

WHITE PAPER

SIX PRACTICAL STEPS TO INCREASE ENGINEERING CAPACITY

A Guide for Manufacturers / Sheet Metal Fabricators



Global Edge® Engineering Assistant



Your Engineering



Virtual Assistant

The Next Big Productivity Advancement in Engineering ...

www.ldcglobal.com



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Introducing the Next Big Productivity Advancement in Engineering

Global Edge® Engineering Assistant provides the next big engineering productivity advancement for sheet metal fabricators to significantly increase engineering capacity and reduce shop floor errors with six innovative and practical steps that include:

- 1) **Automated CAD Model Analysis**
- 2) **Manufacturability Testing (DFM)**
- 3) **Automated Sheet Metal Batch Unfolding**
- 4) **Automated Routing / Sales Quote Generation**
- 5) **Configuration / CAD Model Generation**
- 6) **Automated Shop Floor Data Preparation**

Check out the following YouTube video:



<https://youtu.be/H6gSqhrUwMY>

Global Edge® Engineering Assistant is your engineering virtual assistant that automates and eliminates labor intensive workflow tasks associated with quoting, engineering, and preparing information for the shop floor.

Your Engineering

Built Around



Virtual Assistant

Global Edge® Engineering Assistant is market tested software that has delivered significant results for manufacturing companies that range from small to Fortune 500.

COOPER Power Systems

*"The marketplace for 100% automatic program generation (folding machines & press brakes) does not exist. **Global Edge** was the "missing link" that allowed us to expand our manufacturing technologies and capabilities. This has resulted in a savings of 1,000's of man hours per year in our Engineering & Programming departments."*

Adam Popchock, Senior Manufacturing Engineer
Cooper Power Systems – Waukesha, Wisconsin

Step 1) Automated CAD Model Analysis

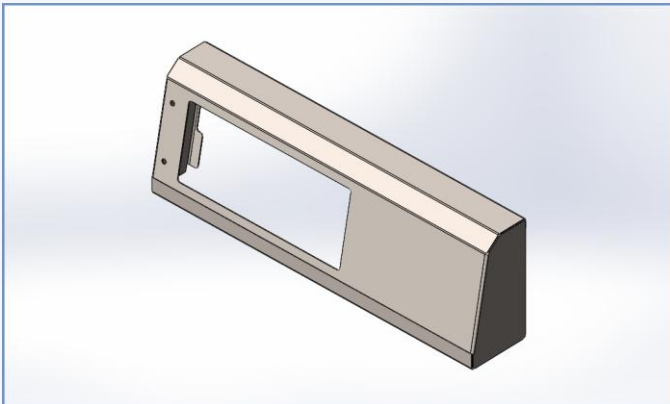
The first step to increase engineering productivity and generate accurate and timely information is the automated analysis of your 3D sheet metal CAD parts. This automated analysis imports and stores 48 CAD part parameters to help drive accurate and timely quoting, manufacturability testing, and automated bend program generation.

This process eliminates the manual measurement of your sheet metal CAD parts to help ensure the reduction and elimination of shop floor errors.

Global Edge® Engineering Assistant helps ensure that sheet metal parts can be successfully fabricated before they reach the shop floor.

⊕ CAD Model Analysis

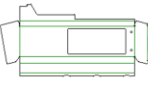
Global Edge® Engineering Assistant does a complete analysis of your 3D CAD sheet metal parts and stores these CAD Part Parameters in the **Global Edge** database to be utilized for quoting, manufacturability testing, and bend program generation.



CAD Part Parameter Report

Global Edge® Engineering Assistant imports and stores 48 CAD part parameters from your 3D CAD sheet metal parts which includes the following information:

Part Number	Description	UOM	Type	Cat.	Style	Mtl.
DEM-04-HOUSING	SHEET METAL HOUSING	EA	C	SHT	-	304-4
Setup Cost:	142.5000					
Process Cost:	24.7713					
Component Cost:	43.6343					
Rollup Cost:	210.9056					
	Material:	304-4-STAINLESS STEEL				
	Ship Weight:	17.4537				
	Ship Weight UOM:	lbs				
	Standard Cost:	210.9056				



