

# A-Series

## Automated Plasma Cutting Systems



A40i



A60i

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

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### Industry

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



A80



A120

# A-Series

Specifications				
	A40i	A60i	A80	A120
Max output	40 A	60 A	80 A	120 A
Recommended cut	6 mm	10 mm	12 mm	15 mm
Maximum cut	12 mm	15 mm	20 mm	20 mm
Maximum edge start	25 mm	25 mm	30 mm	40 mm
Mains supply 50/60 Hz	380-400 V, 3 ph			
Output range	10 – 40 A	10 – 60 A	30 – 100 A	30- 120 A
Output power	4.8 Kw	7.9 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	300 VDC	300 VDC	260 VDC	260 VDC
Torch air pressure	5.2 bar			
Torch air consumption	189 l/min			
Weight incl. cable and torch	15.9 kg	15.9 kg	28.6 kg	28.6 kg
Dimensions, LxWxH	536x199x359 mm		660x248x343 mm	
Enclosure class	IP23C			
Recommended cut				
Gauge 0.5 – 2 mm	●	●	●	●
6 mm	●	●	●	●
10 mm		●	●	●
12 mm			●	●
15 mm				●
Applications				
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				●

Specifications - Input amps at max output 1/3 ph						
Model	208 V	230 V	380 V	400 V	460 V	600 V
A40i	24.1/14.6 A	21.8/13.1 A	7.7 A	7.4 A	10.4/6.3 A	-
A60i	-	-	12.9 A	12.3 A	10.5 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

# A-Series

## Ordering Information

ESAB A40i Plasma 400 V, 3 ph CE	0559356344
ESAB A60i Plasma 400 V, 3 ph CE	0559366344
ESAB A80 Plasma 400 V, 3 ph CE	0559313344
ESAB A120 Plasma 400 V, 3 ph CE	0559317344
Crossbow Plasma Kit A40i 400 V, 3 ph CE	0558102543
Crossbow Plasma Kit A60i 400 V, 3 ph CE	0559166364
Crossbow Plasma Kit A80 400V, 3 ph CE	0558102353
Crossbow Plasma Kit A120 400V, 3 ph CE	0558102358

*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	7-4001
SL100 SV with ATC, 180° Automation, 10.6 m	7-4002
SL100 SV with ATC, 180° Automation, 15.2 m	7-4003
SL100 SV with ATC, 180° Automation, 23 m	7-4004
SL100 SV with ATC, 180° Automation, 30.5 m	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
A40i/A60i CNC Cable, 7.6 m	9-1125
A40i/A60i CNC cable, 10.6 m	9-1126
A40i/A60i CNC cable, 15.2 m	9-1127
A40i/A60i CNC cable, 23 m	9-1128
A40i/A60i CNC cable, 30.5 m	9-1129
A80/A120 CNC Cable, 7.6 m	9-1008
A80/A120 CNC cable, 10.6 m	9-1010
A80/A120 CNC cable, 15.2 m	9-1011
A80/A120 CNC cable, 23 m	9-8315
A80/A120 CNC cable, 30.5 m	9-8316
Remote pendant control, 6.1 m	7-3460
Hand pendant extension, 7.6m	7-7744
Single stage air filter kit	7-7507
Two stage air filter kit	9-9387

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Wear & 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	9-8212
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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