

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

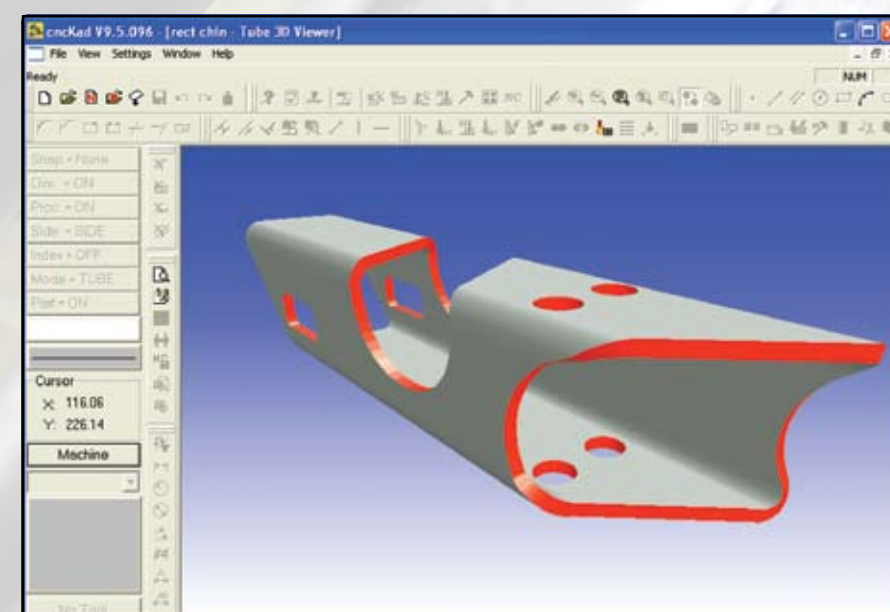
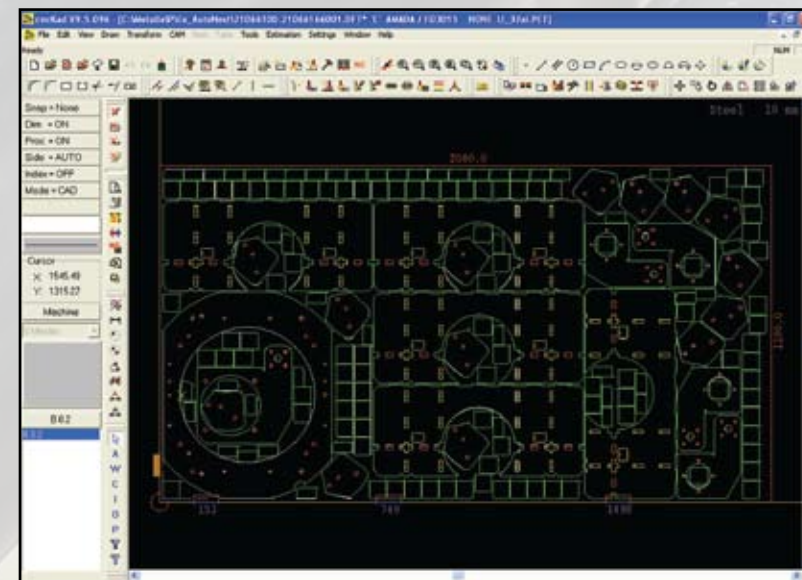
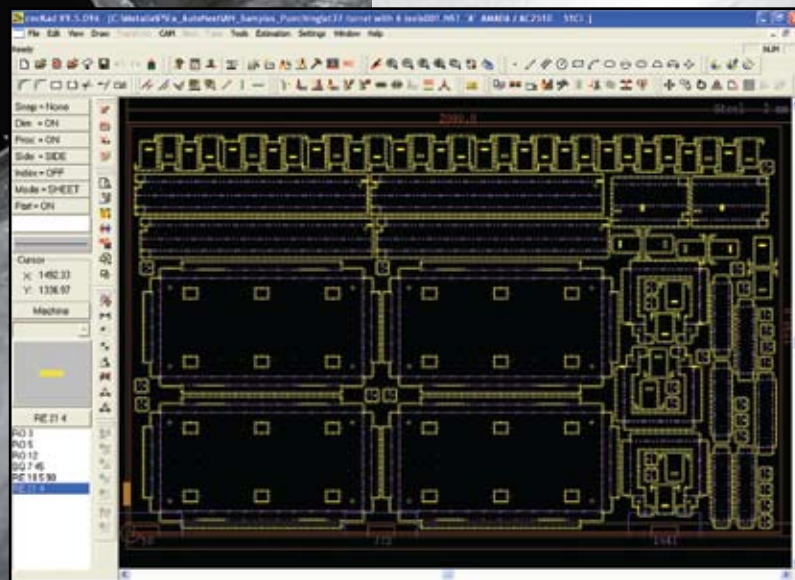
Metalix offers a full range of CAD/CAM capabilities for CNC Punch, Laser, Plasma, Flame and Combination machines, including support for sorting and stacking devices attached to your machine.

