

LOGIC DESIGN corporation

Manufacturing Workflow Assessment



Confidential

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Executive Summary / Assessment Outline

Logic Design Corporation (LDC) is a software development and technology integration company that specializes in innovative, leading edge software solutions that help manufacturing companies transform engineering and manufacturing to quote, design and build products better, faster and more cost effectively. LDC has devised a “**Manufacturing Workflow Assessment**” that is designed to help manufacturing companies identify bottlenecks and inefficiencies in the quoting, engineering and manufacturing workflow processes. The goal of the **Manufacturing Workflow Assessment** is to help identify potential improvement areas that can be automated with the **Global Edge 2018 – Automated Manufacturing** system which is the premier quoting and product configuration system for the sheet metal fabrication industry including engineered to order and custom products.

The **Manufacturing Workflow Assessment** includes the following sections:

Section 1 – Company Review

- 1.01 – Company Profile
- 1.02 – Company Goals / Objectives
- 1.03 – Product Families

Section 2 – Sales Department Review

- 2.01 – Sales Department Profile

Section 3 – Quoting Review

- 3.01 – Quote Part Library
- 3.02 – Quote Cost Calculations
- 3.03 – Quote Procedures

Section 4 – Product Family Review

- 4.01 – Product Family Description
- 4.02 – Quote Parameters
- 4.03 – Information Gathering
- 4.04 – Quoting Steps

This document is a supplement for a matching Excel spreadsheet for entering assessment information. In the assessment spreadsheet, values can be entered into the green cells and selections can be made with the available check boxes where they are available in specific sections. The information entered in the assessment spreadsheet will be utilized to develop a plan to achieve an automated quoting system utilizing the **Global Edge** system and maintaining the existing quoting steps and technologies that are currently in place and working well.

Section 1 – Company Review

1.01 – Company Profile

This section includes company profile information including a list of the people who will participate in the assessment process:

Assessment Date:		Company Name:	
Main Phone:		Division:	
Fax:		Address 1:	
Web Site:		Address 2:	
		City:	
Primary Contact:		State:	
Primary Contact Phone:		Postal Code:	
Primary Contact Email:		Country:	

Company Locations	Location Products & Services	Employees
Location #1:		
Location #2:		
Location #3:		
Location #4:		
Location #5:		

Assessment Participants	Phone / Ext	Email:
Participant #1:		
Participant #2:		
Participant #3:		
Participant #4:		
Participant #5:		

1.01 – Company Profile (Continued ...)

This section includes further company profile information that includes employee counts, revenues, ERP / Business System utilized, primary products and services, primary competitors, type of manufacturing operation, and the enterprise level software utilized by your company:

(1.01.01) – Total Employee Count:	0	Revenues:	### Million	ERP / Business System:	
Corporate Level / Front Office:			O \$1MM - \$4.9 MM	<input type="checkbox"/> Dynamics GP	<input type="checkbox"/> MaCola Mfg. Pro
Sales Department:			O \$5MM - \$9.9 MM	<input type="checkbox"/> Epicor	<input type="checkbox"/> MAX ERP
Customer Service Department:			O \$10MM - \$24.9 MM	<input type="checkbox"/> Exacta	<input type="checkbox"/> Microsoft Dynamics
Engineering Department:			O \$25MM - \$49.9 MM	<input type="checkbox"/> Glovia ERP	<input type="checkbox"/> Oracle E-Bus. Suite
Manufacturing / Shop Floor:			O \$50MM - \$99.9 MM	<input type="checkbox"/> IFS	<input type="checkbox"/> QAD
Supply Chain / Inventory:			O \$100MM - \$499.9 MM	<input type="checkbox"/> IQMS	<input type="checkbox"/> Quick Books
Finance / Accounting:			O \$500MM or Greater	<input type="checkbox"/> JD Edwards	<input type="checkbox"/> Sage
Information Technology:				<input type="checkbox"/> Job Boss	<input type="checkbox"/> SAP
Other / Remaining:		Network Size / Users:		<input type="checkbox"/> Lawson	<input type="checkbox"/> Syteline / Symix

Note (1.01.01): The “Total Employee Count” automatically adds up the count in the cells directly below.

(1.01.02) – Primary Product & Services:

Note (1.01.02): Enter your primary products and services as it pertains to your quoting process.

