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.


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, offering versatile methods for automatic and manual nesting to achieve the best possible nesting solutions.

AutoNest features:
• 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 Nest – parts from different materials are nested automatically and nested on appropriate sheets.
• True Shape or Rectangular Nesting – select the best strategy for faster solutions.
• Nested Reports – include solution details, such as overall efficiency, individual sheet usage and part arrangement on the sheets.

Advanced Automation Solutions

cncKad offers simple, user-friendly and complete solutions for your sheet metal manufacturing operations. Advanced Automation Solutions include:
• Integrate cncKad with ERP/MRP systems.
• Create automated scripts for standard actions, such as batch Import and Processing of parts.
• Leverage product information directly through AutoNest. 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®, SolidEdge®, Autodesk® Inventor®, Pro/ENGINEER® and Vetran® Ge, 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
• Visualization and Making Before Cutting options
• True-Type Font cutting and engraving
• Common Line cutting
• Cutting Direction (CW/CCW)

Business card
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 2D drafting tools, cncKad supports special sheet metal drafting aids and Geometry Validation. Translation to a fully 3D environment and support of all Autodesk formats.

**Punch Technology**
The Punching module supports:
- Auto Punch
- Special Tools
- Auto-Indexing
- Automatic Compensation
- Common Cuts

**Tube Cutting**
cncKad supports Laser/Plasma/Fiber 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 graphical simulation of any CNC program, including legacy programs previously written on the machine.
- The simulation makes it easy editing CNC programs, while graphically viewing the results on the processed sheet.
- NC to Draughting: NC files can be converted into drawings.

**Import**
cncKad has an efficient import feature for CNC, DXF, IGES, CAD, and other common file formats.
- Includes support for restricting based files and Layering.

**Language Support**

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Support for additional languages can be easily added.

**Machine Support**
cncKad supports a wide range of machine including:
- ANDA, ARJ, AZAN, AVE, ASI, ASUL, ASAMA, BEKON, BEGI, BERM, BOSCHERT, BOTTARO, BROWN, COTTON, CR, CORTINA, DAEWOO, DANOBAT, DATONG, DEHUA, DIMECO, DMG, DONGIL, DURMAZLAR, EAGLE, EDEL, EUROMAC, FARLEY LASER-LAB, FINNPOWER, FLOW, FUJIKIKO, GASPARINI, GOLDSTAR, HACO, HAI, HB, HM, HINDUSTAN HYDRAULICS, HUILL, INDOMACH, JIXU, JIN FANG YUAN, JIN QIU, KITAGAWA, KOIKE, KOMATSU, LASERWORK, LFK, LINATROL, LVD, MAZAK, MESSER GRIESHEIM, MICROSTEP, MITSUBISHI, MLI, MORI SEIKU, MORI SEIKU, MURATEC, MURATEC, NEL, NISSAN, NISSINBO, NOL, NTC, OMAX, ORBITAL ROBOTICS, PENTA CHUTIAN, PIVATIC, PRIMA, PROFILE600, PULLMAX, SAMSUNG, SCHAIB, SHERWIN, SHIBUYA, SIMASV, SMTCL PRIMA, SNK, SOITAAB, SPS, STRIPPIT, STRIPPIT HD, SUNRISE, TAIWAN, TECHNOLOGY ITALIANA, TOLMA, TK-TURN, TOP-SHA, TRUMPF, UNITY PRIMA UNIPRIMA, UNITY, YUEXIU, YUEXIU, YUEXIU, ZENAR.

**Data Reports**
Detailed distribution reports for individual parts, Nesting Solutions and Costing Estimation, using fully customizable templates.

**Cutting Technology**
The Cutting module supports:
- Auto-Cut
- Contour Check and Correction
- Beam Width Definition and Auto Compensation
- Beam Loop and Beam Slow Down
- 2 axis control
- Auto-Contour Cutting

**Post-Processing: NC Files Generation**
Advanced post-processor generates efficient programs, including automatic optimizes, Optimized Tool Path and Manual Tumble Rotation, with support for machine operations such as oiling, vacuum and extraction.

**DNC**
Easy communication with your machine allowing for uploading and downloading of NC files, with support for traces testing and for extracting NC files from the machine controls.

For more information:

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