CAD Part Parameters

Par. #	Parameter Name	Value	UOM	Par. #	Parameter Name	Value	UOM
1	Sheet Length:	0.000000	inches	25	Minimum Pem Gap:	1.200000	inches
2	Sheet Width:	0.000000	inches	26	Minimum Down Pem Gap:	1.800000	inches
3	Blank Length:	0.000000	inches	27	Minimum Emboss Gap:	0.000000	inches
4	Blank Width:	0.000000	inches	28	Minimum Down Emboss Gap:	0.000000	inches
5	Material thickness:	0.075000	inches	29	Minimum Louver Gap:	0.000000	inches
6	Perimeter:	133.048128	inches	30	Minimum Down Louver Gap:	0.000000	inches
7	Flat Length:	42.193245	inches	31	Min. Taper Bend Line Gap:	0.000000	inches
8	Flat Width:	19.699142	inches	32	Minimum Die Cutout:	0.000000	inches
9	Round Hole Count:	2.000000	-	33	Up Bend Count:	8.000000	-
10	Round Sizes Count:	1.000000	-	34	Internal Up Bends Count:	0.000000	-
11	Obround Hole Count:	0.000000	-	35	Maximum Up Bend:	5.296000	inches
12	Obround Sizes Count:	0.000000	-	36	Down Bend Count:	0.000000	-
13	Rectangular Hole Count:	0.000000	-	37	Internal Down Bends Count:	0.000000	-
14	Rectangular Sizes Count:	0.000000	-	38	Maximum Down Bend:	0.000000	inches
15	Other Hole Count:	1.000000	-	39	Fold Count:	8.000000	-
16	Other Sizes Count:	1.000000	-	40	Hem Count:	0.000000	-
17	Number of Cutouts:	3.000000	-	41	Extrude Count:	0.000000	-
18	Cutout Perimeter:	48.355855	inches	42	Bend Radius:	0.120000	inches
19	Minimum Bend Length:	8.451000	inches	43	Cutting Method:	Laser	-
20	Maximum Bend Length:	32.210000	inches	44	Cutter Ref. Number:	-	-
21	Minimum Bend Angle:	45.000000	degrees	45	Certified Material:	No	-
22	Maximum Bend Angle:	90.000000	degrees	46	Material:	304-4	-
23	Minimum Flange Width:	0.927000	inches	47	Cutout Distance:	18.055118	inches
24	Maximum Flange Width:	5.296000	inches	48	Part Distance:	30.946193	inches

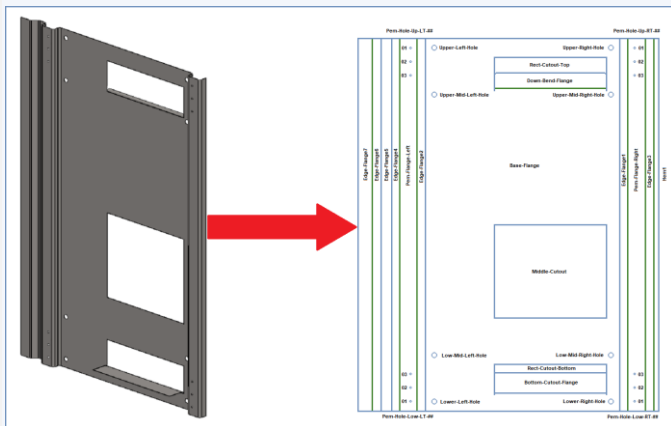
⊕ CAD Part Parameters Analyzed & Stored

- Sheet / Blank / Flat Length & Width
- Material, Material Thickness & Bend Radius
- Round / Obround Hole Sizes / Counts
- Rectangular Hole Sizes / Counts
- Other Hole Sizes / Counts
- Total Number of Cutouts
- Total Cutout Perimeter
- Minimum / Maximum Bend Length
- Minimum / Maximum Bend Angle
- Minimum / Maximum Flange Width
- Minimum Pem / Down Pem Gap
- Minimum Emboss / Down Emboss Gap
- Minimum Louver / Down Louver Gap
- Up / Internal Up Bends
- Down / Internal Down Bends
- Fold / Hem / Extrude Counts

Step 2) Manufacturability Testing (Design For Manufacturing)

The second automated step provided by **Global Edge® Engineering Assistant** is the ability to perform manufacturability tests on your sheet metal parts to determine if they can be successfully fabricated before reaching the shop floor to eliminate rework.

Manufacturability Testing is made possible by comparing the CAD part parameters with bend processes that are defined based on the capabilities and parameters of your bending machine tools.



Manufacturability Testing Results

The following is a sample of the Manufacturability Testing results performed by the **Global Edge® Engineering Assistant**:

Manufacturability Test Results									
Bend Process #:	16	Bottom Bend, SS, 304-4, 0.075, Radius - 0.120	DEM-04-HOUSING	SHEET METAL HOUSING					
Material Code:	304-4	Pass	Extend #:	1	46	Material:	304-4		
Material Thickness:	0.075000	Pass	Linear UOM:	inches	5	Material thickness:	0.075000	inches	
Minimum Thickness:	0.073000		Maximum Thickness:	0.077000					
Upper Tool Set:	2		Upper Part #:	BIU-817					
Lower Tool Set:	7		Lower Part #:	OZU-318					
Inside 90 Radius:	0.120000	Pass	Radius Tol:	0.010000	42	Bend Radius:	0.120000	inches	
K Factor 90:	0.445000		Bend Allowance 90:	0.008000					
Gage Allowance 90:	0.003000		Tons Per Foot:	20.000000					
Minimum Flat Length:	6.000000	Pass	Max. Flat Len:	96.000000	7	Flat Length:	42.193245	inches	
Minimum Flat Width:	4.000000	Pass	Max. Fl. Width:	60.000000	8	Flat Width:	19.699142	inches	
Maximum Tonnage:	80.000000								
Maximum Part Weight:	50.000000		Mass UOM:	lbs					
Min. Bend Length:	0.750000	Pass			19	Minimum Bend Length:	8.451000	inches	
Max. Bend Length:	96.000000	Pass			20	Maximum Bend Length:	32.210000	inches	
Minimum Bend Angle:	39.000000	Pass			21	Minimum Bend Angle:	45.000000	degrees	
Maximum Bend Angle:	180.000000	Pass			22	Maximum Bend Angle:	90.000000	degrees	
Min. Flange Width:	1.200000	Fail			307	Minimum Flange Width:	0.927000	inches	
Max. Flange Width:	24.000000	Pass			24	Maximum Flange Width:	5.296000	inches	
Maximum Up Bend:	24.000000	Pass			35	Maximum Up Bend:	5.296000	-	
Maximum Down Bend:	6.000000	N/A			38	Maximum Down Bend:	0.000000	-	

Manufacturability Testing Error Codes

The following is a list of the Manufacturability Testing Error Codes the **Global Edge® Engineering Assistant** software will detect as the manufacturability test is performed:

Code	Manufacturability Error Codes
101	Material Not Defined in Part
102	Material Unit of Measure Missing from Part
103	Part Less Than Minimum Material Thickness
104	Part Exceeds Maximum Material Thickness
201	Part Exceeds Maximum Part Weight
202	Part Exceeds Maximum Allowable Bend Tonnage
203	Part Exceeds Acceptable Weight
301	Part Less Than Minimum Flat Length
302	Part Exceeds Maximum Flat Length
303	Part Less Than Minimum Flat Width
304	Part Exceeds Maximum Flat Width
305	Part Exceeds Maximum Bend Length
306	Part Shortest Bend Length Less Than Minimum Bend Length
307	Part Flange Less Than Minimum Flange Width
308	Part Flange Exceeds Maximum Flange Width
309	Part Maximum Up Bend Exceeds Maximum Allowable Up Bend
310	Part Maximum Dn Bend Exceeds Maximum Allowable Down Bend
401	Part Bend Angle Less Than Allowable Minimum Angle
402	Part Bend Angle Exceeds Allowable Maximum Angle
501	Part Up Embossment Too Close to Bend Line
502	Part Down Embossment Too Close to Bend Line
503	Part Up Louver Too Close to Bend Line
504	Part Down Louver Too Close to Bend Line
505	Part Up Pem Too Close to Bend Line
506	Part Down Pem Too Close to Bend Line
507	Part Taper Edge Too Close to Bend Line
508	Part Die Cutout Too Close to Bend Line
600	Feature Within Warning Gap
601	Parameter Value Missing
602	Part Requires Two Operators