(1.01.03) – Manufacturer Type:	<input type="checkbox"/> Engineer to Order (ETO)	Enterprise / CRM:	
	<input type="checkbox"/> Discrete Manufacturing	<input type="checkbox"/> Homegrown / Legacy	<input type="checkbox"/> MS Dynamics CRM
	<input type="checkbox"/> Mixed Mode Manufacturing	<input type="checkbox"/> Lotus Notes	<input type="checkbox"/> NetSuite
	<input type="checkbox"/> Process Manufacturing	<input type="checkbox"/> MS Office	<input type="checkbox"/> Oracle
	<input type="checkbox"/> Repetitive / Make to Stock	<input type="checkbox"/> MS Office 365	<input type="checkbox"/> Sage ACT!
	<input type="checkbox"/> Make to Order (MTO)	<input type="checkbox"/> SharePoint	<input type="checkbox"/> Sales Force
	<input type="checkbox"/> Job Shop	<input type="checkbox"/> Homegrown CRM	<input type="checkbox"/> Saleslogix
	<input type="checkbox"/> Industrial Distribution	<input type="checkbox"/> GoldMine CRM	<input type="checkbox"/> SugarCRM
	<input type="checkbox"/> Light Assembly / Kitting	<input type="checkbox"/> Other:	
	<input type="checkbox"/> Prof. Serv. (Non-Manufacturing)	<input type="checkbox"/> Other:	
	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	

Note (1.01.03): Check each of the boxes as it applies to your company including your existing ERP and CRM systems in place.

(1.01.04) – CAD:	<input type="checkbox"/> AutoCAD 2D	PDM / PLM Software:	
	<input type="checkbox"/> AutoCAD Architectural	<input type="checkbox"/> Team Center	
	<input type="checkbox"/> AutoCAD Mechanical Desktop	<input type="checkbox"/> Windchill	
	<input type="checkbox"/> Catia	<input type="checkbox"/> Other:	-
	<input type="checkbox"/> Pro Engineer	<input type="checkbox"/> Other:	-
	<input type="checkbox"/> Solid Edge	<input type="checkbox"/> Other:	-
	<input type="checkbox"/> SolidWorks		
	<input type="checkbox"/> Other:		
	<input type="checkbox"/> Other:		
	<input type="checkbox"/> Other:		

Note (1.01.04): Check each of the boxes that your company utilizes with CAD / PDM / PLM software including other third party or home grown systems.

1.02 – Company Goals / Objectives

The first step in developing an assessment for a manufacturing company is to first determine the overall goals of the company. Identifying overall higher level company goals will help with the process of determining what is possible to automate and what is the cost savings potential of automating specific quoting, engineering and manufacturing workflow tasks. In the following green boxes enter primary goals and objectives as it relates to the sales, quoting and product configuration process:

(1.02.01) – Company Goal / Objective #1:

(1.02.02) – Company Goal / Objective #2:

(1.02.03) – Company Goal / Objective #3:

(1.02.04) – Company Goal / Objective #4:

(1.02.05) – Company Goal / Objective #5:

Note (1.02.01 through 1.02.05): Enter your company goals / objectives as it pertains to overall company performance and your sales, quoting, engineering and manufacturing workflow processes.

1.03 – Product Families

This section includes a list of the primary products (families of products) produced by your company. Please indicate with each product family whether or not the product is configurable, engineer to order, or custom:

	Product Description	Config?	Engineer?	Custom?
(1.03.01) – Product Family #1:		-	-	-
(1.03.02) – Product Family #2:		-	-	-
(1.03.03) – Product Family #3:		-	-	-
(1.03.04) – Product Family #4:		-	-	-

Note (1.03.01 through 1.03.04): Enter up to four descriptions of your company's product families and whether these product families are Configurable, Engineered to Order, or Custom products, including a combination of each. These entries will ripple down in the assessment spreadsheet with an opportunity to enter more detailed information (refer to Section 4.01).

(1.03.05) – General Products Description:

Note (1.03.05): Enter a general description of your company's products as it pertains to the sales and quoting process.

Section 2 – Sales Department Review

2.01 – Sales Department Profile

This section includes profile information of your sales department as it pertains to the sales and quoting process:

(2.01.01) – Number of Quoting People:	<input type="text" value="0"/>	Full-Time:	<input type="text" value="0"/>	Part-Time:	<input type="text" value="0"/>				
(2.01.02) – Quote Types:	<table border="1"> <tr><td><input type="checkbox"/> Sheet Metal Parts</td></tr> <tr><td><input type="checkbox"/> Assemblies</td></tr> <tr><td><input type="checkbox"/> Configurable Products / Assemblies</td></tr> <tr><td><input type="checkbox"/> Custom Products / Parts</td></tr> <tr><td><input type="checkbox"/> Other:</td></tr> </table>		<input type="checkbox"/> Sheet Metal Parts	<input type="checkbox"/> Assemblies	<input type="checkbox"/> Configurable Products / Assemblies	<input type="checkbox"/> Custom Products / Parts	<input type="checkbox"/> Other:	Percent:	<input type="text" value="0%"/>
<input type="checkbox"/> Sheet Metal Parts									
<input type="checkbox"/> Assemblies									
<input type="checkbox"/> Configurable Products / Assemblies									
<input type="checkbox"/> Custom Products / Parts									
<input type="checkbox"/> Other:									
			Percent:	<input type="text" value="0%"/>					
			Percent:	<input type="text" value="0%"/>					
			Percent:	<input type="text" value="0%"/>					
			Percent:	<input type="text" value="0%"/>					
(2.01.03) – Simple Quote – Avg. Time:	<input type="text" value="0.00"/>	Hours	No. Items:	<input type="text" value="0"/>	# / Week:	<input type="text" value="0"/>	Hrs/Wk:	<input type="text" value="0.00"/>	Hours
(2.01.04) – Medium Quote – Avg. Time:	<input type="text" value="0.00"/>	Hours	No. Items:	<input type="text" value="0"/>	# / Week:	<input type="text" value="0"/>	Hrs/Wk:	<input type="text" value="0.00"/>	Hours
(2.01.05) – Complex Quote – Avg. Time:	<input type="text" value="0.00"/>	Hours	No. Items:	<input type="text" value="0"/>	# / Week:	<input type="text" value="0"/>	Hrs/Wk:	<input type="text" value="0.00"/>	Hours
(2.01.06) – Average Quote Time:	<input type="text" value="0.00"/>	Hours	No. Items:	<input type="text" value="0"/>	# / Week:	<input type="text" value="0"/>	Hrs/Wk:	<input type="text" value="0.00"/>	Hours
(2.01.07) – Quote Close Percent:	<input type="text" value="0%"/>								

- Note (2.01.01):** Enter the total number of people that do quoting for your company followed by how many perform the process full and part-time.
- Note (2.01.02):** Check the boxes that apply to the type of products your company quotes and what percent of each consume the quoting process.
- Note (2.01.03):** Enter into this line the average time it takes your company to generate one of your simpler quotes (in hours) and the average number of line items, and the of these quotes that are generated per week. The spreadsheet will calculate the total hours per week spent on this process.
- Note (2.01.04):** Enter into this line the average time it takes your company to generate one of your medium complexity quotes (in hours) and the average number of line items, and the of these quotes that are generated per week. The spreadsheet will calculate the total hours per week spent on this process.
- Note (2.01.05):** Enter into this line the average time it takes your company to generate one of your more complex quotes (in hours) and the average number of line items, and the of these quotes that are generated per week. The spreadsheet will calculate the total hours per week spent on this process.
- Note (2.01.06):** Enter into this line the average time it takes your company to generate an average of simple, medium and complex sales quotes (in hours) and the average number of line items, and the of these quotes that are generated per week. The spreadsheet will calculate the total hours per week spent on this process.
- Note (2.01.07):** Enter in this box the percent of sales quotes that are generated that become orders.

(2.01.08) – Current Quoting Challenges:

<input type="checkbox"/> Keeping quote costs up to date	
<input type="checkbox"/> Heavy reliance on spreadsheet to generate sales quote	
<input type="checkbox"/> Time consuming analysis of sheet metal parts	
<input type="checkbox"/> Manual generation of routings / costs	
<input type="checkbox"/> Quote turnaround time	
<input type="checkbox"/> Inaccurate quote costs	
<input type="checkbox"/> Manual configuration of quoted products / parts	
<input type="checkbox"/> Delays in compiling quote costs	
<input type="checkbox"/> Manual generation of quote drawings	
<input type="checkbox"/> Other:	

Note (2.01.08): Check the boxes that apply to your current quoting challenges followed by a short explanation of these challenges.

Section 3 – Quoting Review

3.01 – Quote Part Library

This section includes part library information that is utilized by the quoting process:

(3.01.01) – # of Standard Quote Parts:	<input type="text"/>	Explain:	<input type="text"/>				
(3.01.02) – # of Configurable Quote Parts:	<input type="text"/>	Explain:	<input type="text"/>				
(3.01.03) – Total Number of Quote Parts:	<input type="text"/>	Explain:	<input type="text"/>				
(3.01.04) – # of Parts in Simple Assembly:	<input type="text"/>	# of Config. Parts:	<input type="text"/>	# of Standard Parts:	<input type="text"/>	Custom:	<input type="text"/>
(3.01.05) – # of Parts in Medium Assembly:	<input type="text"/>	# of Config. Parts:	<input type="text"/>	# of Standard Parts:	<input type="text"/>	Custom:	<input type="text"/>
(3.01.06) – # of Parts in Complex Assm:	<input type="text"/>	# of Config. Parts:	<input type="text"/>	# of Standard Parts:	<input type="text"/>	Custom:	<input type="text"/>
(3.01.07) – Part Numbering Scheme:	<input type="text"/>						
(3.01.08) – Deviations from Standard:	<input type="text"/>						

Note (3.01.01): Enter number of part numbers that are utilized for standard parts in your quoting process followed by an explanation.

Note (3.01.02): Enter number of part numbers that are utilized for configurable parts in your quoting process followed by an explanation.

Note (3.01.03): Enter the total number of parts that are utilized in your quoting part library followed by an explanation.

Note (3.01.04): Enter the average number of parts that make up a simply assembly that your company quotes followed by how many of the parts in the assembly are Configurable, Standard and Custom.

Note (3.01.05): Enter the average number of parts that make up a medium complexity assembly that your company quotes followed by how many of the parts in the assembly are Configurable, Standard and Custom.

Note (3.01.06): Enter the average number of parts that make up a complex assembly that your company quotes followed by how many of the parts in the assembly are Configurable, Standard and Custom.

Note (3.01.07): Enter a description of your part numbering scheme is currently devised for quoted parts.

Note (3.01.08): Enter a description of any deviations from your standard quoting process.

(3.01.09) – Stock Items:	No. of Part Numbers:	<input type="text"/>			
Quote Part Source:	<input type="checkbox"/> Last Cost from ERP	<input type="checkbox"/> Quoting Spreadsheet	<input type="checkbox"/> Quote Part Database	<input type="checkbox"/> RFQ / Vendor	
Frequency of Cost Update:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	
	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	
	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	
	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	
	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	

Note (3.01.09): Enter into the green box the number of “*Stock Item*” part numbers are utilized in your quoting process followed by selecting the source of those part numbers and how frequently the costs of those parts are updated.

(3.01.10) – Non-Stock Items: No. of Part Numbers:

Quote Part Source:	<input type="checkbox"/> Last Cost from ERP	<input type="checkbox"/> Quoting Spreadsheet	<input type="checkbox"/> Quote Part Database	<input type="checkbox"/> RFQ / Vendor
Frequency of Cost Update:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly
	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly
	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly
	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly
	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote

Note (3.01.10): Enter into the green box the number of “*Non-Stock Item*” part numbers are utilized in your quoting process followed by selecting the source of those part numbers and how frequently the costs of those parts are updated.

(3.01.11) – Raw Materials: No. of Part Numbers:

Quote Part Source:	<input type="checkbox"/> Last Cost from ERP	<input type="checkbox"/> Quoting Spreadsheet	<input type="checkbox"/> Quote Part Database	<input type="checkbox"/> RFQ / Vendor
Frequency of Cost Update:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly
	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly
	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly
	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly
	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote

Note (3.01.11): Enter into the green box the number of “*Raw Material*” part numbers are utilized in your quoting process followed by selecting the source of those part numbers and how frequently the costs of those parts are updated.

(3.01.12) – Outsourced Items: No. of Part Numbers:

Quote Part Source:	<input type="checkbox"/> Last Cost from ERP	<input type="checkbox"/> Quoting Spreadsheet	<input type="checkbox"/> Quote Part Database	<input type="checkbox"/> RFQ / Vendor
Frequency of Cost Update:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly	<input type="checkbox"/> Weekly
	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Monthly
	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Quarterly
	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly	<input type="checkbox"/> Yearly
	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote	<input type="checkbox"/> Per Quote

Note (3.01.12): Enter into the green box the number of “*Outsourced Item*” part numbers are utilized in your quoting process followed by selecting the source of those part numbers and how frequently the costs of those parts are updated.

(3.01.13) – Notes About Quote Part Library:

Note (3.01.13): Enter any notes and special explanations of how your company maintains and updates costs in your quote part library.

3.02 – Quote Cost Calculations

This section includes information as to how costs are calculated in your quoting process:

(3.02.01) – Quote Spreadsheet Utilization:

(3.02.02) – Routing Times Calculated:

(3.02.03) – Routing Production Time Basis:

(3.02.04) – Quote Item Exceptions:

(3.02.05) – Sheet Metal Part Quote Time: Hours

(3.02.06) – Quote Turnaround Time: Days

(3.02.07) – Quote / Inventory P/N Match: Explain:

(3.02.08) – Quote Costs Excel Calculated: Explain:

(3.02.09) – How are Quote Costs Updated:

Note (3.02.01): If an Excel spreadsheet is utilized in your quoting process, explain how and to what extent that spreadsheet is utilized.

Note (3.02.02): Enter a description as to how routing times are calculated for your quoting process.

Note (3.02.03): Provide an explanation if your routing times for the quoting process is based on actual production times per machine tool.

Note (3.02.04): Provide an explanation of exceptions that your company has with certain quote line items.

Note (3.02.05): Enter the average amount of time it takes your company to quote a sheet metal part followed by an explanation if applicable.

Note (3.02.06): Enter the average number of days it takes your company to generate a sales quote from request to delivery.

Note (3.02.07): Enter “Yes”, “No” or “Both” whether your quote part numbers directly match your inventory part numbers.

Note (3.02.08): Enter “Yes”, “No” or “Both” whether your quote costs are calculated with an Excel spreadsheet and an explanation if applicable.

Note (3.02.09): Enter an explanation of how your quote costs are updated.

3.03 – Quote Procedures

This section includes information with key steps in the quoting process:

(3.03.01) – Quote costing review approval:

(3.03.02) – Do you send RFQs to vendors:

(3.03.03) – Determine quote delivery dates:

(3.03.04) – Quotes deviated standards:

(3.03.05) – Do quotes have to show costs:

(3.03.06) – Quote approval process:

(3.03.07) – Other:

(3.03.08) – Other:

(3.03.09) – Other:

Note (3.03.01): Explain how your quote costs are reviewed and approved.

Note (3.03.02): If your company sends RFQs to vendors to assemble quote costs, explain any challenges that are related to this process.

Note (3.03.03): Explain how your company determines delivery dates for quoted products.

Note (3.03.04): Explain how steps in your quoting process can deviate from your standard quoting process.

Note (3.03.05): Does your company have to provide a detail of how your quote costs are generate and/or justified? If so, provide and explanations.

Note (3.03.06): Explain how your quote approval process works.

Note (3.03.07): Explain any additional processes that are key to your quoting process.

Note (3.03.08): Explain any additional processes that are key to your quoting process.

Note (3.03.09): Explain any additional processes that are key to your quoting process.

Section 4 – Product Family Review

4.01 – Product Family Description

This section includes information that describes each of the main product families that are utilized in the quoting process. The Assessment spreadsheet will ripple down the header information of each of the four product families:

(4.01.01) – Product Family #1:	Product Description	Config?	Engineer?	Custom?

(4.01.02) – Product Family 1 - Description:

(4.01.03) – Configured - Typical Options:

(4.01.04) – Engineered to Order:

(4.01.05) – Customize to Order:

(4.01.06) – Notes on Product Family #1:

Note (4.01.01): This line will display the product header information that was entered in Section 1.03 for each product family.

Note (4.01.02): Enter a more detailed explanation of the product family as it applies to the quoting process.

Note (4.01.03): If the product being quoted is a “**Configured**” product, explain what the typical product options are for the quoted product.

Note (4.01.04): If the product being quoted is an “**Engineered to Order**” product, explain what considerations go into the quoting of these types of products.

Note (4.01.05): If the product being quoted is a “**Custom**” product, explain what considerations go into the quoting of these types of products.

Note (4.01.06): Enter any additional notes about the product family that apply to the quoting process.

4.02 – Quote Parameters

This section includes information that describes the product parameter information that is utilized in the quoting process:

(4.02.01) – Quote Parameters:

<input type="checkbox"/> Flat Length	<input type="checkbox"/> Number of Round Holes	<input type="checkbox"/> Number of Up Bends
<input type="checkbox"/> Flat Width	<input type="checkbox"/> Number of Round Hole Sizes	<input type="checkbox"/> Number of Down Bends
<input type="checkbox"/> Material	<input type="checkbox"/> Number of Obround Holes	<input type="checkbox"/> Number of Internal Up Bends
<input type="checkbox"/> Material Thickness	<input type="checkbox"/> Number of Obround Hole Sizes	<input type="checkbox"/> Number of Internal Down Bends
<input type="checkbox"/> Height	<input type="checkbox"/> Number of Rectangular Cutouts	<input type="checkbox"/> Maximum Up Bend
<input type="checkbox"/> Width	<input type="checkbox"/> Number of Rectangular Cutouts Sizes	<input type="checkbox"/> Maximum Down Bend
<input type="checkbox"/> Depth	<input type="checkbox"/> Total Number of Cutouts	<input type="checkbox"/> Number of Hems
<input type="checkbox"/> Perimeter	<input type="checkbox"/> Cutout Perimeter	<input type="checkbox"/> Total Number of Folds
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:

(4.02.02) – Assemblies:

	From	To
Assembly Part Count:	0	0
Standard Parts:	0	0
Configured Parts:	0	0
Optional Parts:	0	0
Customized Parts:	0	0

(4.02.03) – Manufacturing Processes:

<input type="checkbox"/> Blank	<input type="checkbox"/> Lathe / Turn	<input type="checkbox"/> Spin Forming
<input type="checkbox"/> Shear	<input type="checkbox"/> Grind	<input type="checkbox"/> Casting
<input type="checkbox"/> Laser Cut	<input type="checkbox"/> Deburr	<input type="checkbox"/> 3D Painting
<input type="checkbox"/> Plasma Cut	<input type="checkbox"/> Heat Treating	<input type="checkbox"/> Kitting
<input type="checkbox"/> Turret Punch	<input type="checkbox"/> Plating	<input type="checkbox"/> Assembly
<input type="checkbox"/> Form	<input type="checkbox"/> Painting	<input type="checkbox"/> Inspection / Testing
<input type="checkbox"/> Panel Bend	<input type="checkbox"/> Polishing	<input type="checkbox"/> Packaging
<input type="checkbox"/> NC Machine	<input type="checkbox"/> Welding	<input type="checkbox"/> Outsourcing
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:

(4.02.04) – Config. Parameters / Options:

<input type="checkbox"/> Size (Height / Width / Depth)	
<input type="checkbox"/> Color Choices	
<input type="checkbox"/> Materials	
<input type="checkbox"/> Features	
<input type="checkbox"/> Fill Patterns	
<input type="checkbox"/> Other:	
<input type="checkbox"/> Other:	

Note (4.02.01): Check the boxes that include part parameters that are utilized in your quoting process.

Note (4.02.02): Enter a range of parts that comprise typical assemblies that are included in your quoting process including a range of how many Standard, Configured, Optional and Customized parts make up these assemblies.

Note (4.02.03): Check the boxes that include the manufacturing processes that are utilized in your quoting process for determining quote costs.

Note (4.02.04): Check the boxes that include the configuration parameters and options that go into the quoting process of configured parts and/or assemblies.

4.03 – Information Gathering

This section includes information that is gathered and stored as part of the quoting process:

(4.03.01) – How Are RFQs Received:

<input type="checkbox"/> Phone / Verbal
<input type="checkbox"/> Email / Website
<input type="checkbox"/> Fax
<input type="checkbox"/> U.S. Mail
<input type="checkbox"/> Government Solicitation
<input type="checkbox"/> Other

--

(4.03.02) – Documentation Received:

<input type="checkbox"/> Hard Copy / Prints
<input type="checkbox"/> 2D CAD Drawings
<input type="checkbox"/> 3D CAD Models
<input type="checkbox"/> DXF Files
<input type="checkbox"/> PDF Files
<input type="checkbox"/> Word Files
<input type="checkbox"/> Excel Spreadsheet Files
<input type="checkbox"/> Other

--

(4.03.03) – Document Storage:

<input type="checkbox"/> File Cabinet
<input type="checkbox"/> Customer File Folder
<input type="checkbox"/> PDM Doc. Storage
<input type="checkbox"/> U.S. Mail
<input type="checkbox"/> Other

--

Note (4.03.01): Check the boxes that include how Request for Quotes (RFQ) are received by your company.


Note (4.03.02): Check the boxes that include how documentation from customers Request for Quotes (RFQ) are received by your company.

Note (4.03.03): Check the boxes that include how information for your quoting process is currently stored.

4.04 – Quoting Steps

This section is designed to describe each of the steps that take place to generate a sales quote during the quoting process:

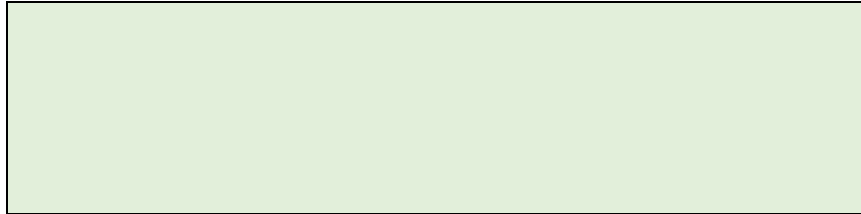
Quote Step 1:



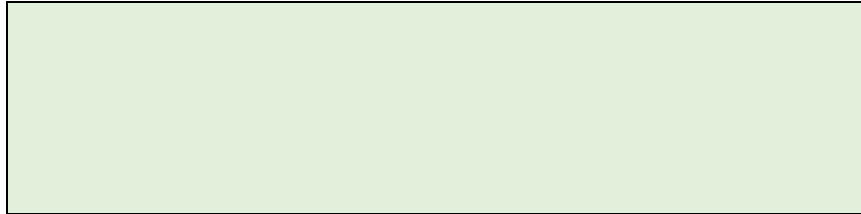
Quote Step 2:



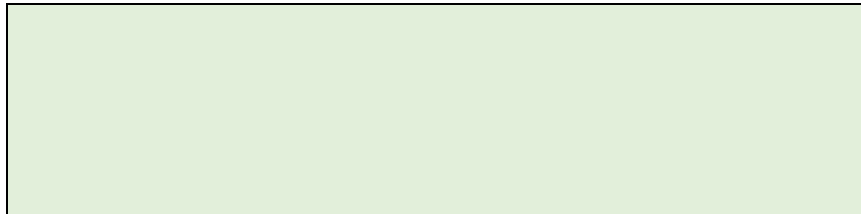
Quote Step 3:



Quote Step 4:



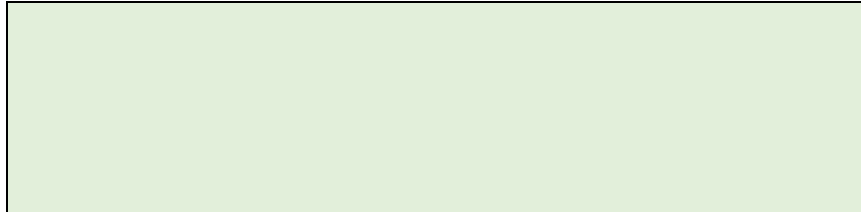
Quote Step 5:



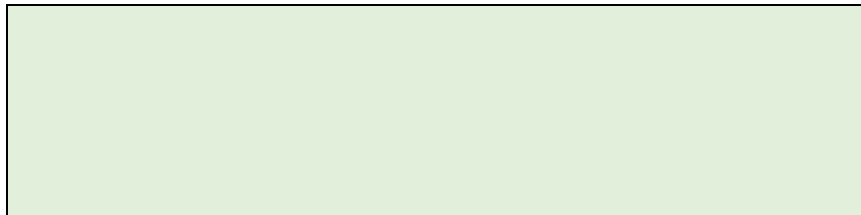
Quote Step 6:



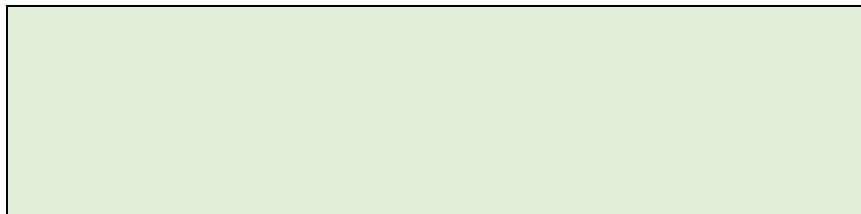
Quote Step 7:



Quote Step 8:



Quote Step 9:



Quote Step 10:

