

Metalix presents cncKad – the complete CAD/CAM solution for Sheet Metal Manufacturing

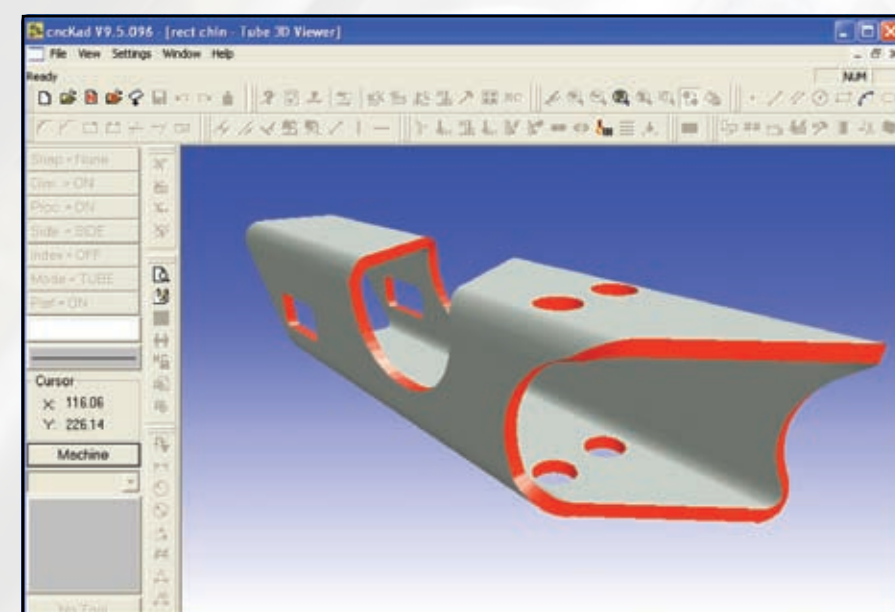
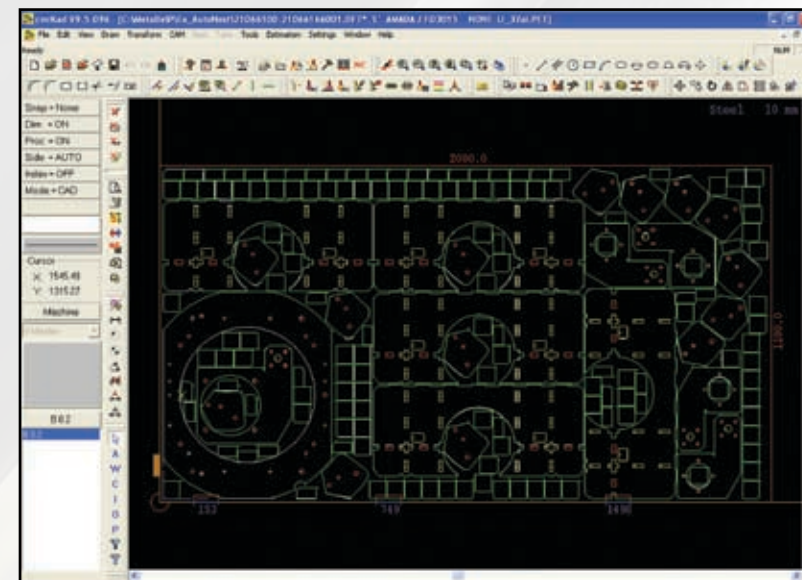
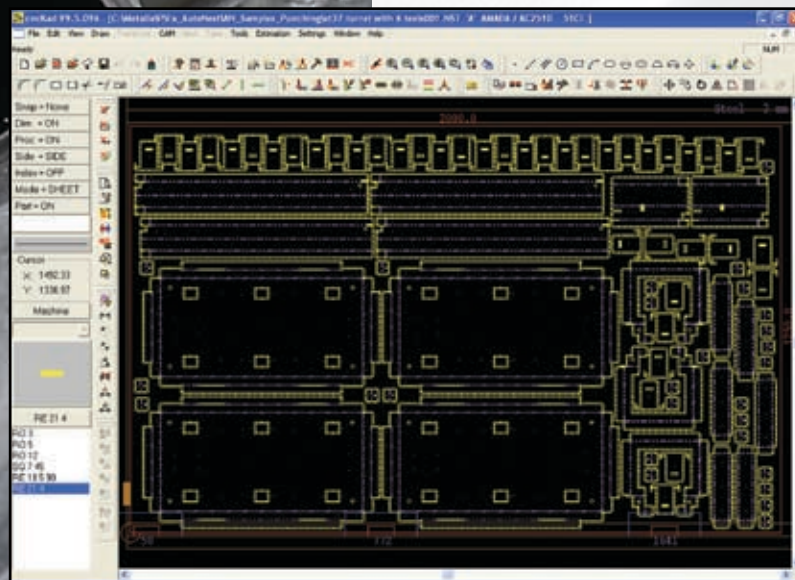
Metalix offers the full range of CAD/CAM capabilities for CNC Punch, Laser, Plasma, Flame and Combination machines, such as Punch/Laser, Punch/Plasma or Punch/Shear, including commands for sorting and stacking devices attached to your machine.