Significantly Speeds Up Product Cycle Times

Step 3) Automated Sheet Metal Batch Unfolding

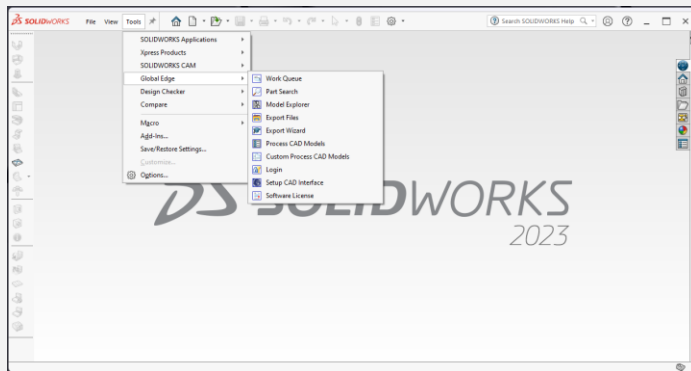
The third step provided by **Global Edge® Engineering Assistant** is the automated batch unfolding of 3D Sheet Metal CAD parts into DXF Flat Files. This includes the automated unfolding of either a single, or large batch of SolidWorks sheet metal parts to generate DXF flat files that can be sorted by material, thickness, and optionally including by job date, cutting, and bending method.

Automated Work Queue

Global Edge® Engineering Assistant includes an “Automated Work Queue” that provides an automated method to process daily engineering orders and prepare information for the shop floor. The Automated Work Queue can perform the following actions:

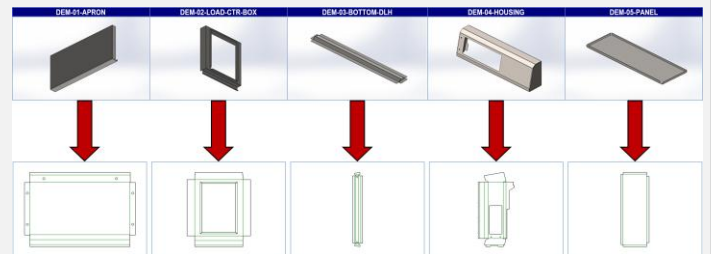
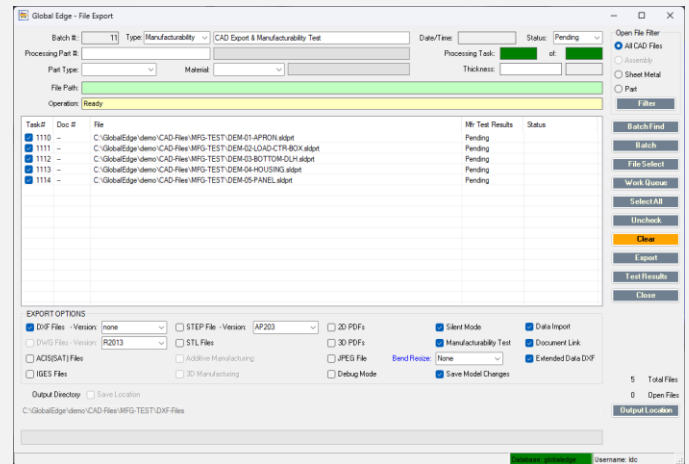
- ⊕ Generation of DXF Flat Files
- ⊕ Automated CAD Part Analysis
- ⊕ Resizing of CAD Model (Bend Radius / K-Factor)
- ⊕ Perform Manufacturability Test
- ⊕ Generation of Routings & Cost Rollups
- ⊕ Generation of 2D & 3D PDF Files
- ⊕ Generation of All SolidWorks Output Files

Global Edge® Engineering Assistant runs inside of SolidWorks and can integrate directly with your ERP and MES systems to automatically process daily production.



