



COLUMBUS™ **Programmed for success**

CAD/CAM SOFTWARE FOR MECHANIZED CUTTING.



Powerful Software Customized To Your Needs

Explore the world of productivity with COLUMBUS™ programming software.

COLUMBUS™ modular programming system – the right tool for the job

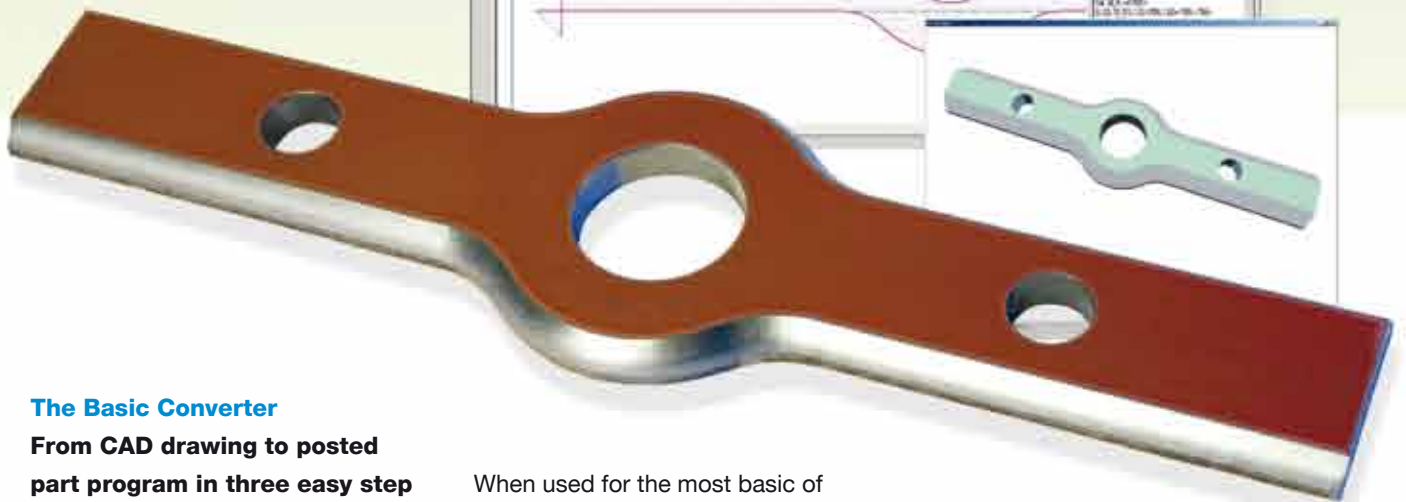
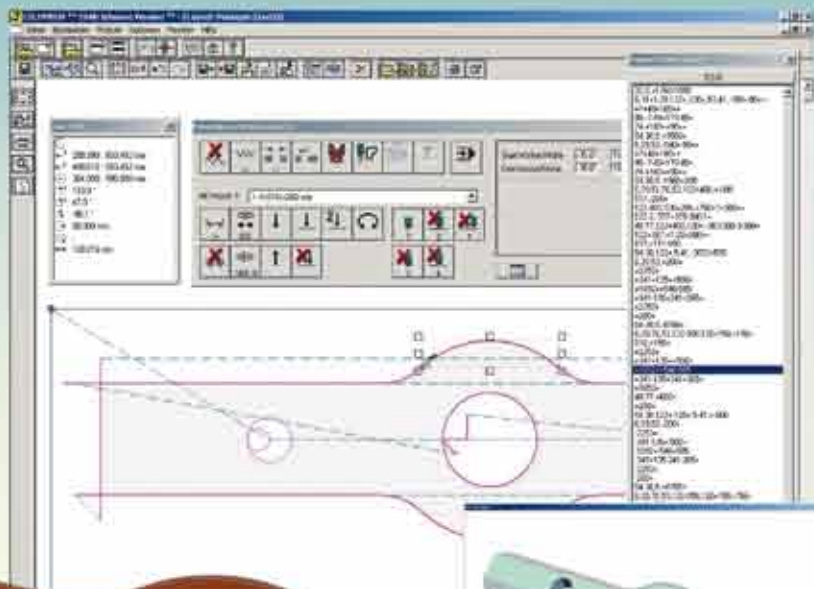
COLUMBUS™ opens the door to automated cutting. Sophisticated software modules enable you to rapidly generate NC programs for any

shape, from simple to complex. From the simple parts to complex bevel geometry, COLUMBUS™ gives you the results you need, quickly and easily. For more advanced applications COLUMBUS™ organizes your data for parts, nesting jobs, sheets

and process tools in special databases. Thanks to interfaces for various data formats, the system can be integrated into your existing IT infrastructure. It easily handles bevel cutting and automatically produces programs for V, X, or Y bevels and variable bevels.

