

Which MST is Best for You?



WELDING DC	MST 140i	MST 180i	MST 220i
Maximum Output	140 Amp	180 Amp	210 Amp
Order Information	Part No: 1444-0870 MST 140i System	Part No: 1444-0871 MST 180i System	Part No: 1444-0872 MST 220i System
MIG (GMAW/FCAW) Welding Output @104°F (40°C)	140A / 19V @ 15% Duty Cycle 90A / 18.5V @ 20% Duty Cycle	180A / 23V @ 20% Duty Cycle 145A / 22.5V @ 30% Duty Cycle	110A / 19.5V @ 45% Duty Cycle (115V) 210A / 23.5V @ 20% Duty Cycle (230V)
STICK (SMAW) Welding Output @104°F (40°C)	90A / 23V @ 15% Duty Cycle 80A / 23.2V @ 35% Duty Cycle	175A / 27V @ 20% Duty Cycle 140A / 25.6V @ 30% Duty Cycle	110A / 24.8V @ 35% Duty Cycle (115V) 200A / 25V @ 25% Duty Cycle (230V)
TIG (GTAW) Welding Output @104°F (40°C)	140A / 15.6V @ 15% Duty Cycle 100A / 14V @ 20% Duty Cycle	175A / 17V @ 25% Duty Cycle 160A / 16.4V @ 30% Duty Cycle	150A / 16V @ 35% Duty Cycle (115V) 200A / 18V @ 25% Duty Cycle (230V)
Current Range	10 – 140 Amp	10 – 180 Amp	10 – 150 Amp (115V), 10 – 210 Amp (230V)
MIG Welding Voltage Range	14.5 – 19 Volt	14.5 – 26 Volt	14 – 30 Volt
Wirefeed Speed Range	90 – 390 IPM (2.3 – 9.9 m/min)	100 – 650 IPM (2.5 – 16.5 m/min)	100 – 600 IPM (2.5 – 15.2 m/min) @ 230V 100 – 400 IPM (2.5 – 10.2 m/min) @ 115V
Nominal OCV Volt/DC	53 Volt	62 Volt	62 Volt
Maximum Plate Thickness	1/8" (3.2 mm)	1/4" (6.4 mm)	3/8" (12.7 mm @ 230V), 3/16" (4.8 mm @ 115V)
Wire Diameter Range			
Mild Steel:	.023" – .030" (0.6 – 0.8 mm)	.023" – .030" (0.6 – 0.8 mm)	.023" – .030" (0.6 – 0.9 mm)
Stainless Steel:	.023" – .030" (0.6 – 0.8 mm)	.023" – .030" (0.6 – 0.8 mm)	.023" – .030" (0.6 – 0.9 mm)
Aluminum:	N/A	.030" – .035" (0.8 – 0.9 mm)*	.030" – 3/64" (0.8 – 1.2 mm)*
Flux Cored:	.030" – .035" (0.8 – 0.9 mm)	.030" – .035" (0.8 – 0.9 mm)	.030" – .045" (0.8 – 1.14 mm)
Spool Size Capacity	4" & 8" (100 & 200 mm)	4" & 8" (100 & 200 mm)	4", 8" & 12" (100, 200 & 300 mm)
Power Source Dimensions (H x W x D)	16.2" x 8.3" x 17.7" (410 mm x 210 mm x 450 mm)	16.2" x 8.3" x 17.7" (410 mm x 210 mm x 450 mm)	17.3" x 10.2" x 23.6" (440 mm x 260 mm x 600 mm)
Power Source Weight	32.2 lbs (14.6 kg)	32.2 lbs (14.6 kg)	57.3 lbs (26 kg)
Warranty Period	3 Years*	3 Years*	3 Years*
Approvals	IEC 60974-1, CSA E60974-1, UL 60974-1, ETL	IEC 60974-1, CSA E60974-1, UL 60974-1, ETL	IEC 60974-1, CSA E60974-1, UL 60974-1, ETL
Protection Class	IP23S	IP23S	IP23S
PRIMARY POWER			
Primary Voltage	115 VAC	208/230 VAC	115 VAC, 208/230 VAC
Supply Voltage Range	95 – 140 VAC	208 – 265 VAC	103 – 126 VAC, 208 – 265 VAC
Number of Phases	Single Phase	Single Phase	Single Phase
Supply Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Supply Plug	NEMA 5-20P	NEMA 6-50P	NEMA 6-50P
Rated kVA	5 kVA @ 140 Amp	9 kVA @ 180 Amp	4.5 kVA (115V), 7 kVA (230V)
Lead Cord Length	10 ft (3 m)	10 ft (3 m)	10 ft (3 m)
Maximum Input Current	28.4 Amp	35.7 Amp	30.1 Amp (115V), 31.6 Amp (230V)
OPTIONAL ACCESSORIES			
Spool Gun - 1444-0894		✓	✓
Welding/Cutting Cart - 1444-0407	✓	✓	
Basic Utility Cart - 1444-0900	✓	✓	✓
Deluxe Welding/Cutting Cart - 1444-0901	✓	✓	✓
Roll Cage - 1444-0902			✓

* Limited Warranty, refer to warranty schedule on FirepowerOnline.com.