Automated Batch Unfolding

Global Edge® Engineering Assistant automatically generates DXF Flat Files from your 3D SolidWorks sheet metal CAD models:



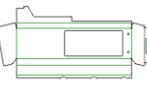
ERP / MES / CAM Integration

Global Edge® Engineering Assistant can optionally integrate with your ERP, MES, and CAM software programs. This includes the ability to integrate your daily production schedule with the processing of engineering information. This also includes providing your MES and CAM software with the necessary information to help optimize scheduling and to facilitate automated bend program generation.

Step 4) Automated Routing / Sales Quote Generation

Global Edge® Engineering Assistant includes innovative software functionality that combines the capabilities of **“Automated CAD Model Analysis”** with a powerful **“Configuration Engine”** that generates optimal routing steps and cost rollups based on the latest ERP time and material costs for accurate and timely sales quote generation. This starts with the generation of the following CAD Part Parameters:

Part Number	Description	UOM	Type	Cat.	Style	Mtl.
DEM-04-HOUSING	SHEET METAL HOUSING	EA	C	SHT	-	304-4
Setup Cost:		142.5000	Material: 304-4 STAINLESS STEEL			
Process Cost:		24.7713	Ship Weight:		17.4537	
Component Cost:		43.6343	Ship Weight UOM:		lbs	
Rollup Cost:		210.9056	Standard Cost:		210.9056	



CAD Part Parameters

Par. #	Parameter Name	Value	UOM	Par. #	Parameter Name	Value	UOM
1	Sheet Length:	0.000000	inches	25	Minimum Pem Gap:	1.200000	inches
2	Sheet Width:	0.000000	inches	26	Minimum Down Pem Gap:	1.800000	inches
3	Blank Length:	0.000000	inches	27	Minimum Emboss Gap:	0.000000	inches
4	Blank Width:	0.000000	inches	28	Minimum Down Emboss Gap:	0.000000	inches
5	Material thickness:	0.075000	inches	29	Minimum Louver Gap:	0.000000	inches
6	Perimeter:	133.048128	inches	30	Minimum Down Louver Gap:	0.000000	inches
7	Flat Length:	42.193245	inches	31	Min. Taper Bend Line Gap:	0.000000	inches
8	Flat Width:	19.699142	inches	32	Minimum Die Cutout:	0.000000	inches
9	Round Hole Count:	2.000000	-	33	Up Bend Count:	8.000000	-
10	Round Sizes Count:	1.000000	-	34	Internal Up Bends Count:	0.000000	-
11	Obround Hole Count:	0.000000	-	35	Maximum Up Bend:	5.296000	inches
12	Obround Sizes Count:	0.000000	-	36	Down Bend Count:	0.000000	-
13	Rectangular Hole Count:	0.000000	-	37	Internal Down Bends Count:	0.000000	-
14	Rectangular Sizes Count:	0.000000	-	38	Maximum Down Bend:	0.000000	inches
15	Other Hole Count:	1.000000	-	39	Fold Count:	8.000000	-
16	Other Sizes Count:	1.000000	-	40	Hem Count:	0.000000	-
17	Number of Cutouts:	3.000000	-	41	Extrude Count:	0.000000	-
18	Cutout Perimeter:	48.355855	inches	42	Bend Radius:	0.120000	inches
19	Minimum Bend Length:	8.451000	inches	43	Cutting Method:	Laser	-
20	Maximum Bend Length:	32.210000	inches	44	Cutter Ref. Number:	-	-
21	Minimum Bend Angle:	45.000000	degrees	45	Certified Material:	No	-
22	Maximum Bend Angle:	90.000000	degrees	46	Material:	304-4	-
23	Minimum Flange Width:	0.927000	inches	47	Cutout Distance:	18.055118	inches
24	Maximum Flange Width:	5.296000	inches	48	Part Distance:	30.946193	inches

Automated Routing Generation

Based on the above CAD Part Parameters, the **Global Edge** Configuration Engine will automatically determine the optional routing steps which can include the following types of routing steps:

LASER-CUT	BEND	WELD	GRIND
PAINT-PREP	HANG-WASH	PAINT-CURE	GASKET
ASSEMBLY	INSPECT	PACKAGE	SHIP

This process allows the user to select a CAD Part or Assembly, or a group of CAD models to be included in a Sales Quote. As parts are processed, routing steps are automatically generated including costs rollups.

