

Aluminum Welding Product Comparison

MIG (GMAW)



**Millermatic®
255**



**Multimatic®
255**



**Millermatic®
350P**



**Millermatic®
350P Aluminum**

		Multi-Material/Aluminum		Dedicated Aluminum System
Equipment Setup	Production volume	Moderate (light industrial applications)		Moderate (light industrial applications)
	Material thickness	Gauge-1/2 in.		Gauge-1/2 in.
	Input power	Auto-Line™ 208-240 V, 1-phase	Auto-Line™ 208-575 V, 1-phase	200/230/460 V, 1- or 3-phase
	Duty cycle (amps at volts)	60% (230 at 25.5)		60% (300 at 32)
	Work envelope	15 ft. or 25 ft. gun		15 ft. or 25 ft. gun 15-35 ft. gun
Weld Performance	Starts/stops	Crater functionality		Hot Start™/ crater functionality
	Ease of use	Pulse capable, advanced wave form		Pulse capable, advanced wave form
	Aluminum pulse program wire diameter	.035 and .047 in.		.035 and .047 in.
Equipment Features	Gun/torch	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
	Program memories	4		0 2
	Unique features	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™ 208-575 V, 1- or 3-phase	230-460 V, 3-phase	Auto-Line™ 208-575 V, 1- or 3-phase	230-460 V, 3-phase	
Duty cycle (amps at volts)	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	15-35 ft. gun		15-35 ft. gun		
Weld Performance	Starts/stops	Hot Start™/ crater functionality		Hot Start™/ crater functionality	
	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	Production volume	Low to moderate	Low to moderate	Low to moderate
	Material thickness	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-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)	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	12.5–25 ft. torch	12.5–25 ft. torch	12.5–25 ft. torch
Weld Performance	Starts/stops	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 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	Gun/torch	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	1	1	9
	Unique features	Pro-Set™	Pro-Set™ and sequencer	Pro-Set™, sequencer and memories

Premium Accessories
Available

