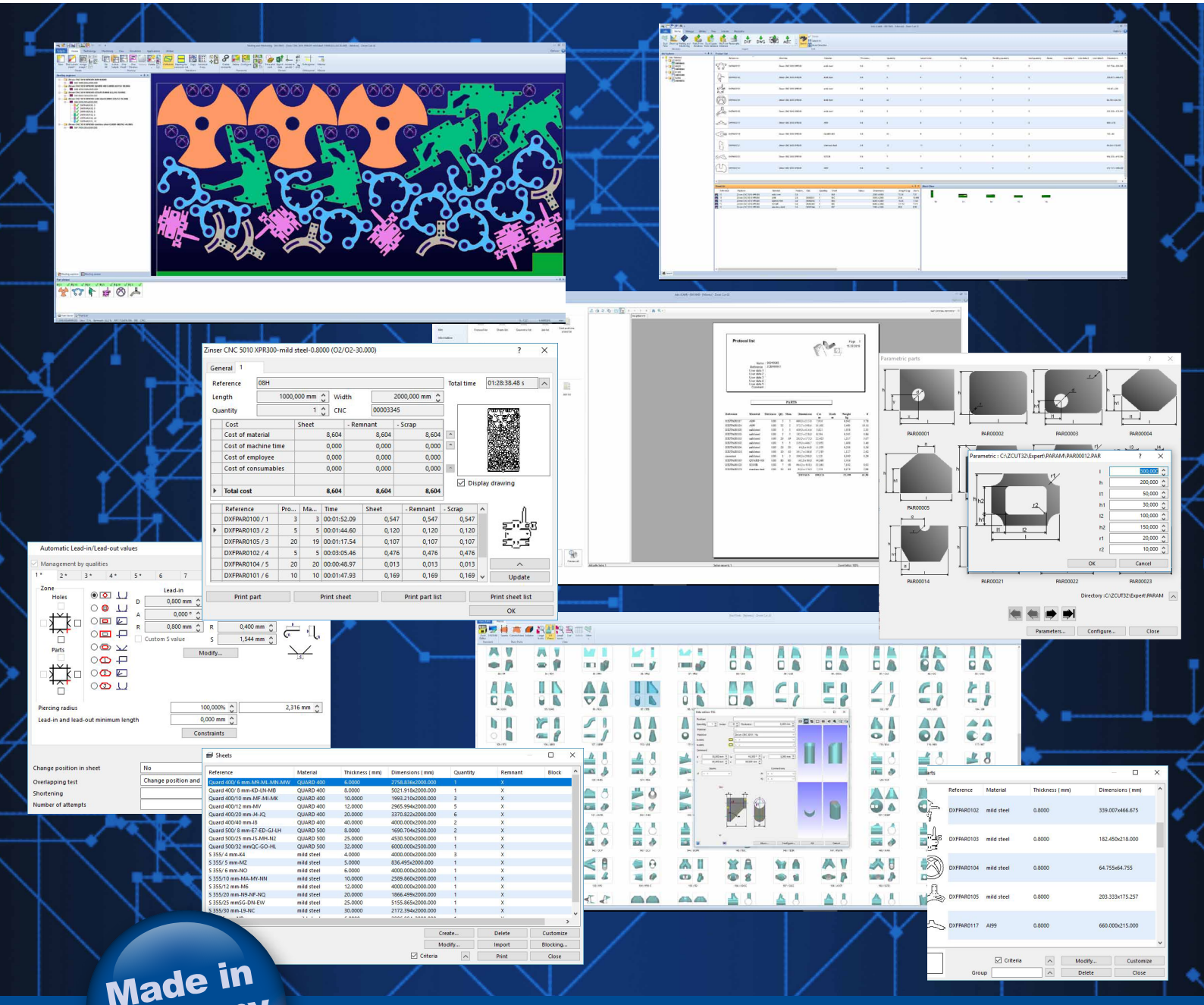
CUTTING
WELDING

SINCE 1898

ZINSER

ZINSER CUT 32

One software for the entire cutting workflow - from drawings, managing cutting tools and plates to creating nesting plans and generating CNC codes

