

Vision[®] LE

PC Based Cutting Machine CNC

ESAB's Vision LE is a high performance PC-based control designed specifically for cutting machines. It is fast, easy to use, and offers features that are focused on plate cutting.

The Vision LE is the ideal control for a wide range of machines, from entry level to large gantries. It provides a graphical user interface on a PC based system that is as reliable as it is simple. On screen graphics and hardware features like the soft-key menu and speed potentiometer make it easier to operate by putting the necessary controls at your fingertips.

The Vision LE also has many advanced features not found in competitive controls, such as multi-tasking, program parking, plate alignment, program graphics with real-time display of running point, graphical shape library, high speed dry-run, and kerf override.



Standard Features:

High Speed Motion Control and I/O Control Hardware with 1 ms Servo Update Time, and built-in 3 Axis support for dual-side drive gantries.

PC-Based Processor with 16 MBytes part program storage, allows instant access to hundreds of part programs or nests.

Advanced Motion Control algorithms use velocity feedforward compensation, s-curve evaluation, acceleration/deceleration based on radius or angle of intersection, and kerf overlap avoidance.

Speed Potentiometer - Provides easier, more accurate control of cutting speed, and is always accessible.

Sealed Keypanel with Easy Touch buttons are easy to feel, and give a positive "click" when pressed. Durable panel is sealed against dust and liquid.

Teach Trace Interface - Connects directly to the Video Path or other competitive tracers to allow trace-and-cut or trace-and-record.

Part Program Graphics - On screen graphics show real-time tool position during program execution, graphical selection of shape library programs, graphical preview of dimensioned shapes and graphics-to-text program editor.

Exclusive Library of 51 Shapes - Simple user interface allows the operator to graphically select the desired shape, enter the required dimensions, then see a graphical preview of the part before storing the new program.

Step & Repeat - Automatically cut an array of parts by entering X and Y repetition values.

Mirror Image & Part Rotation - Rotate a part to any angle, or mirror in either axis.

Kerf On The Fly / Kerf Override - Cut width path compensation is fast, and kerf width can be changed during program execution. This allows the operator to fine tune part size, for more accurate parts, less scrap, and less setup time.

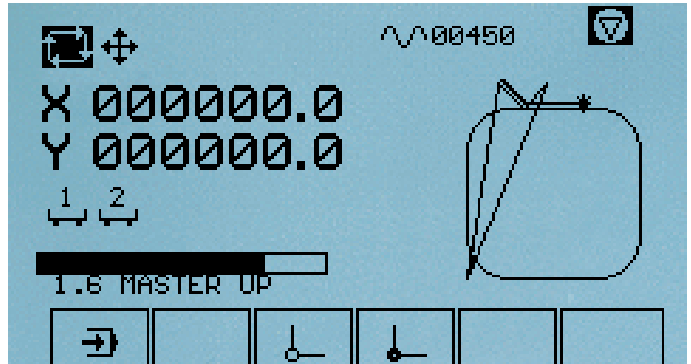
Additional Standard Features:

Multi-Tasking - While cutting, the operator can download part programs, manage programs in memory, create programs from the shape library, edit parts, or do on-screen nesting.

Jog Control - Jog off-path for torch maintenance, then automatically continue cutting, or easily relocate the program on the plate.

Program Continue After Power Fail - Machine status is continually stored in non-volatile memory. This allows part recovery in case of a power failure, preventing costly scrap.

Graphical Process Timers - Process timers are displayed as a bar graph, and are easily adjusted even while the program is running.



Graphical User Interface is easier to learn and provides more on-screen information, like real-time tool position, machine coordinates, and timer progress bars.

Program Parking - The operator can interrupt a job in progress in order to process a "rush" job, then return to the first job to continue cutting.

Two RS-232 Communications Ports - Transfer files directly to the machine via RS-232 serial data connection.

Plate Alignment - Skews the program to fit on a plate, even if it is not straight on the table.

Graphics-to-Text Editor - Editing of part programs is simplified with a graphical display of the part, including a zoom function to view detailed contours.

Backwards on Contour - The torch can easily be moved backwards on contour to pick up a lost cut.

Second X Axis (for dual sided gantry) - CNC control of slave side axis - more accurate, and no complex electronic synchronization systems.



Easy-Touch Molded Membrane front panel - Sealed membrane prevents dust entry, but molded button edges are easy to feel and give a positive "click" when pressed.

Options:

VideoPath Tracing System - The VideoPath tracing system interfaces directly to the Vision LE CNC to allow Trace & Cut or Trace-Record & Cut operations with paper or mylar template and line drawings.

Fiber Optic Communications System - Provides worry free RS-232 communications even in an industrial environment.

Serial Communications Software - High level communication between the CNC and a host PC.

Floppy Disk Drive - An external floppy disk drive with sealed enclosure, dust cover, allows easy access for program storage and transfer.



**ESAB - Your Partner
in Welding and Cutting**



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