

# A-Series

## Automated Plasma Cutting Systems



A80, A120

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
- Superior cut quality up to 120 A
- Lightweight and compact design
- Durable in the toughest environments
- Serial interface standard

Visit [esab.com](http://esab.com) for more information.

### Industry

- General Manufacturing
- Pipe Construction
- Power Poles
- HVAC
- Transportation



# A-Series

<b>Specifications</b>		
	<b>A80</b>	<b>A120</b>
Max output	80 A	120 A
Recommended cut	12 mm (1/2 in.)	20 mm (3/4 in.)
Maximum cut	20 mm (3/4 in.)	25 mm (1 in.)
Maximum edge start	30 mm (1-1/4 in.)	40 mm (1-1/2 in.)
Mains supply 50/60 Hz	208 – 230 V / 460 V, 1 $\Phi$ / 3 $\Phi$ 380 – 400 V, 3 $\Phi$ 600 V, 3 $\Phi$	
Output range	30 – 100 A	30- 120 A
Output power	12 Kw	15.4 Kw
Output at 80% duty cycle	80 A	120 A
Output at 100% duty cycle	70 A	100 A
Max OCV	260 VDC	260 VDC
Torch air pressure	5.2 bar (75.4 psig)	
Torch air consumption	189 l/min (400.5 cfm)	
Weight incl. cable and torch	28.6 kg (63 lbs.)	28.6 kg (63 lbs.)
Dimensions, L x W x H	660 x 248 x 343 mm (30 x 9.7 x 13.5 in.)	
Enclosure class	IP23C	
<b>Recommended cut</b>		
Gauge 0.5 - 2 mm (24 - 14 ga)	●	●
6 mm (1/4 in.)	●	●
10 mm (3/8 in.)	●	●
12 mm (1/2 in.)	●	●
15 mm (5/8 in.)		●
20 mm (3/4 in.)		●
<b>Applications</b>		
Sheet metal - Ductwork, artwork, trailer panels	●	●
Light fabrication - Kitchenware, autobody panels, pipe	●	●
Medium fabrication - Industrial components, truck frame & body	●	●
Heavy fabrication - Heavy equipment & structure components, pipe		●

# A-Series

## Ordering Information

ESAB A80 Plasma 400 V, 3 ph CE	0559313344
ESAB A120 Plasma 400 V, 3 ph CE	0559317344
ESAB A80 Plasma 230 V, 1 $\Phi$	0559313341
ESAB A80 Plasma 480 V, 3 $\Phi$	0559313342
ESAB A80 Plasma 600 V, 3 $\Phi$	0559313345
ESAB A120 Plasma 230 V, 1 $\Phi$	0559317341
ESAB A120 Plasma 480 V, 3 $\Phi$	0559317342
ESAB A120 Plasma 600 V, 3 $\Phi$	0559317345
Crossbow Plasma Kit A80 400V, 3 ph CE	0558102353
Crossbow Plasma Kit A120 400V, 3 ph CE	0558102358
Crossbow Plasma Kit A80 208/230V, 1 $\Phi$	0558102350
Crossbow Plasma Kit A80 480V, 3 $\Phi$	0558102351
Crossbow Plasma Kit A80 600V, 3 $\Phi$	0558102354
Crossbow Plasma Kit A120 208/230V, 1 $\Phi$	0558102355
Crossbow Plasma Kit A120 480V, 3 $\Phi$	0558102356
Crossbow Plasma Kit A120 600V, 3 $\Phi$	0558102359

*Crossbow kits include power supply, 10.8m (35 ft) torch and consumables kit. ESAB offers 3 year warranty on unit and 1 year on torch.*

## 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 ft)	7-4004
SL100 SV with ATC, 180° Automation, 30.5 m (100 ft)	7-4005

## Wear & Spare Parts

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
A80/A120 CNC Cable, 7.6 m (25 ft)	9-1008
A80/A120 CNC cable, 10.6 m (35 ft)	9-1010
A80/A120 CNC cable, 15.2 m (50 ft)	9-1011
A80/A120 CNC cable, 23 m (75 ft)	9-8315
A80/A120 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

# A-Series

Wear & Spare Parts	
Electrode Sleeve	9-8396
Electrode	9-8390
Gas Distributor	9-8392
Tip - 40A	9-8386
Tip- 70A	9-8397
Tip - 110A	9-8391
Shield Body	9-8393
Shield Cap - 40A	9-8387
Shield Cap - 70A	9-8398
Shield Cap - 110A $\geq$ 12 mm (1/2 in.)	9-8395
Shield Cap - 110A $<$ 12 mm (1/2 in.)	9-8394



ESAB / [esab.com](http://esab.com)