Advanced technology combines Design, Automatic and Manual Processing, Automatic Nesting, efficient NC Generation, Graphic Simulation and Machine Communication (DNC).

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 porting parts from one technology or machine type to another, such as 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 versatile methods for automatic and manual nesting 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 appropriate sheets.
- Multiple Sheet Solutions – nesting solutions can be generated on different sheet sizes, selected automatically for efficiency and the minimal number of sub-nests.
- True Shape or Rectangular Nesting – select the best strategy for faster solutions.
- Manual Nesting – user-interactive positioning of parts, dragging, rotating and mirroring, all with the click of a mouse.
- Grouping – automatic and manual grouping of parts to simplify nesting solutions.
- Nesting Reports – include solution details, such as overall efficiency, individual sheet usage and part arrangement on the sheets.

Advanced Automation Solutions

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

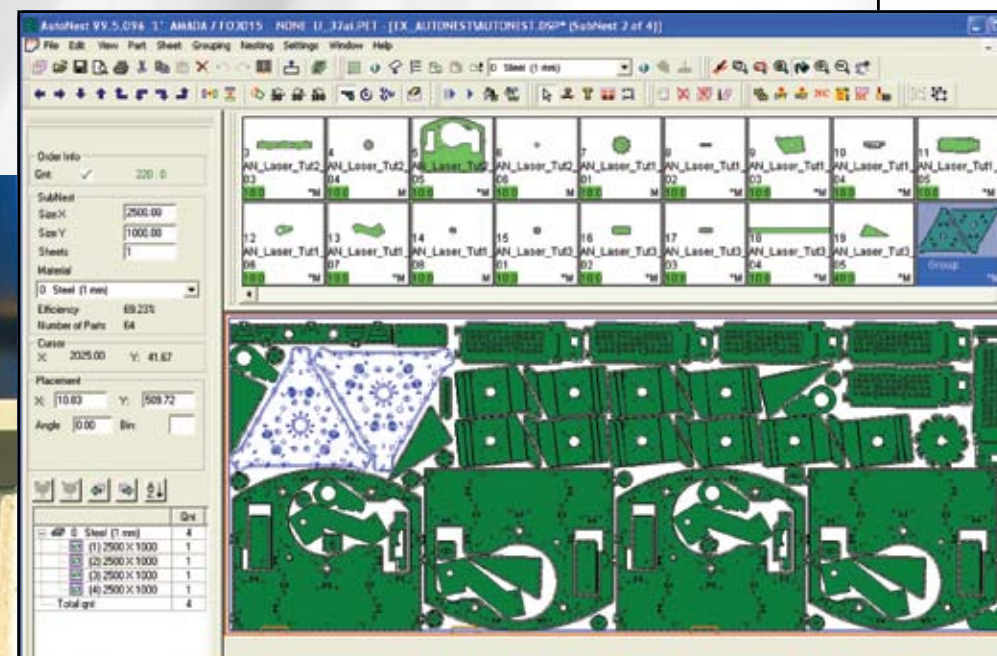
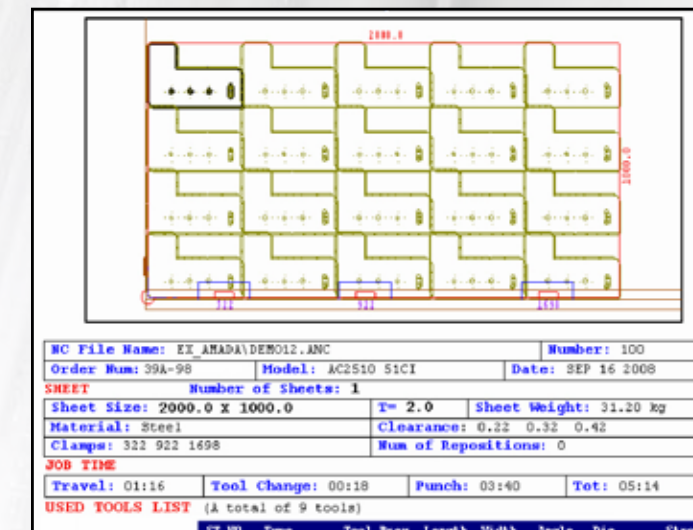
- Integrate **cncKad** with ERP/MRP systems.
- Develop automated scripts for standard actions, such as batch Import and Processing of parts.
- Leverage product information directly from part files.