The COLUMBUS™ Desktop:

The basic package includes plenty of functionality, starting with import capability for DXF and DWG file formats.



The Basic Converter

From CAD drawing to posted part program in three easy steps

At its core, this is what you need postprocessing software to do - import a 2D CAD file and output a machine cutting program.

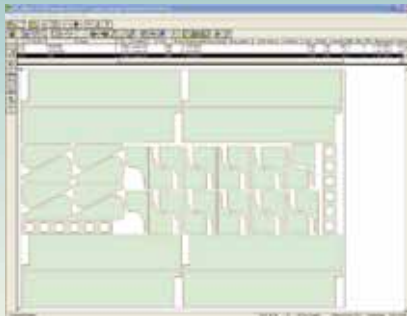
When used for the most basic of functions, COLUMBUS™ will import the part data, append the appropriate lead-ins, lead-outs, and process codes, then export a part program in either EIA or ESSI format.

The COLUMBUS™ Desktop – exceptional power in a basic package

With COLUMBUS™ basic doesn't mean limited. You get all this functionality at an unbeatable price.

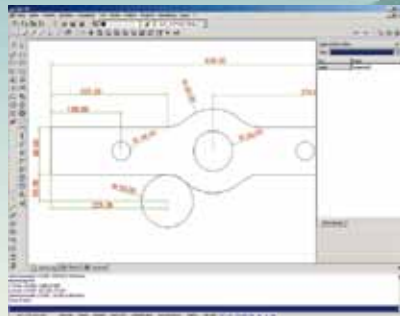
The Layout Manager

The layout manager allows manual nesting of parts with advanced features such as mirror, copy, bump, and rotate. Quickly and easily layout a nest for improved material utilization with one tool or multiple tools.



Built-In CAD Package

The built-in CAD system includes all the functions you need from a CAD system for creating and manipulating 2D part drawings. Seamless integration with the Layout Manager makes adding and modifying parts quick and easy.



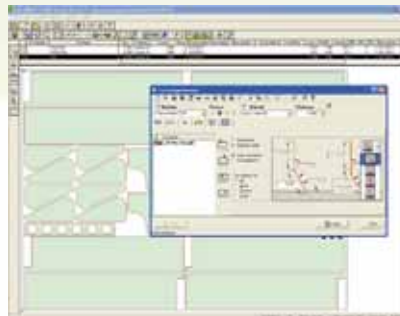
Shape Library

The integrated shape library makes it a snap to create new parts from scratch without needing any CAD know-how. An expandable library of parametric shapes lets you create common parts with a few clicks.



SDP File Interface

COLUMBUS™ allows maximum productivity and optimum cut quality with your ESAB cutting machine by letting the nest select all cutting parameters. This simplifies machine operation and ensures that every operator gets the same cut quality by using the same settings.



Technology Database

Simplify and automate assignment of process codes and lead-in and lead-out geometry based on material type, thickness, and cutting process.



Reports Manager

Multiple report options let you print detailed nesting sheets for the machine operator, showing graphically and listing what parts are nested, how many of each part, and size of each part.

Advanced Modules – create exactly the package you need

The modular structure of COLUMBUS™ fits exactly to your needs.

