

Aluminum Welding Product Comparison

MIG (GMAW)



**Millermatic®
255**



**Multimatic®
255**



**Millermatic®
355**



**Millermatic® 355
Aluma-Pro™ Package**

	Multi-Material/Aluminum		Dedicated Aluminum System
Equipment Setup	Production volume		Moderate (light industrial applications)
	Material thickness		Gauge-1/2 in.
	Input power		200/230/460 V, 1- or 3-phase
	Duty cycle (amps at volts)		60% (230 at 25.5)
	Work envelope		15-25 ft. gun
Weld Performance	Starts/stops		Crater functionality
	Ease of use		Pulse capable, advanced wave form
	Aluminum pulse program wire diameter		.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
	Program memories		4
	Unique features		Auto-Set™ Elite

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MIG (GMAW)



**AlumaFeed®
350 System**



**AlumaFeed®
450 System**



**Deltaweld® 350
MIGRunner™ with
Intellex™ Elite Feeder**



**Deltaweld® 500
MIGRunner™ with
Intellex™ Elite Feeder**

Dedicated Aluminum Systems
Best-in-Class Wire Feedability

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

	AlumaFeed® 350 System		AlumaFeed® 450 System		Deltaweld® 350 MIGRunner™ with Intellex™ Elite Feeder		Deltaweld® 500 MIGRunner™ with Intellex™ Elite Feeder	
	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		208/230/460 V, 1- or 3-phase		208/230/460 V or 575 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% (250 at 26.5), 1-ph 60% (350 at 31.5), 3-ph		100% (500 at 39)	
Work envelope	15-35 ft. gun				15-35 ft. gun			
Starts/stops	Hot Start™/ crater functionality				Hot Start™/ crater functionality			
Ease of use	Pulse capable, advanced wave form				CV, Accu-Pulse®			
Aluminum pulse program wire diameter	.035, .040, .047 and 1/16 in.				.035, .040, .047 and 1/16 in.			
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			
Program memories	2				8			
Unique features	Profile Pulse™				Profile Pulse™			

Aluminum Welding Product Comparison

TIG (GTAW)



**Syncrowave®
300 and 400**



**Dynasty®
210 and 300 Series**



**Dynasty®
400 and 800 Series**

Aluminum/Multi-Material
AC/DC Welding Output

	Syncrowave® 300 and 400	Dynasty® 210 and 300 Series	Dynasty® 400 and 800 Series	
Equipment Setup	Production volume	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. (300)	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 208–600 V (300), 1- or 3-phase	Auto-Line™ 208–600 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) 300: 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	
	Ease of use	Adjustments: frequency (50–150 Hz), balance (ball: 60–80%)	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	99	99
	Unique features	Pro-Set™	QuietPulse™, LCD interface, dynamic graphics, Pro-Set™, locks and limits	QuietPulse™, LCD interface, dynamic graphics, Pro-Set™, locks and limits

Premium Accessories
Available

