SigmaNEST® The World's Leading CAD/CAM Nesting System

Powered by the industry's newest and most advanced CAD/CAM nesting engine, SigmaNEST drives nearly every type of cutting, punching, or bending machine. SigmaNEST saves you valuable materials and manpower while never sacrificing quality. Integration with the most popular CAD and NC programs, a simple interface and the best customer support in the business, are all reasons why SigmaNEST is the industry leader with over 16,000 systems installed worldwide.
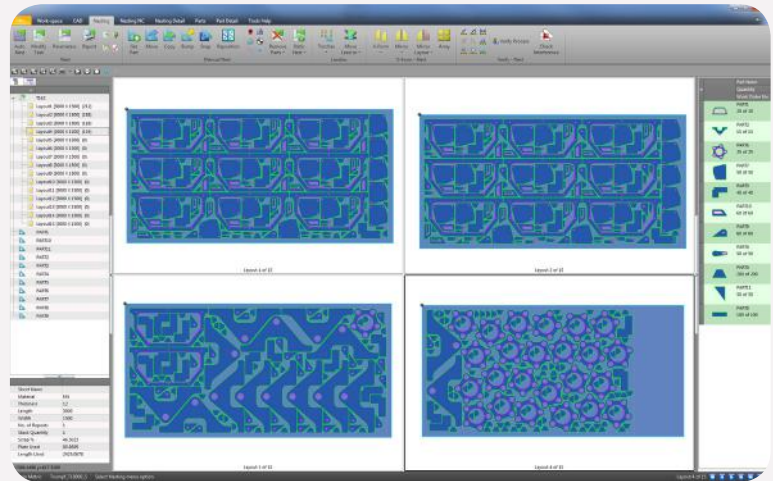
Machines:
Total Operating Flexibility

- Laser
- Plasma
- Waterjet
- Oxyfuel
- Punch
- Combo
- Tube / Pipe
- Press Brake
- Router
- Knife

Material Utilization:
Waste Less, Save More

- Best yield from raw materials with minimum waste
- Consume less material for same production output, lowering cost per part
- Material Inventory automatically tracks heat numbers on jobs
- Part-in-part nesting reduces rectangular cost per part
- Selective material grain consideration for repeatability and accuracy
- Nesting for complex machines: under and/or around clamps, repositioning, bevel cutting, multiple processes
- Remnant Nesting captures scrap to nest with Best Sheet analysis for increased yield

Motion Optimization:
Reduce Cycle Time

- Optimal tool path sequencing for machine cycle-time reduction
- Common-line and continuous cutting
- Cut direction and sequence
- Multi-head programming
- Sharp corner navigation with optional time-saving exact stop motion
- Head down rapid movement with automatic tip-up part avoidance
- Motion planning for tool life extension, part quality
- Automatic Pierce Reduction

SigmaNEST Version 10 represents the industry's most advanced CAD/CAM Nesting Engine

Manpower Efficiency:
Quick to Learn, Easy to Use

- One software platform for multiple machine types/manufacturers
- Transfer programs from one machine to another in seconds
- Built in SigmaNEST CAD
- Customizable detailed reports
- Direct 3D CAD assembly/part import
- Automatically sort by material/thickness, nest parts, apply tool path, and post programs with one click

Management:
Intelligent Data Integration

- Work Order Management and Job Tracking
- Inventory Management & Stock Control
- Part Quoting Cost Estimation Module
- MRP/ERP Systems supported
- SimTrans Enterprise MRP/ERP integration, SimTrans PDM integration
- Automation solutions
- Management Consulting Services
- Expansion Packs
- SigmaTEK Services Group:
- Automation for business process improvement

SigmaTEK Products

SigmaNEST® AutoNEST™

Easy-to-use, powerful rectangular and manual nesting NC programming solution

SigmaNEST® TrueShape™

Builds from the AutoNEST core functionality and adds more dynamic, part-in-part nesting for reducing or eliminating scrap

SigmaNEST® Techno™

Optimizes machine through-put with advanced nesting and NC programming, including common-line, bridge, and chain cutting
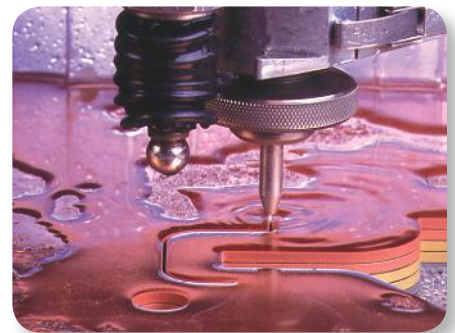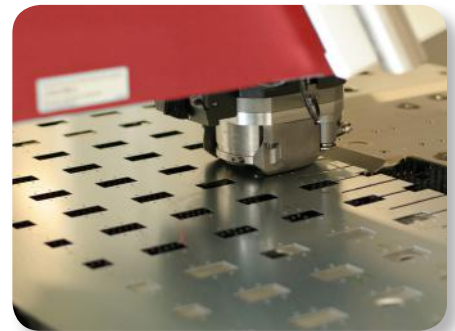
SigmaNEST® Maximizer™

Combines the power of TrueShape nesting with the operational efficiencies of job tracking and inventory control solutions

SigmaNEST® PowerPack™

Combines advanced nesting and NC programming with greater operational efficiencies of job tracking and inventory control

SigmaNEST® Punch Basic™

Entry-level sheet metal software for single part nesting with punch machines

SigmaNEST® Punch Techno™

Maximizes material efficiency and machine through-put using advanced nesting functionality

SigmaNEST® Punch PowerPack™

Comprehensive sheet metal software for automatic nesting for punch machines

SigmaMRP™

Manufacturing Resource Planning System developed especially for manufacturing

SigmaTUBE®

Complete tube and pipe cutting software that operates seamlessly within SOLIDWORKS

SigmaBEND™

Utilizes full 3D simulation to maximize the speed, quality, and flexibility of bending processes

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