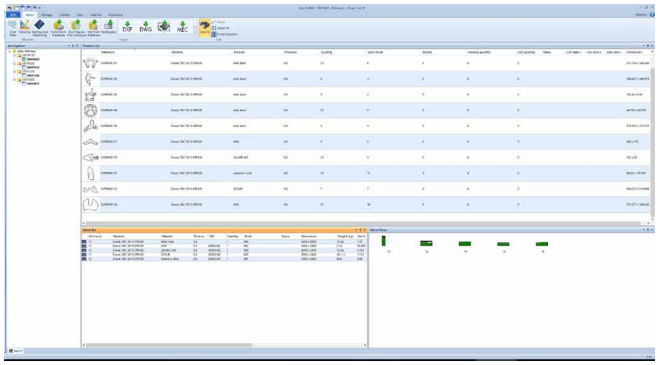


Made in Germany
Since 1898

Your benefits with ZINSER CUT32

User-friendly

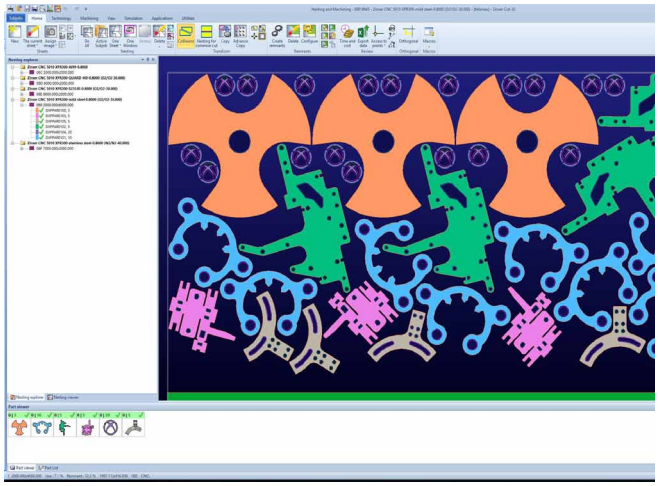
- Windows-based program
- Intuitive and interactive with predefined steps
- Online functionality with detailed explanations of all options as well as tutorials with examples of practical applications
- Undo/redo functions throughout the entire design and machining process



All options included

All ZINSER CUT32 options are included within a single program:

- Design or import parts
- Manage the plate stocks
- Create nesting plans (automatically or manually)
- Define the cutting sequence (automatically or manually)
- Generate the CNC program
- Calculate times and costs



One joint database for all processes

ZINSER CUT32 is completely integrated in the software solution ZINSER Manager. This connection allows the management of all corporate processes in a single database.

Teamwork thanks to floating license options

The system can work autonomously or be installed as part of a network. Using the floating license option, multiple users can access the system with the same dongle, only limited to the number of licenses purchased.

Reports

ZINSER CUT32 offers a wide range of different reports, detailing the data of each individual operation.

Integration of CAD and machining processes

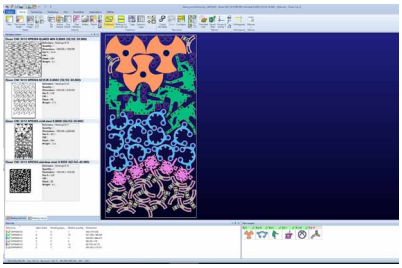
CAD system

Drawing module
Parametric parts
Import: DXF, DWG, DSTV
Parts import through automatic processes

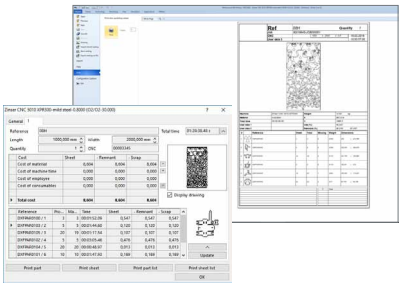
Drawing module

Automatic or manual technology and machining assignment, if necessary at part level