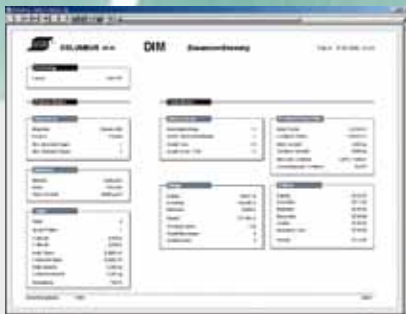
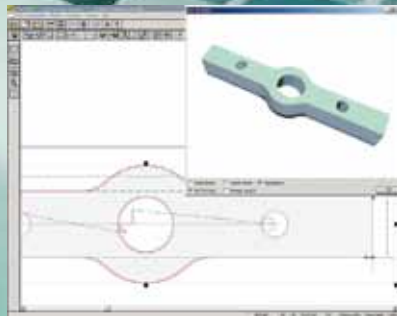
Automatic Nesting

Fully automated true-shape nesting features part-in-part and interlocking of parts to maximize plate utilization. Includes advanced functions like common line cutting, bridge cutting, multiple torch nesting, and much more.



Bevel Support Module (VBA)

For programming automatic variable bevel angle (VBA) systems, including laser, plasma, and oxy-fuel. Includes automatic generation of corner routines and piercing windows with adjustable criteria.



Data Information Module (DIM)

The module calculates cutting times, cut length, pierces, part area and weight from a nesting diagram or parts list. Accurate calculations are based on actual machine performance.



Plate Management Module (PMM)

This module is used for plate inventory and remnant tracking. Record, define and manage new sheets and/or remnants. Integrates with the automatic nesting capability to get the most out of every scrap of plate.

OTHER OPTIONS

- Data Management Module (DMM)
- Expanded Import Filters
- Network License Management
- Auto Import Module
- Multi-Process Cutting Post

Your program for cutting success

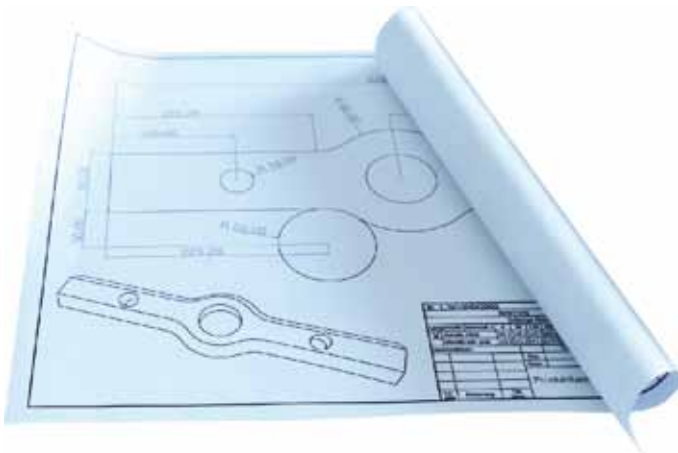
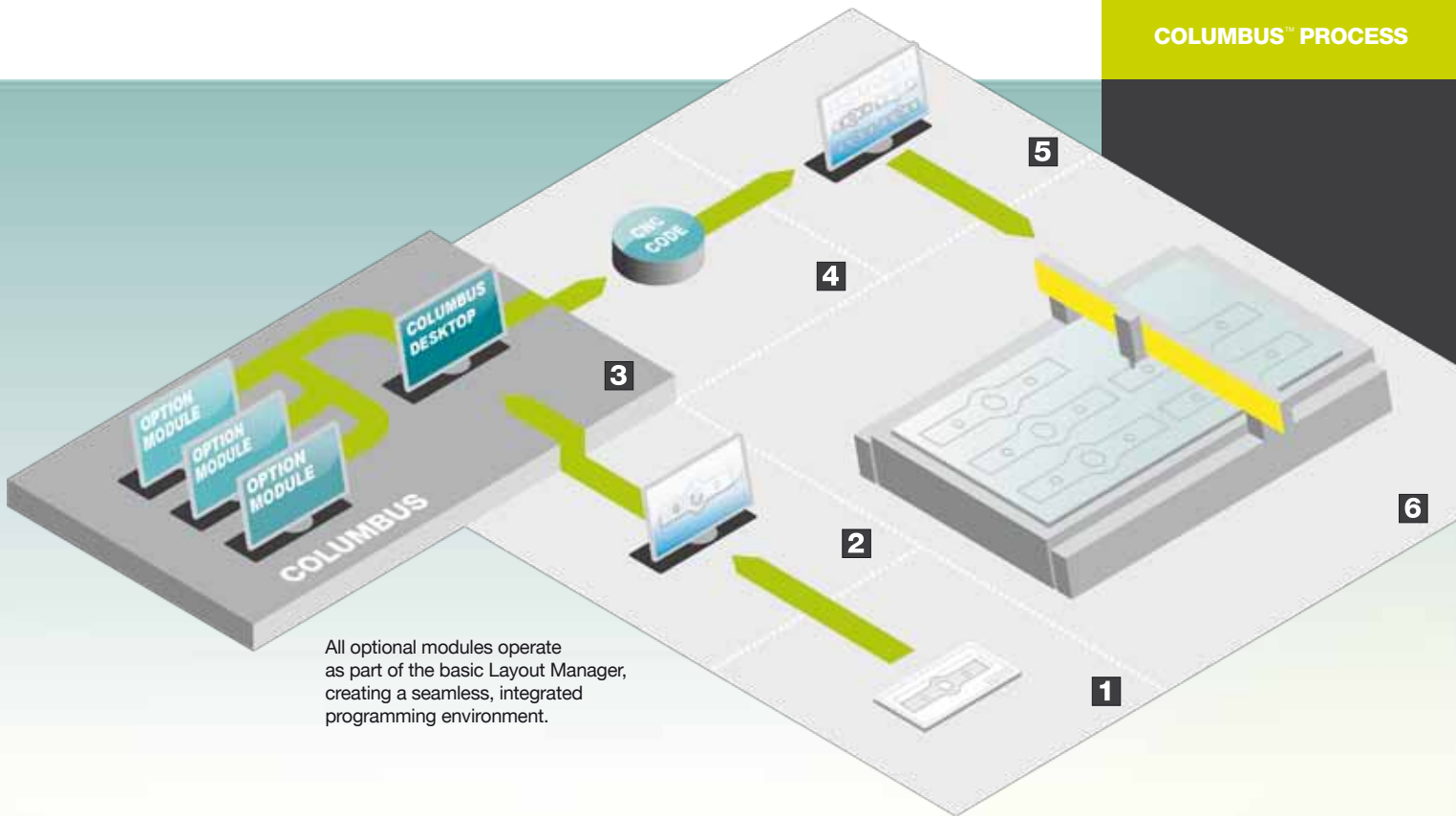
Always flexible with COLUMBUS™