Sample Sales / Price Quotation

PAGE: 001

LDC 1000 West Product Avenue
P.O. Box 5544
Productionville, WI 55555
Phone: 262-495-1300 Fax: 262-495-1313
www.ldcglobal.com

PRICE QUOTATION

SUBMITTED TO: ABC Manufacturing Company
5000 West Industrial Way
Milwaukee, WI 55555
United States of America

SHIP TO: ABC Manufacturing Company
5000 West Industrial Way
Milwaukee, WI 55555
United States of America

CUST ID: 1001
CONTACT: Robert Smith, V.P. of Engineering
E-MAIL: rsmith@abc-manufacturing.com
PHONE: 414-555-1100
FAX: 414-555-1105

QUOTE #	REV #	QUOTE DATE	VALID THRU	SHIP VIA	DAYSHIP	PAY TERMS	SALES REP.
1001		04/03/2022	05/02/2022	BEST WAY	10	NET 30 DAYS	Robert Smith
QTY. QUOTED	UOM	PART #	DESCRIPTION	TAX	UNIT QUOTE	EXTENDED	
50.000	EA	DEM-01-APRON	APRON	N	173.6969	8,684.85	
25.000	EA	DEM-02-LOAD-CTR-BOX	LOAD CENTER BOX	N	198.0316	4,950.79	
35.000	EA	DEM-03-BOTTOM-DLH	BOTTOM DISPLAY LIGHT HOUSING	N	168.2720	5,889.52	
10.000	EA	DEM-04-HOUSING	SHEET METAL HOUSING	N	210.9056	2,109.06	
40.000	EA	DEM-05-PANEL	SHEET METAL PANEL	N	165.5053	6,620.21	
** PAYMENT SCHEDULE **						QUOTE SUB-TOTAL:	28,254.43
						SALES TAX:	0.00
						FREIGHT:	175.00
						QUOTE TOTAL:	\$28,429.43

5) Configuration / CAD Model Generation

Global Edge® Engineering Assistant includes innovative and powerful product configuration and CAD model generation capabilities that are driven by an advanced **“Plug & Play”** Configuration Engine that adapts to your existing workflow process.

The **Global Edge** Configuration Engine can stand alone or work with an existing sales configurator, web portal, quoting spreadsheets to generate complete bill of materials, routings, costs rollups and part parameters to generate and resize 3D CAD models. The **Global Edge** Configuration Engine can accept outside product configuration parameters, or allows the direct user entry of configurator prompts as follows:

PART #: SLD-000-CABINET					
Dim #	Dim. Parameter / Option	UOM	Minimum	Maximum	Input Method
1	Cabinet_Height	inches	32.000000	40.000000	User Prompt
2	Cabinet_Width	inches	32.000000	60.000000	User Prompt
3	Cabinet_Depth	inches	18.000000	30.000000	User Prompt
4	Face_Pattern				User Prompt
	NONE OPEN VERTICAL SPLIT HORIZONTAL SPLIT VERTICAL SPLIT TOP VERTICAL SPLIT BOTTOM				
5	Post_Height Prompt	inches	6.000000	18.000000	User Prompt
6	Bottom_Post_Height Prompt	inches	6.000000	18.000000	Formula / User Prompt
7	Fill_Panel? Yes No				User Prompt
8	Removable_Back? Yes No				User Prompt
9	Include_Shelf? Yes No				User Prompt
10	Include_Drawer? Yes No				User Prompt
11	Material	CRS			User Prompt
	Carbon 304 Stainless 316 Stainless	304-4 316-2B			
12	Material_Thickness	inches			User Prompt
	14 Gauge (0.074000) 18 Gauge (0.048000) 20 Gauge (0.036000)		0.074000 0.048000 0.036000		
13	Paint_Finish				User Prompt
	White Red Blue Custom None	White Red Blue Custom			
14	Custom_Color				User Prompt

Automated Part Numbering

The **Global Edge** Configuration Engine provides for the definition of Automated Part Numbering Rules to generate either Smart, or Semi-Smart Part Numbers for configured part numbers including the generation CAD model file names. In conjunction with the **Global Edge Engineering & Manufacturing Data Warehouse** that includes the storage of complete CAD Part Parameters, this facilitates advanced part search capabilities to find existing parts which helps eliminate duplication of parts and the reworking of existing parts and assemblies.

