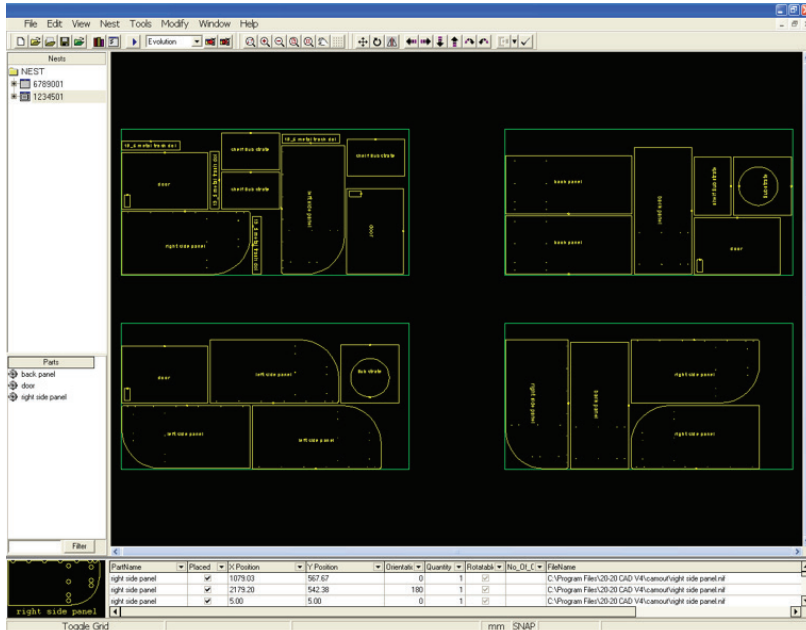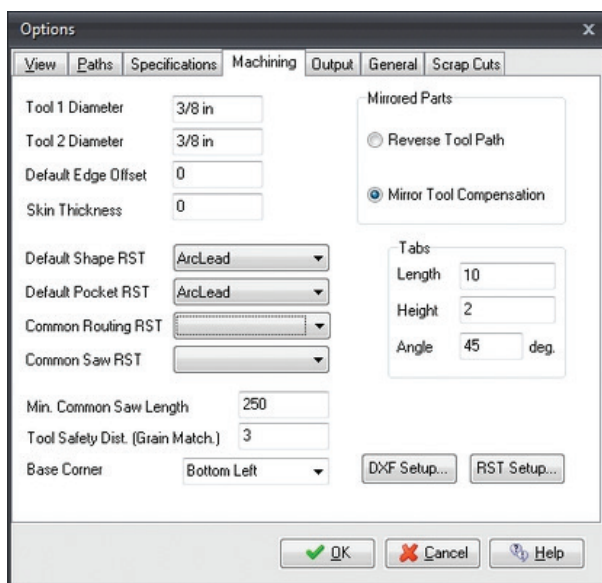# 2020 Nest

2020 Nest, our true shape nesting solution, automatically places parts on sheet stock to optimize material yield. 2020 Nest is capable of handling jobs of all sizes—from small orders including only a few parts to enterprise-level quantities involving thousands of parts and unique materials.

Advanced machining features

The embedded true shape nesting solution supports advanced features, including onion-skinning, common-line cutting, tool path optimization and nesting small parts in cavities of larger parts.

Benefits

Reduce waste
Automatically nest parts on sheets to optimize material usage, reduce waste and save costs.

Save time, reduce errors
Automatically create optimized patterns without manual intervention or time-intensive pattern analysis.

