Advanced Robotic Technology
TOOLSHOP
TOOLPATHING & NESTING SOFTWARE

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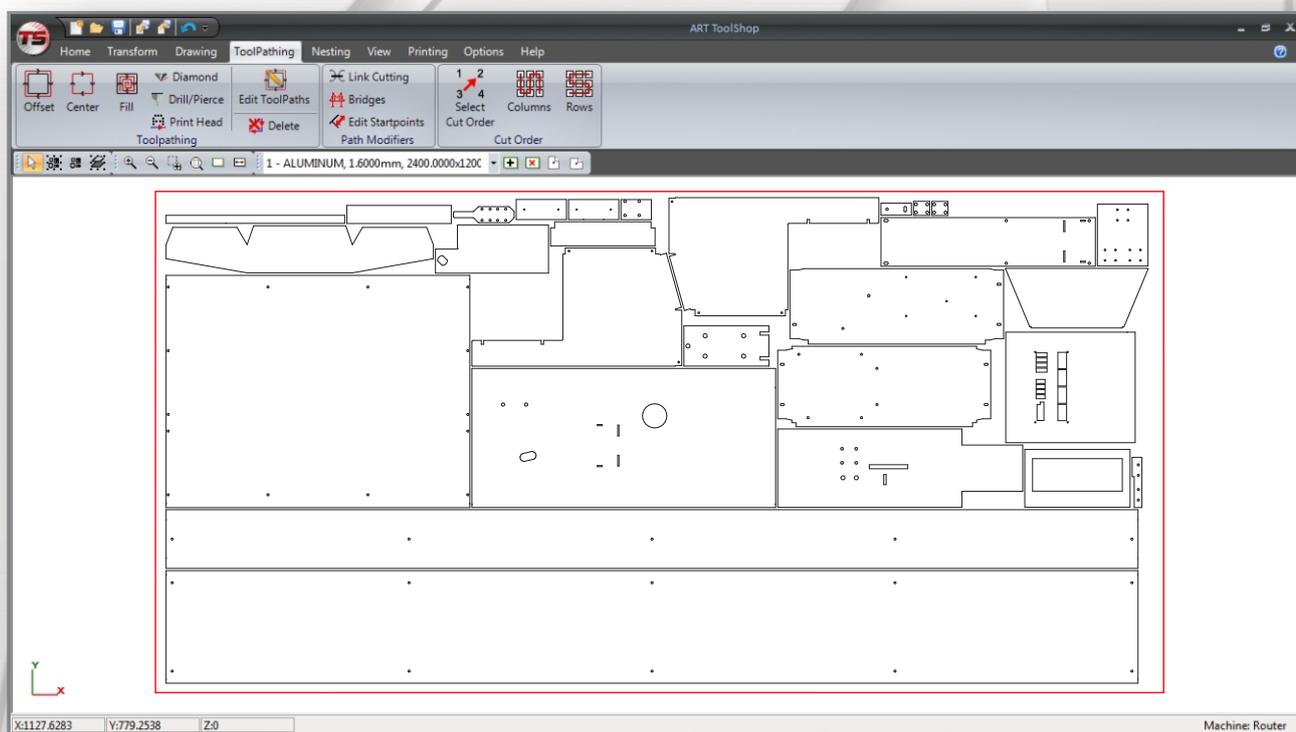
ART Advanced Robotic Technology
THE TRUSTED NAME IN CNC TECHNOLOGY

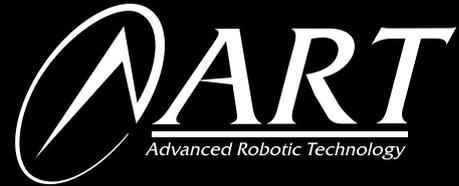# TOOLSHOP

TOOLPATHING AND NESTING SOFTWARE.