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**.

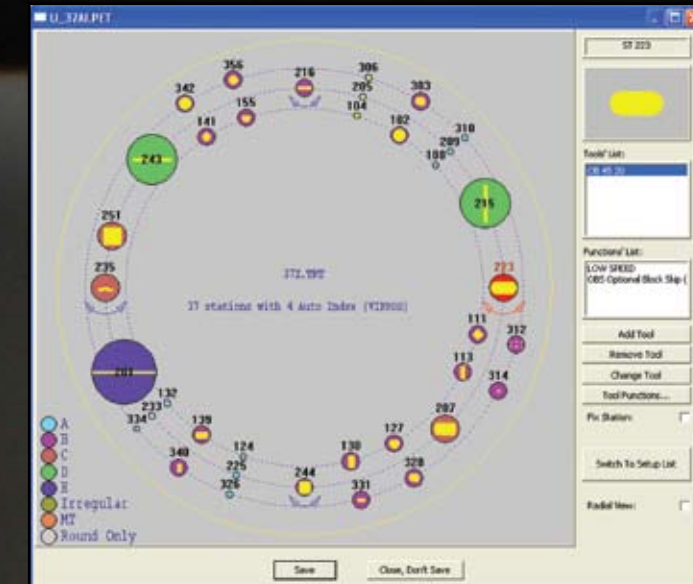
Parts can be transferred from SolidWorks®, Solid Edge®, Autodesk® Inventor®, Pro/ENGINEER® and Vertex® G4, using an on-line associative link, bypassing the need for intermediate files such as DXFs.



Advanced Punch Technologies

cncKad features these advanced technologies, which are fully automatic, yet can be easily controlled manually:

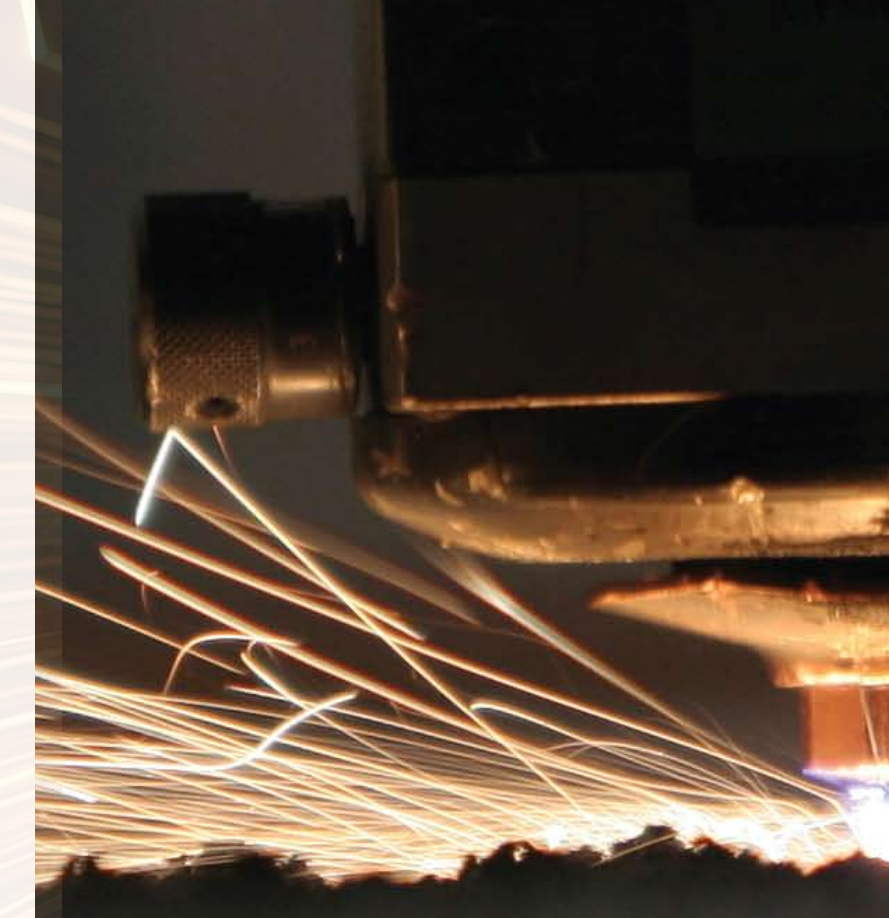
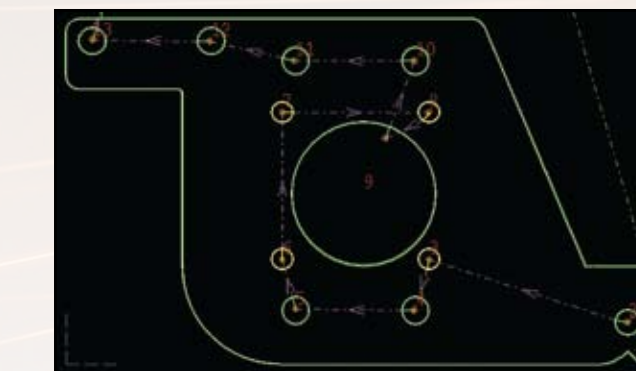
- Automatic Punching with Pre-Defined Shapes
- Wire and Micro Joint positioning
- Clamp Avoidance
- Easy to use Common Cuts
- Single Clamp Movement
- Full support for Wheel tools
- Tool Path Optimization
- Efficient strategies for tool usage



Advanced Cut Technologies

cncKad enables the full usage of your machine's capabilities:

- Automatic Cutting with Corner Treatment
- Rapid Tool-Path Crash Avoidance
- Tool-Path Optimization with Auto Entry Point
- Material-based Cutting Tables
- Vaporization and Marking Before Cutting options
- True-Type Font cutting and engraving
- Common Line cutting
- Cutting Direction (CW/CCW)



Entire Design-to-Production Cycle – cncKad is an integrated system covering the complete cycle required for Sheet Metal manufacturing:

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 supports:

- Auto-Punch
- Special Tools
- Auto-Indexing
- Automatic Reposition
- Common Cuts

Tube Cutting

cncKad supports Laser/Plasma/Flame machines equipped with a CNC Rotary Axis for tube processing, 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 Simulation enables easy editing of CNC programs, while graphically viewing the results on the processed sheet.