Advanced technology combines Design, Automatic/Manual Processing, Graphic Simulation and Machine Communication (DNC) in a single module.

cncKad is the only system which has integrated CAD-CAM capabilities in the same module: Geometry, Dimensions and Technology (Punching/Cutting) are completely associative – when the Geometry is modified, Dimensions and Technology are automatically updated!

cncKad supports a wide range of machines, and has a powerful solution for the quick creation of NC files and porting of parts from one technology or machine type to another (e.g. from Punch to Laser).

cncKad is affordable, user-friendly and comes complete with comprehensive documentation and support from installation to production.



Automatic Nesting

Metalix offers optimal material utilization with **AutoNest** – cncKad's automatic nesting module.

AutoNest is a powerful "True Shape" nesting tool offering a wide range of automatic and manual nesting options to achieve the best possible nesting solutions.

AutoNest includes:

- Fully Automated Nesting – select the parts and **AutoNest** does the rest.
- Hole Filling – interior holes in parts are identified and filled with compatible parts, creating efficient solutions.
- Multiple Material Nests – parts from different materials are sorted automatically and nested on their appropriate sheets.
- Multiple Sheet Solutions – nesting solutions can be generated on different sheet sizes, selected automatically for solution's efficiency and minimal number of sub-nests.
- True Shape or Rectangular – select the best nesting strategy for your parts for faster solutions.
- Manual Nesting – user-interactive positioning of parts, dragging, rotating, mirroring and duplication, all with a click of a mouse.
- Grouping – automatic and manual grouping of parts to simplify nesting solutions.
- Data Reports – detailed reports include nesting data, part data, job time and tool setup as well as other information, using fully customizable DOC, RTF or TXT templates.

Advanced Automation Solutions

cncKad's automation modules (API or Parametric Programming) enable users to create time-saving applications:

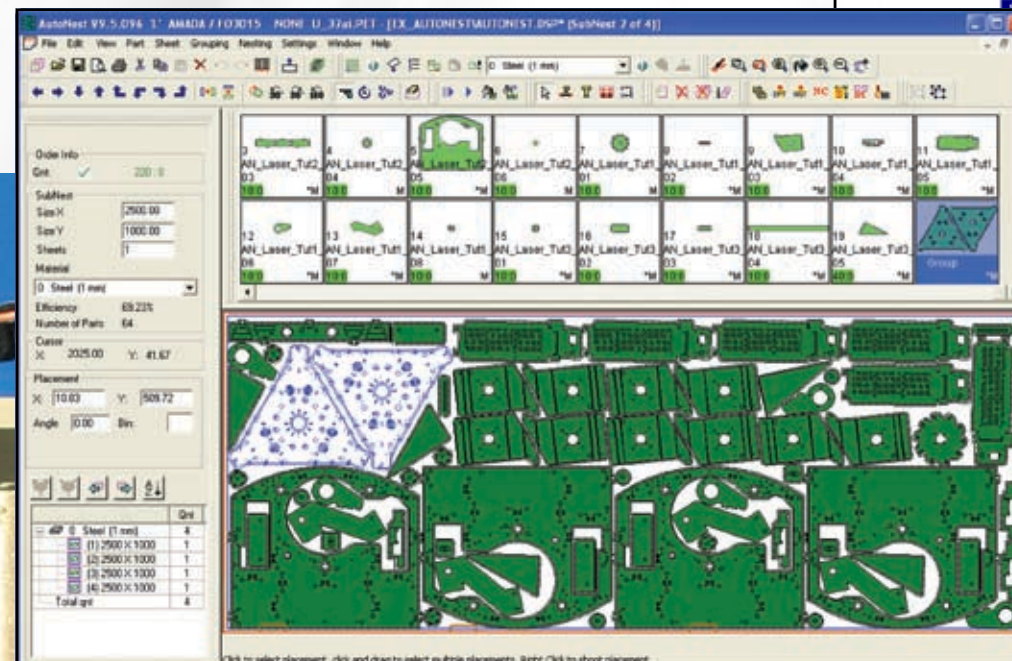
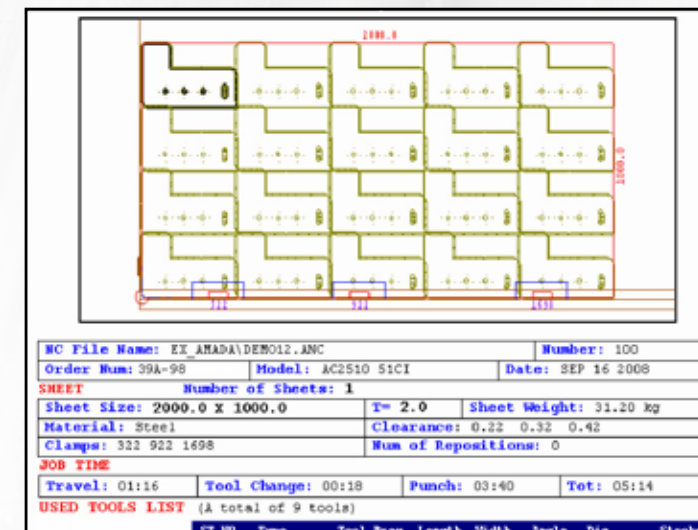
- Integrate **cncKad** with ERP/MRP systems.
- Develop automated scripts for standard actions, e.g. batch Import and Processing of parts.
- Leverage product information directly from part files.

The automation modules come with complete documentation and a set of code examples.

3D CAD Interface

The **CAD Link** module enables one-click real-time transfer of parts from 3D CAD packages to **cncKad**.

Files can be transferred from SolidWorks®, Solid Edge®, Autodesk® Inventor®, Pro-E® and Vertex® G4, using an online associative link, bypassing the need for intermediate files such as DXFs.