Production Oriented CAD/CAM Software
Fast Automatic Job Configuration for
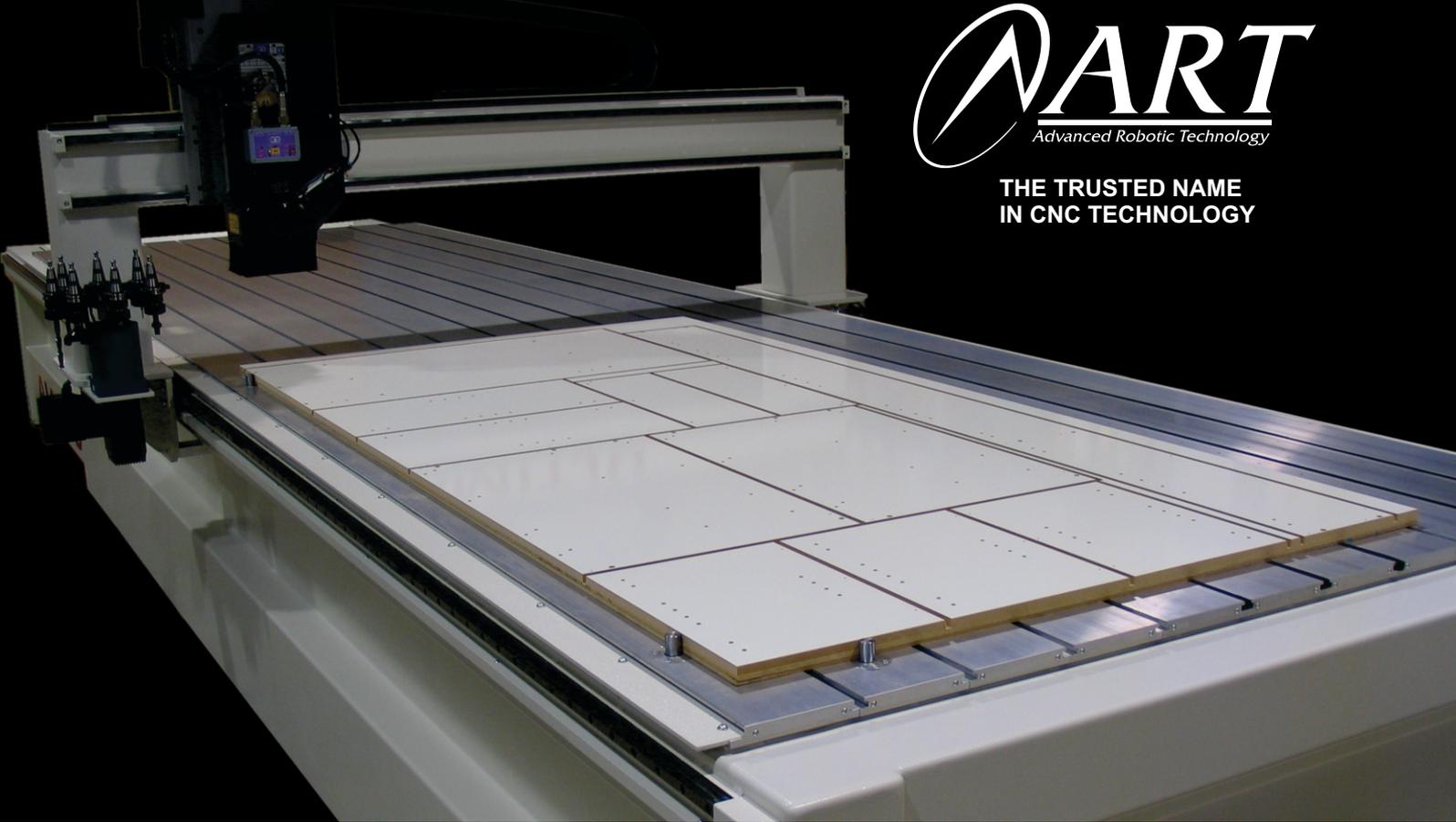# Nesting Based CNC Cutting Machines

IF PRODUCTIVITY IS YOUR GOAL, LET ART SHOW YOU HOW TO ACHIEVE IT.

ART TOOLSHOP ENABLES YOU TO MAKE THE MOST OF YOUR FLATBED CNC MACHINES. THE LATEST ALGORITHMS COMBINED WITH PRACTICAL KNOWLEDGE AND EXPERIENCE BRINGS PRODUCTIVITY AND EFFICIENCY TO THE MANUFACTURING WORKPLACE. TOOLSHOP IS THE VITAL LINK THAT QUICKLY TURNS RAW DATA INTO REAL PRODUCT. BUILT IN VERSATILITY MEANS THAT YOU CAN CONTROL CNC MILLS, ROUTERS, PLASMA TABLES, LASERS, WATERJETS AND MORE FROM A SINGLE PROGRAM. THROUGH ART TOOLSHOP YOU CAN IMPORT CUTTING LISTS, NEST PARTS, TRACK MATERIALS, CREATE ESTIMATES AND PRODUCE QUALITY CNC CODE WITH SPEED AND ACCURACY.
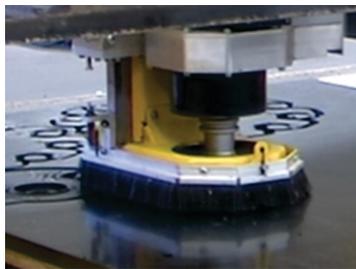
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Plasma profile cutting:
- Supports High-Definition
- Hypertherm True Hole
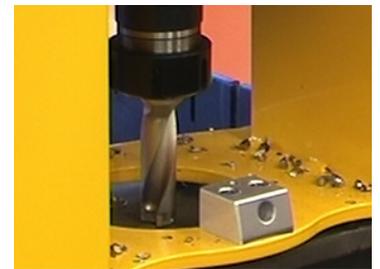- Full material library

Milling & Routing:
- Offset cutting
- Centreline engraving
- Pocketing & fills

Steered tools:
- Straight knives and saws
- Bevel knives
- Wheel cutters

Drilling & tapping:
- Drilling with pecking
- Rigid tapping
- Thread milling

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THIS IS WHAT WE PUT IN.

