

# Aluminum Welding Product Comparison

## MIG (GMAW)



**Millermatic®  
255**



**Multimatic®  
255**



**Millermatic®  
350P**



**Millermatic®  
350P Aluminum**

		Multi-Material/Aluminum		Dedicated Aluminum System
Equipment Setup	<b>Production volume</b>	Moderate (light industrial applications)		Moderate (light industrial applications)
	<b>Material thickness</b>	Gauge-1/2 in.		Gauge-1/2 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
	<b>Duty cycle (amps at volts)</b>	60% (230 at 25.5)		60% (300 at 32)
	<b>Work envelope</b>	15 ft. or 25 ft. gun		15 ft. or 25 ft. gun   15-35 ft. gun
Weld Performance	<b>Starts/stops</b>	Crater functionality		Hot Start™/ crater functionality
	<b>Ease of use</b>	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.
Equipment Features	<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 all XR™-Pistol push-pull guns, and Spoolmatic® (non-Pro) spool guns
	<b>Program memories</b>	4		0   2
	<b>Unique features</b>	Auto-Set™ Elite		Four-drive-roll system   Aluminum pulse Hot Start™

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## MIG (GMAW)



**AlumaFeed®  
350 System**



**AlumaFeed®  
450 System**



**Invision™ 352  
MPa Plus System**



**Invision™ 450  
MPa Plus System**

Dedicated Aluminum Systems  
Best-in-Class Wire Feedability

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

Equipment Setup	Production volume	High		High	
	Material thickness	Gauge-1 in.	Gauge-1+ in.	Gauge-1 in.	Gauge-1+ in.
Input power	Auto-Line™	230-460 V, 3-phase	Auto-Line™	230-460 V, 3-phase	
	208-575 V, 1- or 3-phase	60% (300 at 32), 1-ph 60% (350 at 34), 3-ph	100% (450 at 36.5)	60% (300 at 32), 1-ph 60% (350 at 34), 3-ph	100% (450 at 36.5)
Work envelope	Duty cycle (amps at volts)	15-35 ft. gun		15-35 ft. gun	
	Starts/stops	Hot Start™/ crater functionality		Hot Start™/ crater functionality	
Ease of use	Ease of use	Pulse capable, advanced wave form		Pulse capable, advanced wave form	
	Aluminum pulse program wire diameter	.035, .040, .047 and 1/16 in.		.035, .040, .047 and 1/16 in.	
Equipment Features	Gun/torch	XR-Aluma-Pro™ and all XR™-Pistol 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	
	Program memories	2		4	
	Unique features	Profile Pulse™		Profile Pulse™	

# Aluminum Welding Product Comparison

## TIG (GTAW)



**Syncrowave®  
300 and 400**



**Dynasty®  
210 and 280 Series**



**Dynasty®  
400 and 800 Series**

Aluminum/Multi-Material  
AC/DC Welding Output

		Syncrowave® 300 and 400	Dynasty® 210 and 280 Series	Dynasty® 400 and 800 Series
Equipment Setup	<b>Production volume</b>	Low to moderate	Low to moderate	Low to moderate
	<b>Material thickness</b>	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)
	<b>Input power</b>	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
	<b>Duty cycle (amps at volts)</b>	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
	<b>Work envelope</b>	12.5–25 ft. torch	12.5–25 ft. torch	12.5–25 ft. torch
Weld Performance	<b>Starts/stops</b>	High frequency start and Lift-Arc™ start	High frequency start and Lift-Arc™ start	High frequency start and Lift-Arc™ start
	<b>Ease of use</b>	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
Equipment Features	<b>Gun/torch</b>	Weldcraft™ W-280 and W-375 TIG torches	Weldcraft™ W-250 and W-280 TIG torches	Weldcraft™ W-375 and W-400 TIG torches
	<b>Program memories</b>	1	1	9
	<b>Unique features</b>	Pro-Set™	Pro-Set™ and sequencer	Pro-Set™, sequencer and memories

Premium Accessories  
Available