Advanced Punch Technologies

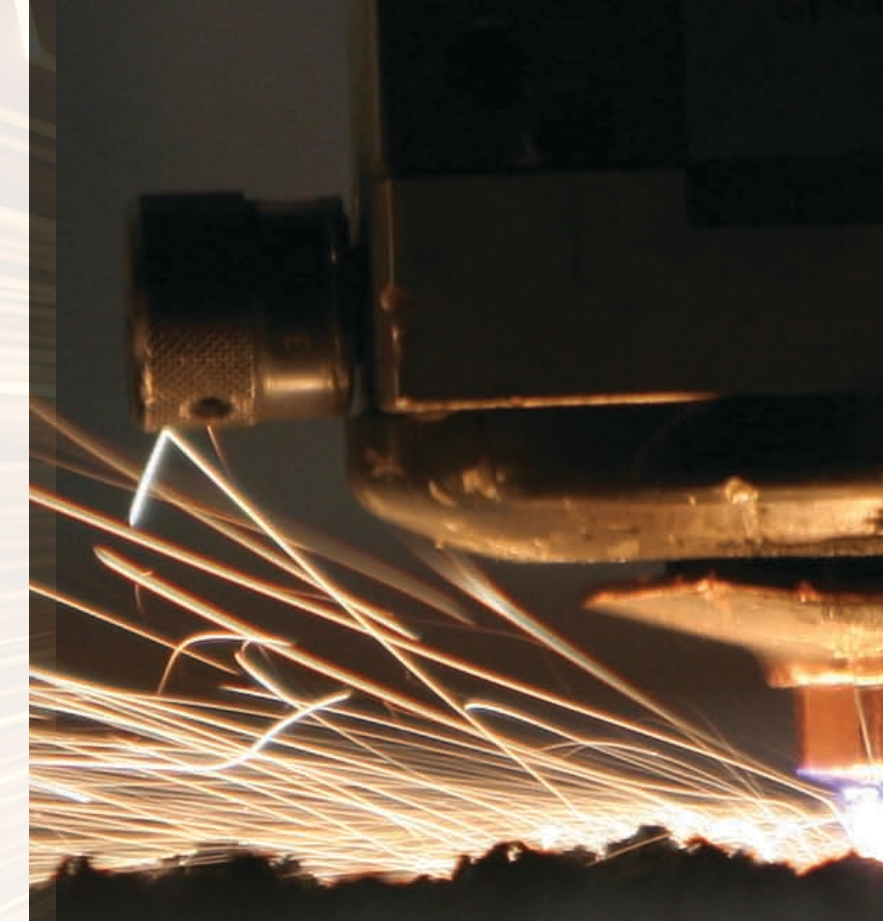
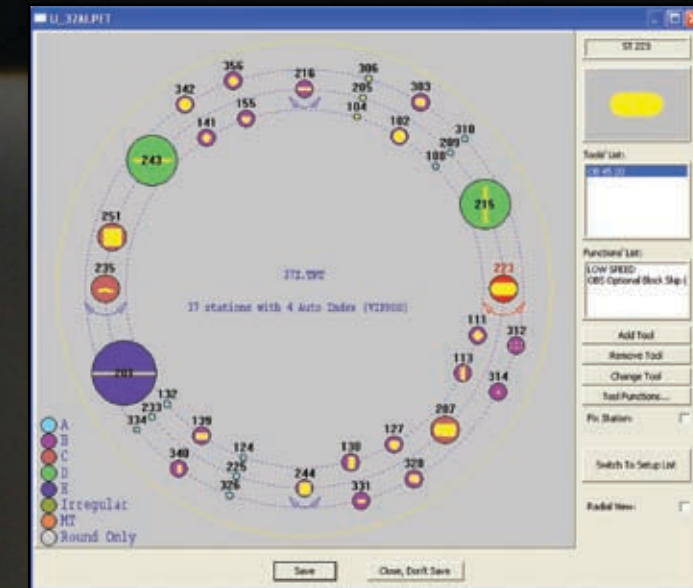
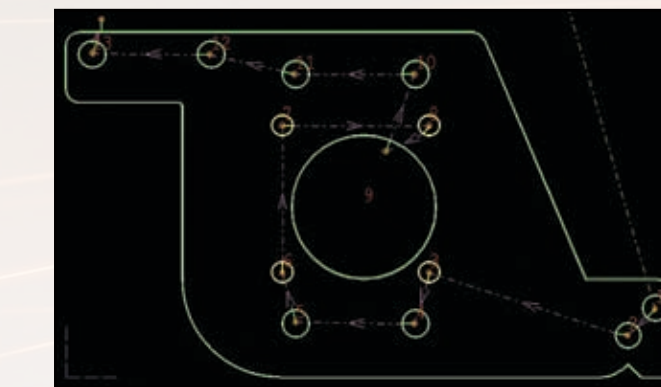
cncKad incorporates unique and next generation technologies to support advanced machines and generate efficient NC code:

- Automatic Punching with Pre-Defined Shapes
- Manual and automatic Wire and Micro Joint positioning
- Integrated Clamp Avoidance
- Easy to use Common Cuts definition
- Single Clamp Movement
- Full support for Wheel tools
- Efficient strategies for Tool Path Optimization and tool usage

Advanced Cut Technologies

cncKad gives you the ability to fully utilize your machine's capabilities:

- Automatic Cutting with Corner Treatment
- Rapid Tool-Path Crash Avoidance
- Tool-Path Optimization with Auto Entry Point
- Material-based Cutting Parameters
- Vaporization and Marking Before Cutting options
- True-Type Font cutting and engraving
- Common Line cutting



Business card

Entire Design-to-Production Cycle – cncKad is an integrated system covering the complete cycle of CNC operation:

Drafting

cncKad has a very powerful, easy to use 2D drafting module. In addition to a full set of drafting tools, cncKad supports special sheet metal drafting aids and Geometry Validation to automatically detect and correct unclosed contours.