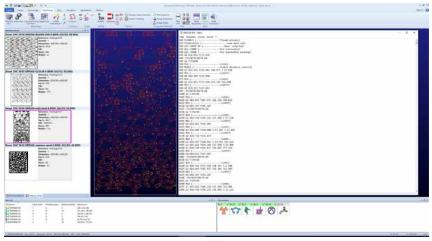
Nesting, Machining, Sequence



Reports, Display of costs and cutting time (per piece or per nesting plan)



CNC code generation



Transfer to the machine

Your benefits with ZINSER CUT$_{32}$

- One software program for all cutting machines (oxy-fuel, plasma, laser)
- Reduction of preparation and programming times
- Saving material: Maximum nesting efficiency and total control of the plate offcuts
- Lead time reduction, thereby achieving increased machine productivity
- Increased cut quality of the parts
- Minimal deviations between estimated and actual production time
- Reduced costs for machinery consumables by calculating the exact number of required piercings per nesting plan

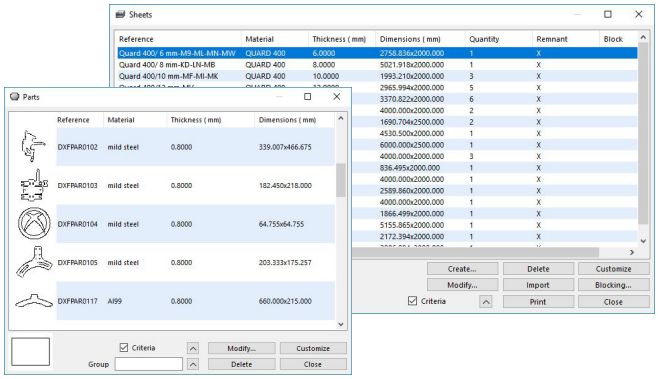
Database

Open database

ZINSER CUT32 stores all generated information in a Microsoft© MSDE database or in SQL server. This open database enables the search for parts, manufacturing orders, plates etc. based on criteria like: material, thickness, customer, date etc. Furthermore, links to spreadsheets (Excel, …), other databases (Access, …) or other applications are also possible.

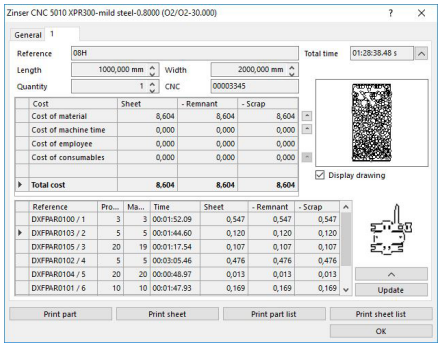
Plate warehouse and part management

All parts and plates are stored in the database in a way to allow the user to easily find any part based on criteria like: material, thickness, date, customer, dimensions etc. Moreover, there is total control of plate offcuts generated by the system which can be used in subsequent jobs.



Calculation of times and costs

ZINSER CUT32 offers total control of times and costs per part as well as per plate. Based on this data, the user can create his/her own budgets, see the workloads of different machines and print various reports for a selected period of time.



2D Design

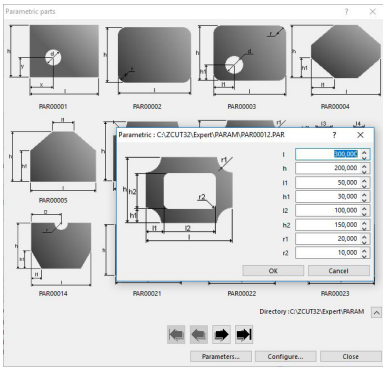
ZINSER CUT32 has a highly efficient CAD module especially created to design 2D plate parts. It also offers tools e.g. for automatic marking of parts, control of open or duplicate contours, automatic dimensioning of parts or text vectorization as well as powerful undo/redo functions etc.

Intelligent import / export

- Connection to all major CAD systems on the market via DXF, DWG, IGES, DSTV etc. as well as to all graphic file formats (jpeg, bmp, tif, gif, pcx, …).
- The ability to filter by layer, line type or color, and to also assign the appropriate technology automatically.
- Export of individual files or groups of files in DXF format.