As both machine manufacturers and software developers, ART are in a unique position to understand the requirements of modern nested based CNC cutting machines. We take pride in creating software that is easy to use, and yet capable of producing great increases in productivity. Advanced algorithms enable fast automated processing of multiple parts in a production environment while keeping all of the hands on manual tools for customising a job to your specific requirements. The easy to use interface is strongly supported by advanced technical capabilities of the underlying nesting and toolpathing engine. Large friendly menus make locating necessary functions easy. Advanced use of user created templates means that the more that ToolShop is used, the more it understands the machining processes required in for each supported machine.

ART uses the latest technology in software development tools such as Microsoft .NET Framework and DirectX 3D Graphical Environment to give 100% compatible software that runs efficiently under Windows 7, Vista and XP.

At ART, we are driven to do better every day.
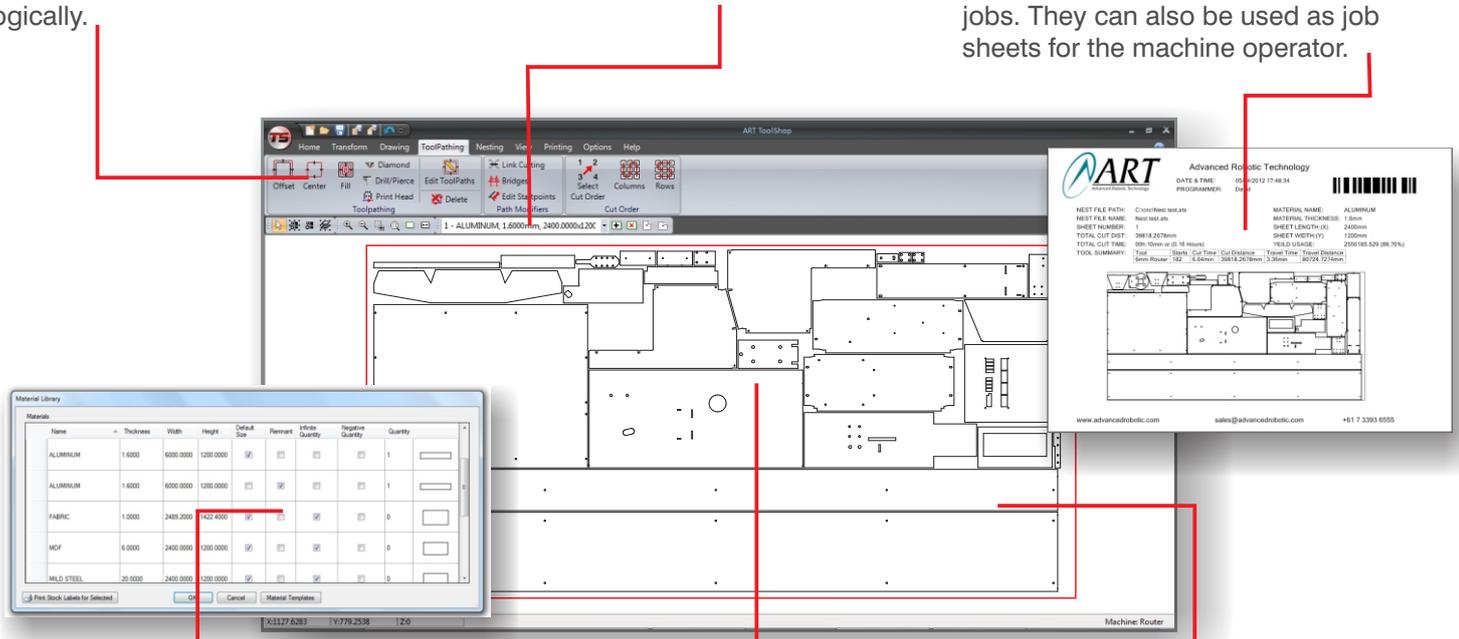
Large friendly tabbed menus.
ART ToolShop uses large graphical buttons for all commonly used functions. Topical tabs group associated functions together logically.

Multiple sheets per job.
Multiple sheets, including different materials, can be added in the one job either manually or automatically during Automatic Tool Path operations

Report and label printing.
Print Nesting Reports detailing material and tool assignments and usage, cut time estimates, job file names and more. Reports can assist with quoting jobs. They can also be used as job sheets for the machine operator.