Gain production agility
Easily move production between machines when you generate nest patterns and the resulting CNC code for any machine type.
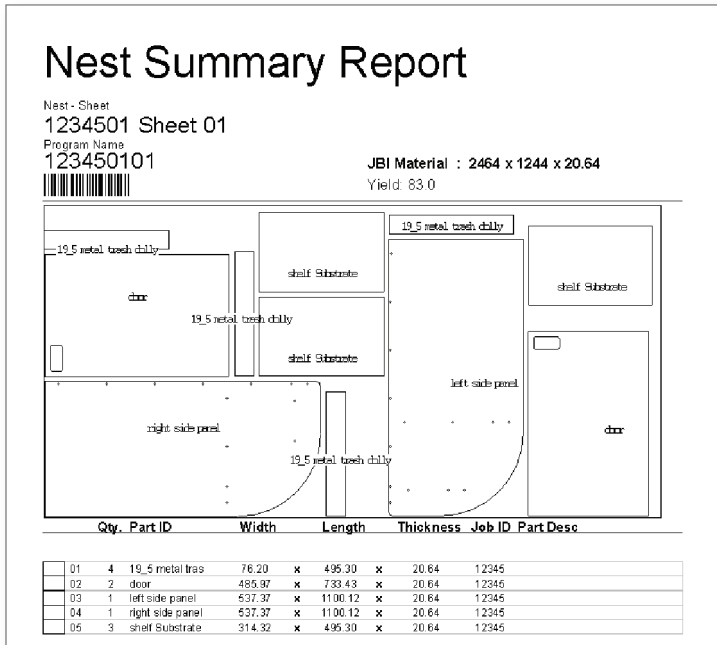
Enhance product innovation
Enhance the product innovation process by automating machine integration for both standard and custom products.

2020 Insight integration
Integrate with 2020 Insight to optimize parts and sub-assemblies for entire production orders, even when parts should be cut from multiple materials and on multiple machines.

Standard reporting

2020 Nest includes standard reports for material requirements lists and labeling, including Nest Summary Report, Parts Summary Report, Material Usage Report and Part Labels.

Nest Summary Report

Nest - Sheet
1234501 Sheet 01
Program Name
123450101

JBI Material : 2464 x 1244 x 20.64
Yield: 83.0

Qty.	Part ID	Width		Length		Thickness	Job ID	Part Desc
01	4	19_5 metal tras	76.20	x	495.30	x	20.64	12345
02	2	door	485.97	x	733.43	x	20.64	12345
03	1	left side panel	537.37	x	1100.12	x	20.64	12345
04	1	right side panel	537.37	x	1100.12	x	20.64	12345
05	3	shelf Substrate	314.32	x	495.30	x	20.64	12345

Production agility

2020 Nest supports multiple CNC machine outputs so that the same nest can be posted to all machine types. This flexibility allows the plant to adapt quickly when it becomes necessary to move production to another machine.

Output CNC code to all machine brands, including:

Accusystem	Busellato	Koch	Northwood	Shoda
Alberti	CMS	Komo	Onsrud	Thermwood
Anderson	Heian	Morbidelli	SCM	Weeke
Biesse	IMA			

Features

Automatically optimize material
Generate optimized patterns while considering grain information, yield goals, material specifications and machine layouts.

Make modifications as needed
Use the system-generated nests, or manually place parts, scrap cuts, and crop cuts in a user-friendly interface.

Manage scrap cuts
Define how the system handles scrap material in the layout—set minimum scrap area, limit scrap cuts or limit the number of per-sheet scrap cuts.

Generate reports
Includes standard, yet customizable reports for material requirements lists and labeling.

Input from standard sources
Import standard file types into 2020 Nest: DXF, MPR, FXM, XXL, APT, CID and more.

Support for all controllers
Supports proprietary machine controllers like Weeke, Biesse and SCM, as well as generic machine controllers like Fanuc, Siemens, Allen-Bradley and more.

TF: +1.888.216.1844 **T:** +1.919.319.0888 **F:** +1.919.319.0884 **E:** mfg.sales@2020spaces.com   **2020spaces.com**

2020

2020 Headquarters

20-20 Technologies, Inc.
400 Armand-Frappier Blvd.
Suite 2020
Laval, QC Canada H7V 4B4

Worldwide Offices

Americas
Laval, QC, Canada
Cary, NC, USA
Foxboro, MA, USA
Grand Rapids, MI, USA
São Paulo, Brazil

Europe
Wiener Neustadt, Austria
Mouans-Sartoux, France
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Asia-Pacific
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