BILL OF MATERIALS: Global Edge Windows Demo Server

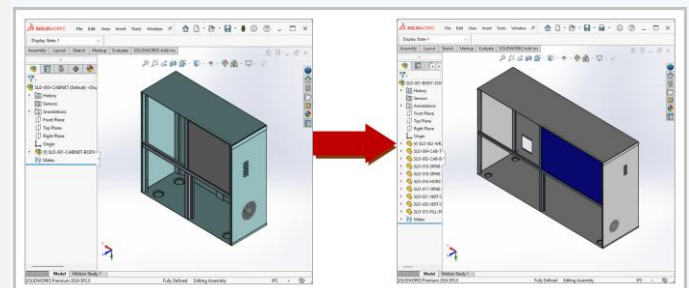
Part Number Rules

ROW #	INCLUDE	SEGMENT TYPE	START #	VALUE	NOMINAL	INCREMENT	OFFSET	TRIM	EXCEPT
1	Both	Base Part		SLD-000-CAB-	No				No
2	Both	Material							
3	Both	Base Part							
4	Both	Dimension		Cabinet_Height		1.000000			
5	Both	Dimension		Cabinet_Width		1.000000			
6	Both	Dimension		Cabinet_Depth		1.000000			
7	Custom	Base Part							
8	Custom	Number		8888					

8056
 Edit Part Number Format Array

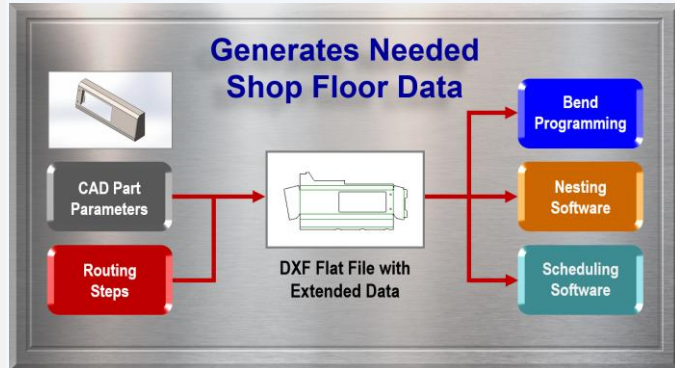
Automated CAD Model Generation

The **Global Edge** Configuration Engine works directly with SolidWorks to automate the renumbering and resizing of SolidWorks parts and assemblies from Template CAD Models. This also includes the automated generation of DXF Flat Files with Extended Data to facilitate Automated CAM Bend Program Generation and Manufacturability Testing to ensure that each sheet metal part can be successfully fabricated on the shop floor:



Step 6) Automated Shop Floor Data Preparation

The final and optional step is the automated preparation of shop floor data.



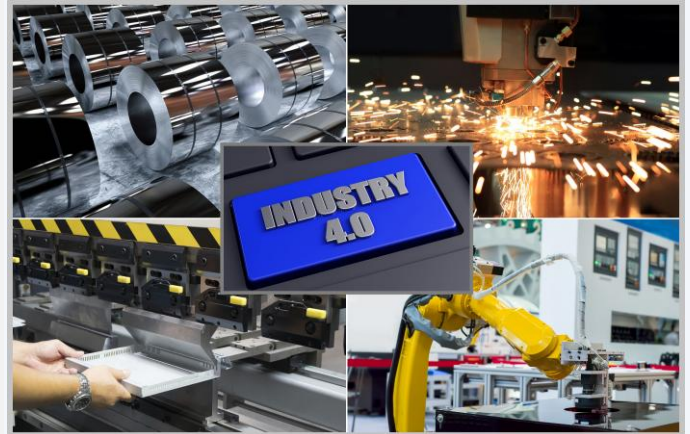
This includes performing automated workflow tasks to perform the following:

- ⊕ Routing Generation
- ⊕ Bending Program Generation
- ⊕ Supplement Nesting Software
- ⊕ Drive Scheduling Software

Routing Generation

Based on imported CAD Part Parameters generated in Step 1, the **Global Edge® Engineering Assistant** can optionally generate optimal routings based on those parameters. This functionality can be utilized to generate accurate and timely sales quotes based on your actual machine tool capabilities:

Part Routing									
Trans #	Seq #	Process	Description	UOM	Setup Time	Setup Cost	Process Time	Std. Proc. Cost	
986	1	LASER-CUT	Laser Cut Operation	hours	0.010000	1.50	0.100000	15.0000	
987	2	BEND	Press Brake Bending Operation	hours	0.500000	37.50	0.010000	0.7500	
988	3	TIG-WELD	TIG Weld	hours	0.500000	22.50	0.150000	6.7500	
989	4	DEBURR	Deburring Operation	hours	0.200000	9.00	0.068824	3.0971	
990	5	SAND-PAINT-PREP	Sand / Paint / Preparation Operation	hours	0.150000	6.00	0.016035	0.6414	
991	6	HANGING	Hanging Operation	hours	0.150000	3.75	0.020000	0.5000	
992	7	WASHING	Washing Operation	hours	0.150000	3.75	0.010000	0.2500	
993	8	PAINTING	Painting Operation	hours	0.150000	6.00	0.032069	1.2828	
994	9	CURING	Curing Operation	hours	0.250000	6.25	0.050000	1.2500	
995	10	ASSEMBLY	Assembly Operation	hours	0.250000	12.50	0.050000	2.5000	
996	11	GENERAL-LABOR	General Labor Operation	hours	0.250000	12.50	0.050000	2.5000	
997	12	FINAL-INSPECT	Final Inspection Operation	hours	0.250000	8.75	0.050000	1.7500	
998	13	PACKAGE	Package Operation	hours	0.250000	8.75	0.050000	1.7500	
999	14	SHIPPING	Shipping Operation	hours	0.150000	5.25	0.050000	1.7500	
					3.210000	\$144.00	0.706928	\$39.7713	



Bend Program Generation

Global Edge® Engineering Assistant drives automated bend program generation by translating CAD part parameters into the necessary CAM bending program parameters that are embedded into DXF flat files as extended data utilized by bend program generation software. Extended data can include standard bend process, required tooling, material, etc.

Supplement Nesting Software

Global Edge® Engineering Assistant provides DXF flat files where needed by the nesting software. Files can be sorted by material and thickness. Material, thickness, quantity required, and date required can be added as extended data in DXF files in customizable formats required by the nesting software.

Drive Scheduling Software

Global Edge® Engineering Assistant can generate a manufacturing routing based on CAD part parameters. This can include preferred machine tools, tool sets required, setup time, per part production time and any cleanup time if necessary. Data can be automatically loaded into most ERP/MES systems.

Summary

Global Edge® Engineering Assistant is a new generation of software tools that were developed with feedback from leading sheet metal fabricators and machine tool vendors after identifying costly and time-consuming bottlenecks in the engineering workflow process. With current marketplace pressures that include labor shortages, supply chain challenges and unpredictable cost increases; improving productivity with leading edge software technology can help your company overcome these challenges to compete and grow market share.

Global Edge® Engineering Assistant incorporates proprietary CAD model analysis, product configuration, and manufacturability testing technology that helps your company take the next

steps into the future improving efficiency, eliminating rework, cutting cycle design and production times, and getting more out of your highly skilled employees in quoting, engineering, and on the shop floor. This improves the entire workflow process from quoting through product shipment. The ability to integrate with existing ERP and MES systems reduces entry errors and provides information when and where needed.

Logic Design Corporation (LDC) has a 40-year history of helping small, medium, and large-scale manufacturing operations achieve an integrated Industry 4.0 factory environment resulting in saving thousands of engineering hours each year.



The banner features the LDC logo on the left, followed by the title "Global Edge® Engineering Assistant" in a large, bold, blue font. Below the title is a horizontal bar with the text "The Next Big Productivity Advancement in Engineering ...". The bottom section of the banner is a collage of images: a man in a suit, industrial machinery, a "BUILT AROUND SOLIDWORKS" logo, and a virtual assistant robot sitting at a desk with a laptop. The text "Your Engineering" and "Virtual Assistant" are also present.

www.ldcglobal.com