Easy to use, fast workflow, intelligent design: the cutting process with COLUMBUS™.

From the simple conversion of CAD files to full integration with

automated production systems, COLUMBUS™ can handle it all. And since all the modules integrate seamlessly with the basic Layout Manager, all tasks are easily mastered, for ultimate productivity.

COLUMBUS™ PROCESS



Six steps to a finished part.

- 1** Design drawing
- 2** Save drawing as a 2D CAD file
- 3** Import to COLUMBUS™
- 4** Generation of an NC program
- 5** Transfer to the machine CNC
- 6** Start cutting process

More features, more benefits

The versatility of COLUMBUS™

Features at a glance:

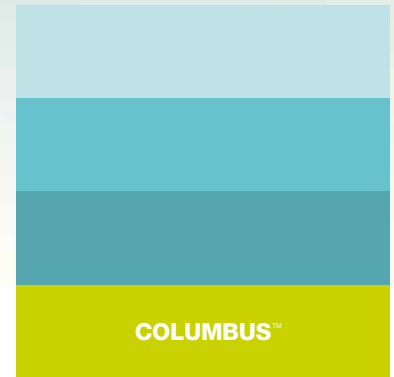
- All conventional nesting and post-processing functions.
- Optimized for controlling ESAB cutting machines.
- Configurable post-processor for programming third-party machines.
- Databases for sheets/remnants, parts, materials, process tools, machines and nesting diagrams.
- Job and part tracking.
- Integrated CAD system and standard shapes.
- Integrated data transfer from third-party software.
- Configurable calculation data.
- Data import / export.
- Multiple Language Support.
- Network License management.

Training and service

- Customized on-line, web-based training is faster, more effective, and eliminates the cost of travel.
- Free on-line support after training is completed.
- Regular training courses at ESAB Technology Center can be arranged.

Supported Operating Systems

Microsoft Windows® ME 32Bit
Microsoft Windows® 2000 32Bit
Microsoft Windows® XP 32Bit



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