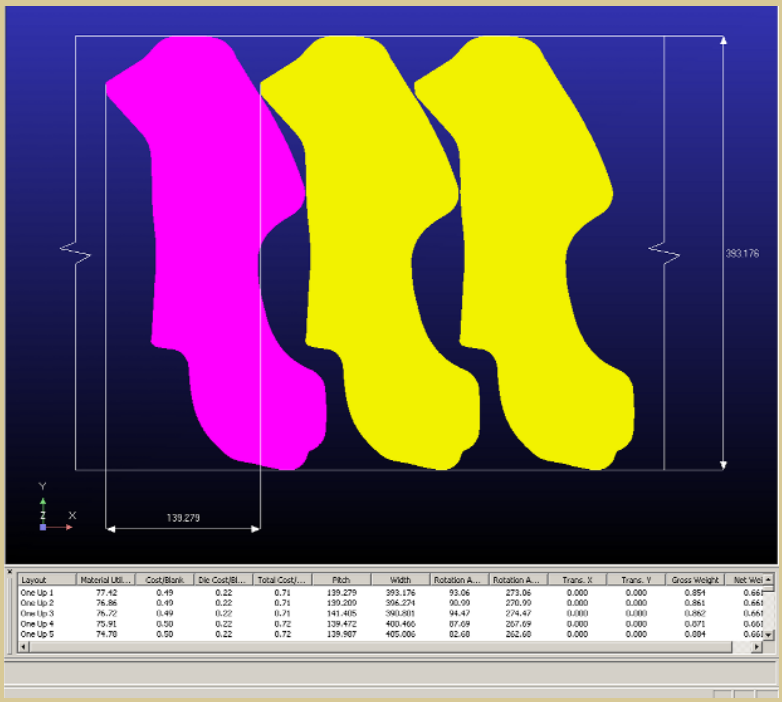
BLANKNEST®

BLANK NESTING SOFTWARE

A FORMINGSUITE® MODULE

- Automatically nests for best material utilization for one-up and two-up layouts
- Quickly and accurately estimates your material requirements
- Evaluates multiple nesting scenarios quickly
- Accurately determines total cost per blank
- Determines the material utilization for many types of cut-off dies



1 Up Blank Nesting Layout

BLANKNEST DETERMINES OPTIMAL MATERIAL USAGE THROUGH GEOMETRIC NESTING OF BLANKS

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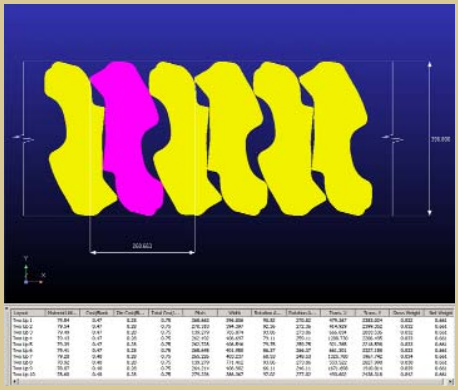
BLANKNEST

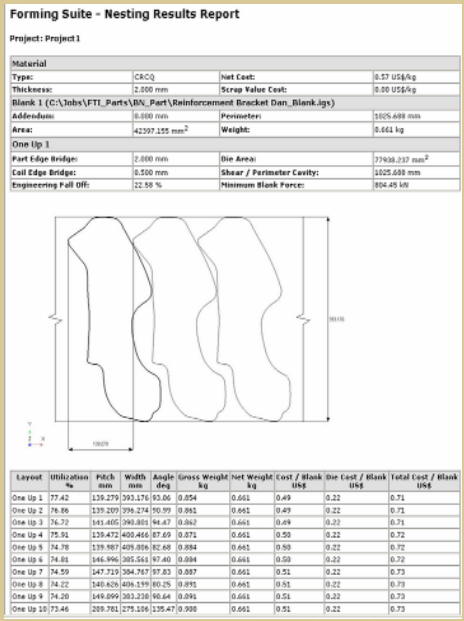
BLANKNEST is powerful nesting software specifically designed for nesting sheet metal blanks on coils. It automatically calculates the best nesting layout to optimize material utilization based on coil width and pitch contraints.



2 Up Nesting

FEATURES

- Multiple input formats - Load IGES, DXF (lines and arcs only)
- Flexible setup - Apply optional constraints to the pitch, coil width, blank rotation angle to match available equipment and product requirements
- Multiple Nesting layouts - Create fully optimized one up, two up, and standard blank shape nesting layouts
- Multi-Part Nesting - Nest two different parts or mirrored parts that are manufactured together
- Cost analysis - Accurate blank cost is calculated from inputted data and material utilization
- Interactive results - Sort results in an interactive spread sheet display by material utilization, coil width, pitch, rotation angle and translation and then click on the desired result to view the alternative nesting layouts
- Exporting - The current nesting layout can be exported in IGES or DXF format for use in other applications
- Reports - Detailed reports showing the nesting layout and calculated results can be printed



Forming Suite - Nesting Results Report

Project: Project1

Material			
Type:	CRCQ	Net Cost:	0.57 US$/kg
Thickness:	2.000 mm	Scrap Value Cost:	0.00 US$/kg
Blank 1 (C:\Jobs\FTI_Parts\BN_Part\Reinforcement Bracket Dan_Blank.igs)			
Addendum:	0.000 mm	Perimeter:	1025.688 mm
Area:	42397.155 mm²	Weight:	0.661 kg
One Up 1			
Part Edge Bridge:	2.000 mm	Die Area:	77938.237 mm²
Coil Edge Bridge:	0.500 mm	Shear / Perimeter Cavity:	1025.688 mm
Engineering Fall Off:	22.58 %	Minimum Blank Force:	804.45 kN

Layout	Utilization %	Pitch mm	Width mm	Angle deg	Gross Weight kg	Net Weight kg	Cost / Blank US$	Die Cost / Blank US$	Total Cost / Blank US$
One Up 1	77.42	139.279	393.176	93.06	0.854	0.661	0.49	0.22	0.71
One Up 2	76.86	139.209	396.274	90.99	0.861	0.661	0.49	0.22	0.71
One Up 3	76.72	141.405	390.801	94.47	0.862	0.661	0.49	0.22	0.71
One Up 4	75.91	139.472	400.466	87.69	0.871	0.661	0.50	0.22	0.72
One Up 5	74.78	139.987	405.806	82.68	0.884	0.661	0.50	0.22	0.72
One Up 6	74.81	146.996	385.561	97.40	0.884	0.661	0.50	0.22	0.72
One Up 7	74.59	147.719	384.767	97.83	0.887	0.661	0.51	0.22	0.73
One Up 8	74.22	140.626	406.159	80.25	0.891	0.661	0.51	0.22	0.73
One Up 9	74.20	149.899	382.238	90.64	0.891	0.661	0.51	0.22	0.73
One Up 10	73.46	289.781	275.106	135.47	0.900	0.661	0.51	0.22	0.73

HTML report

ABOUT FORMING TECHNOLOGIES Forming Technologies Incorporated (FTI) is the world's leading developer of computer aided engineering software for design and simulation of sheet metal forming. FTI has developed a suite of products to analyze product formability, die design, and process feasibility. For the past 19 years, FTI has provided the automotive OEM, Tier 1, Tier 2, Tier 3, aerospace, and appliance industries with innovative software and training solutions designed to reduce development time and material costs. These solutions have resulted in millions of dollars of savings for our customers. FTI and its global network of partners provide sales and technical support to customers in more than 30 countries.

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