Material library.
ToolShop tracks material usage as you produce nested nc files. It can tell you when you need to re-order more material. It can also track sheet offcuts and add them back into stock for later use. Labels can be printed out for tracking these remnants.

3D graphical display.
The job can be rotated to any angle to view multiple pass tool paths, view bridges and ramped leadins as they will be cut. All segments that will be output to the cnc for cutting are visible from any angle.

Easy navigation.
Zoom in and out to anywhere in the sheet using the mouse scroll wheel. Pan up, down and sideways using Ctrl and Alt. Orbit the camera in 3D using the middle mouse button.

Current machine displayed.
ToolShop supports many different CNC machines. The current machine is always displayed at the bottom of the screen. Supports CNC routers, plasma cutters, waterjets, lasers and more
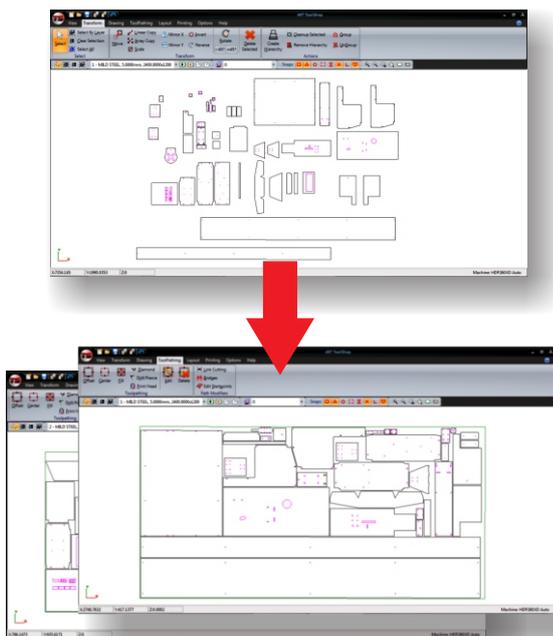
Built in CAD drawing tools.
Draw directly in the nesting window using native tools, or you can use the built-in traditional CAD style drawing window. You can also import files from any CAD program.
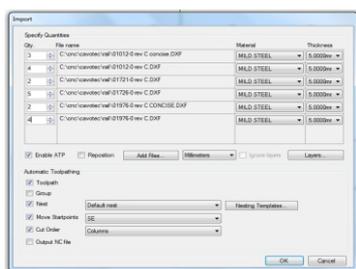
MRP/ERP Batch processing.
Import spreadsheet lists with file names, quantities and other custom data. These parts will then be imported, nested, toolpathed and fully processed automatically with a single click.

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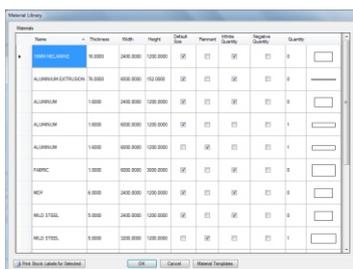# FROM RANDOM PARTS TO READY TO CUT FILES

TOOLSHOP CAN PERFORM ALL OF THESE STEPS AUTOMATICALLY IN A FEW SECONDS!

- IMPORT PARTS FROM DXF FILES
- CLEAN UP/REPAIR DRAWINGS
- SEPARATE INTO LAYERS
- SORT INSIDE/OUTSIDE SHAPES
- APPLY TOOLPATHS BY LAYER
- NEST ONTO APPROPRIATE MATERIAL
- REMOVE SHEET QUANTITIES FROM STOCK
- ADD SHEET REMNANTS BACK TO STOCK
- MOVE START POINTS DIRECTIONS
- RE-ORDER CUT SEQUENCE
- PRINT LABELS FOR EACH PART
- CALCULATE CUT TIMES
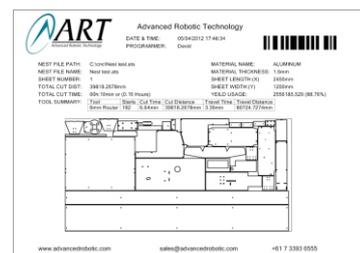- PRINT NEST REPORT
- OUTPUT CNC FILE READY FOR CUTTING

Advanced file import:
- Import multiple files
- Specify quantities & material
- Assign custom processes

Material Library:
- Track material quantities
- Multiple sizes per material
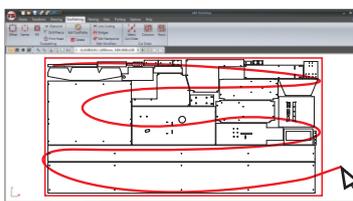- Remnants automatically added

Nest reports:
- Material and tooling usage
- NC file name and preview
- Cut time calculations

Part label printing:
- Customised label design
- Customer ID, Part no.
- Barcodes, Instructions

Easy cut sequencing:
- Fast drag-line ordering
- Order by columns
- Order by row