Parametric parts

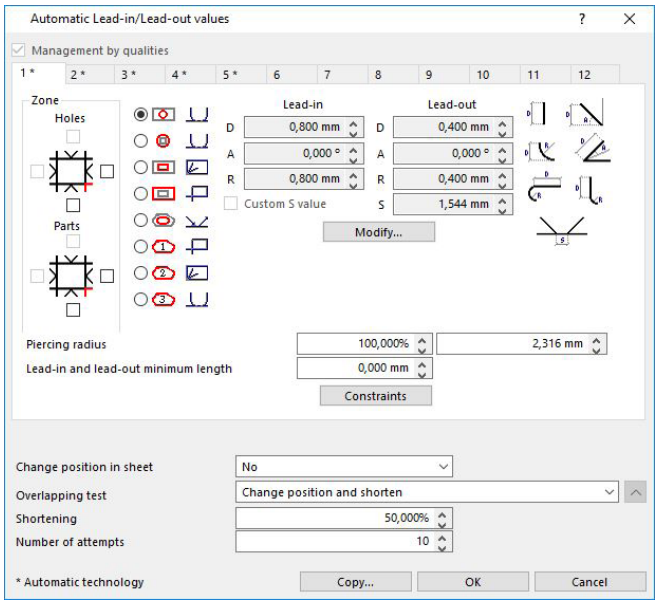
ZINSER CUT32 offers a large library of parametric geometries to create recurring, similar parts. After inserting the parameters, the geometries are created automatically.



Technology

Automatic lead-ins/lead-outs

ZINSER CUT32 allows the definition of lead-in/ lead-out types.



Advanced common cut

Use of powerful programming tools for common cuts to reduce cutting times and unnecessary material consumption. Micro-joints, continuous cuts and advanced cutting sequences for inner contours are taken into account.

Marking and cutting texts

ZINSER CUT32 can import Windows fonts to mark or cut texts.

Height control of the torch

ZINSER CUT32 calculates the best way to move the lowered torch without crossing previously cut holes or profiles.

Nesting in remnants

ZINSER CUT32 automatically detects plate offcuts in the warehouse and prioritizes their use prior to using a new plate.

Error detection

ZINSER CUT32 alerts the user to possible design errors due to open or overlapping contours. A collision control prevents possible overlapping between parts and the edge of the plate.

Manual or automatic cutting

After positioning the parts on the plate, the cutting order can be defined automatically, semi-automatically or manually. A simulation on the screen allows total control over the cutting process. The cutting order can be rearranged later at any time.

Skeleton cut

Before or after cutting the parts, the plate skeleton can be cut into smaller pieces manually or automatically.

Copy machining

With ZINSER CUT32 special machining options can be defined for one part and later be copied to identical parts of a nesting plan.

Material and thickness dependent tables

ZINSER CUT32 allows the storage of process parameters within tables depending on material and plate thickness in order to automatically use the data for future cuts to always achieve the best cutting quality.

Oxy-fuel / plasma technology

Technological attributes

Technological attributes can be assigned manually or automatically according to material/thickness. Technology tables such as ZINSER Hole can then be used automatically to optimize the cutting quality.

Micro-joints

ZINSER CUT32 uses micro-joints to anchor parts to the plate.

Bevels

Easy programming of all bevel types (V, X, Y, K) for automatically rotating cutting torches or 3-torch-units.

Multi-torch

Automatic or semi-automatic multi-torch nesting for machines with manual or automatic torch carrier positioning.

Bridges

The use of bridges between contours to reduce the number of piercings required and the overall cutting time.

Continuous cut

ZINSER CUT32 allows an automatic continuous cut by calculating the optimal cutting order of different parts to reduce the number of piercings, machining time and material costs.

Geometry marking

ZINSER CUT32 supports every marking technology used for text or to sign contours: powder, needle, punch, inkjet, plasma etc.

