

Columbus™

CAD/CAM nesting system



ESAB Welding & Cutting Products announces the release of Columbus™ version 1.7, a powerful CAD/CAM programming and nesting software optimised for plasma, oxy-fuel, laser and waterjet cutting.

This latest version 1.7 of Columbus™ offers many new features and updates to make programming easier and more efficient, improve material utilisation, increase productivity, and streamline workflow.

- Fully automated batch order nesting, including using multiple machines, triggered manually or scheduled.
- Recognise parts that are going to tilt automatically, avoiding torch collisions.
- Production data calculation based on tool/process technology data
- Improved UI by many features influenced by customer feedback

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Industry

- Steel Service Centres
- General Manufacturing

Ordering Information

Name	Part Number	Description
Layout Designer	682048550	The Layout Designer manages all functions necessary for generating a CNC program or nest (straight cutting). Oxy-fuel, plasma, laser, and marking processes are supported. A wide array of data is securely stored in a SQL database for instant recall that helps streamline your workflow.
Job Control	682048551	Easily set up tables for jobs and sub-assemblies. Jobs can contain parts together with their associated data, and they are available from the Layout Designer for further processing. Sub-assemblies which have been created from existing parts in the parts database, can be added into jobs.
Automatic Nesting	682048552	Fully automatic, true-shape nesting maximises plate utilisation while automatically creating nests for specific projects using any number of plates or remnants. Multi-torch nesting automatically reduces the number of torches when necessary. Nesting jobs can automatically use specific plates, remnant plates or plates can be manually switched.

Ordering Information – continued

Name	Part Number	Description
Bevel Cutting	682048553	The Columbus bevel cutting function enables straight line programming of oxy-fuel, plasma and laser bevel heads. Choose from a multitude of pre-defined bevel profiles or assemble individual bevel profiles. Programmed bevel parts can be saved in the parts database with object description so they can easily be re-used in other projects without re-programming.
Plate Management	682048554	Rectangular as well as remnant plates are defined and managed using the Plate Manager. Many data fields can be used to make a unique identification of each individual plate (and also plate copies). Comprehensive traceability of the material from the last remnant plate through to the original plate is ensured. Areas of a plate which have not been nested can be divided into any number of remnant plates.
Database Interface	682048557	Im- and export of any data field of the Columbus database related to orders, parts, sheets or layouts including production data. Output in CSV format (fully configurable) or Microsoft SQL Server database. Automated list im- and export of parts/orders including geometry if available (ERP/MRP interface). All imports and exports can be configured by the customer. Fully compatible with DataLeap ERP Interface.
Job Wizard	682048566	Significant productivity increase by fully automatic order processing and nesting automation. Optimised machine workload planning, significant nesting and administration time reduction and better material usage by parts being sorted by material, thickness and process used are automatically nested on the best machine available and production data is calculated. Sustainable data quality and ease of use by scheduling the starting time of a configured JobWizard job. Improved ease of use, data quality and increased administration time reduction by automated data import for order to be used by JobWizard. Automated import of CSV or ERP data to be used by JobWizard possible with many existing ERP systems.



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