

ACER

Precision Plasma Made Affordable

- Precise Plasma made affordable
- One Manufacturer
- One Source for the Gantry, Plasma, and CNC

The Acer offers precision plasma in an affordable package for entry level production cutting operations. It features a sturdy, precision gantry structure with AC Brushless Motors, Digital Amplifiers, and precision heavy-duty gearboxes, the Vision Computer Numerical Control, ESAB's Precision Plasmarc plasma system, and the Precision OMNI Z-Axis lift station, and 16 feet of rail.



ESAB offers 100 or 200 amp precision plasma cutting systems. The 100 amp precision plasma not only gives you an excellent cut quality on carbon, aluminum and stainless steel, but also permits ESAB's patented plasma marking with the same torch used for cutting when the optional Electronic Flow Control and Vision™ PC are used. Plasma marking is a non-contact marking system that provides the greatest versatility among any other marking method. This also benefits the consumer by saving the cost of a second station dedicated for marking. This further enhances accuracy by eliminating the need for a tool offset since the marking tool is the same tool that cuts. This also speeds cycle times by eliminating machine motion between tool offsets as other manufacturers are required to do.

	ACER - 5	ACER - 6
Cutting Width	60" (1524 mm)	72" (1828 mm)
Cutting Length (Standard)	120" (3048 mm)	144" (3657 mm)
Machine Width	85" (2159 mm)	97" (2159 mm)
Rail Gauge	75" (1905 mm)	87" (2209 mm)
Rail Length	16', 25' (4267 mm, 7315 mm)	16', 32' (4267 mm, 9753 mm)
Internal Clearance	68" (1727 mm)	80" (2032 mm)
Nominal Machine Height (Top of Control)	66" (1676 mm)	66" (1676 mm)
Cutting Table Slat Height	28" (711 mm)	28" (711 mm)
Maximum Workpiece Height	33" (838 mm)	33" (838 mm)
Parking Area	43" (1092 mm)	43" (1092 mm)
Maximum Plasma Stations	1	1
Speed Range	2 - 750 ipm (50 - 19,050 mm/min)	
Power Requirement(for Gantry)	575/460/230 VAC, 50/60 Hz,30 Amps,Single Phase	

Complete Process Automation

For 100 amp applications, the ACER can be equipped with ESAB's exclusive Integrated Flow Control and the innovative Programmable Cutting Parameters feature.

The Integrated Flow Control uses proportional valves to control the cut gas, start gas, and shield gas. These proportional valves are controlled directly by the CNC, yielding fast and accurate gas switching. Process parameters are selected and stored in the control, but can be manually adjusted, then saved for future use, giving the operator complete flexibility.

With the Integrated Flow Control system, gas switching is done right at the torch, requiring

very short preflow times, reducing overall cycle time, and increasing productivity.

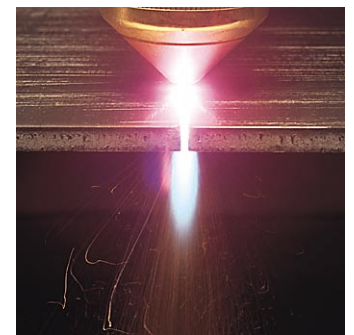
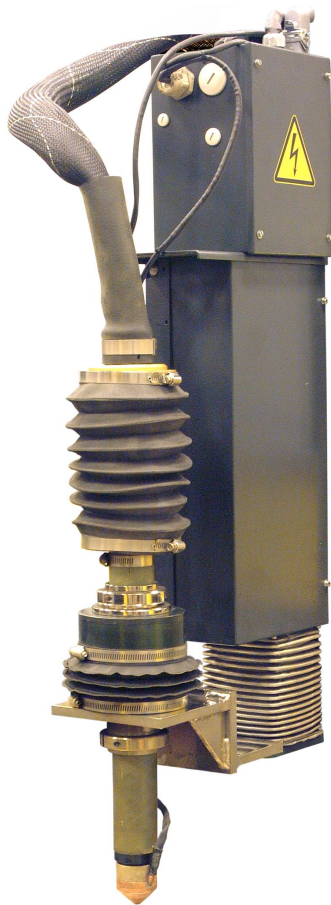
During production cutting, the preflow requirement is satisfied between cuts, allowing immediate re-start. Switching from start to cut gas is almost instantaneous, further reducing overall cycle time, and allowing the use of shorter lead ins.

ESAB's patented Cut-And-Mark feature enables Plasma Marking and Precision Plasma Cutting with the same torch, same consumables. The Integrated Flow Control automatically switches from cutting to marking parameters, meaning zero setup time for the operator. This sets ESAB apart from any other manufacturer in the world. Plasma Marking is a non-contact marking system that provides the greatest versatility among any other marking method. This eliminates the cost of a dedicated marking station, and reduces consumable cost since no special marking consumables are necessary. Since the marking tool is also the cutting tool, accuracy is enhanced and cycle times are shortened by eliminating tool offsets. Also, there is no reduction in machine cross-cut width associated with a separate marking station.

ESAB's PT-24 Precision Plasma Torch, capable of both plasma cutting and plasma marking with the same consumables.



All process parameters are set automatically when a parameter set (SDP File) is selected. The operator can make adjustments on screen, at the CNC. Simply turn the handwheel to adjust each value. A graphical bar indicates each parameter's setting.



Specifications subject to change without notice.



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