

Crossbow

Portable, Economical, Flexible CNC Cutting Machine



- Compact oxy-fuel/plasma CNC cutting system that is portable and economical
- Equipped with plasma, oxy-fuel or both:
 - Plasma: cut mild steel or aluminum up to 20 mm (3/4 in.), stainless steel up to 15 mm (5/8 in.)
 - Oxy-fuel: cut mild steel up to 100 mm (4 in.)
- Fully integrated CNC, eliminating the need for the user to add a controller to the system



Portable Cutting Solution

Crossbow is compact and lightweight for easy transport as your application requires. Its small size makes it ideal for small fabrication shops, maintenance and repair shops, trade schools, or for portable use within large facilities and construction sites.

Economical Cutting Solution

Automated functions and a user friendly CNC provide powerful, versatile, oxy-fuel or plasma processing in a value-minded package. Precision guide rail enables stable motion of the crossbeam and full support of the cutting torch for accurate, reliable performance. Precision linear rails minimize vibration during cutting to ensure accurate cutting over the entire working envelope.

Flexible Process Solution

Crossbow can be equipped with plasma, oxy-fuel, or both. With plasma cut mild steel or aluminum up to 20 mm (3/4 in.), or stainless steel up to 15 mm (5/8 in.). Using oxy-fuel cut mild steel up to 100 mm (4 in.) thick. It's simple, menu-driven interface makes operation easy to learn and use. The CNC features a comprehensive library of 24 common shapes which minimize programming and set-up time. Dimensions are easily edited to create custom shapes without additional programming. Custom programs are supported through basic M- and G-Code programming, and off-line programmed NC files can be transferred to the machine using a standard USB connection.

Specifications

| | Crossbow |
|-------------------------------------|---|
| Effective Cutting Width | 1,550 mm (5 ft.) |
| Effective Cutting Length | 3,100 mm (10 ft.) or 1,220 mm (4 ft.) |
| Maximum Traverse Speed | 3,000 mm/min (120 ipm) |
| Overall Cross Bar Length | 2,362 mm (93 in.) |
| Overall Track Length | 4,000 mm (158 in.) |
| Overall Dimensions (CNC Drive Unit) | 600 x 460 x 420 mm (23.6 x 18.1 x 16.5 in.) |
| Total Weight | 96 kg (211 lbs.) |
| Input Voltage | 110 VAC, 50/60 Hz |



Easy to learn and operate

Plasma Packages Available

| A-Series Power Source: | A40 | A60 | A80 | A120 |
|---------------------------|---|-----------------|-----------------|-----------------|
| Rated cutting current | 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 (1.2 in.) | 40 mm (1.6 in.) |
| Output at 100% duty cycle | 30 A | 50A | 70 A | 100 A |
| Mains supply, 50/60 Hz | 208-230VAC, 1/3ph 460VAC, 1/3 ph 380-400VAC, 3ph 600VAC, 3ph | | | |
| Air requirement | 189 l/min @ 5.2 bar (400 cfm @ 80 psig) | | | |

ESAB Plasma Features

- The SL100® SV 1Torch® start technology eliminates electronic interference and provides strong pilot arc for quick and reliable starting
- The auto-pilot restart function enabling the A-Series to cut expanded metal quickly and easily
- Tool-less quick torch disconnect for easy change between mechanized and manual cutting (SL100 torch with standard ACT Quick Disconnect)
- Single phase capable on 208, 230, and 460 Volt
- All units have 80% duty cycle



Maximum Plasma Cutting Thickness of up to 20 mm (3/4 in.)



Maximum Oxy-fuel Cutting Thickness of up to 100 mm (4 in.)

A name you can trust

For more than 75 years, ESAB Cutting Systems has been offering complete, industry-leading cutting solutions to customers around the world. As a total system supplier, support and service are always just a phone call away.



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COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =