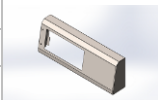
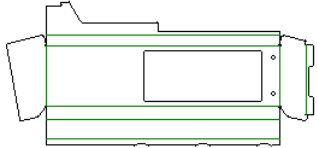


Global Edge CAD Part Parameter Report

Part Number	Description	UOM	Type	Cat.	Style	Mtl.
DEM-04-HOUSING	SHEET METAL HOUSING	EA	C	SHT	-	304-4
Setup Cost:	144.0000	Material:	304-4-STAINLESS STEEL			
Process Cost:	39.7713	Ship Weight:	17.4537			
Component Cost:	43.6343	Ship Weight UOM:	lbs			
Rollup Cost:	227.4056	Standard Cost:	227.4056			

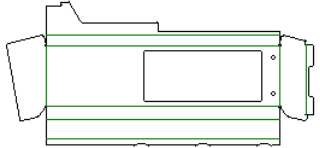
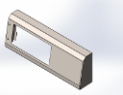
CAD Part Parameters

Par. #	Parameter Name	Value	UOM	Par. #	Parameter Name	Value	UOM
1	Sheet Length:	0.000000	inches	25	Minimum Pem Gap:	0.000000	inches
2	Sheet Width:	0.000000	inches	26	Minimum Down Pem Gap:	0.000000	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:	19.699142	inches	31	Min. Taper Bend Line Gap:	0.000000	inches
8	Flat Width:	42.193245	inches	32	Minimum Die Cutout:	0.000000	inches
9	Round Holes:	2.000000	-	33	Up Bends:	8.000000	-
10	Round Sizes:	1.000000	-	34	Internal Up Bends:	0.000000	-
11	Obround Holes:	0.000000	-	35	Maximum Up Bend:	5.296000	-
12	Obround Sizes:	0.000000	-	36	Down Bends:	0.000000	-
13	Rectangular Holes:	0.000000	-	37	Internal Down Bends:	0.000000	-
14	Rectangular Sizes:	0.000000	-	38	Maximum Down Bend:	0.000000	-
15	Other Holes:	1.000000	-	39	Fold Count:	8.000000	-
16	Other Sizes:	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:	37.000000	degrees	45	Certified Material:	No	-
22	Maximum Bend Angle:	93.000000	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

The "CAD Part Parameters" portion of the report includes 48 CAD Part Parameters that includes part size information, hole counts, bend lengths and angles including Pem, Embossment, and Louver gap distances. This parameter information can be directly embedded into the DXF flat file as extended data to drive "Automated Bend Program Generation". This also provides the necessary information to generate "Automated Routings" and to perform "Manufacturability Testing" on the part (refer to Page 3).

Global Edge CAD Part Parameter Report

Part Number	Description	UOM	Type	Cat.	Style	Mtl.
DEM-04-HOUSING	SHEET METAL HOUSING	EA	C	SHT	-	304-4
Setup Cost:	144.0000	Material:	304-4-STAINLESS STEEL			
Process Cost:	39.7713	Ship Weight:	17.4537			
Component Cost:	43.6343	Ship Weight UOM:	lbs			
Rollup Cost:	227.4056	Standard Cost:	227.4056			

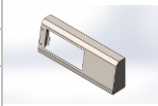
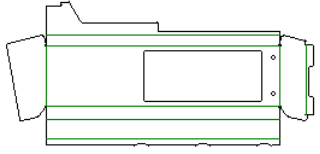



Part Routing								
Trans #	Seq. #	Process	Description	UOM	Setup Time	Setup Cost	Process Time	Std. Proc. Cost
986	1	LASER-CUT	Laser Cut Operation	hours	0.010000	1.50	0.100000	15.0000
987	2	BEND	Press Brake Bending Operation	hours	0.500000	37.50	0.010000	0.7500
988	3	TIG-WELD	TIG Weld	hours	0.500000	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

The "Part Routing" portion of the report includes optimal the routing that are automatically generated based on user definable utilizing the available 48 CAD Part Parameters. The "Global Edge Routing Configurator" generates routings according to the capabilities of your machine tools and provides accurate time and material cost rollups. The above sample is based on a part quantity of one and also generates quantity pricing based on various levels of production.

Global Edge CAD Part Parameter Report

Part Number	Description	UOM	Type	Cat.	Style	Mtl.
DEM-04-HOUSING	SHEET METAL HOUSING	EA	C	SHT	-	304-4
Setup Cost:	144.0000	Material:	304-4-STAINLESS STEEL			
Process Cost:	39.7713	Ship Weight:	17.4537			
Component Cost:	43.6343	Ship Weight UOM:	lbs			
Rollup Cost:	227.4056	Standard Cost:	227.4056			

Manufacturability Test Results

Process #:	4	Bnd Proc., SS 304-4, 0.075, Rad - 0.120	DEM-04-HOUSING	SHEET METAL HOUSING
Material Code:	304-4	Pass	46	Material: 304-4 -
Thickness:	0.075000	Pass	5	Material thickness: 0.075000 inches
Min. Thickness:	0.072000			Max. 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	42	Bend Radius: 0.120000 inches
K Factor 90:	0.445000			Bend Allowance 90: 0.008000
Gage Allowance 90:	0.003000			Tons Per Foot: 25.000000

Min. Flat Length:	4.000000	Pass	Max. Flat Len:	72.000000	7	Flat Length:	19.699142	inches
Min. Flat Width:	2.000000	Pass	Max. Fl. Width:	48.000000	8	Flat Width:	42.193245	inches
Max. Bend Len:	72.000000	-	Max. Tonnage:	150.000000				
Max. Part Weight:	125.000000	-	Mass UOM:	lbs				
Min. Angle:	39.000000	Fail			21	Minimum Bend Angle:	37.000000	degrees
Max. Angle:	180.000000	Pass			22	Maximum Bend Angle:	93.000000	degrees
Min Length:	0.750000	Pass			19	Minimum Bend Length:	8.451000	inches
Max Length:	96.000000	Pass			20	Maximum Bend Length:	32.210000	inches
Min. Flange Width:	1.200000	Pass			23	Minimum Flange Width:	0.927000	inches
Max. Flange Width:	24.000000	Pass			24	Maximum Flange Width:	5.296000	inches

Min. BL Up Emboss:	1.100000	-			27	Minimum Emboss Gap:	0.000000	inches
Min. BL Dn. Emboss:	1.300000	-			28	Minimum Down Emboss Gap:	0.000000	inches
Min. BL Up Louver:	0.900000	-			29	Minimum Louver Gap:	0.000000	inches
Min. BL Down Louver:	1.400000	-			30	Minimum Down Louver Gap:	0.000000	inches
Min. BL Up Pem:	1.500000	-			25	Minimum Pem Gap:	0.000000	inches
Min. BL Down Pem:	2.000000	-			26	Minimum Down Pem Gap:	0.000000	inches
Min. BL Taper Edge:	0.770000	-			31	Min. Taper Bend Line Gap:	0.000000	inches
Min. BL Die Cutout:	0.440000	-			32	Minimum Die Cutout:	0.000000	inches

The "Manufacturability Test Results" portion of the report the available 48 CAD Part Parameters with your user definable "Bend Processes" that includes the bend parameters of your available tooling sets. This process determines if a part can be successfully fabricated before it leaves engineering, subsequently saving your company thousands of dollars before a part reaches the shop floor.