

SHADOW 2

Dual Side Drive Cutting Machine

The Shadow 2 is a dual side drive, low-cost, gantry style cutting machine. The basic machine includes the Vision™ LE CNC with 3.5" floppy disk drive, 15' (4,572 mm) longitudinal rail, ESP-50 Plasma System with PT-35 torch. Additional options include ESAB's Video-Path tracing system, arc voltage height control for plasma cutting, plasma upgrades, and CNC upgrades. The Shadow 2 is available in widths of 8ft. (2,438 mm) or 10ft. (3,048 mm) and is designed to cross cut these widths with the maximum of five process tools installed. The tables below list the available machine sizes, dimensions and specifications. Specifications are subject to change without notice. Please contact ESAB for the most current specifications.



Shadow 2	8	10
Cutting Width	112" (2844 mm)	136" (3454 mm)
Machine Width	155" (3937 mm)	179" (4546 mm)
Rail Gauge	129" (3276 mm)	153" (3886 mm)
Internal Clearance	119" (3022 mm)	143" (3632 mm)

Specifications	
Positioning Accuracy	+/- 0.025" (.63 mm)
Repeatability	+/- 0.015" (.38 mm)
Speed Range	2 - 750 ipm (50 - 19050 mm/min)
Maximum Plasma	1
Maximum Stations	4
Parking Area	36" (914 mm)
Machine Height	65" (1651 mm)
Power Requirement	230 VAC, 50/60 Hz, Single Phase, 30 Amp (Special input voltages are available upon request)

Notes:

- Rail systems are available with total lengths of 15, 30, or 45 feet (4572, 9144, or 13716 mm). Cutting length is total rail length minus parking area of 36".
- Cutting Width listed includes four process carriages.
- Accuracy is measured over a 60" x 60" area.

Standard Features

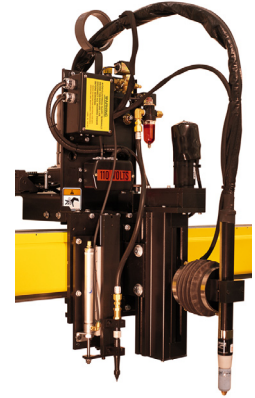
- 3 Axis Gantry with Rack-and-Pinion Drives
- Heavy-Wall Steel Box Beam Design
- Precision Hardened Round-Rail Cross Beam Guiding System
- Precision Heavy-Duty Gearboxes for accuracy and long life
- Digital AC Drive Amplifiers for years of maintenance free operation
- AC Brushless Motors for Smooth, Accurate Motion
- Maximum Machine Speed: 750 ipm (19050 mm/min)
- Cross Axis Powertrack Hose & Cable Carriers
- Handles up to 4 inch thick (100 mm) material.
- Positioning Accuracy: +/- .025", Repeatability: +/- .015"
- Heavy Duty Welded Pedestals with Leveling Adjusters
- Tubular Steel Rail Support For Strength and Rigidity
- Hardened Round Rail For Smooth Motion and Durability
- Precision Drive Rack
- Aluminum Extrusion Rack and Rail Mount Maintains Rack and Rail Alignment

Specifications are subject to change without notice. Please contact ESAB Cutting Systems for the most current specifications, numerical control, and available equipment.

Available Process Tools

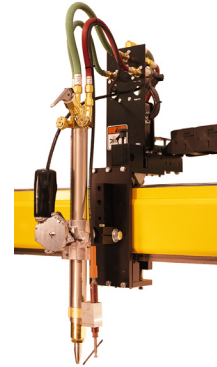
Plasma

The Shadow 2 can be equipped with standard plasma cutting stations featuring the PT-35, PT-20AM, PT-600, or PT-15XL torch. These stations include high speed vertical lifters, omni-directional crash protection, and can be configured for Air plasma up to 100 Amps, Oxygen or Nitrogen plasma up to 400 Amps, or Argon-Hydrogen plasma up to 400 Amps.



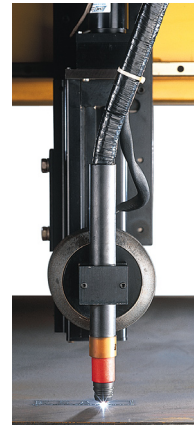
Oxy-Fuel

The Shadow 2 may be equipped with up to 4 oxy-fuel cutting stations, and can include motorized lifters, automatic igniters, and automatic gas control solenoid valves. A Hi/Low Preheat Gas Control System is available for automatic switching between high and low preheat pressures.



Plasma Marker

The Etch-Arc Plasma Marker can be fitted to the Shadow 2, providing high-speed layout line marking with a low amperage plasma torch. The system includes the PCM-1125 plasma power source, Automatic Arc Voltage Height Control, omni-directional crash protection, and initial height sensing. Very low consumable life is achieved using Argon gas, and marking can be done at the machine's maximum speed.



Air Scribe

The Shadow 2 can be equipped with a pneumatic scribe marker for marking layout lines and text on steel plate. Used in conjunction with a cutting torch, the marker can make accurate marks on parts prior to cutting, including bend lines, center points, and text.



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