Punch Technology

The Punching module includes support for:

- Auto-Punch
- Special tools
- Auto-indexing
- Automatic Reposition
- Common cuts

Tube Cutting

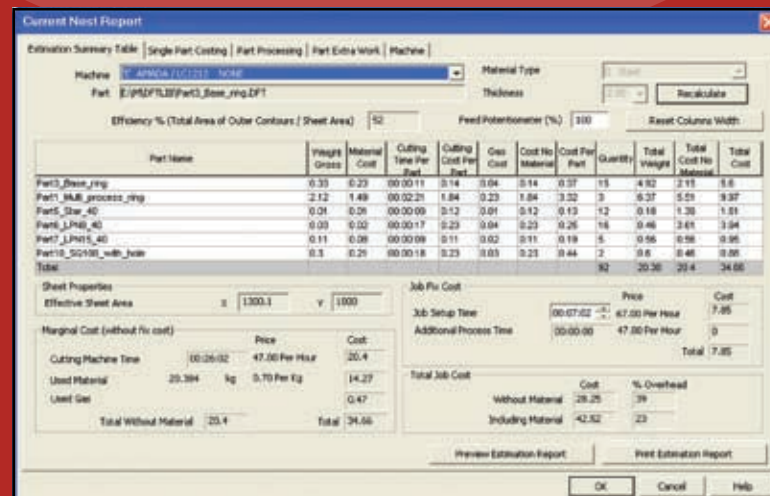
cncKad supports Laser/Plasma/Flame machines equipped with a CNC Rotary Axis head for cutting intersections between tubes and between a tube and a plane, using a simple graphic interface.

Set layout and design for cutting tube assemblies quickly and accurately then view the cuts in 3D.

Graphic Simulation of CNC Programs

cncKad supports graphic simulation of any CNC program, including legacy programs previously written on the machine.

The Simulator enables easy editing of CNC programs while graphically viewing the results on the processed sheet.



Import

cncKad has an efficient import feature for DXF, DWG, IGES, CADL and other standard file formats.

Includes support for mm/inch based files and Layering.

Cutting Technology

The Cutting module includes support for:

- Auto-Cut
- Automatic contour check and correction
- Beam Width definition and Auto Compensation
- Corner Loops and Corner Slow Down
- Z axis control

Post-Processing: NC Files Generation

Advanced post-processors generate efficient CNC programs with precision and ease, incorporating Sub-routines (macros), Optimized Tool Path and Minimal Turret Rotation, with support for machine operations such as oiling, vacuum and ram-rate.

DNC

Easy communication with your machine - uploading/downloading of NC files to machines, with support for batch loading and for extracting NC files from the machine controller.

