

A-Series

Automated Plasma Cutting Systems



The A-Series systems are based on an industrial proven platform. The A-Series offers standard features to meet the needs of many automated applications. With all the advantages of 1Torch and proven systems reliability, the automated A-Series delivers the best in productivity, precision and performance.

- All units have 80% duty cycle
- Single phase 208/230V available on all units
- Superior cut quality up to 120A
- Lightweight and compact design
- Durable in the toughest environments

Visit esab.com for more information.

Industry

- General Manufacturing
- Pipe Construction
- Power Poles
- Transportation



A-Series

Specifications				
	A40	A60	A80	A120
Max output	40 A	60 A	80 A	120 A
Recommended cut	6 mm (1/4 in.)	10 mm (3/8 in.)	12 mm (1/2 in.)	15 mm (5/8 in.)
Maximum cut	12 mm (1/2 in.)	15 mm (5/8 in.)	20 mm (3/4 in.)	20 mm (3/4 in.)
Maximum edge start	25 mm (1 in.)	25 mm (1 in.)	30 mm (1-1/4 in.)	40 mm (1-1/2 in.)
Mains supply, 50/60 Hz	208-230/460 V, 1-3 ph 380-400 V, 3 ph 600 V, 3 ph	208-230/460 V, 1-3 ph 380-400 V, 3 ph 600 V, 3 ph	208-230/460 V, 1-3 ph 380-400 V, 3 ph 600 V, 3 ph	208-230/460 V, 1-3 ph 380-400 V, 3 ph 600 V, 3 ph
Output range	20-60 A	20-80 A	30-100 A	30-120 A
Output power	6.3 Kw	9 Kw	12 Kw	15.4 Kw
Output at 80% duty cycle	40 A	60 A	80 A	120 A
Output at 100% duty cycle	30 A	50 A	70 A	100 A
Max OCV	260 VDC	260 VDC	260 VDC	260 VDC
Torch air pressure	5.2 bar (75.4 psig)	5.2 bar (75.4 psig)	5.2 bar (75.4 psig)	5.2 bar (75.4 psig)
Torch air consumption	189 l/min (400.5 cfh)	189 l/min (400.5 cfh)	189 l/min (400.5 cfh)	189 l/min (400.5 cfh)
Weight, incl cable and torch	19.5 kg (43 lbs.)	19.5 kg (43 lbs.)	28.6 kg (63 lbs.)	28.6 kg (63 lbs.)
Dimensions, L x W X H	533 x 248 x 343 mm (21 x 9.7 x 13.5 in.)	533 x 248 x 343 mm (21 x 9.7 x 13.5 in.)	660 x 248 x 343 mm (30 x 9.7 x 13.5 in.)	660 x 248 x 343 mm (30 x 9.7 x 13.5 in.)
Enclosure class	IP23C	IP23C	IP23C	IP23C
Recommended Cut				
Gauge 0.5 - 2.0 mm (0.02 - 0.08 in.)	•	•	•	•
6 mm (1/4 in.)	•	•	•	•
10 mm (3/8 in.)		•	•	•
12 mm (1/2 in.)			•	•
15 mm (5/8 in.)				•
Applications				
Sheet metal - duct work, artwork, trailer panels	•	•	•	•
Light fabrication - kitchenware, autobody panels, pipe		•	•	•
Medium fabrication - industrial components, truck frame and body			•	•
Heavy fabrication - heavy equipment and structure components, pipe				•

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Input amps at max output 1/3 ph				
Model	208 V	230 V	460 V	600 V
A40	47/26 A	45/24 A	31/16 A	-/13 A
A60	75/40 A	72/30 A	44/21 A	-/16 A
A80	99/46 A	95/49 A	59/29 A	-/22 A
A120	126/61 A	118/56 A	76/37 A	-/28 A

Ordering Information	
Description	Part Number
Power Sources	
ESAB A40 Plasma 208-460 V	0559351341
ESAB A40 Plasma 460 V	0559351342
ESAB A40 Plasma 600 V	0559351345
ESAB A60 Plasma 208-460 V	0559311341
ESAB A60 Plasma 460 V	0559311342
ESAB A60 Plasma 600 V	0559311345
ESAB A80 Plasma 208-460 V	0559313341
ESAB A80 Plasma 460 V	0559313342
ESAB A80 Plasma 600 V	0559313345
ESAB A120 Plasma 208-460 V	0559317341
ESAB A120 Plasma 460 V	0559317342
ESAB A120 Plasma 600 V	0559317345
Torches	
SL100 SV with ATC, 180° Automation, 7.6 m (25 ft.)	7-4001
SL100 SV with ATC, 180° Automation, 10.6 m (35 ft.)	7-4002
SL100 SV with ATC, 180° Automation, 15.2 m (50 ft.)	7-4003
SL100 SV with ATC, 180° Automation, 23 m (75.5 ft.)	7-4004
SL100 SV with ATC, 180° Automation, 30.5 m (100 ft.)	7-4005

ESAB offers 4 year warranty on unit and 1 year on torch.

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Options & Accessories	
Description	Part Number
Spare parts kit 40 A	5-0079
Spare parts kit 60 A	5-0122
Spare parts kit 80 A	5-0123
Spare parts kit 120 A	5-0175
CNC cable, 7.6 m (25 ft.)	9-1008
CNC cable, 10.6 m (35 ft.)	9-1010
CNC cable, 15.2 m (50 ft.)	9-1011
CNC cable, 23 m (75.5 ft.)	9-8315
CNC cable, 30.5 m (100 ft.)	9-8316
Remote pendant control, 6.1 m (20 ft.)	7-3460
Hand pendant extension, 7.6 m (25 ft.)	7-7744
Single stage air filter kit	7-7507
Two stage air filter kit	9-9387
Wear and Spare Parts	
O-ring	8-3484
O-ring	8-3486
O-ring lubricant	8-4025
Electrode	9-8232
Start cartridge	9-8277
Tip, standoff 40 A	9-8208
Tip, standoff 60 A	9-8210
Tip, standoff 80 A	9-8211
Tip, standoff 100 A	8-8212
Tip, standoff 120 A	9-8233
Shield cup	9-8218
Maximum life shield cup	9-8237
Ohmic clip	9-8224
Deflector	9-8243
Shield cap 40 A	9-8245
Shield cap 50 - 60 A	9-8238
Shield cap 70 - 100 A	9-8239
Shield cap 120 A	9-8256



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