Programming of machines with more than one technology

- Management of magazines with drills, punches, countersinks, thread cutters
- Nesting by area to facilitate part and remnant removal
- Optimized machining order in X direction to optimize the use of tools like punches and drills
- Different part spacings in X and Y direction to optimize the use of material for longer positioning paths
- Pre-piercing at cut start to reduce piercing time

Laser technology

- Depending on material/thickness, up to 12 different cutting qualities can be created, defining the power, speed, frequency, gas, piercing mode etc. per quality. The laser technology tables can be managed individually for different machine types.
- Reduced number of piercings
- Fast piercing
- Sprintlaser
- Flying cut
- Automatic/manual loops to cut corners with sharp angles
- Micro-joints and micro-weldings
- Automatic/manual removal via trapdoor, unloading system, machine stop or micro-joints
- Automatic/manual loading/unloading of plates
- Automatic plate skeleton cutting
- Picking: ZINSER CUT32 supports robot systems for completely automated picking/stacking and management of cut and disposable parts.
- Head management: ZINSER CUT32 supports working with a lowered head. It automatically detects possible collisions and prevents them by bypassing the obstacle or lifting the head.

Nesting

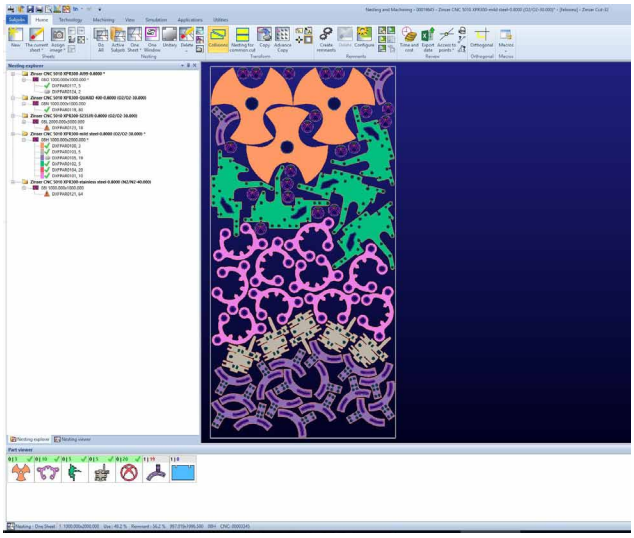
Highly flexible manual or automatic nesting

The perfect combination of automatic and semi-automatic nesting with manual nesting options like copying, rotating, mirroring etc.

Automatic nesting with maximum performance with ZINSER CUT$_{32}$ PLUS

The automatic nesting of ZINSER CUT$_{32}$ PLUS optimizes the part arrangement on the plate / plate offcut.

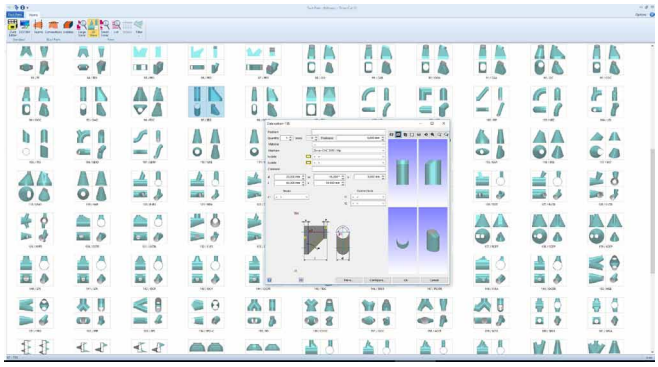
- Task explorer with multilayer viewer
- Part locking and rotation limits
- Copying parts and part groups from one plate to another
- Automatic search for the optimal plate
- Ability to set the priority of indiviual parts
- Filler part management
- Multiple, identical or dissimilar plate nesting
- Nesting in a window
- Nesting for common cut
- Nesting with multi-torch



Optional modules

ZINSER CUT$_{32}$ HVAC library for equipment and container construction

This module can be used for calculating heating, ventilation and air conditioning developments. It has a large library of over 180 geometries. The user just selects the figure to be developed and enters the dimensions to automatically receive the development ready for machining. A real 3D view of each geometry shows the final part according to entered values.



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