machine
CAD/CAM that speaks your language

Language Support

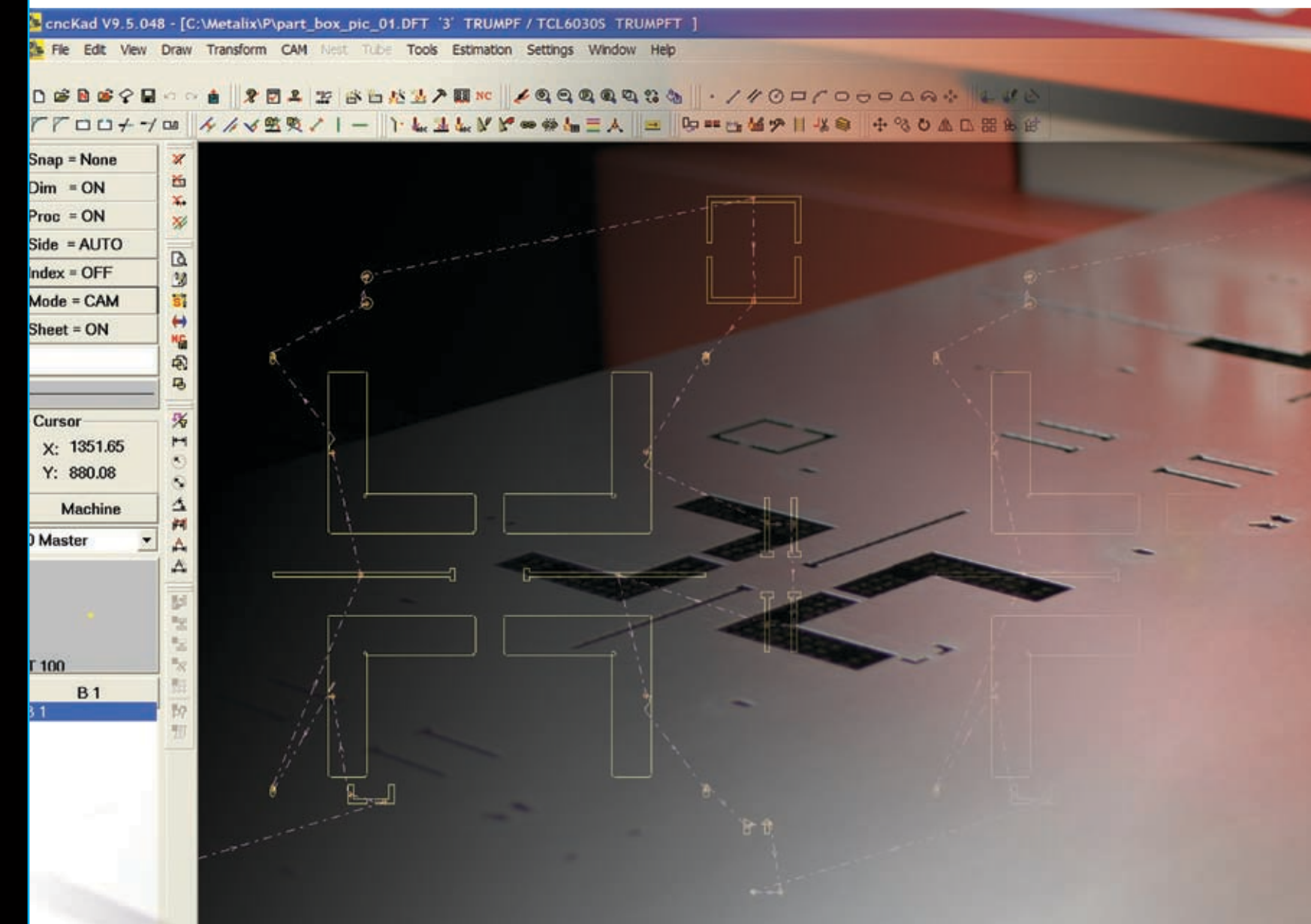
Arabic	French	Korean	Spanish
Chinese	German	Polish	Taiwanese
Czech	Greek	Portuguese	Thai
Dutch	Italian	Romanian	Turkish
English	Japanese	Russian	

Support for additional languages can be easily added.

Machine Support

cncKad supports a wide range of machines including: AMADA, AFM, AMS, AS, BALLIU, BERHENS, BOSCHERT, BYSTRONIC, BURNY, CINCINNATI, CR, DAEWOO, DANOBAT, DATONG, DIACRO, DIMECO, DURMAZLAR, EDEL, ELAS, ESAB, EUROMAC, FARLEY LASER-LAB, FINNPOWER, FLOW, GASPARINI, GOLDSTAR, HACO, HUILI, INDUMASH, JIEMAI, JIN FANG YUAN, KOIKE, KOMATSU, LFK, LVD, MAZAK, MESSER GRIESHEIM, MITSUBISHI, MLI, MURATEC, MVD-INAN, NISSAN TANAKA, NISSHINBO, NTC, OMAX, OMES, PRIMA, PULLMAX, RAINER, RASKIN, RHODES PIERCE-ALL, ROLLSROYCE, SAMSUNG, SHIBUYA, SIMASV, SNK, STRIPPIT, STRIPPIT HD, TAILIFT, TECHNOLOGY-ITALIANA, TOSHIBA, TRUMPF, WHITNEY, XUZHOU, YANGLI, YAWEI, ZINSER, and others.

cncKad – Advanced CAD/CAM solution for the Sheet Metal manufacturer



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