NC to Draft: Legacy NC files can be converted into drawings.

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 supports:

- Auto-Cut
- Contour Check and Correction
- Beam Width definition and Auto Compensation
- Corner Loops and Corner Slow Down
- Z axis control
- Open Contour Cutting

Post-Processing: NC Files Generation

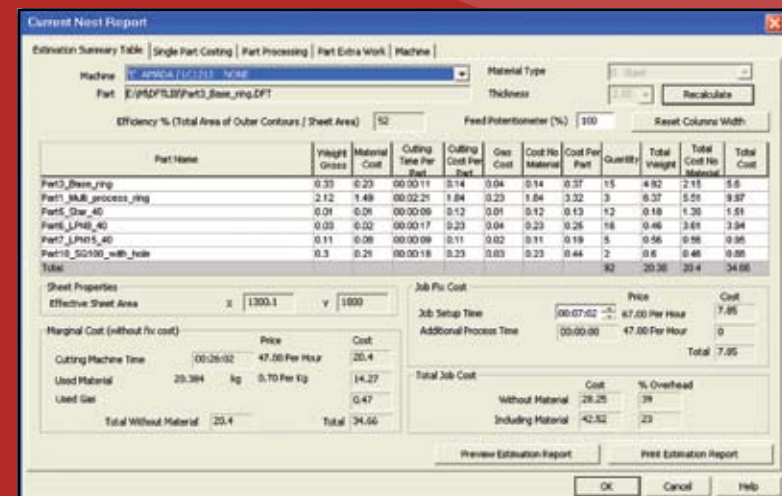
Advanced post-processors generate efficient programs, including Sub-routines (macros), Optimized Tool Path and Minimal Turret Rotation, with support for machine operations such as oiling, vacuum and ram-rate.

DNC

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

Data Reports

Detailed production reports for individual parts, Nesting Solutions and Costing Estimation, using fully customizable templates.



machine
CAD/CAM that speaks your language

Language Support

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

Support for additional languages can be easily added.

Machine Support

cncKad supports a wide range of machines including:

AMADA, AFM, AJAN, AMC, AMS, AS, BALIU, BAW FEMCOR, BAYKAL, BELOTTI, BERHENS, BERMAQ, BOSCHERT, BYSTRONIC, CINCINNATI, CORTINA, CR, DAEWOO, DANOBAT, DATONG, DEHUA, DIMECO, DMG, DONGIL FATEC, DURMAZLAR, EAGLE, EDEL, EUROMAC, FARLEY LASER-LAB, FINNPOWER, FLOW, FUJIKIKO, GASPARINI, GOLDSTAR, HACO, HAIBO, HANKWANG, HAN'S, HINDUSTAN HYDRAULICS, HUILI, INDUMASH, JIEMAI, JIN FANG YUAN, JIN QIU, KITAGAWA, KOIKE, KOMATSU, LASERWORK, LFK, LINATROL, LVD, MAZAK, MESSER GRIESHEIM, MICROSTEP, MITSUBISHI, MLI, MORI SEIKI, MURATEC, MVD-INAN, NEL, NIIGATA, NISSAN TANAKA, NISSHINBO, NTC, OMAX, ORBITAL ROBOTICS, PENTA CHUTIAN, PIVATIC, PRIMA, PROFILE600, PULLMAX, RAINER, RASKIN, RHODES PIERCE-ALL, ROLLSROYCE, SALVAGNINI, SAMSUNG, SATO, SCHIAVI-FIM, SHIBUYA, SIMASV, SMTCL PRIMA, SNK, SOITAAB, SPS, STRIPPIT, STRIPPIT HD, SUNRISE, TAILIFT, TECHNOLOGY ITALIANA, TK-TRUMP, TOSHIBA, TRUMPF, UNITY PRIMA, VNITEP, WHITNEY, XUZHOU, YANGLI, YAWEI, ZINSER.

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

