-phase	230-460 V, 3-phase	Auto-Link® 208/240/480 V, 1- or 3-phase	Auto-Line™ 120-480 V (210) or 208-575 V (280), 1- or 3-phase	Auto-Line™ 208-575 V, 1- or 3-phase
	Duty cycle (amps at volts)	60% (300 at 32), 1-ph 60% (350 at 34), 3-ph	100% (450 at 36.5)	300: 60% (210 at 18.4) 400: 60% (300 at 22)	210: 60% (210 at 18.4) 280: 60% (250 at 20)	400: 60% (300 at 32), 3-ph 800: 60% (600 at 44), 3-ph
	Work envelope	15-35 ft. gun	15-35 ft. gun	12.5-25 ft. torch	12.5-25 ft. torch	12.5-25 ft. torch
Weld Performance	Starts/stops	Hot Start™/ crater functionality	Hot Start™/ crater functionality	High frequency start and Lift-Arc™ start	High frequency start and Lift-Arc™ start	High frequency start and Lift-Arc™ start
	Ease of use	Pulse capable, advanced wave form	Pulse capable, advanced wave form	Pulse and balance	Advanced AC (frequency, balance, and four waveforms) and full pulse adjustments	Advanced AC (frequency, balance, and four waveforms) and full pulse adjustments
	Aluminum pulse program wire diameter	.035, .040, .047 and 1/16 in.	.035, .040, .047 and 1/16 in.	Not applicable	Not applicable	Not applicable
Equipment Features	Gun/torch	XR-Aluma-Pro™ Plus and XR™-Pistol Plus push-pull guns, power source only is Spoolmatic® spool gun compatible with WC-24	XR-Aluma-Pro™ Plus and XR™-Pistol Plus push-pull guns, power source only is Spoolmatic® spool gun compatible with WC-24	Weldcraft™ W-280 and W-375 TIG torches	Weldcraft™ W-250 and W-280 TIG torches	Weldcraft™ W-375 and W-400 TIG torches
	Program memories	4	4	1	1	9
	Unique features	Profile Pulse™	Profile Pulse™	Pro-Set™	Pro-Set™ and sequencer	Pro-Set™, sequencer and memories

Premium accessories available



The Power of Blue®